# Global, Regional and National Burden of Cardiovascular Diseases and Risk Factors in 204 countries and territories, 1990-2023

Appendix 1: Supplementary results

## Preamble

This methods appendix contains supplementary tables and figures to accompany our Global Burden of Cardiovascular Disease, 1990-2023 manuscript.

This study complies with the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER) recommendations. We have documented the steps in our analytical procedures and detailed the data sources used in Section 3. Additional information about GATHER can be found at: https://www.who.int/data/gather.

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# Section 1: Appendix tables

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**Table S1. Socio-demographic index (SDI) groupings by location**

| Location Name | SDI quintile |
|---|---|
| **Global** | |
| **Central Europe, eastern Europe, and central Asia** | |
| **Central Asia** | |
| Armenia | High-middle SDI |
| Azerbaijan | High-middle SDI |
| Georgia | High SDI |
| Kazakhstan | High SDI |
| Kyrgyzstan | Low-middle SDI |
| Mongolia | Middle SDI |
| Tajikistan | Low-middle SDI |
| Turkmenistan | High-middle SDI |
| Uzbekistan | Middle SDI |
| **Central Europe** | |
| Albania | High-middle SDI |
| Bosnia and Herzegovina | High-middle SDI |
| Bulgaria | High SDI |
| Croatia | High SDI |
| Czechia | High SDI |
| Hungary | High SDI |
| Montenegro | High SDI |
| North Macedonia | High SDI |
| Poland | High SDI |
| Romania | High SDI |
| Serbia | High SDI |
| Slovakia | High SDI |
| Slovenia | High SDI |
| **Eastern Europe** | |
| Belarus | High SDI |
| Estonia | High SDI |
| Latvia | High SDI |
| Lithuania | High SDI |
| Moldova | High SDI |
| Russia | High SDI |
| Ukraine | High SDI |
| **High income** | |
| **Australasia** | |
| Australia | High SDI |
| New Zealand | High SDI |
| **High-income Asia Pacific** | |
| Brunei | High SDI |
| Japan | High SDI |
| Aichi | High SDI |
| Akita | High SDI |
| Aomori | High SDI |
| Chiba | High SDI |
| Ehime | High SDI |
| Fukui | High SDI |
| Fukuoka | High SDI |
| Fukushima | High SDI |
| Gifu | High SDI |
| Gunma | High SDI |
| Hiroshima | High SDI |
| Hokkaidō | High SDI |
| Hyōgo | High SDI |
| Ibaraki | High SDI |

| Location Name | SDI quintile |
|---|---|
| Ishikawa | High SDI |
| Iwate | High SDI |
| Kagawa | High SDI |
| Kagoshima | High SDI |
| Kanagawa | High SDI |
| Kōchi | High SDI |
| Kumamoto | High SDI |
| Kyōto | High SDI |
| Mie | High SDI |
| Miyagi | High SDI |
| Miyazaki | High SDI |
| Nagano | High SDI |
| Nagasaki | High SDI |
| Nara | High SDI |
| Niigata | High SDI |
| Ōita | High SDI |
| Okayama | High SDI |
| Okinawa | High SDI |
| Ōsaka | High SDI |
| Saga | High SDI |
| Saitama | High SDI |
| Shiga | High SDI |
| Shimane | High SDI |
| Shizuoka | High SDI |
| Tochigi | High SDI |
| Tokushima | High SDI |
| Tōkyō | High SDI |
| Tottori | High SDI |
| Toyama | High SDI |
| Wakayama | High SDI |
| Yamagata | High SDI |
| Yamaguchi | High SDI |
| Yamanashi | High SDI |
| Singapore | High SDI |
| South Korea | High SDI |
| **High-income North America** | |
| Canada | High SDI |
| Greenland | High SDI |
| USA | High SDI |
| Alabama | High SDI |
| Alaska | High SDI |
| Arizona | High SDI |
| Arkansas | High SDI |
| California | High SDI |
| Colorado | High SDI |
| Connecticut | High SDI |
| Delaware | High SDI |
| Florida | High SDI |
| Georgia | High SDI |
| Hawaii | High SDI |
| Idaho | High SDI |
| Illinois | High SDI |
| Indiana | High SDI |
| Iowa | High SDI |
| Kansas | High SDI |
| Kentucky | High SDI |
| Louisiana | High SDI |

| Location Name | SDI quintile |
|---|---|
| Maine | High SDI |
| Maryland | High SDI |
| Massachusetts | High SDI |
| Michigan | High SDI |
| Minnesota | High SDI |
| Mississippi | High SDI |
| Missouri | High SDI |
| Montana | High SDI |
| Nebraska | High SDI |
| Nevada | High SDI |
| New Hampshire | High SDI |
| New Jersey | High SDI |
| New Mexico | High SDI |
| New York | High SDI |
| North Carolina | High SDI |
| North Dakota | High SDI |
| Ohio | High SDI |
| Oklahoma | High SDI |
| Oregon | High SDI |
| Pennsylvania | High SDI |
| Rhode Island | High SDI |
| South Carolina | High SDI |
| South Dakota | High SDI |
| Tennessee | High SDI |
| Texas | High SDI |
| Utah | High SDI |
| Vermont | High SDI |
| Virginia | High SDI |
| Washington | High SDI |
| Washington, DC | High SDI |
| West Virginia | High SDI |
| Wisconsin | High SDI |
| Wyoming | High SDI |
| **Southern Latin America** | |
| Argentina | High SDI |
| Chile | High SDI |
| Uruguay | High SDI |
| **Western Europe** | |
| Andorra | High SDI |
| Austria | High SDI |
| Belgium | High SDI |
| Cyprus | High SDI |
| Denmark | High SDI |
| Finland | High SDI |
| France | High SDI |
| Germany | High SDI |
| Greece | High SDI |
| Iceland | High SDI |
| Ireland | High SDI |
| Israel | High SDI |
| Italy | High SDI |
| Luxembourg | High SDI |
| Malta | High SDI |
| Monaco | High SDI |
| Netherlands | High SDI |
| Norway | High SDI |
| Agder | High SDI |

| Location Name | SDI quintile |
|---|---|
| Innlandet | High SDI |
| Møre og Romsdal | High SDI |
| Nordland | High SDI |
| Oslo | High SDI |
| Rogaland | High SDI |
| Troms og Finnmark | High SDI |
| Trøndelag | High SDI |
| Vestfold og Telemark | High SDI |
| Vestland | High SDI |
| Viken | High SDI |
| Portugal | High SDI |
| San Marino | High SDI |
| Spain | High SDI |
| Sweden | High SDI |
| Switzerland | High SDI |
| UK | High SDI |
| England | High SDI |
| East Midlands | High SDI |
| East of England | High SDI |
| Greater London | High SDI |
| North East England | High SDI |
| North West England | High SDI |
| South East England | High SDI |
| South West England | High SDI |
| West Midlands | High SDI |
| Yorkshire and the Humber | High SDI |
| Northern Ireland | High SDI |
| Scotland | High SDI |
| Wales | High SDI |
| **Latin America and Caribbean** | |
| **Andean Latin America** | |
| Bolivia | Middle SDI |
| Ecuador | High-middle SDI |
| Peru | High-middle SDI |
| **Caribbean** | |
| Antigua and Barbuda | High SDI |
| Barbados | High SDI |
| Belize | Low-middle SDI |
| Bermuda | High SDI |
| Cuba | High-middle SDI |
| Dominica | High SDI |
| Dominican Republic | Middle SDI |
| Grenada | High-middle SDI |
| Guyana | High-middle SDI |
| Haiti | Low SDI |
| Jamaica | High-middle SDI |
| Puerto Rico | High SDI |
| Saint Kitts and Nevis | High SDI |
| Saint Lucia | High-middle SDI |
| Saint Vincent and the Grenadines | Middle SDI |
| Suriname | Middle SDI |
| The Bahamas | High SDI |
| Trinidad and Tobago | High SDI |
| Virgin Islands | High SDI |
| **Central Latin America** | |
| Colombia | High-middle SDI |
| Costa Rica | High-middle SDI |

| Location Name | SDI quintile |
|---|---|
| El Salvador | Low-middle SDI |
| Guatemala | Low-middle SDI |
| Honduras | Low SDI |
| Mexico | High-middle SDI |
| Aguascalientes | High-middle SDI |
| Baja California | High-middle SDI |
| Baja California Sur | High-middle SDI |
| Campeche | High-middle SDI |
| Chiapas | High-middle SDI |
| Chihuahua | High-middle SDI |
| Coahuila | High-middle SDI |
| Colima | High-middle SDI |
| Durango | High-middle SDI |
| Guanajuato | High-middle SDI |
| Guerrero | High-middle SDI |
| Hidalgo | High-middle SDI |
| Jalisco | High-middle SDI |
| México | High-middle SDI |
| Mexico City | High-middle SDI |
| Michoacán de Ocampo | High-middle SDI |
| Morelos | High-middle SDI |
| Nayarit | High-middle SDI |
| Nuevo León | High-middle SDI |
| Oaxaca | High-middle SDI |
| Puebla | High-middle SDI |
| Querétaro | High-middle SDI |
| Quintana Roo | High-middle SDI |
| San Luis Potosí | High-middle SDI |
| Sinaloa | High-middle SDI |
| Sonora | High-middle SDI |
| Tabasco | High-middle SDI |
| Tamaulipas | High-middle SDI |
| Tlaxcala | High-middle SDI |
| Veracruz de Ignacio de la Llave | High-middle SDI |
| Yucatán | High-middle SDI |
| Zacatecas | High-middle SDI |
| Nicaragua | Low-middle SDI |
| Panama | High-middle SDI |
| Venezuela | Low-middle SDI |
| **Tropical Latin America** | |
| Brazil | High-middle SDI |
| Acre | Low-middle SDI |
| Alagoas | Low-middle SDI |
| Amapá | Middle SDI |
| Amazonas | Middle SDI |
| Bahia | Middle SDI |
| Ceará | Middle SDI |
| Distrito Federal | High SDI |
| Espírito Santo | High-middle SDI |
| Goiás | High-middle SDI |
| Maranhão | Low-middle SDI |
| Mato Grosso | High-middle SDI |
| Mato Grosso do Sul | High-middle SDI |
| Minas Gerais | High-middle SDI |
| Pará | Middle SDI |
| Paraíba | Low-middle SDI |
| Paraná | High-middle SDI |

| Location Name | SDI quintile |
|---|---|
| Pernambuco | Middle SDI |
| Piauí | Low-middle SDI |
| Rio de Janeiro | High SDI |
| Rio Grande do Norte | Middle SDI |
| Rio Grande do Sul | High-middle SDI |
| Rondônia | Middle SDI |
| Roraima | Middle SDI |
| Santa Catarina | High SDI |
| São Paulo | High SDI |
| Sergipe | Middle SDI |
| Tocantins | Middle SDI |
| Paraguay | Middle SDI |
| **North Africa and Middle East** | |
| **North Africa and Middle East** | |
| Afghanistan | Low SDI |
| Algeria | Middle SDI |
| Bahrain | High SDI |
| Egypt | Middle SDI |
| Iran | High-middle SDI |
| Alborz | High-middle SDI |
| Ardebil | High-middle SDI |
| Bushehr | High-middle SDI |
| Chahar Mahaal and Bakhtiari | High-middle SDI |
| East Azarbayejan | High-middle SDI |
| Fars | High-middle SDI |
| Gilan | High-middle SDI |
| Golestan | High-middle SDI |
| Hamadan | High-middle SDI |
| Hormozgan | High-middle SDI |
| Ilam | High-middle SDI |
| Isfahan | High-middle SDI |
| Kerman | High-middle SDI |
| Kermanshah | High-middle SDI |
| Khorasan-e-Razavi | High-middle SDI |
| Khuzestan | High-middle SDI |
| Kohgiluyeh and Boyer-Ahmad | High-middle SDI |
| Kurdistan | High-middle SDI |
| Lorestan | High-middle SDI |
| Markazi | High-middle SDI |
| Mazandaran | High-middle SDI |
| North Khorasan | High-middle SDI |
| Qazvin | High-middle SDI |
| Qom | High-middle SDI |
| Semnan | High-middle SDI |
| Sistan and Baluchistan | High-middle SDI |
| South Khorasan | High-middle SDI |
| Tehran | High-middle SDI |
| West Azarbayejan | High-middle SDI |
| Yazd | High-middle SDI |
| Zanjan | High-middle SDI |
| Iraq | Middle SDI |
| Jordan | High SDI |
| Kuwait | High SDI |
| Lebanon | High SDI |
| Libya | High SDI |
| Morocco | Low-middle SDI |
| Oman | High SDI |

| Location Name | SDI quintile |
|---|---|
| Palestine | Middle SDI |
| Qatar | High SDI |
| Saudi Arabia | High SDI |
| Sudan | Low-middle SDI |
| Syria | Low-middle SDI |
| Tunisia | High-middle SDI |
| Türkiye | High SDI |
| United Arab Emirates | High SDI |
| Yemen | Low SDI |
| **South Asia** | |
| **South Asia** | |
| Bangladesh | Low SDI |
| Bhutan | Low SDI |
| India | Low-middle SDI |
| Andhra Pradesh | Low-middle SDI |
| Arunachal Pradesh | Low-middle SDI |
| Assam | Low-middle SDI |
| Bihar | Low-middle SDI |
| Chhattisgarh | Low-middle SDI |
| Delhi | High-middle SDI |
| Goa | High-middle SDI |
| Gujarat | Low-middle SDI |
| Haryana | Middle SDI |
| Himachal Pradesh | Middle SDI |
| Jammu & Kashmir and Ladakh | Middle SDI |
| Jharkhand | Low-middle SDI |
| Karnataka | Low-middle SDI |
| Kerala | High-middle SDI |
| Madhya Pradesh | Low-middle SDI |
| Maharashtra | Middle SDI |
| Manipur | Middle SDI |
| Meghalaya | Low-middle SDI |
| Mizoram | Middle SDI |
| Nagaland | Middle SDI |
| Odisha | Low-middle SDI |
| Other Union Territories | High-middle SDI |
| Punjab | Middle SDI |
| Rajasthan | Low-middle SDI |
| Sikkim | Low-middle SDI |
| Tamil Nadu | Middle SDI |
| Telangana | Low-middle SDI |
| Tripura | Low-middle SDI |
| Uttar Pradesh | Low-middle SDI |
| Uttarakhand | Middle SDI |
| West Bengal | Low-middle SDI |
| Nepal | Low SDI |
| Pakistan | Low SDI |
| Azad Jammu & Kashmir | Low-middle SDI |
| Balochistan | Low SDI |
| Gilgit-Baltistan | Low SDI |
| Islamabad Capital Territory | High-middle SDI |
| Khyber Pakhtunkhwa | Low SDI |
| Punjab | Low-middle SDI |
| Sindh | Low SDI |
| **Southeast Asia, east Asia, and Oceania** | |
| **East Asia** | |
| China | High SDI |

| Location Name | SDI quintile |
|---|---|
| North Korea | Low-middle SDI |
| Taiwan | High SDI |
| **Oceania** | |
| American Samoa | High SDI |
| Cook Islands | High SDI |
| Federated States of Micronesia | Low-middle SDI |
| Fiji | High-middle SDI |
| Guam | High SDI |
| Kiribati | Low-middle SDI |
| Marshall Islands | Low-middle SDI |
| Nauru | Low-middle SDI |
| Niue | High SDI |
| Northern Mariana Islands | High SDI |
| Palau | High SDI |
| Papua New Guinea | Low SDI |
| Samoa | Low-middle SDI |
| Solomon Islands | Low SDI |
| Tokelau | High SDI |
| Tonga | Middle SDI |
| Tuvalu | Low-middle SDI |
| Vanuatu | Low SDI |
| **Southeast Asia** | |
| Cambodia | Low SDI |
| Indonesia | Middle SDI |
| Aceh | High-middle SDI |
| Bali | Middle SDI |
| Bangka-Belitung Islands | Middle SDI |
| Banten | Middle SDI |
| Bengkulu | Middle SDI |
| Gorontalo | Middle SDI |
| Jakarta | High SDI |
| Jambi | Middle SDI |
| West Java | Middle SDI |
| Central Java | Middle SDI |
| East Java | Middle SDI |
| West Kalimantan | Low-middle SDI |
| South Kalimantan | Middle SDI |
| Central Kalimantan | Middle SDI |
| East Kalimantan | High SDI |
| North Kalimantan | High-middle SDI |
| Riau Islands | High SDI |
| Lampung | Middle SDI |
| Maluku | Middle SDI |
| North Maluku | Middle SDI |
| West Nusa Tenggara | Low-middle SDI |
| East Nusa Tenggara | Low-middle SDI |
| Papua | Middle SDI |
| West Papua | High-middle SDI |
| Riau | High-middle SDI |
| West Sulawesi | Middle SDI |
| South Sulawesi | Middle SDI |
| Central Sulawesi | Middle SDI |
| Southeast Sulawesi | Middle SDI |
| North Sulawesi | High-middle SDI |
| West Sumatra | High-middle SDI |
| South Sumatra | Middle SDI |
| North Sumatra | High-middle SDI |

| Location Name | SDI quintile |
|---|---|
| Yogyakarta | High-middle SDI |
| Laos | Low SDI |
| Malaysia | High SDI |
| Maldives | Middle SDI |
| Mauritius | High SDI |
| Myanmar | Low-middle SDI |
| Philippines | Middle SDI |
| Abra | Middle SDI |
| Agusan Del Norte | Middle SDI |
| Agusan Del Sur | Middle SDI |
| Aklan | Middle SDI |
| Albay | Middle SDI |
| Antique | Middle SDI |
| Apayao | Middle SDI |
| Aurora | Middle SDI |
| Basilan | Middle SDI |
| Bataan | Middle SDI |
| Batanes | Middle SDI |
| Batangas | Middle SDI |
| Benguet | Middle SDI |
| Biliran | Middle SDI |
| Bohol | Middle SDI |
| Bukidnon | Middle SDI |
| Bulacan | Middle SDI |
| Cagayan | Middle SDI |
| Camarines Norte | Middle SDI |
| Camarines Sur | Middle SDI |
| Camiguin | Middle SDI |
| Capiz | Middle SDI |
| Catanduanes | Middle SDI |
| Cavite | Middle SDI |
| Cebu | Middle SDI |
| Cotabato (North Cotabato) | Middle SDI |
| Davao de Oro | Middle SDI |
| Davao Del Norte | Middle SDI |
| Davao Del Sur | Middle SDI |
| Davao Occidental | Middle SDI |
| Davao Oriental | Middle SDI |
| Dinagat Islands | Middle SDI |
| Eastern Samar | Middle SDI |
| Guimaras | Middle SDI |
| Ifugao | Middle SDI |
| Ilocos Norte | Middle SDI |
| Ilocos Sur | Middle SDI |
| Iloilo | Middle SDI |
| Isabela | Middle SDI |
| Kalinga | Middle SDI |
| La Union | Middle SDI |
| Laguna | Middle SDI |
| Lanao Del Norte | Middle SDI |
| Lanao Del Sur | Middle SDI |
| Leyte | Middle SDI |
| Maguindanao | Middle SDI |
| Marinduque | Middle SDI |
| Masbate | Middle SDI |
| Misamis Occidental | Middle SDI |
| Misamis Oriental | Middle SDI |

| Location Name | SDI quintile |
|---|---|
| Mountain Province | Middle SDI |
| National Capital Region | Middle SDI |
| Negros Occidental | Middle SDI |
| Negros Oriental | Middle SDI |
| Northern Samar | Middle SDI |
| Nueva Ecija | Middle SDI |
| Nueva Vizcaya | Middle SDI |
| Occidental Mindoro | Middle SDI |
| Oriental Mindoro | Middle SDI |
| Palawan | Middle SDI |
| Pampanga | Middle SDI |
| Pangasinan | Middle SDI |
| Quezon | Middle SDI |
| Quirino | Middle SDI |
| Rizal | Middle SDI |
| Romblon | Middle SDI |
| Samar (Western Samar) | Middle SDI |
| Sarangani | Middle SDI |
| Siquijor | Middle SDI |
| Sorsogon | Middle SDI |
| South Cotabato | Middle SDI |
| Southern Leyte | Middle SDI |
| Sultan Kudarat | Middle SDI |
| Sulu | Middle SDI |
| Surigao Del Norte | Middle SDI |
| Surigao Del Sur | Middle SDI |
| Tarlac | Middle SDI |
| Tawi-Tawi | Middle SDI |
| Zambales | Middle SDI |
| Zamboanga Del Norte | Middle SDI |
| Zamboanga Del Sur | Middle SDI |
| Zamboanga Sibugay | Middle SDI |
| Seychelles | High SDI |
| Sri Lanka | High SDI |
| Thailand | High-middle SDI |
| Timor-Leste | Low SDI |
| Viet Nam | Middle SDI |
| **Sub-Saharan Africa** | |
| **Central sub-Saharan Africa** | |
| Angola | Low SDI |
| Central African Republic | Low SDI |
| Congo (Brazzaville) | Low-middle SDI |
| DR Congo | Low SDI |
| Equatorial Guinea | Middle SDI |
| Gabon | Middle SDI |
| **Eastern sub-Saharan Africa** | |
| Burundi | Low SDI |
| Comoros | Low SDI |
| Djibouti | Low SDI |
| Eritrea | Low SDI |
| Ethiopia | Low SDI |
| Addis Ababa | Low SDI |
| Afar | Low SDI |
| Amhara | Low SDI |
| Benishangul-Gumuz | Low SDI |
| Dire Dawa | Low SDI |
| Gambella | Low SDI |

| Location Name | SDI quintile |
|---|---|
| Harari | Low SDI |
| Oromia | Low SDI |
| Sidama | Low SDI |
| Somali | Low SDI |
| South West | Low SDI |
| Southern Nations, Nationalities, and Peoples | Low SDI |
| Tigray | Low SDI |
| Kenya | Low-middle SDI |
| Baringo | Low-middle SDI |
| Bomet | Low-middle SDI |
| Bungoma | Low-middle SDI |
| Busia | Low-middle SDI |
| Elgeyo Marakwet | Low-middle SDI |
| Embu | Low-middle SDI |
| Garissa | Low-middle SDI |
| Homa Bay | Low-middle SDI |
| Isiolo | Low-middle SDI |
| Kajiado | Low-middle SDI |
| Kakamega | Low-middle SDI |
| Kericho | Low-middle SDI |
| Kiambu | Low-middle SDI |
| Kilifi | Low-middle SDI |
| Kirinyaga | Low-middle SDI |
| Kisii | Low-middle SDI |
| Kisumu | Low-middle SDI |
| Kitui | Low-middle SDI |
| Kwale | Low-middle SDI |
| Laikipia | Low-middle SDI |
| Lamu | Low-middle SDI |
| Machakos | Low-middle SDI |
| Makueni | Low-middle SDI |
| Mandera | Low-middle SDI |
| Marsabit | Low-middle SDI |
| Meru | Low-middle SDI |
| Migori | Low-middle SDI |
| Mombasa | Low-middle SDI |
| Murang'a | Low-middle SDI |
| Nairobi | Low-middle SDI |
| Nakuru | Low-middle SDI |
| Nandi | Low-middle SDI |
| Narok | Low-middle SDI |
| Nyamira | Low-middle SDI |
| Nyandarua | Low-middle SDI |
| Nyeri | Low-middle SDI |
| Samburu | Low-middle SDI |
| Siaya | Low-middle SDI |
| Taita Taveta | Low-middle SDI |
| Tana River | Low-middle SDI |
| Tharaka Nithi | Low-middle SDI |
| Trans Nzoia | Low-middle SDI |
| Turkana | Low-middle SDI |
| Uasin Gishu | Low-middle SDI |
| Vihiga | Low-middle SDI |
| Wajir | Low-middle SDI |
| West Pokot | Low-middle SDI |
| Madagascar | Low SDI |

| Location Name | SDI quintile |
|---|---|
| Malawi | Low SDI |
| Mozambique | Low SDI |
| Rwanda | Low SDI |
| Somalia | Low SDI |
| South Sudan | Low SDI |
| Uganda | Low SDI |
| Tanzania | Low SDI |
| Zambia | Low SDI |
| **Southern sub-Saharan Africa** | |
| Botswana | High-middle SDI |
| Eswatini | Low-middle SDI |
| Lesotho | Low SDI |
| Namibia | Low-middle SDI |
| South Africa | High-middle SDI |
| Eastern Cape | High-middle SDI |
| Free State | High-middle SDI |
| Gauteng | High-middle SDI |
| KwaZulu-Natal | High-middle SDI |
| Limpopo | High-middle SDI |
| Mpumalanga | High-middle SDI |
| North West | High-middle SDI |
| Northern Cape | High-middle SDI |
| Western Cape | High-middle SDI |
| Zimbabwe | Low SDI |
| **Western sub-Saharan Africa** | |
| Benin | Low SDI |
| Burkina Faso | Low SDI |
| Cabo Verde | Low-middle SDI |
| Cameroon | Low SDI |
| Chad | Low SDI |
| Côte d'Ivoire | Low SDI |
| Ghana | Low-middle SDI |
| Guinea | Low SDI |
| Guinea-Bissau | Low SDI |
| Liberia | Low SDI |
| Mali | Low SDI |
| Mauritania | Low SDI |
| Niger | Low SDI |
| Nigeria | Low SDI |
| Abia | Middle SDI |
| Adamawa | Low SDI |
| Akwa Ibom | Low-middle SDI |
| Anambra | Middle SDI |
| Bauchi | Low SDI |
| Bayelsa | Low-middle SDI |
| Benue | Low SDI |
| Borno | Low SDI |
| Cross River | Low-middle SDI |
| Delta | Low-middle SDI |
| Ebonyi | Low-middle SDI |
| Edo | Low-middle SDI |
| Ekiti | Low-middle SDI |
| Enugu | Low-middle SDI |
| FCT (Abuja) | Low-middle SDI |
| Gombe | Low SDI |
| Imo | Middle SDI |
| Jigawa | Low SDI |

| Location Name | SDI quintile |
|---|---|
| Kaduna | Low SDI |
| Kano | Low SDI |
| Katsina | Low SDI |
| Kebbi | Low SDI |
| Kogi | Low-middle SDI |
| Kwara | Low-middle SDI |
| Lagos | High-middle SDI |
| Nasarawa | Low SDI |
| Niger | Low SDI |
| Ogun | Low-middle SDI |
| Ondo | Low-middle SDI |
| Osun | Low-middle SDI |
| Oyo | Low-middle SDI |
| Plateau | Low-middle SDI |
| Rivers | Middle SDI |
| Sokoto | Low SDI |
| Taraba | Low SDI |
| Yobe | Low SDI |
| Zamfara | Low SDI |
| São Tomé and Príncipe | Low SDI |
| Senegal | Low SDI |
| Sierra Leone | Low SDI |
| The Gambia | Low SDI |
| Togo | Low SDI |

**Table S2. Age-standardized DALY rates for cardiovascular diseases by location**

**Age-standardized DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Global** | **4866.9 (4462.5–5196.3)** | **169.1 (118.4–229.7)** | **2130.2 (1941.8–2316.3)** | **1738.4 (1565.8–1918.2)** | **743.3 (649.8–834.1)** | **867.8 (745.9–979.8)** | **127.3 (107.1–156.4)** | **315.6 (252.2–391.2)** | **39.0 (33.4–44.8)** | **26.8 (22.7–30.1)** | **11.6 (9.2–15.0)** | **0.6 (0.4–0.9)** | **141.5 (114.1–171.9)** | **8.4 (5.6–12.6)** | **24.2 (21.6–27.7)** | **108.9 (83.5–135.5)** | **8.7 (6.3–12.7)** | **103.9 (84.7–130.3)** | **37.8 (33.4–42.5)** | **20.6 (15.9–27.3)** | **27.6 (22.9–34.2)** | **134.5 (106.7–165.1)** |
| **Central Europe, Eastern Europe, and Central Asia** | **7037.0 (6712.3–7264.7)** | **46.9 (40.9–53.5)** | **3817.6 (3652.3–3934.7)** | **1899.3 (1789.1–1994.1)** | **1226.7 (1135.7–1316.0)** | **534.0 (492.8–574.5)** | **138.6 (123.5–154.1)** | **255.5 (236.1–271.1)** | **43.0 (38.1–49.5)** | **23.7 (24.4–30.7)** | **14.2 (12.0–16.8)** | **1.5 (0.7–2.4)** | **569.4 (527.3–617.9)** | **9.4 (7.6–11.1)** | **280.8 (253.0–314.6)** | **135.0 (250.6–306.5)** | **6.5 (5.2–7.9)** | **115.2 (95.4–144.4)** | **71.6 (65.8–78.0)** | **47.5 (41.2–55.6)** | **29.7 (26.1–33.3)** | **135.0 (117.8–154.7)** |
| Central Asia | 8111.4 (7733.6–8421.7) | 118.6 (100.0–138.1) | 4951.3 (4667.2–5168.5) | 2163.2 (2019.8–2281.5) | 1153.0 (1054.1–1237.4) | 870.1 (792.3–952.7) | 140.1 (123.5–163.0) | 326.3 (285.5–372.8) | 25.7 (20.9–32.9) | 9.0 (7.4–11.0) | 15.1 (11.6–19.8) | 1.6 (0.8–2.7) | 268.3 (240.7–293.8) | 10.1 (7.8–12.9) | 88.8 (76.3–100.8) | 169.4 (149.1–192.0) | 13.9 (10.3–17.7) | 86.5 (67.2–112.9) | 35.7 (31.5–40.4) | 11.8 (8.2–17.3) | 9.8 (8.4–11.3) | 100.4 (87.5–114.4) |
| Armenia | 4718.1 (4409.6–5065.9) | 32.8 (27.8–37.4) | 3044.0 (2841.2–3276.2) | 1015.0 (928.3–1099.9) | 724.6 (660.6–787.5) | 223.6 (198.8–254.4) | 66.8 (56.3–77.6) | 140.4 (125.2–155.9) | 9.2 (7.7–11.2) | 12.6 (9.7–16.5) | 0.3 (0.1–0.8) | 96.2 (83.5–111.2) | 1.1 (0.9–1.4) | 24.4 (18.9–30.4) | 70.7 (59.0–83.1) | 2.3 (1.9–2.8) | 81.1 (62.2–106.7) | 156.5 (135.6–179.0) | 18.6 (14.5–24.5) | 5.6 (4.7–6.7) | 103.5 (84.4–125.4) |
| Azerbaijan | 8029.3 (7249.3–8775.2) | 84.9 (52.7–117.2) | 5546.8 (4917.5–6086.4) | 1419.5 (1160.7–1701.4) | 539.0 (399.2–697.5) | 828.3 (637.2–1023.1) | 52.2 (39.6–68.2) | 340.9 (253.7–479.0) | 11.1 (7.2–16.7) | 3.4 (2.3–5.1) | 7.5 (4.4–11.8) | 0.2 (0.1–0.4) | 396.8 (285.0–529.4) | 24.1 (11.5–40.5) | 12.7 (2.9–33.3) | 360.0 (258.8–481.2) | 18.9 (8.8–31.9) | 77.6 (57.9–103.7) | 25.5 (18.2–37.0) | 11.7 (7.7–17.7) | 3.2 (2.0–5.4) | 92.5 (68.4–119.4) |
| Georgia | 7309.6 (6818.0–7801.5) | 77.4 (64.8–91.1) | 2746.5 (2509.3–3025.4) | 3185.3 (2914.8–3448.5) | 1758.2 (1535.5–1978.8) | 1199.3 (1034.3–1390.4) | 227.8 (193.6–265.8) | 569.8 (499.9–638.1) | 105.6 (89.1–124.0) | 36.2 (29.3–43.3) | 62.3 (51.2–75.2) | 7.1 (3.0–12.9) | 179.3 (151.6–213.5) | 11.1 (7.0–17.3) | 12.2 (8.4–17.2) | 156.0 (131.2–184.8) | 31.0 (23.8–39.9) | 153.2 (130.7–185.0) | 63.1 (51.8–76.0) | 21.4 (16.8–26.9) | 14.2 (11.7–16.9) | 162.7 (138.2–189.9) |
| Kazakhstan | 6241.5 (5851.6–6666.7) | 33.2 (29.3–37.5) | 3366.7 (3033.9–3684.8) | 1909.6 (1778.3–2065.1) | 1103.8 (1000.3–1219.3) | 674.9 (602.9–753.3) | 130.8 (114.5–148.8) | 74.9 (67.3–82.9) | 19.0 (15.5–24.8) | 6.7 (5.4–8.4) | 11.3 (8.7–15.7) | 0.9 (0.4–1.9) | 591.2 (530.8–654.7) | 5.3 (3.8–7.2) | 315.0 (268.5–359.5) | 271.0 (235.1–311.7) | 2.5 (2.0–3.3) | 89.3 (69.5–114.8) | 35.1 (30.1–41.0) | 11.2 (7.3–17.0) | 15.8 (13.0–18.9) | 93.0 (80.6–107.5) |
| Kyrgyzstan | 7854.0 (7455.1–8316.2) | 121.7 (101.2–146.3) | 4931.5 (4646.0–5234.0) | 1998.8 (1866.6–2122.6) | 1189.2 (1085.0–1304.1) | 647.3 (581.5–721.3) | 162.3 (142.9–186.4) | 334.7 (297.2–373.3) | 13.5 (10.5–18.7) | 4.3 (3.4–5.6) | 8.8 (6.4–13.0) | 0.4 (0.1–0.7) | 251.8 (221.5–278.3) | 16.5 (12.9–20.5) | 207.3 (180.7–229.9) | 28.0 (23.4–33.4) | 1.9 (1.6–2.3) | 83.5 (65.8–108.1) | 17.6 (15.0–20.6) | 12.5 (8.9–18.0) | 6.5 (5.5–7.7) | 79.8 (68.4–93.2) |
| Mongolia | 6765.4 (6105.4–7392.9) | 113.4 (86.3–143.9) | 3466.9 (3019.1–3928.8) | 2373.0 (2030.7–2735.5) | 387.0 (318.5–464.7) | 1656.9 (1380.2–1915.9) | 329.0 (254.4–413.5) | 133.9 (97.5–181.9) | 27.4 (20.5–36.8) | 7.9 (5.2–11.5) | 18.3 (12.8–25.7) | 1.2 (0.5–2.4) | 448.1 (319.2–586.9) | 14.7 (7.7–26.8) | 152.7 (76.1–243.0) | 280.7 (162.7–382.8) | 24.5 (5.3–39.4) | 75.9 (55.4–105.4) | 14.0 (10.0–18.0) | 7.2 (4.0–12.3) | 7.8 (5.3–11.6) | 73.2 (55.9–90.0) |
| Tajikistan | 10463.1 (9191.2–11776.3) | 108.1 (78.8–143.5) | 6250.9 (5303.9–7290.9) | 3099.7 (2549.5–3726.8) | 1512.8 (1193.1–1868.9) | 1445.4 (1114.0–1850.8) | 141.6 (100.0–199.4) | 808.4 (555.6–1107.9) | 8.0 (4.9–12.9) | 1.4 (0.8–2.3) | 6.4 (3.8–10.8) | 0.2 (0.1–0.3) | 42.0 (27.1–58.8) | 0.4 (0.3–0.7) | 0.1 (0.02–0.2) | 41.5 (26.7–58.3) | 30.8 (14.1–51.6) | 68.0 (49.7–94.4) | 6.6 (4.4–9.6) | 11.0 (7.1–15.9) | 1.4 (0.8–2.4) | 28.3 (20.6–36.0) |
| Turkmenistan | 11314.0 (10460.1–12399.5) | 151.4 (124.8–181.2) | 6514.0 (5999.0–7086.2) | 3553.1 (3190.3–3930.6) | 1995.3 (1503.9–2514.8) | 1228.6 (843.9–1730.4) | 329.2 (199.8–622.0) | 299.5 (238.5–363.1) | 15.4 (12.0–20.9) | 4.6 (3.6–6.1) | 9.9 (7.0–14.1) | 0.9 (0.4–1.8) | 526.1 (457.9–601.5) | 35.6 (26.3–45.2) | 13.3 (8.3–19.4) | 477.3 (413.9–549.2) | 6.9 (5.2–8.9) | 92.0 (71.4–119.1) | 34.7 (28.5–42.6) | 12.3 (8.0–18.0) | 9.1 (7.7–11.0) | 99.5 (85.8–115.1) |
| Uzbekistan | 10136.8 (9727.3–10522.2) | 194.3 (165.7–222.9) | 6928.7 (6605.1–7194.6) | 2249.3 (2086.1–2393.7) | 1216.7 (1105.6–1342.5) | 903.6 (812.3–1018.2) | 129.0 (112.0–147.6) | 416.2 (339.4–496.3) | 25.8 (21.0–33.9) | 9.4 (7.6–11.3) | 14.1 (10.7–19.8) | 2.3 (1.1–4.0) | 67.1 (58.8–77.7) | 7.5 (5.7–9.7) | 0.1 (0.1–0.1) | 59.6 (52.0–68.9) | 16.1 (12.6–20.1) | 73.2 (55.7–97.6) | 24.7 (21.4–28.5) | 8.5 (5.0–13.7) | 10.8 (9.3–12.6) | 122.3 (106.6–140.8) |
| Central Europe | 4906.5 (4640.7–5102.6) | 29.3 (26.3–32.0) | 2340.5 (2216.3–2423.5) | 1436.1 (1343.4–1511.1) | 945.6 (871.8–1007.1) | 383.2 (356.0–418.2) | 107.4 (96.4–118.6) | 425.5 (393.4–451.1) | 72.4 (65.8–79.6) | 47.8 (43.2–52.8) | 22.4 (19.7–25.6) | 2.2 (0.9–3.4) | 250.9 (229.3–277.4) | 7.1 (6.0–8.2) | 62.8 (53.5–70.9) | 181.1 (164.5–200.8) | 6.0 (5.0–7.1) | 120.5 (98.9–152.3) | 59.4 (55.5–63.2) | 33.4 (29.1–38.9) | 19.9 (18.2–21.7) | 112.7 (94.4–134.8) |
| Albania | 4476.1 (3968.3–4952.6) | 33.8 (22.7–50.7) | 2075.3 (1713.3–2423.7) | 1603.7 (1310.7–1966.3) | 432.2 (325.3–555.3) | 1076.8 (848.2–1355.8) | 94.7 (66.6–138.2) | 159.6 (112.9–217.3) | 40.7 (29.3–55.7) | 21.3 (12.9–31.3) | 18.1 (11.5–26.3) | 1.3 (0.5–2.8) | 158.8 (109.3–225.9) | 16.5 (8.1–27.3) | 19.6 (6.3–45.7) | 122.7 (82.2–175.7) | 7.2 (4.3–10.9) | 113.4 (89.7–150.0) | 23.5 (14.6–32.9) | 9.6 (6.1–13.9) | 17.9 (12.8–24.9) | 232.6 (165.9–329.7) |
| Bosnia and Herzegovina | 5474.6 (5034.5–5894.2) | 17.9 (13.5–23.3) | 2589.1 (2358.8–2878.3) | 1912.9 (1670.0–2147.4) | 1437.0 (1266.3–1621.7) | 359.6 (289.2–462.5) | 116.3 (88.5–146.2) | 247.7 (163.7–316.7) | 66.8 (49.9–86.8) | 30.3 (20.2–41.4) | 33.6 (22.8–47.7) | 2.9 (1.4–5.2) | 315.0 (210.3–445.2) | 11.7 (5.8–21.1) | 55.7 (18.1–106.2) | 247.6 (157.2–350.6) | 3.0 (1.8–5.7) | 118.7 (96.0–150.4) | 67.4 (51.6–84.8) | 13.5 (8.9–19.8) | 4.4 (3.1–6.1) | 118.1 (91.7–149.0) |
| Bulgaria | 7886.9 (7533.9–8221.5) | 46.8 (42.5–51.7) | 3151.3 (2982.9–3352.5) | 2645.8 (2459.7–2832.4) | 1901.3 (1743.4–2024.9) | 615.9 (559.7–694.5) | 128.6 (113.6–142.5) | 1464.2 (1304.7–1613.2) | 37.8 (33.0–43.5) | 19.2 (15.7–22.5) | 14.7 (12.0–17.7) | 4.0 (1.8–6.9) | 79.4 (68.8–89.9) | 16.7 (13.3–20.2) | 5.9 (4.1–7.9) | 56.9 (49.1–64.4) | 2.6 (2.1–3.3) | 128.8 (107.9–157.3) | 43.5 (38.4–48.9) | 12.6 (9.1–18.0) | 22.0 (18.7–25.4) | 252.0 (218.4–294.7) |
| Croatia | 3826.8 (3607.4–4013.7) | 32.2 (28.6–36.0) | 1942.6 (1838.5–2043.6) | 992.3 (913.4–1064.2) | 649.1 (585.6–701.8) | 251.4 (228.8–278.4) | 91.8 (82.7–102.2) | 299.5 (272.1–332.8) | 97.4 (87.1–109.0) | 69.4 (61.7–78.7) | 24.6 (21.1–29.5) | 3.4 (1.4–6.4) | 203.1 (182.0–227.1) | 8.7 (6.9–10.6) | 64.1 (53.9–76.9) | 130.3 (113.8–147.4) | 1.5 (1.3–1.8) | 101.6 (87.1–120.0) | 62.2 (53.9–69.6) | 45.7 (40.2–52.2) | 11.1 (9.6–12.6) | 37.5 (30.7–45.3) |
| Czechia | 3702.2 (3432.6–3904.7) | 28.8 (26.0–31.8) | 2109.7 (1969.1–2200.0) | 765.4 (701.3–822.5) | 512.6 (461.8–557.5) | 171.4 (157.6–187.6) | 81.5 (73.7–89.8) | 171.4 (156.3–189.1) | 81.4 (72.9–91.0) | 55.3 (48.5–61.9) | 23.4 (20.2–27.9) | 2.7 (1.1–5.1) | 80.4 (71.3–89.9) | 3.1 (2.4–3.8) | 14.1 (10.9–17.9) | 63.1 (55.9–71.1) | 11.4 (9.5–13.9) | 129.3 (105.9–160.4) | 60.2 (54.0–66.3) | 25.8 (21.5–31.7) | 26.7 (23.2–30.2) | 211.6 (166.8–262.9) |
| Hungary | 5562.9 (5248.0–5801.5) | 24.5 (21.7–27.3) | 2986.4 (2810.4–3105.3) | 1171.1 (1090.7–1248.6) | 817.0 (758.9–871.6) | 273.2 (247.5–298.3) | 80.9 (71.9–91.1) | 572.0 (524.9–610.0) | 129.3 (120.1–139.6) | 90.9 (83.0–98.3) | 34.5 (30.8–38.9) | 3.9 (1.3–6.8) | 292.5 (269.8–316.0) | 2.2 (1.7–2.7) | 230.5 (210.1–251.6) | 59.8 (52.2–68.1) | 5.1 (4.2–6.0) | 110.1 (89.6–140.1) | 71.1 (66.4–76.1) | 48.1 (42.6–54.2) | 31.2 (27.6–35.7) | 121.6 (105.9–141.6) |
| Montenegro | 6096.6 (5540.8–6628.0) | 27.4 (18.9–37.3) | 2579.2 (2259.7–2917.2) | 2321.0 (2038.0–2653.1) | 1264.6 (1072.4–1517.6) | 968.6 (785.8–1189.5) | 87.9 (67.4–118.2) | 177.6 (127.2–237.2) | 51.8 (36.0–69.8) | 29.5 (19.5–41.9) | 11.7 (6.0–20.3) | 0.6 (0.2–1.4) | 422.6 (262.6–615.3) | 12.3 (6.4–21.1) | 79.8 (27.8–152.9) | 330.5 (199.6–491.1) | 1.9 (0.4–6.8) | 216.6 (179.9–262.0) | 170.5 (124.6–218.3) | 11.8 (8.0–17.2) | 4.7 (3.3–6.6) | 111.4 (84.7–137.1) |
| North Macedonia | 6345.1 (5930.7–6775.8) | 30.9 (22.2–41.3) | 2288.6 (2065.6–2555.9) | 2886.2 (2629.0–3162.8) | 1971.3 (1772.5–2192.8) | 715.3 (608.5–873.0) | 199.6 (158.3–246.0) | 493.7 (342.3–603.1) | 38.3 (25.0–50.7) | 23.3 (14.1–32.0) | 14.2 (8.0–19.6) | 0.8 (0.3–1.6) | 354.5 (236.4–504.2) | 6.8 (3.5–12.2) | 67.0 (24.3–123.2) | 280.8 (177.2–409.4) | 3.1 (1.9–6.5) | 122.1 (96.5–156.0) | 44.6 (33.9–55.7) | 11.9 (8.1–17.4) | 5.6 (3.8–7.8) | 65.6 (48.6–82.0) |
| Poland | 3809.3 (3549.7–4004.9) | 25.1 (22.2–28.6) | 1900.8 (1770.5–2000.8) | 1029.2 (939.7–1110.1) | 668.4 (599.7–729.6) | 262.3 (237.1–291.7) | 98.5 (85.1–111.2) | 270.0 (242.6–302.8) | 65.0 (59.3–71.4) | 44.5 (39.8–49.2) | 18.8 (16.4–21.6) | 1.8 (0.5–3.3) | 186.2 (166.0–208.6) | 6.9 (5.7–8.4) | 61.3 (51.2–72.5) | 118.0 (102.8–132.7) | 3.6 (2.9–4.4) | 126.5 (102.7–159.8) | 64.9 (58.5–72.2) | 46.2 (39.4–53.5) | 25.3 (22.1–29.2) | 66.4 (51.6–85.2) |
| Romania | 6151.0 (5794.6–6409.6) | 33.5 (28.5–39.0) | 2704.3 (2522.4–2838.1) | 2010.4 (1881.0–2150.9) | 1236.6 (1128.3–1339.7) | 630.9 (565.3–703.5) | 142.9 (124.2–163.7) | 550.6 (500.8–596.8) | 42.2 (35.5–52.1) | 27.1 (22.3–34.2) | 14.2 (11.8–17.3) | 0.9 (0.4–1.9) | 524.2 (481.1–579.8) | 8.2 (6.0–10.6) | 36.2 (25.8–48.4) | 479.8 (440.8–529.0) | 14.4 (11.7–17.6) | 99.4 (81.0–125.0) | 43.5 (39.2–48.5) | 27.0 (23.2–32.3) | 12.1 (10.3–13.9) | 89.4 (77.9–105.5) |
| Serbia | 6734.1 (6092.2–7271.6) | 30.5 (22.0–38.5) | 2886.8 (2572.2–3199.4) | 2442.6 (2176.7–2715.0) | 1778.2 (1582.7–1998.8) | 528.3 (437.4–615.9) | 136.1 (106.9–164.2) | 512.3 (321.3–674.8) | 113.4 (82.4–145.5) | 57.7 (39.1–76.0) | 52.2 (34.3–74.4) | 3.5 (1.4–5.9) | 375.7 (231.2–522.3) | 5.7 (2.9–10.0) | 80.3 (30.7–142.9) | 289.8 (166.6–412.7) | 2.3 (1.2–5.8) | 144.4 (120.5–176.5) | 84.7 (68.2–104.3) | 21.9 (16.6–28.0) | 11.5 (7.8–15.6) | 107.9 (86.1–129.6) |
| Slovakia | 4582.4 (4202.5–4879.1) | 25.2 (19.1–30.7) | 2742.4 (2487.7–2937.4) | 1029.8 (915.3–1143.7) | 699.3 (619.7–788.6) | 253.1 (213.9–293.3) | 77.4 (62.0–92.7) | 218.4 (156.0–273.0) | 51.8 (32.6–68.5) | 37.4 (22.3–51.5) | 13.3 (7.4–19.2) | 1.2 (0.5–2.1) | 117.4 (77.0–151.5) | 4.5 (2.6–6.8) | 45.0 (15.3–66.6) | 68.0 (43.4–91.7) | 2.2 (1.4–4.4) | 132.0 (105.2–168.8) | 45.8 (37.0–55.9) | 29.0 (23.5–37.2) | 13.4 (8.5–18.9) | 174.9 (134.2–222.6) |
| Slovenia | 2271.9 (2087.0–2403.0) | 41.8 (36.6–47.7) | 810.0 (749.5–871.6) | 574.6 (517.3–623.9) | 399.9 (354.4–435.2) | 122.6 (110.3–134.6) | 52.1 (44.9–59.8) | 236.0 (208.5–261.5) | 185.7 (163.7–206.9) | 155.7 (137.4–173.0) | 27.2 (23.1–32.8) | 2.7 (1.2–5.4) | 181.4 (162.0–200.5) | 1.9 (1.4–2.3) | 39.0 (28.5–51.7) | 140.5 (123.4–155.8) | 1.1 (0.9–1.3) | 107.4 (87.1–135.9) | 45.2 (38.7–52.0) | 16.1 (13.0–20.3) | 12.0 (10.4–13.4) | 60.8 (47.5–77.1) |
| Eastern Europe | 8053.4 (7686.6–8348.0) | 23.5 (21.2–26.1) | 4457.2 (4244.5–4629.9) | 2100.7 (1972.7–2225.0) | 1406.2 (1311.0–1518.5) | 535.6 (483.9–585.6) | 158.8 (139.2–180.0) | 128.3 (116.6–141.0) | 28.7 (24.5–34.6) | 18.5 (15.8–21.7) | 9.2 (7.3–11.7) | 1.0 (0.4–1.8) | 846.6 (768.4–928.8) | 9.6 (7.3–12.1) | 470.6 (419.9–532.2) | 366.4 (322.4–411.1) | 2.6 (2.1–3.2) | 117.3 (97.9–147.0) | 89.0 (80.4–99.3) | 64.1 (55.1–75.1) | 42.0 (36.1–48.0) | 153.3 (132.9–178.0) |
| Belarus | 9150.8 (8734.9–9540.4) | 41.1 (35.8–46.8) | 6359.4 (6033.8–6708.4) | 1888.2 (1772.2–2010.9) | 1249.6 (1115.8–1347.2) | 509.0 (459.2–572.7) | 129.7 (111.9–148.1) | 26.4 (23.5–29.7) | 10.2 (7.7–14.9) | 6.2 (4.7–8.7) | 3.8 (2.6–6.0) | 0.3 (0.0–0.5) | 407.8 (361.5–465.6) | 4.7 (3.6–6.0) | 259.7 (214.3–307.4) | 143.3 (114.6–174.6) | 1.7 (1.3–2.2) | 111.6 (91.5–140.8) | 96.8 (82.4–114.8) | 79.1 (67.0–90.6) | 28.6 (24.3–33.0) | 100.0 (84.0–117.5) |
| Estonia | 4049.8 (3778.8–4256.2) | 18.3 (15.6–21.1) | 1530.6 (1421.5–1616.3) | 723.3 (661.7–782.0) | 491.8 (446.4–538.7) | 163.3 (149.5–179.0) | 68.2 (59.4–76.0) | 1048.6 (942.2–1128.7) | 94.0 (81.4–107.1) | 74.0 (63.6–84.6) | 18.1 (15.0–21.9) | 1.9 (0.9–3.9) | 267.5 (241.4–295.0) | 2.0 (1.6–2.5) | 135.8 (117.4–157.4) | 129.6 (111.5–150.2) | 1.1 (1.0–1.4) | 125.7 (104.8–153.6) | 73.5 (62.9–84.4) | 24.1 (20.2–28.8) | 39.3 (34.3–44.6) | 103.6 (85.6–127.0) |
| Latvia | 6571.0 (6244.7–6862.3) | 27.9 (23.8–31.4) | 2849.2 (2681.2–3020.4) | 1861.0 (1729.6–1981.3) | 1414.4 (1298.6–1514.2) | 342.6 (308.3–381.7) | 104.1 (90.0–118.2) | 402.6 (358.9–440.7) | 61.1 (53.0–70.4) | 49.5 (43.3–56.9) | 10.6 (8.6–13.2) | 1.0 (0.5–2.0) | 983.2 (916.0–1061.5) | 1.8 (1.4–2.4) | 581.2 (510.5–659.4) | 400.1 (347.4–460.6) | 3.6 (3.0–4.5) | 115.3 (94.6–144.7) | 68.7 (58.8–79.0) | 65.3 (54.5–77.4) | 36.7 (31.6–42.3) | 96.3 (81.4–112.1) |
| Lithuania | 5749.3 (5430.1–5987.2) | 26.8 (23.6–30.2) | 3343.0 (3135.0–3485.6) | 1250.5 (1166.1–1334.6) | 908.6 (842.2–978.7) | 251.9 (229.4–272.8) | 90.0 (78.7–99.4) | 313.2 (282.8–341.2) | 47.5 (40.7–54.8) | 35.3 (30.7–40.4) | 11.0 (8.7–13.9) | 1.3 (0.6–2.4) | 374.4 (341.3–412.6) | 1.7 (1.3–2.2) | 146.0 (125.7–173.0) | 226.8 (200.9–256.9) | 2.0 (1.7–2.4) | 119.4 (97.9–151.0) | 68.6 (59.6–78.5) | 35.3 (30.3–40.9) | 30.2 (25.8–34.8) | 138.4 (115.5–167.7) |
| Republic of Moldova | 6605.9 (6142.6–6946.8) | 34.8 (29.6–39.8) | 4005.8 (3721.5–4213.3) | 1583.4 (1471.8–1705.1) | 884.4 (794.5–979.4) | 632.7 (568.5–696.2) | 66.2 (57.4–74.9) | 517.0 (473.1–557.5) | 15.7 (12.7–20.6) | 6.7 (5.2–9.0) | 8.3 (6.6–10.7) | 0.7 (0.3–1.2) | 194.5 (167.6–223.0) | 3.2 (2.4–4.1) | 114.7 (98.5–133.7) | 76.6 (63.7–90.5) | 0.6 (0.5–0.7) | 103.5 (82.0–133.0) | 33.2 (28.1–37.8) | 33.2 (26.6–40.4) | 22.1 (19.0–26.0) | 62.2 (51.8–74.8) |
| Russian Federation | 7914.9 (7491.8–8206.1) | 19.5 (17.2–21.4) | 4018.8 (3829.4–4183.7) | 2269.7 (2113.5–2419.5) | 1532.6 (1415.6–1651.8) | 563.4 (508.3–615.3) | 173.6 (153.7–194.8) | 102.1 (92.6–113.8) | 32.4 (27.6–38.6) | 20.8 (17.8–24.5) | 10.4 (8.4–13.0) | 1.2 (0.5–2.1) | 949.2 (853.3–1057.0) | 10.7 (8.0–13.7) | 505.1 (446.6–576.7) | 433.4 (381.8–488.1) | 2.6 (2.1–3.1) | 124.6 (103.9–154.7) | 98.9 (88.7–109.4) | 68.3 (57.5–81.8) | 48.4 (41.6–55.3) | 180.6 (156.7–210.5) |
| Ukraine | 8766.6 (8174.6–9332.9) | 32.9 (28.9–38.2) | 5783.2 (5367.7–6217.3) | 1791.7 (1632.9–1947.9) | 1171.9 (1055.7–1293.5) | 487.1 (426.3–556.8) | 132.7 (110.9–154.5) | 136.7 (110.9–162.9) | 15.7 (12.8–20.2) | 9.3 (7.4–11.6) | 5.8 (4.3–7.8) | 0.6 (0.3–1.2) | 678.5 (593.5–776.5) | 8.4 (6.2–10.6) | 456.0 (395.9–530.4) | 214.1 (175.7–266.8) | 3.1 (2.4–4.0) | 97.4 (78.0–126.2) | 63.0 (53.0–76.0) | 53.3 (45.3–62.1) | 23.6 (19.2–28.1) | 87.5 (75.8–101.9) |
| **High-income** | **2458.1 (2230.2–2642.1)** | **24.1 (21.2–26.7)** | **1062.1 (976.4–1127.0)** | **633.1 (566.1–689.1)** | **335.6 (288.9–377.1)** | **203.5 (185.6–218.7)** | **94.0 (86.4–102.4)** | **157.5 (142.3–170.2)** | **69.4 (59.4–78.2)** | **43.8 (45.8–59.4)** | **15.2 (12.8–18.2)** | **0.4 (0.2–0.9)** | **103.1 (94.8–111.8)** | **4.3 (3.6–5.0)** | **18.3 (16.5–20.3)** | **80.5 (73.4–87.7)** | **6.1 (5.3–7.1)** | **125.9 (102.9–154.6)** | **58.0 (53.3–61.9)** | **26.2 (22.1–32.4)** | **32.1 (29.3–34.8)** | **160.5 (127.4–200.5)** |
| Australasia | 1834.1 (1656.8–1992.0) | 26.4 (23.3–29.6) | 815.5 (743.8–867.6) | 409.2 (362.3–450.8) | 221.3 (190.0–248.7) | 113.7 (103.0–126.5) | 74.2 (66.4–82.3) | 38.6 (34.2–42.2) | 56.0 (48.4–62.9) | 43.8 (37.4–49.0) | 12.1 (10.5–13.9) | 0.1 (0.0–0.1) | 94.4 (84.5–104.6) | 3.6 (3.0–4.1) | 23.8 (20.7–27.3) | 67.1 (60.0–74.9) | 3.6 (3.1–4.1) | 149.1 (119.9–180.0) | 45.5 (41.2–49.2) | 23.2 (19.7–27.1) | 25.1 (22.5–27.8) | 147.5 (113.9–185.5) |
| Australia | 1729.0 (1551.8–1879.3) | 20.8 (18.4–23.2) | 755.2 (688.0–812.5) | 386.6 (338.5–428.6) | 206.2 (176.4–233.1) | 110.4 (99.4–122.9) | 70.0 (61.7–77.9) | 37.4 (32.8–41.0) | 48.9 (41.7–55.3) | 38.1 (32.3–42.7) | 10.6 (9.2–12.2) | 0.1 (0.1–0.3) | 84.7 (75.0–93.1) | 2.9 (2.2–3.5) | 21.6 (18.5–25.2) | 60.2 (52.9–66.7) | 3.5 (2.8–4.2) | 144.8 (115.1–185.7) | 40.2 (36.0–44.0) | 22.4 (19.0–26.3) | 25.8 (22.9–28.7) | 158.8 (122.5–200.7) |
| New Zealand | 2423.7 (2217.3–2598.5) | 56.2 (48.3–65.0) | 1153.0 (1054.6–1218.6) | 536.7 (480.1–586.1) | 308.4 (267.9–343.3) | 131.4 (117.9–146.0) | 96.8 (87.6–107.1) | 45.8 (39.8–51.2) | 96.1 (84.5–108.1) | 75.8 (66.2–85.2) | 20.3 (17.3–24.1) | 0.03 (0.01–0.05) | 146.5 (127.8–164.3) | 7.2 (5.5–9.3) | 35.6 (27.4–45.2) | 103.7 (92.0–118.5) | 4.4 (3.5–5.4) | 174.6 (145.2–213.1) | 75.4 (68.2–81.3) | 27.8 (23.7–32.6) | 21.2 (18.6–23.9) | 86.1 (67.7–109.4) |
| High-income Asia Pacific | 1693.0 (1497.2–1849.1) | 12.2 (9.8–14.0) | 589.7 (521.7–645.3) | 673.7 (588.3–734.1) | 312.0 (260.8–350.8) | 231.0 (205.1–249.1) | 130.7 (117.6–142.9) | 52.8 (42.8–63.9) | 47.2 (36.7–55.1) | 35.1 (26.9–40.9) | 11.9 (9.3–15.1) | 0.3 (0.1–0.6) | 54.7 (48.2–61.7) | 6.5 (5.3–7.6) | 5.6 (4.2–7.1) | 42.6 (37.1–49.0) | 9.4 (7.8–11.2) | 70.7 (56.5–88.9) | 87.6 (76.2–94.7) | 9.1 (6.6–12.8) | 15.9 (13.4–18.4) | 70.1 (52.8–93.3) |
| Brunei Darussalam | 3633.1 (3233.6–4085.2) | 33.9 (22.7–47.3) | 1650.5 (1415.5–1902.5) | 1188.1 (995.4–1433.4) | 492.3 (407.5–604.2) | 491.1 (375.6–636.6) | 204.7 (152.9–263.3) | 203.0 (142.1–281.0) | 57.1 (41.2–75.2) | 35.1 (23.0–50.7) | 20.9 (12.7–32.5) | 1.0 (0.4–2.2) | 177.0 (127.5–235.7) | 21.6 (12.5–32.3) | 20.1 (9.2–45.1) | 135.3 (95.3–180.1) | 9.7 (5.2–17.0) | 107.3 (86.9–132.5) | 84.3 (59.9–115.2) | 11.6 (7.7–16.2) | 30.3 (21.0–41.8) | 80.4 (59.9–102.8) |
| Japan | 1766.3 (1569.4–1923.5) | 13.0 (10.4–14.9) | 609.4 (546.0–668.8) | 695.5 (613.8–761.5) | 303.5 (255.4–344.2) | 246.5 (219.5–267.7) | 145.5 (130.2–161.1) | 46.8 (38.7–54.3) | 52.0 (41.4–61.2) | 38.6 (30.0–45.5) | 13.2 (10.5–17.1) | 0.2 (0.1–0.6) | 60.2 (52.2–68.5) | 6.5 (5.2–7.8) | 7.8 (5.9–10.0) | 45.9 (39.7–53.2) | 12.1 (10.0–14.6) | 64.7 (51.7–82.8) | 109.1 (96.3–118.4) | 9.5 (7.0–13.4) | 16.4 (13.7–19.5) | 77.5 (58.2–102.9) |
| Aichi | 1692.1 (1505.4–1864.4) | 10.4 (8.3–11.9) | 516.5 (455.9–583.7) | 718.7 (630.7–788.9) | 308.1 (258.1–353.3) | 250.8 (224.2–277.4) | 159.8 (142.0–176.5) | 34.0 (27.9–39.8) | 46.0 (36.1–54.4) | 34.6 (27.0–41.0) | 11.2 (8.8–14.4) | 0.2 (0.1–0.6) | 52.9 (46.3–60.7) | 5.9 (4.7–7.2) | 6.5 (5.0–8.3) | 40.4 (35.1–47.1) | 12.5 (9.9–15.4) | 62.8 (50.0–80.7) | 128.5 (112.9–140.4) | 9.5 (7.0–13.3) | 15.6 (13.0–18.6) | 84.8 (62.1–115.9) |
| Akita | 1757.6 (1581.5–1923.7) | 16.9 (13.7–19.9) | 424.5 (371.9–477.1) | 842.3 (750.5–926.5) | 339.7 (286.2–380.1) | 329.5 (288.5–365.4) | 173.1 (154.8–192.5) | 42.1 (34.3–49.4) | 62.2 (50.3–73.0) | 46.5 (37.0–55.2) | 15.4 (12.1–19.2) | 0.2 (0.1–0.6) | 68.3 (59.1–78.8) | 8.0 (6.4–9.8) | 9.7 (7.1–13.1) | 50.5 (43.7–59.5) | 12.2 (10.0–14.5) | 71.6 (58.0–89.2) | 103.1 (87.4–117.4) | 10.1 (7.4–14.0) | 16.0 (13.1–18.9) | 88.2 (67.4–115.5) |
| Aomori | 1957.7 (1750.8–2150.1) | 15.4 (12.5–17.9) | 611.7 (546.0–678.6) | 844.6 (746.3–937.8) | 372.1 (318.1–418.4) | 298.3 (263.3–335.4) | 174.1 (155.4–198.0) | 46.4 (38.0–54.4) | 56.6 (46.9–66.6) | 43.9 (35.3–51.6) | 12.4 (10.1–15.2) | 0.2 (0.1–0.6) | 71.4 (61.4–82.5) | 8.6 (6.8–10.4) | 10.1 (7.5–13.3) | 52.8 (44.7–61.4) | 13.1 (10.9–15.8) | 77.5 (62.6–95.0) | 112.5 (96.5–127.4) | 10.8 (8.0–14.5) | 17.2 (14.4–20.3) | 80.5 (63.0–105.3) |
| Chiba | 1858.1 (1637.5–2021.0) | 12.7 (10.3–14.6) | 607.3 (533.1–670.7) | 771.1 (679.1–838.3) | 327.1 (275.4–369.7) | 282.0 (250.0–311.3) | 162.0 (141.5–180.3) | 62.3 (52.0–72.6) | 52.5 (41.1–62.3) | 38.6 (30.2–45.5) | 13.7 (10.9–17.3) | 0.2 (0.1–0.6) | 61.9 (53.0–70.9) | 6.2 (4.9–7.5) | 8.4 (6.2–10.9

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyōgo | 1648.3 (1452.8–1796.3) | 12.1 (9.7–14.0) | 582.8 (515.5–642.0) | 624.0 (544.3–686.3) | 276.6 (228.9–314.7) | 207.7 (184.7–230.3) | 139.6 (122.6–155.6) | 47.4 (38.6–55.8) | 48.7 (38.1–57.8) | 35.9 (27.5–42.4) | 12.6 (9.9–16.3) | 0.2 (0.1–0.6) | 60.9 (52.3–69.5) | 6.1 (4.7–7.4) | 8.5 (6.5–11.0) | 46.3 (39.9–53.2) | 12.5 (10.0–15.1) | 63.3 (50.7–82.3) | 95.5 (83.3–105.1) | 9.8 (7.1–13.7) | 15.1 (12.3–17.8) | 76.3 (57.3–102.6) |
| Ibaraki | 2044.2 (1818.8–2230.0) | 13.6 (11.1–15.8) | 677.1 (604.9–751.4) | 878.1 (777.9–959.1) | 352.4 (300.3–395.7) | 331.4 (292.6–363.6) | 194.4 (168.4–218.0) | 47.2 (38.3–54.8) | 56.5 (45.0–67.5) | 41.0 (32.0–48.2) | 15.2 (12.2–19.3) | 0.2 (0.1–0.6) | 65.9 (56.6–75.5) | 6.8 (5.4–8.4) | 8.5 (6.3–11.2) | 50.6 (42.6–58.3) | 14.2 (11.6–17.4) | 68.7 (54.1–87.9) | 111.8 (98.0–126.4) | 9.3 (6.6–13.2) | 19.0 (15.6–22.6) | 82.8 (61.0–109.7) |
| Ishikawa | 1588.6 (1392.6–1772.8) | 11.8 (9.5–13.7) | 530.2 (467.3–604.6) | 629.0 (548.2–697.7) | 307.4 (256.0–348.0) | 201.0 (172.7–225.5) | 120.6 (105.8–137.7) | 36.9 (29.4–43.0) | 47.6 (37.2–57.1) | 35.8 (27.1–42.6) | 11.6 (9.2–14.8) | 0.2 (0.1–0.5) | 55.8 (48.6–64.9) | 7.3 (6.1–8.7) | 6.6 (4.9–8.7) | 41.9 (36.2–48.7) | 12.2 (10.1–14.6) | 65.7 (51.7–84.4) | 95.8 (81.2–109.2) | 9.3 (6.6–13.1) | 13.2 (11.0–15.7) | 81.2 (59.5–110.4) |
| Iwate | 1970.0 (1727.2–2179.8) | 14.9 (11.9–17.5) | 513.8 (451.8–579.0) | 973.3 (842.8–1078.1) | 397.4 (332.7–451.1) | 379.2 (330.5–421.5) | 196.7 (174.1–224.6) | 41.3 (32.7–48.9) | 65.6 (52.7–81.5) | 44.0 (34.2–52.9) | 21.4 (15.8–29.4) | 0.2 (0.1–0.6) | 61.9 (52.9–73.2) | 7.2 (5.6–8.8) | 9.4 (6.9–12.4) | 45.4 (38.3–53.4) | 10.5 (8.5–12.7) | 69.8 (54.4–89.1) | 113.5 (95.8–128.1) | 10.0 (7.3–13.8) | 17.3 (14.1–20.7) | 78.3 (58.5–105.4) |
| Kagawa | 1579.0 (1390.1–1751.3) | 15.1 (11.9–17.6) | 472.3 (414.4–533.9) | 666.3 (577.3–739.8) | 319.0 (270.0–362.0) | 221.1 (192.9–246.5) | 126.2 (109.0–142.9) | 39.3 (31.6–46.3) | 58.5 (47.1–68.8) | 43.2 (33.5–51.3) | 15.2 (11.9–19.5) | 0.2 (0.1–0.6) | 61.6 (53.2–70.9) | 6.9 (5.8–8.2) | 8.6 (6.4–11.6) | 46.2 (39.6–53.8) | 14.1 (11.9–16.5) | 66.1 (53.2–83.9) | 87.8 (72.8–101.1) | 9.2 (6.6–12.6) | 17.0 (14.3–20.3) | 71.6 (53.9–97.7) |
| Kagoshima | 1772.7 (1560.0–1937.4) | 14.4 (11.6–16.9) | 546.4 (479.8–613.5) | 729.3 (631.5–802.7) | 322.4 (267.6–367.6) | 243.6 (211.9–274.3) | 163.4 (143.6–182.1) | 45.4 (37.0–52.9) | 57.1 (46.2–66.9) | 44.7 (35.0–52.6) | 12.2 (10.0–14.8) | 0.2 (0.1–0.6) | 65.4 (56.1–76.3) | 8.8 (6.9–10.8) | 9.0 (6.6–11.7) | 47.6 (40.9–56.0) | 14.1 (11.5–17.3) | 64.5 (50.3–82.2) | 119.0 (102.1–135.4) | 10.2 (7.5–14.1) | 16.2 (13.4–19.6) | 90.6 (67.5–121.6) |
| Kanagawa | 1754.2 (1552.1–1919.4) | 12.5 (10.1–14.4) | 652.3 (586.4–721.7) | 638.3 (561.9–707.3) | 269.5 (223.3–309.6) | 233.1 (205.8–257.1) | 135.7 (119.5–151.9) | 43.7 (36.3–50.6) | 53.3 (42.2–62.6) | 40.6 (31.4–48.0) | 12.5 (10.0–15.9) | 0.2 (0.1–0.6) | 64.4 (55.5–74.5) | 6.1 (4.8–7.6) | 9.4 (7.1–12.4) | 48.9 (42.0–56.5) | 11.7 (9.5–14.2) | 69.7 (55.0–87.7) | 109.0 (96.8–119.3) | 9.2 (6.7–13.0) | 16.2 (13.4–19.0) | 73.9 (54.3–100.3) |
| Kōchi | 1741.8 (1535.2–1920.3) | 13.4 (10.8–15.8) | 612.6 (551.0–682.0) | 654.4 (568.3–724.7) | 297.2 (247.4–342.0) | 215.3 (188.7–241.9) | 141.9 (125.3–160.9) | 38.2 (30.9–44.8) | 64.4 (49.7–76.6) | 46.9 (35.7–55.6) | 17.3 (12.9–23.2) | 0.2 (0.1–0.6) | 76.0 (66.4–87.8) | 8.0 (6.8–9.5) | 11.5 (8.6–15.1) | 56.5 (48.5–65.5) | 15.0 (12.6–17.7) | 64.7 (51.8–82.7) | 99.8 (83.1–115.3) | 9.5 (6.8–13.2) | 15.7 (12.8–18.9) | 78.0 (58.8–103.9) |
| Kumamoto | 1446.3 (1273.4–1597.4) | 12.0 (9.5–14.0) | 359.6 (315.4–403.4) | 631.4 (547.4–707.5) | 275.3 (227.6–316.7) | 213.2 (182.2–238.5) | 143.0 (125.8–166.0) | 37.9 (30.2–44.0) | 49.3 (38.3–58.8) | 35.5 (26.8–42.5) | 13.6 (10.6–17.5) | 0.2 (0.1–0.6) | 61.9 (53.6–72.0) | 6.8 (5.2–8.5) | 6.7 (4.8–8.7) | 48.4 (41.7–58.0) | 11.4 (9.0–14.0) | 62.8 (49.9–80.3) | 106.4 (90.2–121.7) | 9.1 (6.3–12.6) | 12.9 (10.5–15.5) | 91.6 (67.6–123.9) |
| Kyōto | 1667.8 (1477.2–1825.6) | 11.3 (9.1–13.3) | 667.8 (592.1–739.7) | 583.1 (506.9–646.4) | 254.5 (213.9–288.8) | 216.9 (188.6–243.4) | 111.7 (97.4–125.6) | 39.2 (31.7–46.2) | 44.7 (36.1–53.2) | 33.1 (26.4–39.0) | 11.4 (9.1–14.7) | 0.2 (0.1–0.6) | 55.7 (48.3–65.5) | 6.4 (5.1–7.9) | 7.2 (5.3–9.6) | 42.0 (36.0–49.4) | 12.2 (9.8–14.6) | 66.3 (53.8–83.2) | 87.5 (75.9–98.0) | 9.6 (6.9–13.2) | 14.8 (12.1–17.6) | 75.7 (57.2–97.4) |
| Mie | 1758.8 (1547.3–1928.8) | 12.3 (9.8–14.4) | 617.0 (546.5–681.7) | 693.1 (606.6–766.4) | 321.1 (268.4–363.1) | 239.7 (211.6–267.8) | 132.4 (117.4–151.0) | 41.6 (33.6–48.8) | 50.6 (39.2–59.8) | 38.0 (29.1–44.9) | 12.3 (9.8–15.2) | 0.2 (0.1–0.6) | 57.1 (48.9–66.3) | 5.7 (4.5–7.0) | 8.0 (6.0–10.3) | 43.3 (36.8–50.7) | 13.3 (10.8–16.3) | 61.2 (48.2–78.5) | 109.4 (94.5–123.8) | 9.4 (7.0–13.3) | 16.2 (13.3–19.3) | 77.7 (56.5–104.1) |
| Miyagi | 1835.7 (1622.8–2021.4) | 13.6 (10.9–15.6) | 546.7 (487.5–608.5) | 819.2 (723.8–897.2) | 320.5 (271.1–362.5) | 341.9 (305.5–378.2) | 156.8 (137.6–176.5) | 39.2 (31.6–45.9) | 54.6 (43.1–64.8) | 41.2 (31.7–48.4) | 13.2 (10.5–16.2) | 0.2 (0.1–0.6) | 68.3 (58.9–79.8) | 7.1 (5.5–8.8) | 8.3 (6.2–11.0) | 53.0 (45.1–62.3) | 10.7 (8.6–13.0) | 65.8 (52.1–83.5) | 115.2 (99.8–128.7) | 9.8 (7.1–13.6) | 16.1 (13.3–19.4) | 76.6 (56.6–103.5) |
| Miyazaki | 1649.9 (1453.3–1819.1) | 16.3 (13.0–19.1) | 490.4 (422.6–553.4) | 687.7 (592.5–763.5) | 292.4 (243.6–328.4) | 244.0 (211.8–272.5) | 151.3 (133.2–170.4) | 46.4 (36.7–54.5) | 58.7 (46.6–70.0) | 41.4 (31.9–48.8) | 17.1 (12.8–22.7) | 0.2 (0.1–0.6) | 61.6 (53.1–70.9) | 6.3 (5.1–7.4) | 8.6 (6.5–11.4) | 46.6 (40.0–54.0) | 12.6 (10.4–15.1) | 68.0 (54.9–85.8) | 102.3 (86.3–115.5) | 10.3 (7.5–14.3) | 18.6 (15.4–22.0) | 76.9 (58.1–102.3) |
| Nagano | 1571.6 (1386.2–1746.3) | 11.7 (9.3–13.5) | 451.6 (399.2–506.6) | 668.1 (583.1–738.4) | 306.2 (253.9–351.8) | 217.7 (187.6–241.3) | 144.2 (125.6–160.9) | 40.6 (32.1–47.1) | 52.4 (41.0–63.1) | 39.3 (30.0–46.7) | 12.9 (10.1–17.1) | 0.2 (0.1–0.6) | 57.3 (49.1–66.1) | 6.6 (5.5–8.0) | 7.9 (5.8–10.6) | 42.7 (36.4–49.4) | 10.2 (8.3–12.3) | 65.2 (51.7–83.7) | 110.0 (95.0–123.9) | 8.4 (5.8–12.1) | 15.4 (12.7–18.4) | 81.0 (58.2–108.4) |
| Nagasaki | 1546.9 (1344.5–1694.0) | 15.3 (12.2–17.9) | 461.1 (401.5–511.7) | 613.6 (530.2–679.0) | 286.8 (238.2–329.3) | 205.2 (176.7–230.7) | 121.6 (106.9–136.4) | 48.5 (39.1–57.1) | 56.0 (44.3–66.3) | 41.1 (31.2–48.7) | 14.6 (11.5–18.8) | 0.3 (0.1–0.6) | 64.1 (54.6–74.4) | 7.9 (6.3–9.5) | 7.1 (5.2–9.8) | 49.1 (42.0–57.4) | 11.2 (9.0–13.7) | 62.5 (49.0–80.5) | 110.4 (93.3–124.1) | 10.3 (7.7–14.0) | 17.6 (14.2–20.9) | 76.3 (57.7–101.5) |
| Nara | 1418.3 (1244.1–1576.1) | 11.9 (9.5–14.0) | 431.9 (377.0–486.6) | 568.6 (494.7–634.3) | 279.7 (234.5–320.8) | 177.5 (153.0–198.1) | 111.4 (98.5–127.3) | 41.9 (33.2–49.7) | 47.7 (36.8–57.4) | 35.5 (26.8–42.0) | 11.9 (8.9–16.0) | 0.2 (0.1–0.6) | 58.0 (50.1–66.4) | 6.9 (5.6–8.1) | 7.3 (5.4–9.3) | 43.8 (37.4–51.0) | 13.0 (10.7–15.4) | 61.0 (47.9–79.4) | 89.9 (76.1–102.2) | 8.9 (6.3–12.6) | 17.7 (14.4–21.1) | 68.1 (49.9–89.6) |
| Niigata | 1749.3 (1558.5–1939.9) | 13.6 (11.0–15.9) | 464.1 (409.7–527.3) | 825.0 (726.5–920.3) | 361.6 (306.5–411.6) | 288.5 (251.4–322.6) | 174.9 (155.3–198.2) | 44.2 (36.7–51.6) | 57.2 (44.4–68.6) | 41.1 (31.3–48.7) | 15.9 (12.4–20.5) | 0.2 (0.1–0.5) | 57.4 (49.2–66.8) | 6.1 (4.8–7.6) | 7.8 (5.8–10.3) | 43.4 (37.2–50.9) | 10.7 (8.7–13.1) | 75.8 (59.7–98.2) | 99.4 (86.7–112.3) | 9.3 (6.8–13.0) | 17.2 (14.3–20.6) | 75.4 (55.5–102.1) |
| Ōita | 1604.5 (1393.2–1769.0) | 13.7 (10.8–16.1) | 533.2 (465.3–594.4) | 635.0 (548.9–705.9) | 286.8 (236.5–327.5) | 214.1 (183.7–242.5) | 134.4 (116.1–152.8) | 44.9 (36.0–52.5) | 50.2 (39.2–60.3) | 36.6 (27.6–44.2) | 13.4 (10.3–17.3) | 0.2 (0.1–0.6) | 60.4 (52.0–69.8) | 8.0 (6.4–9.8) | 7.9 (5.9–10.4) | 44.6 (38.0–51.7) | 12.2 (9.9–14.8) | 64.1 (50.4–82.7) | 95.2 (78.4–109.0) | 10.0 (7.4–13.7) | 17.1 (13.8–20.5) | 68.3 (52.3–90.4) |
| Okayama | 1620.3 (1419.0–1792.9) | 11.6 (9.4–13.6) | 610.9 (532.6–687.1) | 600.3 (519.6–665.5) | 275.4 (229.0–315.2) | 192.1 (167.0–216.4) | 132.8 (117.5–148.9) | 34.5 (27.0–40.9) | 48.3 (38.3–58.0) | 34.8 (26.4–42.0) | 13.2 (10.3–17.1) | 0.2 (0.1–0.6) | 57.2 (48.8–67.4) | 6.2 (5.0–7.6) | 7.5 (5.5–9.9) | 43.5 (37.0–51.8) | 12.3 (10.0–14.9) | 59.2 (46.4–75.4) | 93.6 (80.2–106.7) | 9.8 (7.1–13.5) | 14.5 (12.0–17.2) | 68.1 (49.0–91.1) |
| Okinawa | 1911.3 (1693.9–2064.3) | 16.1 (12.8–19.1) | 649.0 (576.8–722.3) | 717.1 (620.5–791.8) | 266.8 (223.4–304.2) | 297.8 (257.9–332.7) | 152.4 (133.5–173.3) | 44.9 (36.8–52.8) | 65.2 (52.0–77.0) | 52.2 (40.2–61.2) | 12.7 (10.1–15.7) | 0.2 (0.1–0.7) | 76.2 (65.9–88.2) | 8.1 (6.5–9.8) | 13.4 (10.0–17.5) | 54.7 (46.3–63.0) | 14.8 (12.1–17.7) | 66.1 (52.5–84.3) | 129.6 (110.1–148.6) | 10.0 (7.2–13.8) | 21.1 (17.2–25.3) | 101.4 (75.2–134.0) |
| Ōsaka | 1928.0 (1722.7–2077.8) | 12.4 (10.3–14.1) | 844.1 (762.9–918.3) | 628.5 (551.5–693.4) | 294.8 (251.4–335.3) | 206.7 (184.0–229.2) | 127.0 (111.6–143.8) | 77.6 (65.4–89.7) | 47.2 (38.2–55.3) | 34.9 (27.5–40.4) | 12.2 (9.7–15.5) | 0.2 (0.1–0.6) | 63.5 (55.3–73.3) | 6.1 (4.7–7.4) | 9.1 (6.9–11.8) | 48.3 (42.1–55.6) | 12.0 (9.5–14.7) | 61.7 (49.1–79.0) | 93.0 (82.3–101.0) | 10.1 (7.5–13.7) | 15.6 (13.2–18.3) | 62.2 (45.7–82.4) |
| Saga | 1481.3 (1309.2–1635.6) | 12.1 (9.5–14.3) | 424.2 (367.7–480.7) | 617.2 (536.8–687.8) | 271.8 (228.0–308.9) | 213.7 (183.1–240.4) | 131.7 (114.7–150.7) | 51.6 (41.5–60.2) | 49.4 (38.3–59.6) | 35.6 (26.6–42.4) | 13.6 (10.3–17.9) | 0.2 (0.1–0.5) | 51.7 (44.3–60.5) | 6.3 (5.3–7.4) | 6.4 (4.7–8.7) | 38.9 (33.5–46.2) | 10.0 (8.5–11.8) | 64.2 (50.5–82.9) | 95.6 (80.7–111.3) | 9.8 (7.2–13.5) | 14.5 (11.9–17.4) | 80.9 (59.1–108.3) |
| Saitama | 1958.2 (1713.9–2148.5) | 13.1 (10.5–15.2) | 795.7 (704.8–877.6) | 718.4 (625.4–796.7) | 314.3 (262.6–364.1) | 247.9 (218.9–277.8) | 156.2 (135.3–175.5) | 41.2 (33.0–47.8) | 51.4 (39.9–61.6) | 36.5 (28.0–43.4) | 14.7 (11.3–19.2) | 0.2 (0.1–0.6) | 56.4 (48.7–64.4) | 6.1 (4.8–7.4) | 6.5 (4.9–8.3) | 43.8 (37.3–50.5) | 12.6 (10.0–15.3) | 67.3 (52.9–84.0) | 100.2 (87.2–110.2) | 9.2 (6.7–12.9) | 17.6 (14.8–20.6) | 75.2 (55.9–102.5) |
| Shiga | 1519.6 (1320.8–1696.5) | 12.4 (9.8–14.5) | 548.7 (478.7–620.1) | 545.5 (471.0–612.4) | 252.9 (210.0–293.8) | 172.6 (148.5–192.4) | 120.0 (105.6–135.3) | 41.5 (33.5–48.6) | 53.5 (41.2–65.1) | 39.6 (29.8–47.5) | 13.7 (10.2–18.6) | 0.2 (0.1–0.5) | 53.8 (46.0–62.3) | 6.7 (5.4–8.1) | 6.2 (4.6–8.2) | 40.9 (34.9–48.1) | 12.1 (10.0–14.6) | 62.4 (48.7–81.3) | 87.5 (72.8–100.8) | 9.0 (6.4–12.9) | 16.2 (13.2–19.4) | 76.8 (54.8–104.8) |
| Shimane | 1437.3 (1262.4–1577.1) | 11.4 (9.0–13.3) | 381.3 (331.6–431.6) | 619.1 (534.0–686.8) | 291.4 (241.5–332.9) | 203.6 (174.2–229.4) | 124.0 (106.8–141.0) | 36.3 (29.0–42.4) | 56.8 (44.2–67.2) | 42.7 (32.1–51.1) | 13.9 (10.8–18.0) | 0.2 (0.1–0.5) | 54.6 (47.2–64.5) | 6.3 (5.2–7.5) | 8.0 (5.8–10.5) | 40.4 (34.4–48.7) | 13.0 (11.0–15.5) | 64.5 (51.3–83.2) | 108.4 (91.2–125.9) | 9.8 (7.3–13.5) | 15.9 (12.9–18.8) | 66.1 (49.2–87.5) |
| Shizuoka | 1823.7 (1614.8–1996.0) | 13.7 (10.9–15.7) | 533.4 (469.1–594.2) | 821.0 (719.9–902.8) | 330.1 (275.7–371.5) | 325.5 (285.6–362.0) | 165.4 (145.4–185.2) | 42.9 (35.0–49.7) | 56.1 (44.6–66.4) | 42.3 (33.1–49.9) | 13.5 (10.8–17.5) | 0.2 (0.1–0.6) | 62.2 (54.5–71.0) | 7.1 (5.9–8.9) | 8.0 (6.1–10.4) | 47.1 (40.7–54.3) | 11.9 (9.5–14.7) | 63.0 (48.7–81.8) | 108.9 (94.5–119.5) | 9.9 (7.2–13.9) | 17.1 (13.9–20.3) | 83.7 (60.7–110.7) |
| Tochigi | 2071.0 (1859.5–2263.1) | 13.9 (11.4–16.3) | 787.6 (702.3–869.6) | 833.4 (741.9–916.9) | 340.7 (283.5–381.3) | 313.3 (279.0–351.8) | 179.4 (156.8–202.0) | 40.8 (33.4–47.8) | 58.2 (46.2–69.2) | 41.6 (32.1–49.2) | 16.4 (12.8–21.5) | 0.2 (0.1–0.6) | 54.9 (46.9–63.1) | 6.4 (5.0–7.8) | 6.9 (5.1–9.2) | 41.6 (35.4–48.1) | 12.6 (10.2–15.2) | 62.7 (49.7–78.3) | 105.6 (90.4–119.1) | 8.3 (5.8–12.0) | 18.9 (15.5–22.2) | 74.3 (54.8–98.2) |
| Tokushima | 1665.6 (1465.5–1838.4) | 14.6 (11.7–17.2) | 528.8 (462.2–594.4) | 670.1 (580.9–745.9) | 308.5 (256.8–350.8) | 232.9 (201.0–258.8) | 128.7 (112.8–146.7) | 44.4 (35.4–52.3) | 56.2 (44.1–66.1) | 42.4 (32.8–50.2) | 13.5 (10.2–17.4) | 0.3 (0.1–0.6) | 63.7 (54.4–74.6) | 6.8 (5.5–8.4) | 9.8 (7.3–13.0) | 47.0 (39.9–55.8) | 13.2 (11.0–15.4) | 69.6 (54.1–86.0) | 91.6 (76.6–105.8) | 8.7 (6.2–12.6) | 16.7 (13.5–19.6) | 88.2 (66.2–116.0) |
| Tōkyō | 1777.8 (1582.3–1937.4) | 11.8 (9.6–13.5) | 689.1 (612.6–749.1) | 647.5 (568.5–718.2) | 277.8 (233.6–318.0) | 242.2 (218.6–267.9) | 127.5 (112.7–143.2) | 37.8 (31.1–44.0) | 48.2 (38.0–57.6) | 34.6 (26.5–40.8) | 13.4 (10.4–17.5) | 0.2 (0.1–0.5) | 51.8 (44.9–59.4) | 5.8 (4.5–7.0) | 5.3 (3.9–6.9) | 40.8 (35.4–46.7) | 10.4 (8.3–12.7) | 60.0 (47.7–75.1) | 119.5 (107.0–128.9) | 8.7 (6.2–12.5) | 14.7 (12.2–17.1) | 78.1 (58.3–106.2) |
| Tottori | 1578.1 (1389.3–1758.0) | 14.6 (11.8–17.2) | 474.3 (414.8–534.3) | 644.0 (567.2–719.6) | 300.4 (251.3–346.3) | 208.0 (182.5–235.1) | 135.6 (119.3–153.3) | 38.3 (31.0–45.3) | 58.2 (45.3–69.7) | 45.0 (34.8–53.9) | 12.9 (10.2–16.6) | 0.2 (0.1–0.6) | 55.3 (47.6–64.6) | 7.2 (5.9–8.6) | 7.6 (5.4–10.4) | 40.5 (34.4–48.3) | 13.4 (11.0–15.9) | 71.3 (57.7–89.1) | 114.5 (96.7–135.1) | 11.9 (9.0–15.6) | 17.2 (14.2–20.6) | 65.1 (49.2–85.2) |
| Toyama | 1567.5 (1379.1–1740.7) | 12.1 (9.5–14.1) | 467.9 (408.8–533.3) | 672.3 (589.4–747.2) | 307.5 (262.5–350.3) | 215.6 (184.7–243.6) | 149.2 (129.5–166.7) | 37.3 (29.9–44.4) | 46.1 (36.4–54.3) | 34.7 (26.6–41.2) | 11.2 (9.0–14.0) | 0.2 (0.1–0.5) | 56.7 (47.6–66.6) | 6.9 (5.4–8.4) | 7.8 (5.7–10.2) | 42.0 (35.4–49.8) | 11.3 (9.1–13.6) | 62.8 (49.9–80.6) | 104.2 (89.4–119.8) | 8.9 (6.2–12.6) | 12.4 (10.0–15.0) | 75.8 (56.7–101.4) |
| Wakayama | 1812.5 (1610.3–2008.9) | 13.3 (10.8–15.6) | 749.9 (670.6–833.2) | 615.0 (536.5–686.4) | 300.9 (253.7–343.7) | 197.2 (171.7–217.7) | 116.9 (103.0–132.7) | 45.2 (37.3–52.8) | 56.7 (44.7–66.5) | 43.1 (33.5–51.3) | 13.4 (10.8–16.9) | 0.2 (0.1–0.6) | 66.1 (57.0–75.6) | 7.1 (5.9–8.5) | 9.3 (6.8–12.2) | 49.7 (42.5–56.9) | 14.6 (11.9–17.6) | 62.1 (50.1–80.1) | 92.7 (79.9–107.0) | 10.8 (8.2–14.5) | 16.7 (13.8–19.9) | 69.3 (50.9–93.1) |
| Yamagata | 1893.1 (1641.1–2086.2) | 15.8 (12.5–18.3) | 671.5 (577.2–746.2) | 755.6 (657.7–842.9) | 351.7 (297.8–402.4) | 241.6 (206.4–274.7) | 162.3 (142.3–182.8) | 36.8 (29.4–43.0) | 55.4 (43.9–66.2) | 39.9 (31.2–46.9) | 15.3 (11.7–19.8) | 0.2 (0.1–0.6) | 65.2 (56.4–76.7) | 6.4 (5.2–7.8) | 10.0 (7.5–13.2) | 48.8 (41.9–58.5) | 13.1 (11.0–15.8) | 64.5 (51.4–83.2) | 110.9 (93.9–127.4) | 8.5 (6.1–12.3) | 16.3 (13.2–19.5) | 79.6 (58.5–104.6) |
| Yamaguchi | 1863.2 (1655.4–2036.5) | 18.6 (15.0–21.7) | 645.2 (573.3–719.6) | 681.0 (593.9–757.0) | 324.2 (274.9–367.9) | 225.2 (192.2–248.9) | 77.0 (120.6–158.8) | 69.0 (63.3–89.2) | 52.9 (54.7–81.7) | 52.9 (54.7–81.7) | 15.7 (12.4–20.0) | 0.3 (0.1–0.7) | 75.1 (64.8–87.2) | 8.8 (7.4–11.5) | 8.8 (6.4–11.6) | 57.0 (48.4–67.4) | 17.4 (11.0–17.0) | 66.6 (53.4–84.5) | 102.0 (86.4–116.1) | 10.5 (7.8–14.3) | 21.3 (17.5–25.4) | 85.1 (62.9–109.4) |
| Yamanashi | 1598.2 (1391.7–1761.9) | 13.6 (10.8–16.2) | 485.0 (421.5–538.6) | 652.6 (563.9–727.0) | 290.4 (242.5–333.7) | 220.8 (192.6–246.1) | 141.4 (123.4–160.7) | 40.1 (31.9–47.7) | 55.0 (43.1–65.7) | 41.6 (32.0–49.5) | 13.2 (10.3–16.9) | 0.2 (0.1–0.6) | 61.3 (51.9–72.7) | 7.6 (6.1–9.0) | 8.6 (6.4–11.7) | 45.0 (38.5–54.3) | 13.1 (10.9–15.6) | 65.9 (51.7–86.5) | 111.5 (92.9–128.1) | 9.0 (6.4–12.7) | 19.7 (16.1–23.3) | 71.4 (54.2–94.5) |
| Singapore | 2020.1 (1758.3–2213.1) | 11.6 (9.5–13.5) | 1215.6 (1069.0–1334.8) | 431.2 (358.3–502.8) | 224.8 (179.8–264.7) | 151.9 (116.9–186.2) | 54.5 (42.1–65.6) | 127.0 (106.7–140.7) | 19.2 (15.4–23.3) | 11.6 (9.4–13.8) | 7.2 (5.2–9.4) | 0.3 (0.1–1.1) | 54.9 (46.1–63.6) | 22.4 (17.5–27.0) | 1.1 (0.8–1.5) | 31.3 (25.8–37.3) | 2.9 (1.9–3.7) | 53.2 (40.1–69.9) | 44.7 (37.9–52.0) | 7.9 (5.7–11.1) | 14.3 (11.5–17.0) | 37.6 (27.4–52.5) |
| Republic of Korea | 1540.2 (1324.5–1718.4) | 8.4 (6.3–11.0) | 503.8 (426.3–573.5) | 680.3 (586.9–765.1) | 362.1 (308.4–413.3) | 211.7 (179.3–242.8) | 106.4 (90.7–121.8) | 78.3 (56.6–122.6) | 26.0 (18.1–33.4) | 18.7 (11.5–24.4) | 6.9 (4.8–9.8) | 0.4 (0.2–0.7) | 39.4 (30.5–47.6) | 4.4 (2.5–6.4) | 1.1 (0.4–2.6) | 33.9 (26.5–41.1) | 2.9 (2.0–5.3) | 91.8 (72.3–116.3) | 31.5 (25.3–37.1) | 7.6 (5.4–11.1) | 14.2 (11.7–18.2) | 56.0 (40.5–75.6) |
| High-income North America | 3220.1 (2962.8–3435.0) | 24.8 (21.6–28.3) | 1523.8 (1404.3–1608.9) | 703.2 (627.9–768.7) | 396.6 (344.5–447.8) | 211.2 (191.1–233.5) | 95.4 (86.2–106.5) | 281.8 (258.6–303.7) | 70.8 (61.4–80.6) | 53.3 (45.9–60.0) | 17.3 (14.1–21.8) | 0.3 (0.1–0.5) | 142.2 (126.7–158.3) | 5.1 (3.9–6.1) | 31.3 (26.8–36.6) | 105.9 (93.3–119.1) | 7.3 (5.8–9.0) | 159.9 (133.2–192.8) | 45.1 (41.5–49.5) | 34.8 (30.0–41.2) | 38.2 (34.2–43.0) | 188.1 (152.9–233.1) |
| Canada | 2244.7 (2059.4–2434.3) | 26.5 (23.4–30.0) | 1071.2 (985.7–1140.8) | 507.2 (454.6–556.4) | 279.7 (239.3–314.6) | 147.0 (135.1–162.7) | 80.5 (72.0–88.9) | 73.9 (67.9–79.6) | 63.5 (55.5–72.1) | 50.7 (43.7–57.2) | 12.6 (10.4–16.0) | 0.1 (0.1–0.2) | 81.0 (72.1–91.1) | 4.3 (3.4–5.3) | 19.0 (15.9–22.7) | 57.7 (50.9–64.6) | 4.3 (3.6–5.2) | 117.6 (94.2–147.3) | 44.1 (40.3–48.2) | 28.7 (24.0–35.1) | 27.3 (24.7–30.2) | 199.3 (149.4–258.3) |
| Greenland | 4538.8 (3814.4–5231.1) | 33.3 (22.1–47.8) | 1921.8 (1555.8–2341.8) | 1619.4 (1308.4–1969.2) | 811.6 (663.5–993.9) | 570.5 (418.8–727.4) | 237.2 (170.6–323.3) | 159.4 (104.8–224.4) | 100.3 (69.4–140.6) | 73.0 (47.6–103.7) | 27.0 (15.9–43.8) | 0.3 (0.1–0.9) | 245.1 (155.6–343.5) | 6.0 (2.1–11.5) | 20.0 (5.3–46.8) | 219.1 (136.1–302.1) | 9.9 (5.7–15.7) | 238.4 (188.5–295.4) | 47.0 (32.7–62.1) | 56.1 (40.4–78.7) | 22.8 (11.6–33.7) | 85.3 (60.9–113.5) |
| United States of America | 3340.6 (3068.9–3560.0) | 24.5 (21.2–27.9) | 1579.9 (1453.6–1669.7) | 727.4 (648.9–797.9) | 411.3 (356.5–464.6) | 219.0 (196.6–243.4) | 97.1 (86.8–109.5) | 307.7 (282.1–331.8) | 71.7 (61.6–82.2) | 53.5 (45.7–60.8) | 17.9 (14.5–22.5) | 0.3 (0.1–0.5) | 149.4 (132.8–167.5) | 5.1 (3.9–6.4) | 32.7 (27.4–38.4) | 111.6 (98.0–126.4) | 7.7 (6.0–9.5) | 165.3 (138.3–198.5) | 45.2 (41.2–50.2) | 35.6 (30.6–42.0) | 39.5 (35.0–44.7) | 186.7 (153.0–228.8) |
| Alabama | 4670.2 (4349.5–4940.3) | 27.2 (23.5–30.9) | 2145.8 (1974.6–2274.3) | 1168.2 (1049.1–1284.2) | 648.7 (567.1–736.0) | 354.2 (315.7–402.0) | 165.3 (146.2–188.8) | 502.2 (456.1–554.7) | 80.4 (70.5–91.2) | 58.3 (51.4–66.4) | 21.7 (18.1–26.1) | 0.3 (0.1–0.5) | 189.2 (164.5–216.5) | 5.7 (4.2–7.1) | 46.7 (38.2–56.7) | 136.9 (117.5–159.5) | 15.2 (11.9–18.7) | 168.1 (142.4–202.5) | 53.6 (47.2–60.1) | 42.7 (37.0–48.4) | 52.9 (46.1–61.2) | 224.8 (184.8–270.7) |
| Alaska | 3284.8 (3005.0–3548.8) | 43.1 (36.7–50.6) | 1456.5 (1327.2–1574.6) | 715.0 (632.6–780.0) | 371.5 (319.1–418.9) | 224.9 (196.2–252.2) | 118.5 (102.2–134.1) | 270.5 (236.5–312.6) | 102.4 (88.0–115.8) | 79.5 (66.4–91.7) | 22.2 (18.4–26.7) | 0.7 (0.1–1.5) | 190.0 (162.1–219.0) | 10.0 (7.8–12.5) | 71.1 (57.0–86.2) | 108.8 (90.4–131.3) | 8.4 (6.5–10.4) | 169.0 (142.8–201.2) | 50.8 (43.3–58.5) | 32.8 (27.8–38.5) | 57.7 (49.5–68.0) | 188.6 (152.0–226.9) |
| Arizona | 3041.2 (2773.1–3250.4) | 23.2 (20.0–26.8) | 1409.4 (1282.7–1501.0) | 632.9 (563.1–692.7) | 362.6 (310.5–411.5) | 186.5 (166.6–208.7) | 83.9 (74.4–94.7) | 317.1 (289.2–345.3) | 64.1 (54.9–74.1) | 46.2 (38.8–52.5) | 17.7 (14.2–22.8) | 0.2 (0.1–0.5) | 129.4 (113.4–147.6) | 5.6 (4.3–6.9) | 25.6 (20.0–32.2) | 98.2 (84.6–113.4) | 7.8 (6.1–9.6) | 168.2 (139.7–201.7) | 44.0 (39.1–49.1) | 31.1 (26.3–36.6) | 42.1 (36.7–48.0) | 172.0 (138.6–205.8) |
| Arkansas | 4759.4 (4414.4–5023.2) | 26.2 (22.9–29.9) | 2480.0 (2327.7–2615.1) | 985.1 (891.1–1072.9) | 525.4 (458.0–594.6) | 311.4 (278.2–348.5) | 148.3 (131.6–167.3) | 490.2 (447.9–537.6) | 71.4 (62.7–81.1) | 53.2 (46.6–59.7) | 17.8 (14.8–21.7) | 0.4 (0.1–0.6) | 148.3 (128.4–169.1) | 4.9 (3.7–6.1) | 33.2 (26.1–41.2) | 110.2 (94.9–126.8) | 10.8 (8.5–13.5) | 165.2 (139.3–197.1) | 57.8 (50.7–64.9) | 44.7 (38.9–50.9) | 50.8 (44.4–58.6) | 229.0 (190.1–270.9) |
| California | 2833.6 (2582.6–3048.7) | 21.6 (18.5–24.5) | 1310.0 (1200.1–1396.3) | 659.6 (590.8–719.5) | 371.5 (320.4–415.3) | 206.0 (186.0–226.9) | 82.1 (73.1–91.4) | 242.8 (219.1–264.4) | 59.9 (51.4–68.5) | 44.1 (37.7–50.2) | 15.6 (12.6–19.5) | 0.3 (0.1–0.6) | 143.1 (128.0–161.4) | 5.1 (3.8–6.2) | 36.0 (30.1–43.0) | 102.1 (90.1–116.9) | 5.9 (

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3342.5 | 26.4 | 1757.7 | 655.1 | 355.6 | 209.7 | 89.8 | 234.0 | 80.9 | 61.6 | 18.9 | 0.4 | 126.9 | 7.4 | 28.6 | 90.9 | 6.6 | 160.6 | 48.2 | 33.6 | 29.0 | 183.6 |
| Iowa | (3076.0–3557.3) | (22.8–30.0) | (1611.7–1860.7) | (586.8–718.9) | (309.9–402.5) | (186.9–232.8) | (79.2–101.6) | (209.2–263.2) | (69.7–91.5) | (52.0–69.4) | (15.9–22.2) | (0.1–0.7) | (110.1–144.9) | (5.8–9.2) | (22.7–35.4) | (78.6–105.3) | (5.2–8.2) | (134.2–190.6) | (42.9–54.1) | (28.7–39.3) | (25.0–33.5) | (147.1–221.3) |
| | 3438.6 | 24.8 | 1689.8 | 727.4 | 397.7 | 226.7 | 103.0 | 257.7 | 80.4 | 61.4 | 18.8 | 0.3 | 138.4 | 5.4 | 30.1 | 103.0 | 8.6 | 168.0 | 52.5 | 38.2 | 45.9 | 206.8 |
| Kansas | (3166.4–3682.6) | (21.6–28.3) | (1532.8–1795.7) | (650.6–791.4) | (347.7–446.2) | (200.1–252.0) | (90.4–116.0) | (228.7–293.2) | (70.3–91.0) | (52.7–69.3) | (15.7–22.5) | (0.1–0.5) | (120.9–157.4) | (4.0–6.7) | (23.9–37.1) | (88.6–118.7) | (6.7–10.6) | (140.2–203.8) | (46.2–58.2) | (32.8–43.8) | (40.0–53.0) | (164.0–251.7) |
| | 4389.6 | 31.4 | 2214.0 | 928.8 | 505.8 | 290.0 | 133.1 | 385.8 | 80.0 | 58.8 | 21.0 | 0.2 | 150.1 | 4.5 | 33.7 | 111.9 | 10.3 | 193.3 | 55.6 | 49.8 | 54.4 | 236.2 |
| Kentucky | (4080.9–4657.5) | (26.9–36.1) | (2044.4–2333.1) | (824.2–1018.6) | (439.9–577.7) | (259.1–323.3) | (118.0–151.4) | (353.2–426.5) | (69.6–91.4) | (51.0–65.9) | (17.1–25.5) | (0.1–0.4) | (130.9–171.3) | (3.4–5.6) | (27.2–41.5) | (96.1–128.0) | (8.1–12.7) | (163.9–228.9) | (49.5–62.5) | (43.3–56.2) | (47.0–62.7) | (195.0–284.3) |
| | 4536.1 | 26.1 | 2184.3 | 980.3 | 522.7 | 315.7 | 141.8 | 547.4 | 80.9 | 59.8 | 20.7 | 0.3 | 190.9 | 5.7 | 40.5 | 144.8 | 10.7 | 174.2 | 48.5 | 42.0 | 52.5 | 198.3 |
| Louisiana | (4206.8–4821.8) | (22.3–30.0) | (2024.6–2311.3) | (875.9–1085.0) | (453.0–593.2) | (281.0–355.2) | (123.9–162.4) | (497.1–591.7) | (70.2–93.3) | (51.9–68.2) | (16.2–26.8) | (0.1–0.6) | (167.0–218.0) | (4.3–7.2) | (32.9–48.8) | (125.4–167.4) | (8.4–13.4) | (145.0–207.1) | (43.1–54.9) | (36.2–48.4) | (45.4–60.9) | (164.9–240.0) |
| | 3105.4 | 30.7 | 1463.6 | 604.7 | 350.8 | 174.2 | 79.8 | 277.6 | 104.1 | 82.2 | 21.4 | 0.4 | 125.7 | 5.0 | 27.1 | 93.6 | 7.2 | 172.3 | 54.6 | 38.2 | 44.0 | 182.6 |
| Maine | (2840.0–3339.9) | (26.4–35.7) | (1325.8–1569.1) | (535.5–664.5) | (300.9–396.8) | (153.4–193.8) | (69.3–90.8) | (243.6–320.4) | (89.6–118.0) | (70.1–92.6) | (17.5–26.3) | (0.1–0.8) | (107.8–144.1) | (3.9–6.1) | (20.8–33.9) | (79.3–107.5) | (5.6–8.8) | (143.5–209.3) | (48.6–60.8) | (32.9–44.2) | (38.4–50.8) | (147.2–218.8) |
| | 3260.2 | 21.3 | 1436.0 | 734.6 | 426.6 | 217.9 | 90.1 | 354.5 | 65.4 | 48.0 | 17.1 | 0.3 | 181.3 | 3.5 | 34.5 | 143.4 | 6.8 | 156.3 | 38.3 | 37.3 | 34.0 | 194.4 |
| Maryland | (2976.4–3507.9) | (18.2–24.3) | (1305.0–1533.5) | (641.2–813.4) | (366.9–489.6) | (192.4–246.5) | (78.8–101.6) | (320.9–387.6) | (55.3–75.7) | (40.8–54.2) | (13.6–21.4) | (0.1–0.6) | (158.7–204.5) | (2.6–4.4) | (28.0–41.4) | (124.2–162.4) | (5.3–8.6) | (128.0–189.0) | (33.7–43.0) | (31.2–44.2) | (29.2–39.5) | (158.7–237.7) |
| | 2439.0 | 20.2 | 1130.3 | 526.8 | 295.9 | 161.2 | 69.8 | 145.7 | 76.1 | 58.5 | 17.3 | 0.3 | 106.0 | 4.1 | 19.4 | 82.5 | 5.9 | 169.6 | 32.4 | 30.6 | 30.3 | 165.1 |
| Massachusetts | (2200.7–2643.7) | (17.5–23.4) | (1022.9–1207.9) | (471.3–579.6) | (254.9–335.0) | (142.1–179.3) | (61.0–79.5) | (130.8–162.4) | (63.8–87.3) | (49.1–67.0) | (13.7–21.8) | (0.1–0.6) | (91.3–121.1) | (3.1–5.2) | (15.9–23.9) | (70.1–94.9) | (4.6–7.3) | (141.2–206.0) | (28.8–36.1) | (26.6–35.3) | (26.4–34.9) | (130.0–206.7) |
| | 3741.4 | 23.6 | 1815.7 | 738.7 | 437.5 | 206.6 | 94.6 | 425.0 | 71.2 | 54.6 | 16.3 | 0.3 | 161.5 | 5.5 | 39.0 | 117.0 | 7.7 | 169.3 | 50.3 | 39.3 | 43.2 | 195.8 |
| Michigan | (3434.4–3977.5) | (20.5–27.0) | (1668.4–1919.8) | (661.9–812.9) | (379.6–500.3) | (185.0–231.5) | (84.2–108.2) | (390.0–457.0) | (62.1–81.8) | (47.0–62.0) | (13.2–20.7) | (0.1–0.6) | (143.5–180.4) | (4.1–6.7) | (32.8–46.6) | (102.5–132.7) | (6.1–9.6) | (141.4–204.0) | (45.8–55.9) | (34.1–46.1) | (38.3–48.8) | (159.1–247.5) |
| | 2488.2 | 27.8 | 1045.8 | 610.5 | 340.6 | 185.0 | 85.0 | 142.2 | 84.5 | 65.3 | 18.8 | 0.4 | 117.1 | 4.5 | 22.9 | 89.7 | 6.7 | 156.7 | 48.9 | 29.7 | 33.8 | 184.4 |
| Minnesota | (2258.6–2685.9) | (23.9–31.6) | (935.8–1117.1) | (540.9–664.7) | (292.8–384.8) | (164.5–205.8) | (75.0–95.2) | (125.4–163.5) | (72.0–95.7) | (54.7–74.7) | (15.7–22.6) | (0.1–0.8) | (101.5–133.7) | (3.4–5.6) | (18.5–27.7) | (77.3–103.3) | (5.2–8.2) | (129.5–188.2) | (43.4–54.3) | (25.4–34.0) | (29.5–38.8) | (145.4–225.6) |
| | 5193.5 | 25.3 | 2519.1 | 1128.3 | 581.2 | 388.6 | 158.4 | 710.1 | 75.7 | 56.3 | 19.0 | 0.4 | 205.2 | 6.0 | 47.4 | 151.8 | 13.0 | 158.1 | 50.8 | 38.0 | 48.3 | 221.2 |
| Mississippi | (4862.6–5466.5) | (21.9–29.1) | (2346.8–2643.9) | (1015.1–1234.2) | (504.6–655.1) | (340.8–439.6) | (140.8–179.8) | (652.6–771.5) | (66.1–85.4) | (49.3–63.7) | (15.8–22.8) | (0.1–0.6) | (178.2–233.7) | (4.5–7.5) | (37.7–59.3) | (130.9–173.0) | (10.1–16.1) | (132.5–186.6) | (44.9–56.5) | (32.7–43.9) | (42.2–55.6) | (186.8–257.6) |
| | 3938.1 | 27.9 | 2020.9 | 794.5 | 435.9 | 248.1 | 110.4 | 312.8 | 82.1 | 60.8 | 21.0 | 0.3 | 164.6 | 5.5 | 35.2 | 124.0 | 9.4 | 175.9 | 53.3 | 43.7 | 41.9 | 211.1 |
| Missouri | (3636.0–4197.6) | (23.9–31.9) | (1874.0–2137.9) | (709.8–878.9) | (377.4–499.4) | (220.5–279.1) | (98.5–125.5) | (284.1–339.6) | (70.6–93.7) | (52.5–69.3) | (17.0–26.1) | (0.1–0.5) | (144.3–185.2) | (4.1–6.9) | (28.8–42.7) | (107.3–142.3) | (7.4–11.6) | (147.8–211.8) | (47.8–59.5) | (38.0–50.0) | (36.6–47.8) | (172.4–255.6) |
| | 3147.2 | 43.9 | 1594.1 | 596.9 | 333.2 | 176.3 | 87.4 | 196.2 | 83.4 | 62.7 | 20.4 | 0.3 | 121.1 | 3.5 | 23.4 | 94.2 | 8.6 | 164.2 | 46.2 | 33.6 | 55.0 | 204.1 |
| Montana | (2904.3–3382.9) | (37.7–51.4) | (1467.2–1703.3) | (526.6–655.4) | (285.6–378.4) | (155.1–195.4) | (76.0–98.3) | (172.3–226.0) | (71.4–95.0) | (53.3–71.7) | (17.1–24.1) | (0.1–0.6) | (103.0–139.1) | (2.7–4.3) | (17.7–29.0) | (80.4–109.7) | (6.7–10.7) | (137.8–194.3) | (40.0–52.3) | (28.9–38.9) | (47.7–64.0) | (162.2–252.0) |
| | 3042.2 | 28.4 | 1352.3 | 690.3 | 373.3 | 220.6 | 96.4 | 205.9 | 82.1 | 64.1 | 17.8 | 0.2 | 133.7 | 4.9 | 25.7 | 103.0 | 8.3 | 177.4 | 47.9 | 31.7 | 55.0 | 229.1 |
| Nebraska | (2778.3–3281.2) | (24.4–32.7) | (1218.2–1445.1) | (612.2–748.5) | (322.6–417.5) | (195.0–243.8) | (84.9–109.4) | (178.9–238.1) | (70.5–93.3) | (54.7–73.3) | (14.8–20.8) | (0.1–0.5) | (114.0–151.7) | (3.8–6.1) | (19.9–31.5) | (87.8–119.0) | (6.5–10.3) | (148.1–213.6) | (42.2–53.8) | (26.7–36.7) | (47.9–62.9) | (181.4–282.2) |
| | 3626.7 | 27.0 | 1692.3 | 721.7 | 395.6 | 225.8 | 100.4 | 530.7 | 67.7 | 49.4 | 18.0 | 0.3 | 156.6 | 4.2 | 42.5 | 109.9 | 7.0 | 143.5 | 42.3 | 34.7 | 39.8 | 163.3 |
| Nevada | (3345.2–3861.8) | (23.1–31.5) | (1543.1–1809.5) | (642.8–788.2) | (340.7–445.7) | (199.5–250.4) | (87.6–114.6) | (484.6–574.5) | (57.9–80.0) | (42.2–57.3) | (14.1–24.0) | (0.1–0.5) | (133.8–179.3) | (3.3–5.2) | (34.0–52.1) | (93.3–127.1) | (5.6–8.7) | (119.0–172.7) | (37.0–48.2) | (29.7–41.0) | (34.7–45.7) | (131.9–198.1) |
| | 2801.1 | 29.8 | 1339.7 | 576.0 | 329.3 | 174.4 | 72.3 | 196.8 | 89.4 | 70.4 | 18.7 | 0.2 | 103.5 | 4.1 | 24.4 | 75.1 | 6.5 | 178.1 | 41.0 | 33.2 | 36.4 | 170.7 |
| New Hampshire | (2530.0–3046.3) | (25.8–34.4) | (1208.0–1441.9) | (510.4–630.7) | (287.7–372.1) | (154.1–194.9) | (63.1–82.1) | (171.7–227.0) | (76.0–102.1) | (59.7–80.0) | (15.2–23.2) | (0.1–0.5) | (88.6–119.3) | (3.2–4.9) | (18.9–30.7) | (63.8–86.8) | (5.1–8.0) | (147.4–215.9) | (35.8–45.7) | (28.3–38.7) | (31.5–42.3) | (136.5–209.6) |
| | 2743.2 | 21.6 | 1302.5 | 591.4 | 314.6 | 190.7 | 86.2 | 193.6 | 69.0 | 51.1 | 17.6 | 0.2 | 132.9 | 3.9 | 28.9 | 100.1 | 5.6 | 160.8 | 35.1 | 33.1 | 36.8 | 160.8 |
| New Jersey | (2479.7–2950.9) | (18.6–24.8) | (1178.3–1389.1) | (522.8–654.5) | (269.9–361.9) | (171.4–213.4) | (76.7–98.1) | (174.3–211.6) | (58.3–80.4) | (43.0–58.4) | (13.7–22.7) | (0.1–0.6) | (116.9–150.8) | (2.9–4.8) | (23.9–34.5) | (86.6–114.2) | (4.4–7.0) | (131.7–195.3) | (31.4–39.2) | (27.3–41.3) | (32.5–42.3) | (126.8–205.6) |
| | 3233.8 | 38.2 | 1661.7 | 652.9 | 363.6 | 194.1 | 95.2 | 239.7 | 57.9 | 42.1 | 15.5 | 0.3 | 117.9 | 5.4 | 30.0 | 82.5 | 8.8 | 129.4 | 46.3 | 31.1 | 50.0 | 200.1 |
| New Mexico | (2960.2–3438.3) | (32.8–44.3) | (1520.1–1766.3) | (583.0–712.0) | (317.3–411.0) | (171.0–216.0) | (83.8–108.3) | (211.3–274.0) | (49.7–66.9) | (35.9–48.7) | (12.8–18.6) | (0.1–0.5) | (100.7–135.5) | (4.1–6.7) | (23.8–37.0) | (70.2–96.4) | (6.9–10.9) | (109.5–152.7) | (40.2–52.0) | (26.6–36.7) | (43.4–57.6) | (163.8–235.4) |
| | 3016.3 | 20.4 | 1608.6 | 508.0 | 277.2 | 156.5 | 74.3 | 276.5 | 55.5 | 39.7 | 15.1 | 0.3 | 103.2 | 6.0 | 18.3 | 79.0 | 5.7 | 160.0 | 34.5 | 28.0 | 38.3 | 177.3 |
| New York | (2746.4–3252.9) | (17.3–23.5) | (1445.5–1749.9) | (444.4–565.7) | (231.4–321.6) | (138.5–175.9) | (65.0–87.5) | (246.2–303.1) | (46.5–66.3) | (33.1–46.5) | (11.7–20.8) | (0.1–0.6) | (91.4–117.0) | (4.6–7.2) | (13.1–24.9) | (69.5–90.8) | (4.6–7.2) | (131.1–191.9) | (31.0–38.8) | (22.7–36.1) | (33.5–43.2) | (143.2–220.8) |
| | 3576.3 | 24.1 | 1673.8 | 866.4 | 500.3 | 254.3 | 111.8 | 243.3 | 78.0 | 59.0 | 18.6 | 0.3 | 178.3 | 6.7 | 38.0 | 133.6 | 9.0 | 162.1 | 45.3 | 42.9 | 43.4 | 209.6 |
| North Carolina | (3285.6–3822.5) | (21.0–27.2) | (1538.4–1782.4) | (765.5–966.8) | (433.5–569.1) | (223.5–288.1) | (97.9–126.8) | (215.3–267.2) | (67.0–89.8) | (50.0–67.3) | (15.2–22.5) | (0.1–0.6) | (157.5–201.0) | (5.1–8.3) | (31.6–45.1) | (116.0–152.2) | (7.1–11.3) | (135.6–194.1) | (40.5–50.8) | (37.6–49.1) | (37.3–49.8) | (173.9–252.7) |
| | 3068.6 | 33.6 | 1504.1 | 661.6 | 335.9 | 220.5 | 105.2 | 212.4 | 67.7 | 52.1 | 15.2 | 0.5 | 113.6 | 5.8 | 28.0 | 79.8 | 6.2 | 151.0 | 48.3 | 30.0 | 44.3 | 195.8 |
| North Dakota | (2810.8–3307.1) | (28.8–39.3) | (1380.9–1613.1) | (584.4–720.0) | (292.6–380.4) | (193.9–242.3) | (91.9–118.8) | (184.5–245.0) | (58.1–78.4) | (44.5–60.4) | (12.5–18.2) | (0.1–0.9) | (97.3–129.3) | (4.6–6.9) | (22.0–35.3) | (68.5–92.1) | (4.9–7.8) | (126.0–178.7) | (41.5–54.8) | (25.6–35.2) | (38.1–51.6) | (153.4–236.3) |
| | 3766.6 | 26.9 | 1814.8 | 818.6 | 477.0 | 235.7 | 106.0 | 310.9 | 79.6 | 60.6 | 18.6 | 0.3 | 177.1 | 6.0 | 37.7 | 133.4 | 8.7 | 176.5 | 51.6 | 45.0 | 47.8 | 209.2 |
| Ohio | (3477.6–4024.3) | (23.2–30.8) | (1668.0–1923.2) | (727.0–905.0) | (414.3–537.7) | (209.0–264.4) | (94.2–120.4) | (280.7–337.6) | (68.4–91.1) | (51.9–68.8) | (15.3–24.1) | (0.1–0.6) | (158.1–197.7) | (4.5–7.5) | (31.4–44.4) | (117.0–150.6) | (6.9–10.8) | (146.7–212.6) | (46.7–57.4) | (39.0–53.2) | (42.0–53.9) | (169.1–257.8) |
| | 4637.9 | 26.0 | 1910.3 | 866.3 | 466.4 | 266.7 | 133.2 | 1126.9 | 67.2 | 46.1 | 20.7 | 0.3 | 140.8 | 5.3 | 26.9 | 108.6 | 9.7 | 172.1 | 56.9 | 35.0 | 49.2 | 177.5 |
| Oklahoma | (4297.8–4892.7) | (22.5–30.0) | (1763.3–2016.0) | (781.8–948.3) | (411.2–530.2) | (241.2–296.8) | (118.9–151.3) | (1052.0–1197.1) | (58.6–77.5) | (39.6–52.5) | (16.8–25.8) | (0.1–0.6) | (123.1–159.4) | (4.0–6.6) | (21.1–33.8) | (94.4–123.8) | (7.5–12.0) | (146.6–204.3) | (50.6–63.5) | (30.0–41.2) | (42.9–56.8) | (147.8–208.6) |
| | 2909.9 | 33.0 | 1155.7 | 766.5 | 440.7 | 228.5 | 97.3 | 192.3 | 119.6 | 96.9 | 22.3 | 0.4 | 130.0 | 4.8 | 32.8 | 92.4 | 7.3 | 183.4 | 49.4 | 32.1 | 44.5 | 196.0 |
| Oregon | (2648.0–3123.1) | (28.6–37.5) | (1044.0–1232.6) | (684.9–835.7) | (385.2–495.4) | (202.4–255.3) | (86.3–110.5) | (171.0–218.2) | (103.3–134.5) | (81.8–109.5) | (18.9–26.5) | (0.1–0.7) | (112.9–148.4) | (3.7–6.0) | (26.4–40.7) | (78.3–105.8) | (5.7–9.0) | (153.4–217.7) | (44.1–54.8) | (27.5–36.7) | (38.5–51.4) | (160.2–238.7) |
| | 3243.9 | 26.5 | 1559.4 | 681.9 | 394.8 | 199.4 | 87.6 | 209.4 | 89.9 | 69.2 | 20.4 | 0.2 | 163.5 | 3.5 | 31.9 | 128.1 | 7.7 | 195.9 | 46.9 | 40.7 | 44.0 | 178.3 |
| Pennsylvania | (2954.0–3477.5) | (22.6–30.3) | (1423.0–1661.5) | (595.3–757.2) | (338.8–454.3) | (175.5–225.3) | (77.3–98.7) | (185.5–231.2) | (75.9–103.9) | (58.4–79.1) | (16.4–26.3) | (0.1–0.6) | (144.7–181.9) | (2.7–4.3) | (26.3–37.8) | (112.0–143.2) | (6.1–9.5) | (161.9–238.5) | (41.9–52.5) | (34.0–49.4) | (38.1–49.5) | (146.7–221.6) |
| | 2787.4 | 23.0 | 1470.8 | 538.2 | 307.3 | 158.9 | 72.0 | 176.2 | 68.0 | 51.2 | 16.6 | 0.3 | 90.8 | 6.4 | 16.7 | 67.6 | 6.2 | 163.4 | 36.9 | 32.9 | 25.4 | 155.5 |
| Rhode Island | (2504.4–2992.0) | (19.6–26.5) | (1328.1–1579.3) | (465.9–598.8) | (237.1–378.7) | (62.2–82.6) | (153.7–204.7) | (56.6–78.9) | (61.0–350.8) | (43.0–62.6) | (12.6–21.4) | (0.1–0.6) | (77.7–103.9) | (5.3–7.7) | (12.6–21.5) | (57.9–78.0) | (4.9–7.7) | (134.9–198.9) | (32.0–41.7) | (27.0–40.2) | (21.6–29.6) | (122.4–194.4) |
| | 3853.1 | 23.9 | 1723.1 | 918.0 | 515.2 | 273.9 | 128.9 | 366.6 | 81.7 | 59.9 | 21.4 | 0.4 | 183.9 | 6.6 | 41.6 | 135.6 | 9.5 | 170.3 | 54.7 | 45.5 | 45.0 | 230.9 |
| South Carolina | (3541.1–4134.6) | (20.6–27.4) | (1585.0–1871.3) | (814.4–1039.9) | (441.0–599.0) | (113.1–437.2) | (332.9–404.3) | (307.0–432.6) | (70.3–92.6) | (51.5–68.3) | (17.4–26.1) | (0.1–0.7) | (159.9–211.0) | (5.0–8.3) | (34.4–50.9) | (116.9–156.4) | (7.4–11.9) | (142.5–204.4) | (48.4–61.2) | (38.8–52.1) | (39.4–52.2) | (188.7–278.1) |
| | 3128.1 | 27.4 | 1611.7 | 611.2 | 318.7 | 197.3 | 95.3 | 201.9 | 69.5 | 50.8 | 18.5 | 0.3 | 120.7 | 6.9 | 24.9 | 89.0 | 6.2 | 155.6 | 50.7 | 33.7 | 40.6 | 198.7 |
| South Dakota | (2857.2–3358.4) | (23.5–32.0) | (1464.0–1739.4) | (540.3–667.0) | (274.2–360.9) | (175.2–217.2) | (82.9–108.5) | (175.8–233.9) | (59.2–79.8) | (42.8–58.8) | (15.6–22.0) | (0.1–0.5) | (103.1–139.0) | (5.6–8.5) | (19.3–31.3) | (75.6–103.4) | (4.8–7.8) | (129.6–187.5) | (44.5–57.0) | (28.5–39.8) | (35.0–47.7) | (158.2–238.7) |
| | 4445.9 | 30.2 | 2256.1 | 910.6 | 496.8 | 281.3 | 132.5 | 479.0 | 72.2 | 53.6 | 18.3 | 0.3 | 168.1 | 7.2 | 43.0 | 117.9 | 8.8 | 164.4 | 51.6 | 44.0 | 48.0 | 212.7 |
| Tennessee | (4129.6–4726.7) | (26.0–34.5) | (2095.6–2381.4) | (819.9–1001.0) | (431.1–567.3) | (252.6–316.6) | (118.0–151.4) | (436.8–518.5) | (63.0–81.8) | (46.0–59.9) | (14.9–22.3) | (0.1–0.5) | (146.3–192.8) | (5.4–9.0) | (35.0–51.7) | (100.9–135.0) | (6.9–11.0) | (137.3–196.6) | (46.0–58.4) | (38.2–50.0) | (41.6–55.6) | (175.0–257.5) |
| | 3600.9 | 21.5 | 1735.1 | 814.4 | 455.8 | 251.4 | 107.2 | 345.6 | 63.4 | 47.2 | 15.8 | 0.3 | 139.0 | 5.3 | 25.6 | 108.1 | 8.2 | 162.3 | 44.4 | 38.1 | 34.7 | 194.2 |
| Texas | (3306.8–3843.6) | (18.5–24.4) | (1601.1–1835.7) | (733.7–889.4) | (396.0–514.3) | (227.6–278.1) | (96.2–119.6) | (315.6–372.9) | (55.1–72.8) | (40.9–53.2) | (13.0–19.7) | (0.1–0.6) | (124.3–155.4) | (4.0–6.5) | (21.0–30.6) | (95.8–120.9) | (6.5–10.2) | (136.1–193.3) | (41.0–48.8) | (33.0–45.5) | (31.1–38.7) | (159.8–240.5) |
| | 2762.0 | 38.2 | 1196.4 | 617.4 | 364.0 | 174.6 | 78.8 | 219.6 | 76.3 | 59.5 | 16.5 | 0.2 | 123.1 | 3.5 | 23.4 | 96.3 | 8.8 | 153.7 | 39.1 | 27.7 | 47.6 | 214.1 |
| Utah | (2489.8–2962.1) | (33.2–43.7) | (1073.4–1279.7) | (551.3–671.6) | (319.3–402.8) | (154.1–192.6) | (69.1–88.8) | (192.9–250.7) | (65.4–86.3) | (50.1–68.2) | (13.9–19.9) | (0.1–0.5) | (106.4–139.6) | (2.7–4.3) | (18.0–29.6) | (82.8–110.4) | (6.9–10.8) | (130.3–185.5) | (34.1–43.8) | (23.5–32.4) | (41.6–54.9) | (170.8–262.5) |
| | 2938.1 | 30.0 | 1446.6 | 546.1 | 319.6 | 151.5 | 74.9 | 261.1 | 97.8 | 76.1 | 21.3 | 0.5 | 109.3 | 4.9 | 30.5 | 73.9 | 6.9 | 162.4 | 46.3 | 30.3 | 31.1 | 170.2 |
| Vermont | (2659.4–3162.7) | (25.8–35.2) | (1312.9–1551.9) | (482.3–600.5) | (277.2–364.6) | (132.5–171.2) | (65.0–85.5) | (228.7–303.5) | (83.1–113.2) | (63.8–87.9) | (17.9–25.6) | (0.1–0.9) | (92.7–126.8) | (3.9–6.0) | (23.5–38.3) | (62.4–86.4) | (5.4–8.6) | (134.3–195.8) | (40.1–52.8) | (25.6–35.3) | (26.8–36.4) | (135.5–207.7) |
| | 3184.6 | 22.8 | 1515.9 | 731.6 | 423.1 | 214.5 | 94.0 | 204.6 | 72.7 | 54.2 | 18.2 | 0.3 | 165.3 | 4.0 | 34.4 | 126.9 | 8.3 | 158.2 | 39.0 | 36.5 | 36.1 | 193.5 |
| Virginia | (2878.1–3411.0) | (19.3–26.4) | (1363.7–1618.1) | (636.8–812.9) | (364.8–487.3) | (188.1–242.9) | (81.4–106.8) | (181.4–226.5) | (61.3–82.9) | (45.7–61.5) | (14.8–22.0) | (0.1–0.6) | (144.7–187.2) | (3.1–5.0) | (28.0–40.8) | (108.5–144.6) | (6.5–10.3) | (130.7–190.6) | (34.4–43.7) | (31.7–42.4) | (30.6–41.9) | (156.3–238.2) |
| | 2922.1 | 30.4 | 1304.0 | 649.5 | 365.6 | 196.0 | 88.0 | 228.7 | 95.1 | 73.5 | 21.2 | 0.4 | 139.8 | 4.7 | 37.9 | 97.2 | 6.3 | 163.0 | 45.3 | 31.3 | 44.9 | 183.8 |
| Washington | (2671.5–3125.7) | (26.3–34.5) | (1194.3–1390.6) | (578.8–708.0) | (318.2–413.8) | (175.2–220.5) | (77.7–98.8) | (206.7–250.8) | (82.1–106.6) | (61.5–82.4) | (18.2–25.1) | (0.1–0.7) | (121.8–159.0) | (3.6–5.8) | (31.2–45.5) | (83.5–111.2) | (5.0–7.8) | (135.3–195.7) | (39.9–50.7) | (26.9–36.3) | (39.2–51.4) | (148.2–228.7) |
| | 3677.5 | 23.6 | 1617.2 | 729.6 | 414.9 | 218.6 | 96.1 | 665.8 | 56.7 | 40.8 | 15.7 | 0.2 | 194.2 | 5.5 | 35.6 | 140.8 | 11.5 | 115.9 | 34.0 | 39.8 | 35.0 | 196.0 |
| District of Columbia | (3418.2–3933.2) | (20.1–27.5) | (1490.4–1729.2) | (640.6–803.4) | (352.3–477.1) | (196.4–240.4) | (83.6–108.2) | (607.5–739.3) | (48.7–65.6) | (34.3–46.7) | (12.9–18.9) | (0.1–0.4) | (132.2–173.9) | (4.4–6.6) | (28.1–43.4) | (96.3–128.8) | (7.2–11.5) | (95.9–139.7) | (29.8–38.2) | (34.0–46.8) | (30.7–40.7) | (160.7–231.1) |
| | 4335.4 | 32.4 | 2230.2 | 863.2 | 469.9 | 262.9 | 130.5 | 384.9 | 83.1 | 61.7 | 21.1 | 0.3 | 171.0 | 7.5 | 39.8 | 123.7 | 9.9 | 188.4 | 54.1 | 48.5 | 49.5 | 220.0 |
| West Virginia | (4029.7–4629.7) | (28.0–37.8) | (2054.1–2375.1) | (774.9–943.6) | (409.1–532.0) | (234.2–295.4) | (115.8–148.9) | (344.6–439.1) | (72.8–95.0) | (53.9–69.8) | (17.4–25.6) | (0.1–0.5) | (147.1–194.1) | (5.8–9.3) | (30.9–50.0) | (105.2–142.3) | (7.7–12.3) | (159.0–225.1) | (47.7–60.5) | (42.1–55.9) | (43.1–57.4) | (181.1–262.3) |
| | 3012.8 | 25.4 | 1436.0 | 601.1 | 342.8 | 179.8 | 78.6 | 214.8 | 89.2 | 69.3 | 19.6 | 0.3 | 149.1 | 5.0 | 32.5 | 111.5 | 7.1 | 164.5 | 49.5 | 36.4 | 43.7 | 196.0 |
| Wisconsin | (2732.9–3223.7) | (21.7–28.8) | (1315.8–1522.7) | (529.6–659.5) | (297.1–385.4) | (159.7–199.4) | (69.3–89.4) | (194.2–234.8) | (76.1–101.3) | (58.2–78.9) | (16.3–23.9) | (0.1–0.6) | (130.5–168.1) | (3.8–6.3) | (26.6–39.9) | (96.2–127.4) | (5.5–8.8) | (137.0–199.3) | (44.0–55.3) | (31.5–42.1) | (38.2–50.2) | (157.9–243.4) |
| | 3095.8 | 38.6 | 1425.3 | 627.2 | 351.8 | 181.0 | 94.4 | 237.8 | 87.0 | 67.3 | 19.3 | 0.4 | 121.2 | 6.3 | 25.6 | 89.3 | 10.0 | 159.8 | 54.0 | 32.8 | 51.4 | 250.8 |
| Wyoming | (2782.2–3323.5) | (33.0–45.0) | (1283.4–1537.1) | (557.6–688.2) | (302.4–401.4) | (161.7–202.4) | (82.5–106.0) | (208.2–275.4) | (72.9–99.6) | (55.8–76.9) | (16.3–23.2) | (0.1–0.7) | (102.8–138.2) | (4.9–7.6) | (19.8–32.5) | (76.4–102.8) | (7.8–12.5) | (133.2–189.4) | (45.8–61.8) | (27.8–38.6) | (44.2–60.3) | (198.0–303.3) |
| Southern Latin America | 3040.6 | 25.8 | 1197.2 | 840.8 | 343.6 | 362.0 | 135.1 | 218.0 | 62.0 | 53.2 | 8.6 | 0.2 | 207.5 | 2.4 | 5.0 | 200.2 | 5.4 | 85.5 | 51.4 | 13.9 | 40.2 | 292.9 |
| | (2834.5–3204.9) | (22.6–29.1) | (1115.9–1283.5) | (772.2–897.2) | (308.7–372.5) | (330.1–394.8) | (121.2–149.2) | (196.6–240.8) | (54.5–69.9) | (46.9–60.5) | (7.3–10.2) | (0.1–0.5) | (182.9–233.3) | (1.8–3.1) | (3.8–6.4) | (176.1–224.5) | (4.3–6.8) | (69.3–104.6) | (46.4–56.5) | (10.7–18.6) | (35.9–44.4) | (243.2–339.0) |
| Argentina | 3388.0 | 30.4 | 1340.2 | 847.2 | 316.9 | 399.1 | 131.2 | 240.0 | 69.5 | 61.3 | 8.0 | 0.2 | 277.7 | 2.8 | 3.8 | 271.1 | 6.0 | 83.0 | 53.4 | 13.3 | 46.4 | 380.8 |
| | (3152.6–3594.6) | (26.1–35.2) | (1243.9–1456.6) | (776.1–916.9) | (283.9–348.3) | (358.8–437.9) | (116.6–145.9) | (210.5–271.9) | (60.7–78.9) | (53.7–69.4) | (6.7–9.5) | (0.1–0.5) | (242.7–314.3) | (2.1–3.7) | (2.8–5.1) | (237.2–306.3) | (4.8–7.6) | (66.9–103.3) | (48.2–59.1) | (10.1–17.9) | (41.3–51.3) | (317.7–437.4) |
| Chile | 2239.3 | 17.6 | 871.8 | 779.3 | 365.8 | 282.6 | 130.9 | 179.4 | 33.1 | 23.9 | 8.9 | 0.3 | 66.4 | 1.4 | 4.5 | 60.6 | 4.5 | 91.3 | 40.7 | 17.0 | 19.6 | 118.7 |
| | (2075.2–2384.3) | (15.4–19.7) | (813.9–919.5) | (717.8–829.6) | (324.0–402.6) | (262.1–304.8) | (118.5–144.1) | (161.6–193.0) | (29.2–38.1) | (21.2–27.6) | (7.6–10.7) | (0.1–0.6) | (59.3–74.2) | (1.0–1.7) | (3.4–5.9) | (53.9–67.1) | (3.6–5.6) | (74.3–111.3) | (36.9–45.1) | (13.7–21.9) | (17.4–21.8) | (94.4–145.3) |
| Uruguay | 3145.3 | 13.9 | 1222.3 | 1097.0 | 531.5 | 355.3 | 210.3 | 168.1 | 114.4 | 100.1 | 14.1 | 0.3 | 112.4 | 2.2 | 23.3 | 86.9 | 3.4 | 86.7 | 82.9 | 6.3 | 71.9 | 166.0 |
| | (2909.0–3321.7) | (11.9–16.2) | (1137.2–1313.3) | (1009.5–1184.5) | (476.8–584.4) | (316.5–395.1) | (184.7–235.0) | (145.0–189.9) | (99.9–128.6) | (87.6–111.5) | (11.6–16.9) | (0.1–0.6) | (97.8–129.0) | (1.7–2.9) | (17.8–29.1) | (74.4–99.1) | (2.7–4.2) | (70.9–106.4) | (71.9–94.2) | (3.3–11.0) | (63.2–82.4) | (134.9–199.9) |
| | 2217.6 | 28.1 | 547.0 | 547.0 | 306.9 | 169.3 | 70.8 | 113.6 | 269.3 | 15.7 | 0.6 | 81.0 | 3.2 | 4.5 | 63.0 | 14.8 | 6.0 | 133.9 | 53.0 | 29.6 | 33.2 | 164.4 |
| Western Europe | (1998.8–2391.3) | (25.0–30.9) | (869.4–1009.1) | (491.6–594.2) | (269.5–340.6) | (154.7–181.5) | (65.6–77.0) | (97.6–124.6) | (69.4–88.7) | (55.0–69.6) | (13.6–18.7) | (0.3–1.4) | (74.7–87.5) | (2.7–3.7) | (13.0–16.5) | (57.4–68.4) | (3.9–5.1) | (108.9–163.7) | (48.5–56.4) | (24.3–37.4) | (29.9–36.0) | (125.1–210.8) |
| | 1719.1 | 16.7 | 730.1 | 415.5 | 220.7 | 126.6 | 68.1 | 111.2 | 36.0 | 28.0 | 7.8 | 0.2 | 95.1 | 12.6 | 19.4 | 63.0 | 7.0 | 118.8 | 77.4 | 26.9 | 24.9 | 59.5 |
|

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1912.6 | 25.0 | 712.1 | 488.8 | 270.0 | 176.3 | 42.6 | 63.0 | 105.6 | 88.6 | 16.4 | 0.5 | 61.2 | 3.4 | 10.7 | 47.1 | 3.9 | 147.0 | 39.7 | 18.6 | 45.6 | 202.1 |
| Luxembourg | (1738.2–2069.5) | (21.7–28.7) | (653.9–764.5) | (438.4–525.9) | (242.5–295.0) | (156.6–192.1) | (37.0–48.5) | (54.3–71.6) | (91.6–119.7) | (75.7–100.4) | (13.3–20.1) | (0.2–1.3) | (53.4–69.3) | (2.7–4.0) | (8.3–13.6) | (40.4–53.6) | (3.2–4.6) | (120.4–183.0) | (34.8–45.1) | (13.4–27.0) | (39.0–52.4) | (152.8–256.5) |
| | 2177.0 | 17.7 | 1251.3 | 447.8 | 248.0 | 160.3 | 39.4 | 83.1 | 47.8 | 37.7 | 9.2 | 0.8 | 58.2 | 7.7 | 4.3 | 46.2 | 2.3 | 121.5 | 24.9 | 29.7 | 23.6 | 69.2 |
| Malta | (1962.7–2339.7) | (14.6–21.2) | (1131.7–1340.7) | (395.1–496.2) | (213.8–275.7) | (140.4–180.0) | (33.7–45.7) | (69.6–96.6) | (40.8–55.8) | (32.0–44.4) | (7.6–11.2) | (0.4–2.1) | (50.4–66.9) | (6.3–9.3) | (3.1–5.9) | (39.8–53.6) | (1.9–2.8) | (97.7–151.9) | (21.0–29.6) | (23.4–37.5) | (20.1–27.5) | (53.1–87.6) |
| | 1339.2 | 6.0 | 505.6 | 447.5 | 306.5 | 106.6 | 34.5 | 61.6 | 19.1 | 13.6 | 5.5 | 0.02 | 78.8 | 2.3 | 22.0 | 54.5 | 2.2 | 92.1 | 44.2 | 20.4 | 22.1 | 39.4 |
| Monaco | (623.2–2196.7) | (2.8–11.9) | (163.8–874.6) | (228.7–742.9) | (154.1–521.9) | (36.2–193.5) | (16.8–59.2) | (22.7–111.7) | (7.8–34.3) | (5.2–24.1) | (2.1–10.3) | (0.004–0.1) | (26.3–149.2) | (0.8–5.1) | (4.6–54.4) | (18.8–108.4) | (0.8–4.2) | (58.0–138.4) | (13.1–85.0) | (10.7–35.0) | (5.9–43.5) | (24.0–57.1) |
| | 1790.2 | 14.7 | 636.5 | 525.7 | 317.7 | 143.7 | 64.3 | 33.9 | 103.7 | 76.6 | 26.1 | 1.0 | 59.7 | 3.4 | 10.3 | 45.9 | 2.9 | 132.9 | 65.7 | 45.1 | 49.4 | 119.8 |
| Netherlands | (1609.3–1942.5) | (12.8–16.6) | (578.8–681.8) | (464.9–572.8) | (276.3–349.5) | (128.3–157.6) | (57.1–71.3) | (28.9–38.6) | (89.6–117.9) | (65.7–87.1) | (22.5–30.3) | (0.5–2.5) | (52.0–66.9) | (2.7–4.1) | (8.8–12.4) | (39.2–52.6) | (2.4–3.5) | (111.8–153.7) | (58.9–72.5) | (38.2–53.4) | (43.7–54.3) | (88.5–156.6) |
| | 1839.6 | 11.3 | 802.5 | 486.4 | 274.3 | 132.4 | 79.7 | 35.9 | 103.1 | 84.1 | 18.8 | 0.2 | 58.0 | 3.7 | 5.6 | 48.7 | 3.4 | 140.8 | 78.3 | 20.6 | 19.6 | 79.9 |
| Norway | (1646.3–2005.6) | (9.5–13.2) | (709.2–876.5) | (426.8–534.7) | (235.6–312.4) | (117.8–147.5) | (70.4–89.3) | (29.8–41.2) | (84.5–121.7) | (68.8–98.6) | (13.8–26.0) | (0.1–0.3) | (49.6–67.2) | (2.9–4.6) | (4.2–7.2) | (41.3–57.0) | (2.7–4.1) | (113.3–177.6) | (67.4–86.7) | (16.0–27.1) | (16.5–22.8) | (59.9–107.1) |
| | 1749.2 | 11.5 | 737.3 | 470.4 | 258.6 | 134.1 | 77.7 | 43.9 | 97.0 | 77.5 | 19.4 | 0.2 | 54.7 | 3.5 | 5.5 | 45.7 | 4.1 | 138.7 | 74.0 | 19.3 | 21.7 | 76.6 |
| Agder | (1559.2–1918.8) | (9.6–13.5) | (654.7–811.2) | (414.1–517.5) | (220.4–293.8) | (118.8–149.6) | (68.6–88.3) | (36.9–50.4) | (78.5–114.9) | (63.3–90.5) | (14.3–27.1) | (0.1–0.3) | (47.2–63.3) | (2.7–4.4) | (4.2–7.1) | (38.6–53.0) | (3.2–5.0) | (110.4–175.1) | (62.9–84.0) | (14.8–26.5) | (18.3–25.4) | (57.0–103.3) |
| | 1973.0 | 10.6 | 817.0 | 583.5 | 327.8 | 161.3 | 94.3 | 40.2 | 102.5 | 81.0 | 21.3 | 0.2 | 59.0 | 4.1 | 6.6 | 48.3 | 4.3 | 151.7 | 80.0 | 21.2 | 17.7 | 85.1 |
| Innlandet | (1769.7–2148.2) | (8.9–12.4) | (724.1–897.4) | (513.3–637.0) | (281.8–367.7) | (143.6–179.7) | (83.8–106.2) | (33.3–46.7) | (83.7–120.4) | (65.2–94.6) | (16.2–29.0) | (0.1–0.3) | (50.6–68.5) | (3.2–5.2) | (4.9–8.3) | (40.7–56.6) | (3.4–5.2) | (124.5–186.8) | (68.0–89.5) | (16.6–28.5) | (15.0–20.4) | (65.4–111.3) |
| | 1878.4 | 12.6 | 839.3 | 488.6 | 277.6 | 137.8 | 73.3 | 36.4 | 116.2 | 96.5 | 19.4 | 0.3 | 57.9 | 3.5 | 4.1 | 50.3 | 4.0 | 141.3 | 72.8 | 18.5 | 15.4 | 75.6 |
| Møre og Romsdal | (1668.8–2066.2) | (10.4–14.6) | (746.8–924.6) | (427.3–537.4) | (236.1–316.6) | (122.9–153.6) | (64.5–82.5) | (30.0–42.6) | (95.1–137.7) | (78.7–113.0) | (14.5–26.5) | (0.1–0.6) | (49.3–67.3) | (2.8–4.4) | (3.0–5.4) | (43.0–58.8) | (3.2–4.8) | (112.8–179.3) | (62.1–82.1) | (13.8–25.7) | (13.0–17.9) | (56.1–103.1) |
| | 2016.7 | 12.1 | 913.6 | 516.7 | 295.3 | 132.3 | 89.2 | 38.0 | 111.6 | 92.9 | 18.6 | 0.1 | 56.1 | 3.6 | 5.8 | 46.7 | 5.0 | 143.4 | 95.3 | 22.7 | 18.1 | 84.1 |
| Nordland | (1801.1–2197.6) | (10.1–14.1) | (809.7–996.7) | (458.0–572.3) | (255.4–337.2) | (118.3–148.0) | (79.3–99.5) | (31.6–43.8) | (91.6–132.2) | (76.5–109.2) | (13.5–26.9) | (0.04–0.2) | (48.2–64.9) | (2.8–4.6) | (4.3–7.6) | (39.7–54.7) | (4.0–6.1) | (114.3–180.5) | (80.8–107.8) | (17.9–30.2) | (15.2–21.1) | (62.9–111.4) |
| | 1624.7 | 10.4 | 677.5 | 426.2 | 240.0 | 116.9 | 69.3 | 32.4 | 84.3 | 67.7 | 16.3 | 0.2 | 51.6 | 3.9 | 6.4 | 41.4 | 2.2 | 132.8 | 77.1 | 20.2 | 18.7 | 91.3 |
| Oslo | (1423.7–1801.3) | (8.5–12.1) | (592.7–746.6) | (370.9–469.0) | (201.7–273.4) | (103.6–131.9) | (60.6–78.0) | (26.5–38.0) | (67.7–100.6) | (54.2–80.3) | (11.9–23.5) | (0.1–0.3) | (43.9–58.9) | (3.0–4.8) | (4.9–8.0) | (34.8–48.0) | (1.8–2.6) | (104.7–164.6) | (66.0–86.7) | (15.6–26.6) | (15.7–22.0) | (67.3–121.5) |
| | 1794.1 | 12.7 | 794.2 | 448.2 | 256.6 | 119.7 | 72.0 | 30.4 | 123.9 | 104.9 | 18.9 | 0.1 | 52.8 | 3.3 | 4.1 | 45.3 | 3.4 | 138.2 | 72.6 | 19.6 | 20.1 | 78.2 |
| Rogaland | (1608.2–1963.3) | (10.6–14.7) | (709.4–871.4) | (391.6–496.5) | (215.8–293.8) | (105.8–133.8) | (63.8–81.2) | (25.1–35.2) | (101.8–145.6) | (86.2–121.2) | (13.9–26.3) | (0.05–0.3) | (45.2–61.1) | (2.6–4.2) | (3.1–5.3) | (38.7–53.0) | (2.7–4.1) | (109.5–175.8) | (61.9–81.8) | (14.9–26.6) | (17.0–23.5) | (58.1–106.0) |
| | 2144.1 | 13.7 | 965.1 | 562.9 | 311.1 | 153.4 | 98.5 | 40.1 | 121.8 | 102.6 | 19.0 | 0.2 | 69.4 | 6.8 | 7.2 | 55.4 | 4.6 | 146.1 | 102.9 | 22.5 | 23.3 | 71.8 |
| Troms og Finnmark | (1925.6–2321.4) | (11.5–15.8) | (867.7–1051.7) | (495.4–615.3) | (266.9–348.2) | (135.5–171.6) | (87.4–110.3) | (33.3–46.3) | (101.3–143.4) | (85.0–120.5) | (14.3–26.6) | (0.1–0.3) | (59.4–80.1) | (5.3–8.5) | (5.3–9.2) | (46.9–65.1) | (3.7–5.6) | (118.5–182.3) | (87.5–116.7) | (17.5–29.1) | (19.6–27.3) | (54.8–95.2) |
| | 1928.8 | 10.3 | 817.2 | 524.2 | 300.0 | 142.1 | 82.2 | 34.3 | 113.5 | 94.5 | 18.9 | 0.1 | 67.6 | 2.6 | 5.3 | 59.8 | 2.5 | 145.6 | 93.7 | 23.2 | 18.5 | 78.0 |
| Trøndelag | (1729.5–2094.1) | (8.5–12.0) | (730.1–887.6) | (461.7–574.6) | (256.1–338.7) | (125.8–159.3) | (72.4–92.6) | (28.2–39.4) | (93.3–134.5) | (76.5–110.3) | (13.7–26.9) | (0.1–0.2) | (58.0–78.0) | (2.0–3.2) | (3.9–6.8) | (51.1–69.9) | (2.0–3.0) | (117.9–184.1) | (80.6–105.2) | (18.5–29.8) | (15.8–21.8) | (58.9–105.0) |
| | 1896.5 | 11.0 | 834.9 | 494.4 | 276.3 | 137.0 | 81.1 | 38.2 | 99.4 | 80.1 | 19.2 | 0.1 | 69.2 | 3.9 | 7.4 | 58.0 | 2.9 | 145.0 | 83.7 | 22.7 | 20.7 | 74.4 |
| Vestfold og Telemark | (1687.8–2066.0) | (9.3–12.8) | (735.4–915.6) | (433.2–541.8) | (236.2–317.3) | (121.8–153.5) | (71.8–91.8) | (32.0–44.1) | (81.3–117.9) | (65.3–93.7) | (14.1–26.4) | (0.1–0.2) | (59.3–80.5) | (3.0–4.9) | (5.6–9.5) | (48.9–68.1) | (2.3–3.5) | (116.7–180.0) | (71.9–93.8) | (17.7–29.3) | (17.6–23.9) | (55.5–101.4) |
| | 1854.7 | 11.8 | 839.0 | 461.4 | 254.6 | 129.2 | 77.5 | 32.9 | 121.1 | 99.8 | 21.1 | 0.2 | 57.9 | 3.4 | 5.0 | 49.4 | 3.1 | 143.3 | 63.8 | 19.1 | 20.8 | 80.5 |
| Vestland | (1647.7–2033.3) | (9.9–13.8) | (742.0–920.5) | (402.0–507.2) | (214.9–292.1) | (115.0–144.0) | (68.2–87.5) | (27.1–38.0) | (98.5–142.4) | (81.5–116.4) | (15.7–28.8) | (0.1–0.3) | (49.6–68.1) | (2.7–4.3) | (3.7–6.7) | (42.0–58.2) | (2.4–3.8) | (115.0–180.7) | (54.5–72.2) | (14.5–25.5) | (17.5–24.2) | (60.5–107.2) |
| | 1758.7 | 10.6 | 772.2 | 469.9 | 265.6 | 124.4 | 79.9 | 35.7 | 84.7 | 67.3 | 17.3 | 0.2 | 55.2 | 3.8 | 5.3 | 46.1 | 3.5 | 134.8 | 73.1 | 19.9 | 19.9 | 79.1 |
| Viken | (1571.8–1927.7) | (8.9–12.5) | (681.9–845.9) | (413.4–519.1) | (227.1–304.5) | (110.7–138.0) | (70.4–89.3) | (29.7–41.1) | (69.0–99.9) | (55.4–77.9) | (12.6–24.1) | (0.1–0.3) | (47.0–64.3) | (3.0–4.8) | (3.9–6.7) | (39.0–54.1) | (2.8–4.2) | (107.5–173.1) | (63.7–82.1) | (15.3–26.4) | (16.7–23.3) | (59.5–105.8) |
| | 2053.5 | 24.9 | 762.8 | 761.5 | 434.3 | 248.5 | 78.7 | 90.2 | 62.5 | 52.4 | 9.3 | 0.8 | 58.4 | 2.4 | 8.2 | 47.9 | 5.5 | 106.8 | 32.0 | 37.0 | 29.7 | 82.4 |
| Portugal | (1853.7–2215.3) | (21.4–28.9) | (693.7–824.0) | (685.9–829.4) | (376.8–480.5) | (221.2–273.1) | (70.5–89.4) | (75.9–103.1) | (54.3–69.6) | (45.2–58.9) | (8.0–11.0) | (0.4–1.7) | (51.1–66.7) | (1.9–3.0) | (6.2–10.5) | (41.9–54.6) | (4.3–6.8) | (88.5–129.4) | (28.0–35.8) | (30.7–43.9) | (26.2–33.4) | (62.6–106.3) |
| | 1765.9 | 20.4 | 486.3 | 488.4 | 308.2 | 143.0 | 37.1 | 132.6 | 38.6 | 29.0 | 8.3 | 1.4 | 101.5 | 14.1 | 11.8 | 75.6 | 2.7 | 112.7 | 40.5 | 18.7 | 22.8 | 300.6 |
| San Marino | (1495.1–2043.7) | (13.6–28.9) | (339.9–672.1) | (395.9–592.4) | (248.5–384.1) | (107.2–193.4) | (26.8–49.6) | (93.4–181.2) | (26.7–53.3) | (19.5–41.0) | (4.9–13.6) | (0.8–3.0) | (68.6–142.0) | (8.6–22.1) | (4.9–27.2) | (52.2–104.6) | (1.5–5.8) | (83.7–146.8) | (26.4–62.8) | (12.7–26.6) | (16.1–33.7) | (210.3–390.5) |
| | 1861.8 | 34.1 | 698.6 | 490.9 | 259.0 | 163.4 | 68.5 | 87.4 | 75.3 | 60.8 | 14.3 | 0.2 | 109.2 | 2.2 | 7.7 | 99.3 | 5.4 | 118.2 | 44.6 | 27.3 | 32.3 | 138.5 |
| Spain | (1668.5–2016.5) | (29.9–38.2) | (640.9–743.4) | (437.4–538.4) | (225.6–292.2) | (148.0–178.1) | (61.8–75.8) | (73.0–98.9) | (65.2–83.3) | (51.5–67.5) | (12.2–16.5) | (0.1–0.4) | (98.3–120.0) | (1.7–2.7) | (6.1–9.8) | (89.4–109.4) | (4.3–6.6) | (93.2–147.3) | (41.3–47.9) | (21.5–34.7) | (28.4–36.1) | (107.9–177.1) |
| | 2196.0 | 15.0 | 956.9 | 500.5 | 302.8 | 135.4 | 62.3 | 86.6 | 78.6 | 65.5 | 13.0 | 0.2 | 74.6 | 6.3 | 12.3 | 56.0 | 2.8 | 216.9 | 73.5 | 21.5 | 17.8 | 151.4 |
| Sweden | (1975.5–2389.3) | (13.1–16.8) | (871.8–1015.0) | (447.5–551.1) | (263.3–339.0) | (122.9–149.3) | (55.4–69.2) | (74.0–96.9) | (67.9–89.8) | (56.3–74.7) | (10.8–15.6) | (0.1–0.4) | (66.0–83.5) | (4.9–7.6) | (10.0–15.0) | (48.7–62.8) | (2.2–3.4) | (181.5–267.1) | (65.5–80.6) | (17.1–28.1) | (15.6–20.2) | (110.5–204.5) |
| | 1579.2 | 16.8 | 688.9 | 348.6 | 208.2 | 91.6 | 48.8 | 116.9 | 57.4 | 44.7 | 12.4 | 0.3 | 36.6 | 1.7 | 8.3 | 26.7 | 4.5 | 99.6 | 44.6 | 20.9 | 64.4 | 80.0 |
| Switzerland | (1397.5–1705.6) | (14.5–19.1) | (615.1–739.9) | (302.8–384.1) | (175.9–234.6) | (82.2–103.0) | (43.3–54.0) | (96.8–131.5) | (48.5–67.3) | (37.6–51.8) | (10.2–14.8) | (0.1–0.7) | (31.6–41.5) | (1.3–2.1) | (6.6–10.1) | (22.5–30.4) | (3.7–5.5) | (78.1–125.0) | (39.4–49.7) | (15.7–29.3) | (56.1–71.9) | (61.3–103.0) |
| | 2509.7 | 20.1 | 1221.6 | 542.1 | 282.1 | 170.4 | 89.6 | 78.7 | 79.4 | 66.8 | 12.4 | 0.1 | 88.3 | 4.8 | 16.2 | 67.4 | 3.8 | 149.1 | 74.6 | 38.4 | 37.0 | 176.7 |
| United Kingdom | (2325.4–2668.5) | (18.3–21.9) | (1142.3–1281.3) | (497.3–584.6) | (250.7–311.9) | (157.7–183.1) | (83.0–97.8) | (71.1–85.1) | (70.5–87.2) | (59.3–72.7) | (10.5–15.2) | (0.05–0.2) | (79.4–98.7) | (3.9–5.9) | (13.1–19.1) | (60.1–74.9) | (3.2–4.5) | (118.8–182.6) | (68.3–79.6) | (32.5–47.4) | (33.1–41.2) | (145.8–211.4) |
| | 2437.0 | 19.7 | 1178.2 | 517.6 | 264.6 | 165.9 | 87.0 | 78.7 | 77.4 | 64.8 | 12.5 | 0.1 | 89.3 | 4.7 | 15.9 | 68.7 | 3.7 | 151.5 | 75.0 | 37.6 | 36.6 | 171.9 |
| England | (2247.3–2597.5) | (17.9–21.3) | (1097.5–1240.3) | (473.5–561.2) | (234.5–290.9) | (152.4–179.1) | (80.5–95.6) | (71.2–85.3) | (68.5–85.8) | (57.3–70.9) | (10.5–15.6) | (0.05–0.2) | (80.0–100.6) | (3.7–5.8) | (12.6–19.2) | (60.9–77.2) | (3.1–4.3) | (120.3–185.2) | (68.4–80.1) | (31.6–46.7) | (32.9–40.9) | (142.2–206.3) |
| | 2509.3 | 20.6 | 1248.0 | 520.2 | 266.9 | 165.7 | 87.5 | 90.0 | 84.7 | 71.5 | 13.0 | 0.1 | 67.2 | 3.7 | 14.4 | 49.1 | 4.2 | 155.9 | 79.4 | 38.2 | 41.3 | 159.5 |
| East Midlands | (2285.4–2730.8) | (18.2–23.6) | (1124.8–1365.2) | (468.3–571.0) | (231.4–300.3) | (148.5–184.9) | (78.6–98.2) | (80.9–99.6) | (73.5–94.4) | (62.6–80.0) | (10.9–15.9) | (0.05–0.2) | (58.5–77.3) | (2.9–4.6) | (11.0–18.4) | (42.7–57.0) | (3.6–4.9) | (125.1–190.2) | (69.6–88.3) | (30.7–46.4) | (36.1–47.3) | (133.0–192.5) |
| | 2209.7 | 16.9 | 1041.1 | 473.0 | 247.2 | 148.4 | 77.4 | 77.7 | 72.8 | 59.9 | 12.8 | 0.1 | 73.9 | 4.0 | 13.4 | 56.4 | 3.2 | 154.4 | 74.9 | 32.6 | 31.5 | 157.8 |
| East of England | (1988.8–2438.0) | (14.7–18.9) | (938.4–1153.5) | (419.0–522.5) | (214.1–279.5) | (130.8–166.3) | (68.7–86.6) | (68.7–87.7) | (63.8–82.6) | (52.1–68.0) | (10.4–15.9) | (0.04–0.2) | (63.6–86.2) | (3.2–5.1) | (10.2–17.1) | (49.0–66.0) | (2.6–3.8) | (122.6–193.2) | (65.6–84.4) | (26.4–41.4) | (27.2–36.3) | (127.2–194.3) |
| | 2308.7 | 21.7 | 1061.6 | 478.1 | 242.9 | 155.2 | 80.0 | 96.7 | 64.9 | 54.0 | 10.7 | 0.1 | 123.0 | 4.9 | 17.7 | 100.4 | 3.2 | 149.8 | 66.6 | 31.5 | 31.9 | 179.8 |
| Greater London | (2075.6–2547.8) | (19.3–24.4) | (958.8–1177.7) | (424.5–533.6) | (209.2–275.8) | (138.9–175.1) | (71.5–90.6) | (83.9–109.3) | (56.8–74.3) | (46.9–61.1) | (9.0–13.7) | (0.1–0.2) | (106.7–139.8) | (3.8–6.1) | (13.2–22.1) | (87.0–114.0) | (2.6–3.8) | (120.1–188.0) | (58.2–76.5) | (24.9–40.6) | (28.2–36.5) | (146.7–221.2) |
| | 2717.8 | 22.5 | 1360.8 | 595.5 | 298.9 | 192.5 | 104.2 | 71.1 | 78.7 | 67.0 | 11.6 | 0.1 | 69.7 | 4.1 | 14.7 | 50.9 | 4.6 | 150.3 | 82.7 | 44.8 | 38.9 | 198.3 |
| North East England | (2484.2–2955.9) | (20.0–25.0) | (1251.1–1493.5) | (537.8–665.0) | (264.8–339.0) | (172.9–216.0) | (93.0–116.6) | (61.8–80.8) | (70.0–88.4) | (59.2–74.8) | (9.6–14.5) | (0.1–0.3) | (58.6–83.1) | (3.2–5.2) | (11.1–19.4) | (42.6–61.1) | (3.7–5.4) | (122.6–185.0) | (73.5–93.1) | (37.6–53.9) | (33.5–44.7) | (165.5–236.6) |
| | 2877.7 | 21.5 | 1496.2 | 597.3 | 294.7 | 197.4 | 105.2 | 68.3 | 87.8 | 74.0 | 13.7 | 0.1 | 82.3 | 5.8 | 16.9 | 59.6 | 4.2 | 157.4 | 74.0 | 44.3 | 46.7 | 197.7 |
| North West England | (2650.9–3109.5) | (19.4–23.9) | (1381.6–1636.3) | (547.7–655.6) | (264.8–330.8) | (179.7–218.3) | (95.6–119.2) | (60.6–75.7) | (78.5–99.0) | (66.0–82.9) | (11.8–17.0) | (0.04–0.2) | (74.0–94.5) | (4.6–7.2) | (13.2–20.9) | (53.0–68.1) | (3.5–5.1) | (127.2–196.2) | (66.3–82.6) | (37.5–53.4) | (42.1–52.2) | (169.9–233.6) |
| | 2116.3 | 17.1 | 912.7 | 459.6 | 238.9 | 145.8 | 74.9 | 77.6 | 74.5 | 62.1 | 12.3 | 0.1 | 114.1 | 4.9 | 17.4 | 91.9 | 2.9 | 149.1 | 77.6 | 33.9 | 32.9 | 164.2 |
| South East England | (1887.9–2305.3) | (15.0–19.0) | (820.0–994.6) | (409.2–506.9) | (205.4–269.8) | (131.0–161.6) | (66.5–83.8) | (67.7–86.6) | (64.2–84.9) | (53.3–70.3) | (10.4–15.3) | (0.04–0.2) | (101.9–128.7) | (3.8–6.1) | (14.0–21.3) | (80.6–103.3) | (2.4–3.4) | (116.5–184.2) | (68.5–86.3) | (27.4–42.9) | (28.9–36.5) | (136.4–194.3) |
| | 2202.7 | 18.0 | 1021.2 | 493.0 | 258.8 | 154.8 | 79.4 | 67.1 | 82.2 | 69.6 | 12.5 | 0.1 | 78.3 | 3.6 | 14.4 | 60.4 | 3.5 | 146.2 | 77.0 | 35.1 | 32.0 | 149.2 |
| South West England | (1988.9–2393.6) | (15.7–20.0) | (924.4–1106.9) | (439.7–549.3) | (223.7–295.9) | (138.0–173.7) | (71.2–89.9) | (59.0–75.1) | (70.9–93.7) | (60.5–78.0) | (10.2–15.5) | (0.05–0.2) | (68.5–91.7) | (2.8–4.4) | (11.0–18.5) | (52.6–70.3) | (2.9–4.0) | (114.1–184.3) | (67.0–86.0) | (28.4–43.3) | (27.8–36.2) | (122.4–182.6) |
| | 2571.2 | 22.3 | 1305.9 | 536.1 | 271.8 | 172.1 | 92.2 | 84.3 | 73.5 | 59.2 | 14.2 | 0.1 | 82.3 | 4.9 | 15.5 | 61.8 | 4.4 | 149.5 | 71.3 | 40.2 | 34.5 | 167.0 |
| West Midlands | (2342.8–2790.3) | (19.9–24.6) | (1191.6–1435.4) | (482.6–593.6) | (235.9–309.3) | (154.0–189.5) | (82.7–102.6) | (75.1–93.7) | (64.1–83.6) | (51.6–66.7) | (12.0–17.5) | (0.04–0.2) | (71.9–95.5) | (3.9–6.2) | (11.6–19.6) | (53.0–70.8) | (3.5–5.2) | (120.4–184.2) | (64.1–79.6) | (33.9–49.2) | (30.3–40.2) | (134.6–204.7) |
| | 2776.7 | 20.5 | 1431.2 | 579.4 | 293.2 | 184.3 | 101.9 | 75.8 | 80.0 | 68.3 | 11.6 | 0.1 | 78.0 | 5.2 | 16.8 | 56.1 | 4.3 | 151.6 | 74.7 | 43.6 | 45.5 | 192.1 |
| Yorkshire and the Humber | (2539.9–3018.6) | (18.3–22.8) | (1304.0–1566.2) | (527.4–633.2) | (260.1–326.4) | (167.2–202.6) | (92.8–112.7) | (68.2–83.5) | (71.5–89.1) | (61.1–76.1) | (9.7–13.6) | (0.05–0.2) | (67.1–91.7) | (4.0–6.6) | (12.5–21.2) | (47.8–65.6) | (3.6–5.2) | (124.1–189.1) | (66.6–82.9) | (36.6–53.7) | (40.0–51.5) | (161.5–231.1) |
| | 2345.3 | 21.3 | 1146.0 | 548.2 | 270.4 | 179.0 | 98.8 | 64.3 | 88.0 | 76.9 | 10.9 | 0.1 | 75.2 | 5.1 | 15.3 | 54.7 | 4.1 | 131.9 | 54.1 | 30.3 | 30.1 | 152.0 |
| Northern Ireland | (2155.2–2533.2) | (18.3–24.6) | (1059.8–1224.7) | (499.4–601.3) | (240.3–299.6) | (160.5–198.1) | (88.3–111.4) | (56.3–73.1) | (76.8–99.1) | (66.2–86.8) | (9.0–13.0) | (0.04–0.2) | (64.7–88.5) | (3.9–6.6) | (11.7–19.5) | (47.0–64.9) | (3.2–5.0) | (106.7–165.0) | (47.3–59.8) | (25.0–37.9) | (26.1–35.3) | (122.4–188.5) |
| | 3070.1 | 23.9 | 1524.2 | 769.6 | 434.7 | 209.7 | 107.2 | 84.2 | 89.3 | 76.3 | 12.9 | 0.1 | 79.7 | 5.4 | 16.3 | 58.0 | 4.6 | 139.2 | 73.2 | 48.7 | 35.7 | 197.5 |
| Scotland | (2856.0–3272.4) | (21.1–27.1) | (1425.0–1611.7) | (703.2–842.3) | (401.4–504.1) | (190.1–230.9) | (95.0–127.9) | (74.6–94.4) | (81.1–98.3) | (68.8–84.2) | (11.2–15.1) | (0.05–0.2) | (68.7–91.7) | (4.3–6.8) | (12.6–20.2) | (49.1–66.1) | (3.7–5.6) | (116.1–171.5) | (65.4–80.9) | (42.0–57.2) | (31.8–41.0) | (161.0–241.9) |
| | 2883.2 | 20.9 | 1488.0 | 565.4 | 291.8 | 174.7 | 98.8 | 77.0 | 92.3 | 81.1 | 11.1 | 0.1 | 94.2 | 5.3 | 20.8 | 68.0 | 4.2 | 134.7 | 80.8 | 39.2 | 49.3 | 237.2 |
| Wales | (2660.2–3100.3) | (18.5–23.4) | (1389.2–1599.2) | (515.8–614.5) | (260.4–320.7) | (160.0–190.4) | (90.5–109.3) | (68.6–84.3) | (81.6–101.3) | (70.8–89.0) | (9.5–13.1) | (0.05–0.2) | (83.5–106.5) | (4.2–6.8) | (16.2–26.4) | (59.8–77.8) | (3.3–5.1) | (109.8–162.4) | (72.6–88.0) | (33.4–47.8) | (43.4–56.0) | (199.4–289.0) |
| **Latin America and Caribbean** | **3611.3** | **68.0** | **1746.7** | **1037.4** | **436.2** | **431.1** | **170.1** | **222.8** | **37.9** | **25.8** | **11.5** | **0.6** | **118.4** | **4.0** | **13.7** | **100.7** | **6.1** | **120.1** | **52.1** | **24.3** | **27.1** | **150.4** |
| | (3402.8–3771.8) | (51.7–88.5) | (1637.2–1831.5) | (975.0–1097.3) | (400.5–467.1) | (401.1–458.0) | (155.6–187.0) | (204.4–241.9) | (34.8–40.4) | (23.4–27.7) | (10.6–12.6) | (0.3–1.3) | (107.5–128.7) | (3.2–5.2) | (11.1–16.8) | (91.5–110.3) | (5.2–7.1) | (97.7–151.7) | (48.5–54.7) | (19.5–31.9) | (25.0–29.2) | (125.9–177.6) |
| | 2661.7 | 62.7 | 1140.6 | 917.3 | 307.0 | 383.6 | 226.8 | 169.2 | 24.0 | 17.1 | 6.8 | 0.1 | 52.5 | 1.8 | 0.1 | 50.6 | 6.0 | 110.8 | 21.1 | 9.8 | 17.3 | 130.2 |
| Andean Latin America | (2442.2–2847.0) | (44.9–85.1) | (1029.9–1235.4) | (835.5–1000.8) | (275.3–346.4) | (335.4–442.7) | (197.0–263.2) | (142.4–209.8) | (19.0–30.3) | (13.1–22.2) | (4.9–9.2) | (0.05–0.2) | (42.7–62.3) | (1.3–2.6) | (0.1–0.2) | (41.1–60.3) | (4.1–9.4) | (86.2–138.1) | (17.4–25.2) | (6.0–15.9) | (13.6–22.3) | (101.9–162.7) |
| | 4080.9 | 97.0 | 1532.7 | 1656.4 | 513.0 | 791.4 | 352.0 | 323.9 | 35.2 | 24.6 | 10.5 | 0.1 | 86.2 | 2.6 | 0.2 | 83.4 | 9.8 | 126.6 | 28.8 | 10.9 | 25.7 | 147.6 |
| Bolivia (Plurinational State of) | (3365.2–4867.1) | (69.2–129.8) | (1093.1–2007.2) | (1284.5–2085.2) | (379.3–701.4) | (528.3–1083.0) | (233.6–520.6) | (205.7–488.1) | (22.5–53.2) | (13.7–37.6) | (5.3–17.9) | (0.04–0.4) | (50.3–131.7) | (1.2–4.9) | (0.1–0.6) | (48.6–128.2) | (5.0–18.7) | (97.3–166.1) | (18.4–41.3) | (6.6–17.4) | (16.5–39.2) | (99.8–200.4) |
| | 3115.2 | 56.6 | 1599.7 | 868.1 | 313.0 | 323.9 | 231.2 | 216.8 | 28.2 | 17.4 | 10.7 | 0.1 | 69.2 | 2.7 | 0.2 | 66.3 | 7.0 | 97.2 | 26.9 | 9.4 | 19.2 | 117.1 |
| Ecuador | (2907.3–3267.4) | (40.7–78.5) | (1500.9–1675.3) | (794.3–930.6) | (282.4–341.8) | (284.8–364.2) | (201.7–258.0) | (194.7–232.5) | (24.2–32.3) | (14.9–20.2) | (9.1–12.5) | (0.03–0.1) | (58.9–79.0) | (2.0–3.6) | (0.1–0.3) | (56.4–75.9) | (5.1–9.3) | (78.6–124.3) | (23.0–30.9) | (5.5–15.9) | (16.4–22.3) | (94.8–144.2) |
| | 2082.5 | 55.6 | 826.9 | 746.8 | 256.2 | 301.9 | 188.8 | 108.7 | 18.9 | 15.0 | 3.8 | 0.1 | 34.5 | 1.1 | 0.1 | 33.3 | 4.4 | 114.5 | 16.3 | 9.8 | 13.9 | 132.2 |
| Peru | (1812.4–2377.8) | (38.1–78.0) | (698.6–972.8) | (638.4–890.3) | (206.9–316.8) | (243.5–376.1) | (147.4–233.4) | (83.8–158.7) | (12.7–25.8) | (9.8–20.9) | (2.0–6.3) | (0.04–0.2) | (25.6–47.0) | (0.6–1.8) | (0.03–0.2) | (24.8–45.6) | (2.5–8.5) | (87.6–142.1) | (11.6–21.4) | (6.0–15.6) | (9.8–19.7) | (101.4–168.2) |
| | 5814.9 | 154.8 | 2427.0 | 2000.5 | 793.9 | 1005.4 | 201.2 | 503.8 | 36.8 | 22.5 | 13.8 | 0.5 | 230.3 | 13.7 | 6.5.0 | 151.6 | 11.7 | 120.5 | 42.5 | 43.2 | 40.5 | 203.4 |
| Caribbean | (5372.6–6337.7) | (104.3–231.6) | (2180.8–2710.0) | (1741.8–2262.2) | (684.3–935.6) | (840.3–1252.4) | (148.2–297.7) | (433.4–601.2) | (29.3–44.1) | (18.3–27.4) | (10.0–18.8) | (0.3–0.8) | (177.6–301.0) | (7.1–27.6) | (4.5–9.1) | (109.7–207.4) | (6.8–19.1) | (97.1–149.4) | (37.0–48.3) | (37.0–50.7) | (29.6–53.2) | (167.7–249.9) |
| | 3747.7 | 18.8 | 1058.5 | 1179.8 | 503.9 | 535.6 | 140.3 | 765.1 | 24.5 | 13.7 | 9.6 | 1.2 | 147.7 | 8.2 | 26.9 | 112.5 | 1.8 | 122.7 | 26.4 | 21.3 | 29.8 | 343.7 |
| Antigua and Barbuda | (3425.1–4052.2) | (16.0–22.3) | (944.7–1173.6) | (1050.7–1306.5) | (439.9–567.1) | (461.5–614.7) | (118.7–165.9) | (662.0–859.4) | (21.2–28.3) | (11.4–15.8) | (8.0–11.4) | (0.6–2.5) | (123.6–171.0) | (6.1–10.5) | (19.5–34.8) | (92.9–131.0) | (1.4–2.3) | (100.4–151.3) | (17.6–25.2) | (24.2–37.0) | (28.6–39.7) | (287.8–400.6) |
| | 3544.3 | 21.9 | 1236.3 | 1188.0 | 577.0 | 460.6 | 150.4 | 317.1 | 33.8 | 27.3 | 5.4 | 1.1 | 206.3 | 4.3 | 81.9 | 120.0 | 11.2 | 127.6 | 38.3 | 87.6 | 56.3 | 219.9 |
| Barbados | (3273.3–3818.1) | (17.0–28.1) | (1102.

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5139.7 (4567.7–5666.0) | 82.4 (62.5–107.4) | 1827.5 (1594.8–2042.0) | 1483.1 (1314.4–1681.6) | 661.9 (557.6–777.3) | 699.6 (574.2–832.1) | 121.6 (98.1–148.7) | 949.1 (812.7–1079.1) | 34.5 (28.9–40.8) | 20.4 (17.3–24.3) | 12.9 (10.3–16.0) | 1.1 (0.6–2.5) | 124.7 (100.2–149.3) | 7.9 (5.5–10.8) | 61.0 (47.4–77.4) | 55.8 (44.1–66.9) | 2.9 (2.2–3.8) | 127.6 (106.1–157.2) | 26.0 (21.7–30.5) | 23.6 (18.3–30.6) | 18.2 (15.0–21.9) | 440.1 (365.6–508.3) |
| Saint Vincent and the Grenadines | 5008.0 (4607.1–5504.9) | 88.0 (65.2–113.4) | 2029.6 (1758.9–2284.2) | 1898.1 (1673.5–2178.1) | 697.1 (583.0–815.8) | 1024.5 (889.0–1201.0) | 176.5 (126.0–235.3) | 442.9 (340.9–568.7) | 38.4 (27.6–52.6) | 19.1 (12.0–27.7) | 18.7 (11.1–28.8) | 0.7 (0.3–1.2) | 164.4 (116.1–225.3) | 2.8 (1.3–4.9) | 21.5 (6.5–42.3) | 140.1 (98.0–195.1) | 15.3 (7.0–24.0) | 129.9 (101.4–159.6) | 43.3 (28.8–59.5) | 13.4 (8.5–20.7) | 17.6 (12.2–26.1) | 127.2 (97.5–162.8) |
| Suriname | 5572.0 (5254.7–5930.9) | 24.5 (19.9–30.4) | 1958.3 (1792.7–2144.2) | 1245.3 (1133.3–1395.1) | 512.2 (451.6–576.3) | 611.3 (533.6–695.4) | 121.8 (101.9–145.9) | 1357.8 (1205.0–1524.5) | 34.5 (30.1–40.6) | 21.5 (18.4–25.3) | 12.3 (10.1–14.6) | 0.8 (0.3–1.9) | 306.7 (253.8–358.2) | 4.8 (3.4–6.3) | 117.3 (90.2–147.0) | 184.6 (149.0–220.0) | 16.5 (13.3–20.9) | 151.2 (129.2–180.3) | 65.1 (54.5–76.2) | 46.6 (39.1–54.9) | 59.5 (49.9–70.5) | 305.9 (265.8–351.8) |
| Bahamas | 5720.6 (5343.0–6071.4) | 40.1 (30.6–49.8) | 2866.8 (2579.0–3122.1) | 1606.2 (1460.2–1755.2) | 873.0 (789.4–969.6) | 555.1 (471.0–649.1) | 178.2 (145.2–214.0) | 492.2 (432.9–552.6) | 32.0 (27.2–38.2) | 18.0 (15.2–21.7) | 13.7 (11.3–16.2) | 0.4 (0.2–0.8) | 153.0 (124.0–182.1) | 6.7 (5.0–8.8) | 24.8 (16.6–35.8) | 121.6 (98.9–143.3) | 7.4 (5.7–9.3) | 177.4 (151.4–211.6) | 87.9 (72.7–102.6) | 35.0 (28.0–43.5) | 42.1 (35.4–50.2) | 180.4 (150.1–210.0) |
| Trinidad and Tobago | 4103.7 (3750.6–4416.0) | 37.8 (30.5–44.5) | 2051.2 (1857.6–2243.5) | 726.1 (637.6–810.6) | 323.4 (280.6–366.2) | 288.0 (250.6–329.6) | 114.7 (97.6–131.9) | 582.6 (506.6–660.4) | 61.5 (51.7–71.5) | 33.1 (27.3–39.1) | 28.0 (23.4–33.1) | 0.4 (0.2–1.0) | 197.4 (167.0–232.8) | 7.0 (5.1–9.4) | 58.1 (42.9–74.8) | 132.2 (109.4–159.3) | 5.2 (4.0–6.5) | 125.7 (104.5–158.0) | 30.2 (25.6–36.0) | 44.9 (36.6–53.4) | 49.1 (41.2–57.7) | 192.2 (164.5–224.2) |
| United States Virgin Islands | 3491.1 (3292.0–3650.6) | 53.9 (37.0–79.3) | 2089.4 (1928.1–2203.8) | 780.1 (716.8–841.5) | 316.0 (293.2–343.6) | 321.3 (279.4–358.9) | 142.8 (126.0–164.5) | 168.3 (153.4–184.8) | 29.9 (27.7–32.2) | 20.4 (18.7–22.3) | 9.0 (8.4–9.7) | 0.5 (0.2–1.0) | 61.9 (56.2–69.2) | 2.4 (2.0–2.8) | 4.7 (3.5–6.6) | 54.8 (49.6–60.4) | 2.9 (2.4–3.5) | 116.3 (96.1–146.5) | 26.8 (24.9–28.6) | 15.0 (10.0–23.2) | 17.4 (16.1–19.1) | 129.3 (103.9–156.8) |
| Central Latin America | 2800.4 (2599.4–2967.5) | 53.9 (34.9–81.3) | 1453.2 (1358.0–1525.8) | 652.7 (608.7–686.3) | 276.3 (252.9–295.3) | 210.5 (194.2–225.4) | 165.9 (153.6–179.2) | 129.8 (117.3–138.6) | 53.3 (49.7–57.2) | 30.7 (27.9–33.6) | 21.3 (19.5–23.0) | 1.3 (0.5–2.5) | 67.3 (62.7–72.5) | 4.1 (3.1–5.0) | 1.3 (1.1–1.8) | 61.9 (57.5–66.8) | 3.6 (3.0–4.4) | 109.6 (88.3–138.6) | 65.2 (61.1–69.3) | 13.8 (9.7–20.4) | 27.2 (25.0–29.9) | 170.8 (134.1–209.6) |
| Colombia | 2672.2 (2487.8–2844.5) | 12.9 (11.1–15.0) | 1296.8 (1206.0–1382.0) | 634.8 (588.2–690.4) | 312.8 (280.8–345.2) | 201.6 (182.4–230.7) | 120.3 (106.5–135.1) | 200.1 (179.0–220.2) | 43.2 (37.6–49.0) | 34.2 (29.6–39.0) | 8.4 (6.9–9.9) | 0.7 (0.3–1.3) | 94.7 (81.8–107.2) | 6.0 (4.5–7.8) | 11.4 (8.4–15.5) | 77.3 (66.1–88.3) | 3.4 (2.8–4.2) | 130.9 (107.6–162.5) | 48.5 (41.0–55.6) | 15.5 (10.7–23.2) | 36.5 (31.7–41.1) | 154.8 (121.5–193.0) |
| Costa Rica | 3791.7 (3409.0–4226.5) | 59.8 (40.1–87.7) | 2297.5 (2012.7–2594.3) | 891.9 (732.9–1042.9) | 356.3 (292.5–427.6) | 384.9 (303.0–467.0) | 150.8 (115.3–195.4) | 142.9 (106.5–193.3) | 12.2 (8.7–15.8) | 10.0 (6.9–13.2) | 2.0 (1.1–3.2) | 0.2 (0.1–0.4) | 63.4 (46.1–83.1) | 1.6 (0.8–2.6) | 2.0 (0.7–4.2) | 59.7 (43.3–78.5) | 6.3 (3.8–12.9) | 163.1 (135.1–201.9) | 17.7 (12.7–24.2) | 16.8 (10.5–24.1) | 6.2 (4.4–8.2) | 114.0 (86.0–141.5) |
| El Salvador | 3419.5 (3149.7–3731.0) | 52.8 (33.3–82.4) | 1969.9 (1805.8–2186.6) | 930.8 (847.3–1046.2) | 332.2 (288.1–390.8) | 501.9 (382.7–673.7) | 96.7 (82.7–111.9) | 99.6 (85.9–112.6) | 15.3 (13.1–17.9) | 11.1 (9.4–13.1) | 3.9 (3.2–4.8) | 0.2 (0.0–0.5) | 58.2 (48.7–66.7) | 2.1 (1.7–3.0) | 53.9 (44.9–61.8) | 2.4 (2.0–2.9) | 116.2 (97.7–144.0) | 9.7 (8.2–11.2) | 10.1 (5.0–18.6) | 16.3 (13.7–19.0) | 138.2 (113.8–164.2) |
| Guatemala | 4754.1 (4051.2–5450.8) | 71.1 (49.0–104.3) | 2454.1 (1893.9–3045.3) | 1364.3 (1030.7–1774.8) | 614.9 (461.9–849.4) | 556.0 (370.7–758.1) | 193.4 (126.2–287.0) | 470.2 (262.7–738.6) | 21.8 (14.4–31.6) | 15.4 (8.9–23.1) | 6.2 (3.4–10.7) | 0.2 (0.1–0.4) | 68.0 (39.5–106.0) | 2.0 (0.9–3.8) | 5.6 (1.7–12.6) | 60.4 (36.0–92.1) | 4.5 (2.4–9.0) | 142.6 (109.2–186.5) | 15.4 (10.1–22.1) | 18.3 (11.3–27.0) | 12.8 (8.4–18.7) | 110.9 (75.1–152.9) |
| Honduras | 3218.4 (3038.0–3355.1) | 52.1 (37.0–76.6) | 2055.2 (1947.8–2134.8) | 625.2 (581.5–667.6) | 274.7 (250.5–302.0) | 234.2 (212.7–254.6) | 116.2 (103.7–129.9) | 137.1 (126.4–148.6) | 21.8 (19.3–24.4) | 17.5 (15.5–19.7) | 4.1 (3.5–4.9) | 0.2 (0.1–0.6) | 45.8 (39.7–51.9) | 1.6 (1.2–2.1) | 4.7 (3.6–6.1) | 39.5 (33.9–45.2) | 2.6 (2.1–3.2) | 115.4 (94.4–146.3) | 10.9 (9.6–12.3) | 15.7 (10.1–24.6) | 13.9 (12.1–16.3) | 122.7 (97.9–148.7) |
| Mexico | 2760.1 (2564.1–2993.3) | 20.2 (16.9–24.1) | 1612.3 (1469.9–1763.6) | 610.2 (557.5–673.6) | 265.4 (232.3–296.6) | 221.3 (194.8–249.7) | 123.5 (108.0–141.3) | 149.5 (128.8–173.2) | 19.8 (17.1–23.1) | 15.5 (13.3–18.3) | 4.0 (3.3–5.0) | 0.3 (0.1–0.6) | 35.0 (29.8–40.8) | 0.9 (0.7–1.1) | 4.7 (3.5–6.4) | 29.4 (24.8–34.4) | 4.0 (3.1–4.9) | 119.4 (97.2–152.0) | 14.0 (11.7–16.3) | 16.6 (10.8–25.8) | 14.1 (11.8–17.0) | 144.9 (111.9–179.9) |
| Aguascalientes | 3623.9 (3348.1–3859.7) | 10.0 (8.7–11.6) | 2234.6 (2053.8–2383.4) | 781.3 (724.2–853.2) | 358.7 (326.5–390.7) | 293.3 (261.1–328.9) | 129.3 (114.6–148.4) | 197.1 (173.1–223.9) | 27.8 (24.4–31.5) | 22.4 (19.5–25.6) | 5.2 (4.4–6.3) | 0.2 (0.1–0.5) | 57.4 (47.6–66.7) | 1.3 (1.0–1.7) | 5.7 (4.1–7.8) | 50.4 (41.7–59.2) | 2.5 (2.1–3.1) | 121.0 (99.4–153.7) | 19.3 (16.5–22.6) | 17.2 (11.2–26.7) | 20.3 (17.1–23.8) | 135.4 (108.5–163.6) |
| Baja California | 3282.9 (3001.6–3570.8) | 9.7 (8.2–11.5) | 2175.7 (1975.6–2378.8) | 578.6 (510.2–642.9) | 257.2 (223.1–288.7) | 213.7 (180.7–244.6) | 107.7 (92.1–125.4) | 142.2 (121.3–164.3) | 27.2 (23.1–31.5) | 23.8 (20.1–27.9) | 3.2 (2.6–4.1) | 0.2 (0.1–0.5) | 50.5 (42.5–58.5) | 1.4 (0.9–1.9) | 4.6 (3.3–6.1) | 44.6 (37.0–51.5) | 1.4 (1.1–1.7) | 120.8 (96.6–154.1) | 25.5 (21.1–30.5) | 15.5 (10.0–24.4) | 9.2 (7.8–11.1) | 126.6 (99.2–158.3) |
| Baja California Sur | 3388.0 (3141.3–3621.7) | 60.4 (40.1–89.3) | 2279.4 (2096.1–2447.3) | 613.3 (544.3–689.9) | 290.1 (254.8–330.4) | 211.1 (177.5–246.6) | 112.1 (96.4–129.1) | 101.9 (86.6–122.7) | 18.1 (15.6–21.1) | 14.6 (12.7–17.2) | 3.3 (2.6–4.1) | 0.2 (0.1–0.5) | 52.1 (43.0–61.7) | 2.1 (1.4–3.1) | 5.7 (4.1–7.9) | 44.3 (35.9–52.6) | 2.7 (2.1–3.4) | 121.9 (100.6–152.8) | 7.6 (6.3–9.1) | 15.7 (10.3–24.5) | 7.8 (6.4–9.6) | 107.0 (84.4–134.2) |
| Campeche | 3702.7 (3400.7–3954.7) | 58.4 (38.1–87.9) | 2512.5 (2314.5–2701.6) | 674.4 (618.2–735.7) | 276.5 (246.1–309.6) | 266.4 (238.6–296.1) | 131.5 (115.0–148.0) | 128.9 (114.1–146.1) | 17.8 (15.2–20.6) | 14.4 (12.4–16.7) | 3.3 (2.7–4.0) | 0.1 (0.05–0.5) | 62.6 (52.1–74.7) | 2.9 (2.0–4.3) | 3.1 (2.2–4.2) | 56.6 (46.6–68.4) | 2.7 (2.2–3.3) | 110.6 (90.9–141.1) | 7.6 (6.4–8.9) | 13.4 (7.9–21.9) | 16.6 (13.4–20.2) | 97.1 (79.6–116.8) |
| Chiapas | 4135.9 (3878.2–4387.0) | 63.7 (44.7–92.4) | 2718.1 (2542.2–2899.8) | 709.2 (647.9–780.4) | 327.1 (296.1–361.6) | 258.7 (225.6–289.7) | 123.4 (107.1–141.3) | 209.4 (187.4–235.2) | 22.7 (19.9–25.9) | 18.0 (15.8–20.6) | 4.5 (3.8–5.4) | 0.2 (0.1–0.6) | 73.4 (62.3–82.9) | 2.8 (2.1–3.7) | 6.9 (5.1–9.6) | 63.6 (54.0–71.4) | 3.2 (2.6–4.0) | 122.8 (99.6–155.4) | 17.5 (15.0–20.1) | 20.8 (15.1–30.1) | 15.3 (13.3–17.9) | 160.0 (132.7–194.9) |
| Coahuila | 3720.1 (3487.6–3950.4) | 10.9 (9.3–12.7) | 2395.0 (2227.5–2556.5) | 731.9 (667.4–792.6) | 303.4 (268.7–338.7) | 312.4 (279.4–349.9) | 116.0 (101.2–134.2) | 230.4 (209.6–256.4) | 21.4 (18.8–24.4) | 17.3 (15.2–19.7) | 3.9 (3.3–4.7) | 0.2 (0.1–0.5) | 44.2 (37.4–51.3) | 1.9 (1.4–2.4) | 3.6 (2.6–4.9) | 38.8 (32.4–45.2) | 3.0 (2.4–3.6) | 126.2 (105.0–160.6) | 11.0 (9.7–12.7) | 18.5 (12.7–27.5) | 11.3 (9.9–13.3) | 116.2 (94.5–142.9) |
| Colima | 3336.9 (3090.6–3594.5) | 12.3 (10.3–14.7) | 2143.2 (1969.8–2335.4) | 671.6 (605.8–741.4) | 295.8 (261.9–330.3) | 237.0 (202.9–270.4) | 138.8 (120.0–160.3) | 112.9 (96.6–131.4) | 30.8 (26.6–35.6) | 24.5 (21.0–28.6) | 6.2 (5.2–7.5) | 0.1 (0.03–0.5) | 62.2 (51.9–74.3) | 1.7 (1.2–2.2) | 7.7 (5.7–10.5) | 52.9 (44.3–63.7) | 2.8 (2.2–3.4) | 123.3 (101.0–154.7) | 15.5 (13.0–17.9) | 16.1 (10.4–25.1) | 14.2 (12.1–17.0) | 131.9 (104.8–163.4) |
| Durango | 3611.9 (3315.6–3871.2) | 62.3 (42.7–93.4) | 2567.1 (2349.8–2751.9) | 515.4 (460.3–570.8) | 218.0 (189.7–246.7) | 197.5 (169.8–220.7) | 99.9 (85.7–116.5) | 110.3 (96.2–126.4) | 18.2 (15.6–21.3) | 14.4 (12.1–17.0) | 3.6 (3.0–4.5) | 0.2 (0.1–0.5) | 34.9 (29.2–41.5) | 2.0 (1.4–3.0) | 3.1 (2.3–4.4) | 29.8 (24.7–35.7) | 2.8 (2.2–3.5) | 114.8 (91.3–145.3) | 10.6 (8.9–12.3) | 14.7 (9.3–23.9) | 11.5 (9.6–13.9) | 149.3 (115.5–187.2) |
| Guanajuato | 3386.0 (3145.1–3599.5) | 67.6 (48.2–97.3) | 2294.6 (2147.9–2437.9) | 569.2 (515.2–621.3) | 237.8 (210.8–266.5) | 218.3 (189.7–244.0) | 113.1 (98.5–129.2) | 115.8 (104.1–130.0) | 20.7 (18.4–23.3) | 16.6 (14.7–18.8) | 4.0 (3.4–4.9) | 0.2 (0.1–0.6) | 49.7 (42.9–56.5) | 1.2 (0.9–1.6) | 5.4 (4.0–7.1) | 43.1 (37.4–49.7) | 2.3 (1.9–2.9) | 112.5 (91.1–143.1) | 10.2 (8.8–12.0) | 15.9 (10.0–25.1) | 12.5 (10.5–14.5) | 115.0 (90.9–139.3) |
| Guerrero | 2796.4 (2594.2–2977.8) | 58.3 (39.3–90.1) | 1704.7 (1584.6–1831.5) | 623.5 (549.8–690.0) | 246.7 (213.2–277.2) | 254.7 (220.6–290.8) | 122.1 (104.3–145.1) | 101.5 (88.2–115.9) | 16.3 (13.7–19.2) | 12.6 (10.4–14.9) | 3.6 (2.9–4.3) | 0.1 (0.03–0.5) | 45.9 (35.9–57.8) | 2.5 (1.5–3.8) | 3.0 (2.1–3.9) | 40.4 (30.7–51.0) | 2.5 (1.8–3.4) | 102.1 (81.2–130.8) | 7.1 (6.3–8.3) | 13.7 (7.9–23.2) | 16.8 (13.2–20.7) | 104.0 (83.3–126.4) |
| Hidalgo | 2935.5 (2687.3–3131.6) | 62.1 (42.0–91.2) | 1819.7 (1680.2–1942.1) | 589.2 (534.5–643.4) | 250.4 (222.1–278.8) | 228.5 (199.2–256.9) | 110.3 (94.2–125.7) | 119.4 (103.5–136.6) | 17.9 (15.6–20.5) | 14.1 (12.1–16.3) | 3.7 (3.1–4.5) | 0.1 (0.03–0.5) | 50.3 (42.2–58.3) | 1.7 (1.3–2.2) | 3.8 (2.9–5.1) | 44.8 (37.3–52.1) | 3.2 (2.5–4.0) | 122.6 (101.0–154.9) | 6.3 (5.4–7.2) | 13.6 (8.2–22.0) | 15.4 (13.0–18.5) | 115.8 (90.3–144.1) |
| Jalisco | 3137.0 (2925.0–3342.8) | 65.0 (45.0–95.5) | 1870.0 (1755.0–1984.1) | 631.4 (579.7–681.2) | 280.5 (252.2–313.5) | 228.5 (201.4–250.1) | 122.5 (107.8–137.7) | 169.0 (153.5–187.3) | 24.7 (21.8–28.3) | 18.9 (16.5–21.5) | 5.5 (4.7–6.7) | 0.3 (0.1–0.7) | 52.3 (45.1–60.4) | 1.4 (1.0–1.8) | 9.1 (6.8–11.9) | 41.8 (35.5–48.3) | 3.2 (2.6–3.9) | 118.0 (95.7–148.4) | 15.6 (13.5–18.0) | 15.4 (9.5–23.9) | 20.1 (17.4–23.6) | 152.4 (121.1–186.3) |
| México | 2798.9 (2629.2–2959.8) | 66.5 (46.6–97.7) | 1734.2 (1631.4–1829.8) | 547.7 (510.2–590.1) | 237.1 (212.9–268.8) | 206.8 (184.5–227.4) | 103.9 (91.6–118.6) | 132.8 (122.2–141.1) | 19.9 (17.5–22.5) | 15.7 (13.7–17.8) | 4.0 (3.4–4.7) | 0.2 (0.1–0.6) | 26.2 (22.3–29.9) | 1.0 (0.7–1.2) | 2.1 (1.6–2.8) | 23.1 (19.5–26.7) | 2.6 (2.1–3.2) | 109.2 (87.8–139.3) | 8.0 (6.9–9.2) | 14.4 (9.9–23.5) | 11.6 (10.0–13.4) | 125.9 (100.3–154.0) |
| Mexico City | 2694.7 (2516.2–2854.8) | 20.7 (18.3–23.3) | 1636.0 (1521.4–1728.8) | 551.5 (507.2–598.2) | 239.0 (216.1–263.7) | 201.6 (181.3–222.6) | 110.9 (98.2–124.7) | 129.9 (117.9–139.2) | 25.8 (22.4–28.9) | 21.7 (18.9–24.5) | 3.9 (3.3–4.8) | 0.2 (0.1–0.6) | 31.6 (27.1–36.1) | 1.2 (0.9–1.6) | 3.1 (2.3–4.1) | 27.3 (23.2–31.3) | 2.7 (2.2–3.3) | 111.9 (91.2–144.5) | 15.3 (11.7–15.2) | 16.3 (10.7–24.9) | 12.1 (10.6–14.0) | 142.9 (113.4–177.3) |
| Michoacán de Ocampo | 3004.7 (2782.4–3191.5) | 64.3 (44.2–94.9) | 1910.5 (1771.7–2029.2) | 567.9 (517.4–618.2) | 254.7 (226.5–281.0) | 206.5 (180.6–231.1) | 106.7 (93.6–121.6) | 111.9 (100.8–124.2) | 20.4 (17.9–23.3) | 15.9 (13.8–18.3) | 4.3 (3.6–5.1) | 0.2 (0.1–0.6) | 43.7 (37.3–50.1) | 1.4 (1.1–1.8) | 3.5 (2.6–4.6) | 38.8 (33.0–44.4) | 3.4 (2.7–4.3) | 112.2 (90.2–142.3) | 9.7 (8.4–11.1) | 15.1 (9.5–24.5) | 14.5 (12.4–17.5) | 131.1 (104.0–158.6) |
| Morelos | 3330.0 (3100.5–3599.0) | 65.7 (46.7–95.8) | 2244.6 (2085.8–2421.0) | 585.4 (529.7–642.1) | 242.3 (216.4–271.4) | 216.5 (188.3–242.4) | 126.6 (109.5–145.2) | 103.8 (90.8–119.8) | 24.3 (21.0–27.9) | 19.4 (16.8–22.3) | 4.6 (3.9–5.6) | 0.2 (0.1–0.6) | 38.9 (33.1–45.4) | 1.5 (1.2–2.0) | 3.9 (2.8–5.2) | 33.5 (28.1–39.2) | 3.2 (2.5–3.9) | 112.4 (91.1–138.7) | 10.6 (9.1–12.2) | 15.8 (10.3–24.9) | 14.9 (12.6–17.8) | 110.4 (86.4–135.0) |
| Nayarit | 2737.9 (2544.5–2943.0) | 58.4 (38.6–88.3) | 1673.6 (1549.6–1796.3) | 542.5 (489.9–597.6) | 244.7 (217.5–277.5) | 195.1 (169.8–222.5) | 102.7 (87.2–118.4) | 137.2 (117.7–160.3) | 18.2 (15.5–21.1) | 14.4 (12.3–16.8) | 3.6 (2.9–4.5) | 0.2 (0.1–0.5) | 42.9 (35.2–50.7) | 1.4 (1.0–2.0) | 4.9 (3.6–6.5) | 36.6 (29.4–43.7) | 2.5 (2.0–3.2) | 117.5 (95.7–147.6) | 10.4 (8.9–12.1) | 14.5 (8.9–23.9) | 11.5 (9.5–13.9) | 108.8 (83.6–138.0) |
| Nuevo León | 3796.9 (3588.0–3992.9) | 9.8 (8.4–11.2) | 2541.9 (2382.0–2689.2) | 747.8 (685.6–805.1) | 320.7 (288.2–352.6) | 297.2 (266.2–326.8) | 129.9 (113.0–146.7) | 117.5 (105.6–131.5) | 29.3 (25.8–32.7) | 23.7 (20.8–26.5) | 5.5 (4.7–6.6) | 0.2 (0.1–0.6) | 43.3 (36.8–49.7) | 2.1 (1.5–2.7) | 3.8 (2.9–5.0) | 37.5 (31.7–43.3) | 2.5 (2.0–3.0) | 123.9 (103.0–153.7) | 14.0 (12.0–16.0) | 19.6 (14.2–28.4) | 14.2 (12.3–16.5) | 133.1 (106.0–164.0) |
| Oaxaca | 2942.3 (2733.9–3118.4) | 61.7 (42.0–92.2) | 1671.0 (1530.8–1783.4) | 721.9 (662.8–784.1) | 341.0 (307.5–375.3) | 260.9 (234.0–290.6) | 120.0 (105.7–135.5) | 167.0 (150.3–185.4) | 21.6 (19.0–24.7) | 16.6 (14.5–19.2) | 4.8 (4.0–5.7) | 0.3 (0.1–0.6) | 47.1 (39.5–54.1) | 1.8 (1.3–2.3) | 4.1 (3.1–5.4) | 41.2 (34.4–47.7) | 2.1 (1.7–2.6) | 117.1 (96.7–146.3) | 5.9 (5.1–6.7) | 13.5 (8.1–22.2) | 14.0 (12.0–16.6) | 99.3 (79.8–120.7) |
| Puebla | 3383.9 (3144.5–3567.2) | 63.5 (43.4–92.7) | 2237.2 (2103.7–2357.5) | 631.9 (579.1–686.3) | 272.9 (245.8–300.5) | 246.7 (222.3–272.6) | 112.3 (99.9–128.4) | 119.5 (107.3–132.5) | 19.5 (17.2–22.2) | 15.4 (13.6–17.4) | 3.9 (3.3–4.6) | 0.2 (0.1–0.7) | 45.5 (38.9–52.5) | 1.6 (1.2–2.1) | 5.1 (3.8–6.6) | 38.8 (33.0–44.8) | 2.4 (1.9–2.9) | 114.7 (95.1–143.8) | 6.5 (5.6–7.5) | 13.8 (8.2–22.3) | 13.2 (11.2–15.9) | 116.2 (92.5–140.6) |
| Querétaro | 2945.9 (2737.6–3160.6) | 65.0 (44.1–95.9) | 1814.8 (1688.0–1944.7) | 611.9 (553.9–664.0) | 264.2 (244.1–303.1) | 225.4 (198.4–254.1) | 113.1 (97.1–130.5) | 112.3 (95.8–128.7) | 20.7 (18.0–23.6) | 16.4 (14.0–18.8) | 4.4 (3.7–5.3) | 0.2 (0.1–0.6) | 36.1 (30.4–41.2) | 1.2 (0.9–1.6) | 5.7 (4.3–7.6) | 29.2 (24.4–33.7) | 2.9 (1.5–2.3) | 118.8 (96.3–148.6) | 10.4 (9.3–12.6) | 14.5 (8.1–23.7) | 11.5 (7.8–11.1) | 108.8 (104.6–159.3) |
| Quintana Roo | 3342.6 (3090.0–3594.5) | 63.7 (43.8–93.8) | 2013.0 (1825.2–2216.4) | 766.0 (688.2–861.8) | 365.4 (321.8–412.7) | 266.9 (229.9–309.4) | 133.8 (116.3–155.2) | 141.5 (119.8–167.0) | 24.1 (20.5–27.7) | 20.2 (17.2–23.4) | 3.6 (2.9–4.5) | 0.3 (0.1–0.6) | 54.9 (46.4–64.4) | 1.2 (0.8–1.7) | 7.4 (5.5–9.8) | 46.3 (38.2–55.3) | 3.9 (3.2–4.9) | 131.8 (108.8–159.7) | 12.5 (10.3–15.1) | 16.2 (10.5–24.8) | 13.7 (11.3–16.4) | 101.2 (79.9–128.4) |
| San Luis Potosí | 3089.1 (2882.7–3272.1) | 61.3 (41.8–92.5) | 1914.2 (1773.3–2037.6) | 570.2 (517.9–616.8) | 247.0 (223.7–273.7) | 209.7 (186.8–233.1) | 113.4 (100.1–127.9) | 178.7 (160.0–204.3) | 18.8 (16.5–21.4) | 15.3 (13.4–17.4) | 3.3 (2.7–4.0) | 0.2 (0.1–0.6) | 67.3 (57.5–76.8) | 1.3 (1.0–1.7) | 12.7 (9.7–16.5) | 53.3 (45.1–61.6) | 2.3 (1.9–2.9) | 115.6 (93.5–146.4) | 11.1 (9.7–12.7) | 16.5 (10.9–25.8) | 10.7 (9.1–12.5) | 122.4 (96.4–153.5) |
| Sinaloa | 2945.2 (2705.0–3143.4) | 7.2 (6.2–8.4) | 1968.9 (1812.1–2107.1) | 522.2 (474.4–567.8) | 252.3 (221.9–281.1) | 180.1 (157.1–202.4) | 89.8 (77.4–102.1) | 132.1 (118.1–150.8) | 21.6 (19.0–24.5) | 18.7 (16.5–21.3) | 2.8 (2.3–3.4) | 0.1 (0.03–0.4) | 38.6 (32.8–44.8) | 1.3 (1.0–1.7) | 4.4 (3.2–5.8) | 33.0 (27.7–38.3) | 1.6 (1.3–2.0) | 111.9 (89.6–140.6) | 12.6 (10.8–14.4) | 14.1 (8.8–22.9) | 9.6 (8.2–11.3) | 104.7 (80.8–133.2) |
| Sonora | 3985.3 (3710.7–4232.4) | 59.6 (40.4–92.0) | 2709.2 (2532.9–2867.4) | 657.9 (597.1–716.2) | 295.6 (265.5–328.4) | 245.2 (215.0–274.2) | 117.1 (102.7–133.3) | 177.1 (156.4–200.1) | 23.9 (20.9–27.2) | 19.4 (16.9–22.1) | 4.4 (3.7–5.3) | 0.1 (0.1–0.5) | 61.3 (51.9–70.2) | 2.2 (1.7–2.9) | 11.9 (8.9–16.0) | 47.1 (39.7–54.8) | 2.5 (2.0–2.9) | 120.2 (98.3–152.0) | 19.4 (16.7–22.2) | 16.6 (10.9–25.9) | 16.1 (13.6–19.1) | 121.6 (97.7–147.5) |
| Tabasco | 3647.4 (3383.0–3892.6) | 60.7 (40.1–89.4) | 2395.2 (2189.5–2557.0) | 684.6 (622.3–748.9) | 317.5 (284.3–347.9) | 238.1 (208.4–267.6) | 129.0 (111.7–147.7) | 157.4 (137.9–179.1) | 24.6 (21.2–28.3) | 20.0 (17.1–23.0) | 4.4 (3.7–5.3) | 0.2 (0.1–0.6) | 68.9 (58.4–80.2) | 1.5 (1.1–2.0) | 4.6 (3.3–6.1) | 62.8 (52.9–72.7) | 3.7 (2.9–4.5) | 116.0 (94.1–145.0) | 10.1 (8.6–11.7) | 15.0 (9.5–23.8) | 12.8 (11.0–15.1) | 98.5 (78.6–119.9) |
| Tamaulipas | 3363.7 (3147.3–3586.6) | 59.1 (39.4–90.8) | 2273.2 (2112.2–2434.7) | 601.9 (551.2–651.7) | 259.6 (231.5–284.4) | 234.0 (207.6–262.3) | 108.4 (95.4–122.0) | 119.1 (106.1–133.1) | 17.5 (15.3–20.0) | 14.6 (12.6–16.8) | 2.7 (2.3–3.4) | 0.2 (0.1–0.5) | 41.8 (35.9–48.5) | 1.5 (1.1–2.0) | 2.6 (2.0–3.5) | 37.7 (32.4–43.6) | 1.8 (1.5–2.2) | 115.1 (92.0–145.0) | 9.9 (8.4–11.4) | 17.7 (12.2–26.0) | 11.1 (9.4–13.1) | 95.4 (75.4–119.3) |
| Tlaxcala | 2835.5 (2604.0–3039.3) | 66.8 (46.3–97.6) | 1764.4 (1632.7–1905.5) | 565.9 (502.2–632.2) | 244.5 (210.3–281.4) | 218.3 (184.7–250.1) | 103.1 (87.4–118.7) | 118.6 (101.7–138.8) | 20.2 (17.3–23.5) | 15.1 (12.8–17.8) | 4.9 (4.0–6.0) | 0.2 (0.1–0.6) | 28.3 (23.4–33.3) | 1.3 (0.9–2.0) | 2.2 (1.7–3.0) | 24.7 (19.9–29.3) | 2.3 (1.8–2.9) | 115.3 (93.6–147.7) | 5.6 (4.7–6.5) | 14.1 (8.7–23.0) | 12.3 (10.2–15.0) | 121.8 (94.5–148.4) |
| Veracruz de Ignacio de la Llave | 3441.6 (3223.6–3632.9) | 59.7 (40.0–90.7) | 2243.3 (2111.1–2376.0) | 684.6 (632.3–739.1) | 319.2 (288.5–351.1) | 239.6 (212.1–266.5) | 125.8 (112.0–142.6) | 128.6 (117.5–137.4) | 21.1 (18.4–23.6) | 16.9 (14.6–19.1) | 3.9 (3.3–4.7) | 0.2 (0.1–0.6) | 46.0 (39.2–53.2) | 1.6 (1.2–2.1) | 5.5 (4.1–7.1) | 39.0 (33.3–45.3) | 2.0 (1.4–2.4) | 117.1 (95.0–145.8) | 9.2 (8.1–10.6) | 16.7 (11.1–25.2) | 13.3 (11.4–15.5) | 99.9 (81.5–121.3) |
| Yucatán | 3705.8 (3419.7–3977.5) | 60.9 (41.6–91.6) | 2511.5 (2293.6–2716.7) | 736.9 (666.5–805.2) | 345.9 (312.8–381.8) | 265.4 (232.9–302.3) | 125.7 (110.4–143.0) | 77.2 (66.1–89.2) | 21.4 (18.7–24.2) | 18.4 (16.0–21.0) | 2.9 (2.4–3.5) | 0.1 (0.04–0.5) | 47.4 (39.7–55.2) | 2.4 (1.8–3.2) | 5.0 (3.7–6.5) | 40.0 (33.9–46.6) | 1.7 (1.4–2.1) | 119.8 (98.8–151.8) | 7.3 (6.1–8.4) | 16.5 (11.0–25.3) | 12.2 (10.4–14.5) | 93.1 (73.2–116.7) |
| Zacatecas | 2992.0 (2771.9–3247.0) | 65.2 (45.6–95.9) | 1809.1 (1648.9–1963.4) | 601.3 (548.0–656.6) | 262.6 (233.5–293.6) | 223.2 (199.1–251.7) | 115.5 (101.0–131.2) | 135.6 (118.0–155.4) | 19.6 (16.8–22.6) | 14.5 (12.4–17.0) | 4.9 (4.1–6.1) | 0.2 (0.1–0.5) | 42.0 (35.4–48.7) | 1.6 (1.2–2.0) | 3.5 (2.5–4.7) | 36.9 (31.5–42.8) | 3.2 (2.5–4.0) | 124.0 (102.3–154.5) | 10.6 (9.3–12.2) | 15.8 (10.0–24.9) | 16.6 (13.9–19.8) | 148.9 (117.6–183.2) |
| Nicaragua | 3607.5 (3228.7–4019.3) | 67.0 (44.9–96.5) | 2103.9 (1859.2–2337.8) | 826.9 (718.4–952.4) | 339.7 (291.4–404.7) | 356.1 (290.6–425.8) | 131.1 (98.8–166.6) | 249.2 (201.8–305.1) | 13.8 (9.8–18.0) | 9.8 (6.9–12.7) | 3.5 (2.0–5.1) | 0.5 (0.2–1.0) | 68.5 (51.0–90.5) | 1.4 (0.7–2.3) | 4.8 (2.1–10.0) | 62.3 (46.2–82.5) | 2.8 (1.2–10.1) | 126.4 (103.2–157.6) | 9.9 (7.1–13.1) | 11.3 (6.2–19.5) | 20.2 (14.5–25.5) | 107.5 (80.7–134.2) |
| Panama | 3010.5 (2759.9–3207.0) | 60.1 (40.9–87.2) | 1400.9 (1288.6–1516.1) | 936.3 (845.1–1015.1) | 419.5 (372.7–465.4) | 369.8 (329.7–408.8) | 

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distrito Federal | 2526.7 (2300.3–2733.8) | 44.6 (38.1–51.7) | 908.7 (819.4–989.6) | 835.3 (757.6–909.7) | 397.1 (344.5–443.6) | 293.3 (258.3–326.8) | 144.9 (127.6–164.7) | 155.3 (134.6–177.0) | 43.8 (37.4–50.5) | 29.6 (24.9–34.4) | 13.2 (11.0–16.1) | 1.0 (0.5–2.2) | 144.5 (125.0–165.9) | 2.8 (2.2–3.6) | 23.9 (17.6–31.7) | 117.7 (98.9–136.2) | 5.5 (4.5–6.8) | 106.3 (84.4–139.0) | 102.0 (87.7–116.8) | 29.7 (24.7–37.5) | 30.2 (25.8–35.2) | 120.8 (95.8–149.7) |
| Espírito Santo | 3366.7 (3066.5–3608.5) | 89.9 (69.5–120.5) | 1291.5 (1169.1–1393.3) | 969.9 (874.9–1042.9) | 494.5 (440.1–546.6) | 320.9 (285.6–354.4) | 154.5 (135.1–172.1) | 324.2 (289.1–360.1) | 55.3 (49.2–62.6) | 35.0 (30.1–40.2) | 19.2 (16.3–22.8) | 1.1 (0.4–2.1) | 174.4 (150.6–199.1) | 5.1 (4.0–6.3) | 49.8 (38.8–62.8) | 119.5 (102.7–139.9) | 7.2 (6.0–8.9) | 122.4 (97.8–156.1) | 95.7 (83.9–107.6) | 41.2 (34.6–49.0) | 40.6 (34.9–47.2) | 154.5 (122.4–187.1) |
| Goiás | 3489.8 (3244.2–3739.7) | 96.1 (75.0–126.0) | 1448.2 (1333.8–1548.9) | 1044.4 (962.6–1126.5) | 460.2 (405.1–511.1) | 419.3 (376.9–458.7) | 164.9 (146.9–183.0) | 216.7 (191.0–244.2) | 50.3 (44.5–57.0) | 34.0 (29.4–38.7) | 15.3 (12.9–18.2) | 0.9 (0.4–2.0) | 181.7 (159.6–206.8) | 5.1 (4.1–6.5) | 23.8 (18.3–30.7) | 152.7 (132.8–173.8) | 9.4 (7.8–11.3) | 119.8 (96.8–153.5) | 100.7 (91.3–111.6) | 25.8 (21.1–33.1) | 37.1 (31.7–43.0) | 159.7 (127.1–192.6) |
| Maranhão | 4306.1 (3944.6–4649.3) | 88.2 (66.1–115.3) | 1726.8 (1557.0–1908.4) | 1609.7 (1427.1–1797.7) | 708.4 (614.9–804.0) | 645.5 (560.0–741.1) | 255.8 (216.8–294.5) | 327.4 (284.8–378.2) | 39.7 (32.8–46.7) | 26.3 (21.6–31.8) | 12.3 (9.8–14.9) | 1.1 (0.4–2.1) | 127.5 (105.1–152.6) | 4.3 (2.8–6.3) | 19.7 (14.0–26.6) | 103.5 (85.6–124.6) | 9.2 (6.9–12.3) | 112.9 (91.0–142.7) | 74.6 (62.5–88.4) | 26.1 (20.4–33.6) | 28.7 (23.9–33.8) | 135.4 (114.3–161.0) |
| Mato Grosso | 3496.5 (3231.4–3724.1) | 87.7 (67.1–116.9) | 1393.1 (1274.6–1501.5) | 1069.4 (968.2–1179.0) | 526.3 (465.1–589.0) | 376.0 (330.9–424.6) | 167.1 (144.1–189.8) | 314.4 (278.0–353.7) | 47.4 (40.1–54.7) | 31.3 (26.1–36.4) | 15.3 (12.8–18.3) | 0.8 (0.4–2.0) | 137.6 (117.6–159.8) | 6.7 (5.1–8.4) | 14.7 (10.8–19.1) | 116.3 (99.0–133.3) | 8.8 (7.1–11.1) | 133.3 (107.6–164.7) | 87.9 (74.9–102.3) | 24.7 (19.4–31.8) | 34.6 (29.7–39.7) | 157.6 (129.2–192.0) |
| Mato Grosso do Sul | 4043.7 (3696.8–4328.8) | 88.0 (68.0–118.5) | 1774.3 (1605.8–1915.8) | 1195.4 (1089.6–1289.1) | 535.7 (473.4–589.6) | 459.9 (411.9–500.8) | 199.8 (177.8–223.2) | 289.6 (252.1–326.7) | 58.6 (51.0–66.8) | 39.2 (33.4–44.9) | 18.7 (15.5–22.3) | 0.7 (0.3–2.1) | 170.1 (148.4–194.8) | 4.4 (3.4–5.8) | 31.4 (24.2–40.4) | 134.2 (115.0–154.3) | 9.7 (8.0–11.8) | 132.0 (107.7–163.3) | 102.7 (88.9–117.3) | 32.7 (26.8–40.4) | 45.5 (38.7–53.1) | 145.1 (119.3–171.0) |
| Minas Gerais | 3090.9 (2856.2–3291.5) | 94.6 (74.4–127.9) | 1105.4 (1016.0–1183.9) | 1060.9 (976.2–1129.6) | 439.6 (390.5–483.1) | 439.9 (400.9–478.8) | 181.4 (162.5–199.7) | 190.2 (167.0–212.0) | 47.3 (42.7–51.5) | 33.6 (29.6–36.9) | 12.9 (11.5–14.7) | 0.8 (0.4–2.1) | 125.8 (109.2–143.1) | 3.9 (3.2–4.9) | 16.5 (12.2–21.2) | 105.4 (91.9–119.9) | 10.0 (8.3–12.0) | 126.5 (102.3–158.9) | 73.2 (66.8–80.4) | 36.4 (31.0–44.7) | 44.3 (39.5–50.5) | 176.2 (142.2–214.5) |
| Pará | 3478.7 (3198.1–3706.9) | 81.7 (61.8–111.4) | 1399.7 (1270.9–1499.6) | 1254.8 (1157.2–1340.5) | 626.3 (553.2–686.2) | 463.8 (420.8–502.9) | 164.7 (146.5–182.9) | 214.4 (184.3–245.0) | 44.6 (39.3–50.8) | 28.3 (24.2–32.5) | 15.0 (12.5–17.8) | 1.3 (0.4–2.3) | 111.1 (96.8–125.3) | 4.0 (3.1–5.1) | 10.4 (7.8–13.6) | 96.8 (82.4–111.1) | 12.2 (10.0–14.6) | 122.7 (99.9–156.1) | 50.1 (43.3–56.8) | 18.8 (14.2–25.6) | 31.5 (27.4–36.8) | 136.8 (108.8–167.2) |
| Paraíba | 3553.1 (3281.2–3801.0) | 92.7 (69.5–120.5) | 1503.5 (1381.7–1624.4) | 1084.8 (974.4–1191.2) | 428.6 (368.2–484.4) | 486.0 (432.0–539.0) | 170.3 (147.8–195.3) | 286.3 (249.3–327.2) | 35.5 (30.1–40.5) | 22.7 (18.9–26.5) | 11.8 (9.8–14.0) | 1.0 (0.4–2.0) | 169.2 (145.2–197.0) | 3.7 (2.8–4.9) | 20.4 (14.8–27.4) | 145.0 (124.5–169.0) | 11.0 (8.7–13.8) | 119.9 (97.1–151.9) | 55.6 (47.3–64.7) | 26.0 (20.7–32.9) | 31.0 (26.7–35.2) | 137.6 (114.1–166.6) |
| Paraná | 3188.3 (2925.8–3386.6) | 43.8 (39.0–47.9) | 1188.8 (1091.2–1266.5) | 1126.2 (1027.1–1196.9) | 586.7 (520.0–644.3) | 377.1 (337.7–413.2) | 162.3 (145.2–179.8) | 219.7 (191.9–245.1) | 58.6 (52.8–64.5) | 40.5 (35.7–45.0) | 17.1 (14.7–19.6) | 1.0 (0.4–2.1) | 111.0 (96.5–126.6) | 6.5 (5.1–8.1) | 13.1 (9.8–16.9) | 91.5 (79.3–105.8) | 8.9 (7.3–10.8) | 133.6 (108.1–169.0) | 80.6 (73.0–87.8) | 39.0 (32.9–46.4) | 32.1 (28.0–36.6) | 145.9 (114.6–174.0) |
| Pernambuco | 3846.3 (3568.5–4072.0) | 97.7 (76.7–126.0) | 1639.8 (1508.5–1759.2) | 1211.7 (1110.5–1311.8) | 494.5 (434.9–548.9) | 536.2 (482.1–592.3) | 181.0 (157.0–207.5) | 269.2 (239.4–302.7) | 51.0 (44.2–58.2) | 32.0 (27.5–37.3) | 18.1 (15.3–21.2) | 0.9 (0.4–1.9) | 124.8 (107.5–143.9) | 2.6 (2.0–3.5) | 18.3 (13.8–24.3) | 103.9 (88.6–119.4) | 5.5 (4.4–7.0) | 117.1 (94.9–148.1) | 96.6 (85.2–110.1) | 45.4 (38.4–54.1) | 31.4 (27.1–36.0) | 156.0 (129.8–188.4) |
| Piauí | 3669.3 (3342.1–3945.5) | 78.4 (56.8–108.6) | 1424.3 (1274.7–1562.4) | 1327.9 (1181.3–1486.7) | 602.3 (513.9–691.8) | 515.4 (442.9–599.4) | 210.3 (179.5–240.0) | 345.1 (297.7–394.7) | 33.5 (28.3–39.7) | 21.0 (17.2–25.4) | 11.7 (9.5–14.1) | 0.8 (0.3–1.8) | 115.1 (95.0–137.2) | 3.5 (2.3–5.2) | 15.5 (10.8–20.9) | 96.1 (78.9–113.6) | 7.3 (5.5–9.6) | 122.4 (97.9–154.7) | 41.9 (34.3–50.7) | 19.7 (15.0–27.1) | 33.0 (27.4–38.7) | 120.6 (100.5–147.2) |
| Rio de Janeiro | 3989.5 (3728.9–4193.1) | 34.8 (31.1–38.4) | 1664.9 (1534.0–1756.1) | 1337.4 (1242.1–1416.5) | 509.3 (456.5–561.4) | 615.7 (566.3–669.9) | 212.4 (189.9–235.4) | 236.7 (208.2–261.7) | 46.2 (42.0–50.3) | 31.3 (27.8–34.7) | 14.1 (12.5–16.0) | 0.7 (0.3–2.2) | 186.7 (163.4–212.9) | 3.8 (3.1–4.8) | 14.3 (9.9–19.1) | 168.7 (147.5–193.3) | 7.4 (6.0–9.0) | 126.6 (101.4–160.1) | 77.6 (71.0–83.2) | 38.0 (32.3–46.4) | 42.7 (37.5–48.7) | 190.7 (157.4–225.3) |
| Rio Grande do Norte | 3359.1 (3045.7–3622.0) | 89.0 (68.1–117.3) | 1592.8 (1439.6–1762.1) | 879.6 (772.0–985.9) | 419.6 (360.9–479.3) | 326.6 (278.4–375.9) | 133.4 (112.6–154.5) | 262.4 (228.8–305.0) | 40.0 (33.5–46.4) | 26.8 (22.5–32.3) | 12.1 (9.9–14.9) | 1.0 (0.4–2.0) | 95.3 (80.6–112.2) | 3.6 (2.5–4.9) | 14.1 (10.0–19.4) | 77.6 (65.3–92.0) | 6.5 (5.0–8.5) | 119.8 (95.8–153.2) | 79.2 (66.4–93.8) | 23.2 (18.0–30.4) | 32.4 (26.8–38.2) | 138.8 (112.9–170.0) |
| Rio Grande do Sul | 3059.3 (2822.9–3267.0) | 28.7 (25.6–31.8) | 1195.9 (1097.5–1273.9) | 1041.3 (961.4–1123.5) | 577.0 (513.6–635.3) | 330.2 (300.7–364.0) | 134.1 (120.4–148.9) | 214.6 (188.2–238.1) | 61.4 (55.4–67.4) | 44.0 (38.7–48.9) | 16.4 (14.3–18.5) | 1.0 (0.5–2.1) | 84.4 (74.4–95.6) | 3.9 (3.1–4.9) | 13.5 (10.0–17.4) | 67.0 (58.8–77.5) | 6.8 (5.6–8.1) | 135.1 (110.6–172.4) | 81.7 (75.0–88.4) | 33.0 (27.1–40.6) | 35.4 (30.7–41.1) | 140.9 (110.9–171.4) |
| Rondônia | 3558.0 (3255.2–3837.2) | 91.7 (69.7–120.9) | 1381.4 (1247.9–1507.4) | 1216.4 (1101.5–1337.0) | 569.7 (508.6–641.4) | 460.4 (408.4–509.9) | 186.2 (161.8–210.6) | 307.8 (266.4–347.4) | 49.7 (42.6–56.9) | 34.1 (28.8–39.5) | 14.6 (12.1–17.4) | 1.1 (0.4–1.9) | 117.7 (100.6–137.4) | 3.4 (2.5–4.5) | 12.2 (8.5–16.1) | 102.1 (86.7–118.4) | 7.6 (6.1–9.5) | 132.9 (108.2–163.6) | 57.9 (49.0–68.2) | 22.3 (17.4–28.8) | 36.2 (30.7–41.9) | 136.6 (113.3–166.7) |
| Roraima | 3728.5 (3380.3–4079.8) | 81.5 (60.6–110.6) | 1401.1 (1207.6–1568.7) | 1264.4 (1123.6–1460.4) | 605.9 (527.6–701.6) | 480.0 (408.7–570.7) | 178.5 (153.3–208.6) | 310.1 (268.0–357.1) | 42.9 (35.3–50.7) | 31.6 (25.6–37.9) | 10.2 (8.0–12.7) | 1.1 (0.4–2.0) | 226.8 (194.3–270.9) | 6.2 (4.3–8.9) | 23.9 (16.8–32.4) | 196.7 (168.0–232.1) | 11.6 (8.9–15.0) | 126.8 (102.5–159.1) | 65.1 (55.5–77.0) | 25.1 (19.9–32.8) | 29.7 (24.6–35.9) | 143.3 (118.6–169.6) |
| Santa Catarina | 3070.9 (2823.4–3278.3) | 36.0 (31.1–38.8) | 1227.4 (1116.4–1310.9) | 929.5 (848.2–996.5) | 472.3 (412.8–524.9) | 321.9 (291.9–353.7) | 135.2 (122.1–149.1) | 209.5 (183.9–235.4) | 66.4 (59.1–73.5) | 48.6 (42.3–54.3) | 17.3 (14.6–19.5) | 0.8 (0.4–2.1) | 117.0 (101.8–131.8) | 5.4 (4.1–6.7) | 13.3 (9.8–16.2) | 117.0 (101.2–132.7) | 7.6 (6.3–9.2) | 128.8 (103.4–166.1) | 98.5 (88.6–108.2) | 31.8 (26.4–39.2) | 37.8 (32.5–43.9) | 163.3 (128.2–203.8) |
| São Paulo | 3707.0 (3467.0–3902.8) | 35.4 (31.7–38.7) | 1601.1 (1498.3–1694.1) | 981.9 (904.5–1043.7) | 458.0 (410.7–504.5) | 357.7 (327.4–390.9) | 166.2 (151.6–181.4) | 227.1 (183.2–227.4) | 50.4 (45.7–55.2) | 34.7 (31.0–38.2) | 14.9 (13.3–16.4) | 0.8 (0.4–2.2) | 301.8 (266.4–341.9) | 4.5 (3.6–5.5) | 12.3 (8.8–16.4) | 285.0 (251.7–322.8) | 9.3 (7.8–11.0) | 128.0 (102.8–162.7) | 128.6 (118.5–136.5) | 33.7 (28.2–41.9) | 37.8 (35.1–40.9) | 193.6 (162.2–228.6) |
| Sergipe | 3352.5 (3032.6–3605.5) | 96.8 (74.7–125.8) | 1183.3 (1073.2–1290.5) | 1261.8 (1139.0–1377.7) | 552.8 (477.3–622.7) | 529.9 (472.1–585.8) | 179.1 (154.8–204.4) | 227.1 (197.8–259.3) | 35.1 (29.7–40.6) | 21.7 (18.2–26.3) | 12.5 (10.5–15.0) | 0.8 (0.4–2.0) | 121.5 (103.3–142.7) | 2.8 (2.1–3.5) | 16.7 (12.3–22.0) | 102.1 (84.9–120.1) | 10.5 (8.4–13.4) | 126.3 (102.0–157.1) | 45.0 (37.5–53.4) | 29.3 (23.3–36.6) | 38.7 (33.2–44.3) | 177.1 (143.3–219.7) |
| Tocantins | 3698.1 (3367.8–4035.7) | 88.0 (67.2–114.1) | 1381.7 (1258.2–1530.2) | 1280.1 (1147.3–1405.1) | 583.1 (500.3–654.9) | 500.4 (448.7–561.1) | 196.7 (168.7–224.7) | 352.5 (311.8–404.5) | 50.3 (42.9–58.9) | 28.8 (24.0–34.7) | 20.5 (16.9–24.6) | 1.0 (0.4–1.9) | 133.7 (113.3–156.4) | 5.3 (3.9–7.2) | 24.3 (17.9–32.2) | 104.2 (87.5–123.3) | 7.6 (6.0–9.6) | 123.3 (100.1–153.0) | 80.8 (68.4–94.2) | 25.5 (20.6–33.0) | 30.1 (25.3–35.6) | 144.4 (119.5–174.5) |
| Paraguay | 4523.7 (4090.2–4991.7) | 78.2 (56.8–110.5) | 2028.6 (1819.7–2315.4) | 1483.7 (1301.2–1662.3) | 681.4 (586.1–790.9) | 602.6 (506.2–722.2) | 199.8 (162.0–238.0) | 372.5 (285.2–451.8) | 70.7 (51.0–91.7) | 53.6 (36.6–70.9) | 16.2 (9.3–26.7) | 0.9 (0.5–1.4) | 94.8 (72.3–119.2) | 2.7 (1.4–4.0) | 5.2 (2.3–13.7) | 87.0 (66.8–111.2) | 2.8 (1.5–8.2) | 156.0 (128.0–195.1) | 69.5 (54.0–86.4) | 16.7 (11.8–24.1) | 39.4 (28.7–51.5) | 110.8 (87.4–137.3) |
| **North Africa and Middle East** | **7342.6 (6630.7–7991.4)** | **97.0 (70.4–132.6)** | **3992.1 (3530.9–4465.7)** | **1967.6 (1629.1–2369.6)** | **1259.6 (1013.5–1555.6)** | **618.2 (450.8–854.5)** | **89.9 (68.8–124.7)** | **699.9 (549.4–898.3)** | **43.2 (31.3–58.3)** | **20.6 (13.1–28.3)** | **19.7 (12.4–31.9)** | **2.8 (1.5–4.9)** | **91.6 (59.9–139.4)** | **7.6 (3.8–13.0)** | **0.3 (0.2–1.1)** | **83.7 (55.0–130.3)** | **15.6 (9.4–24.9)** | **87.3 (68.6–108.7)** | **21.0 (17.0–25.0)** | **11.7 (8.2–16.8)** | **19.3 (14.5–26.3)** | **296.4 (229.0–365.8)** |
| North Africa and Middle East | 7342.6 (6630.7–7991.4) | 97.0 (70.4–132.6) | 3992.1 (3530.9–4465.7) | 1967.6 (1629.1–2369.6) | 1259.6 (1013.5–1555.6) | 618.2 (450.8–854.5) | 89.9 (68.8–124.7) | 699.9 (549.4–898.3) | 43.2 (31.3–58.3) | 20.6 (13.1–28.3) | 19.7 (12.4–31.9) | 2.8 (1.5–4.9) | 91.6 (59.9–139.4) | 7.6 (3.8–13.0) | 0.3 (0.2–1.1) | 83.7 (55.0–130.3) | 15.6 (9.4–24.9) | 87.3 (68.6–108.7) | 21.0 (17.0–25.0) | 11.7 (8.2–16.8) | 19.3 (14.5–26.3) | 296.4 (229.0–365.8) |
| Afghanistan | 11908.9 (10555.9–13418.6) | 205.5 (105.3–339.1) | 4919.6 (3674.2–6490.5) | 5147.1 (4023.1–6433.7) | 3231.2 (2355.3–4320.4) | 1809.8 (1190.7–2744.3) | 106.1 (43.8–233.2) | 1061.1 (521.3–2125.4) | 30.3 (19.5–47.5) | 11.4 (6.0–17.9) | 18.2 (10.4–30.6) | 0.7 (0.3–1.6) | 124.3 (45.0–246.9) | 24.1 (8.7–51.1) | 0.5 (0.1–2.1) | 99.7 (33.8–205.0) | 29.0 (12.1–53.9) | 66.0 (48.4–86.9) | 4.0 (2.0–7.9) | 8.3 (4.7–13.3) | 21.1 (11.4–32.8) | 292.6 (175.6–507.8) |
| Algeria | 6843.1 (5719.6–8277.8) | 84.3 (58.0–120.2) | 3703.6 (2941.7–4568.1) | 1726.3 (1215.1–2349.2) | 1128.5 (741.5–1692.0) | 516.4 (318.2–849.2) | 81.4 (49.5–129.2) | 777.9 (459.2–1230.3) | 48.2 (30.0–76.1) | 25.9 (14.4–41.5) | 20.6 (11.5–36.4) | 1.6 (0.7–3.6) | 82.9 (44.2–155.0) | 5.3 (2.2–10.0) | 0.3 (0.1–1.2) | 77.3 (41.4–145.0) | 10.8 (5.3–22.0) | 88.5 (64.8–117.5) | 10.5 (5.5–17.3) | 10.3 (6.6–15.0) | 16.1 (9.6–25.3) | 283.9 (200.8–383.6) |
| Bahrain | 3929.0 (3361.7–4465.1) | 14.5 (9.9–20.7) | 2305.3 (1986.0–2668.9) | 917.1 (746.0–1118.4) | 555.6 (428.9–699.2) | 303.6 (233.8–404.4) | 57.9 (40.9–77.6) | 287.7 (201.2–383.3) | 28.1 (19.8–39.4) | 20.3 (14.0–29.4) | 1.2 (4.6–12.5) | 0.4 (0.1–0.3) | 88.9 (57.0–120.4) | 1.2 (0.6–1.9) | 2.4 (1.1–6.4) | 85.3 (54.9–116.2) | 3.5 (1.9–8.5) | 89.2 (67.1–116.0) | 13.3 (8.8–19.1) | 29.5 (21.9–39.1) | 12.4 (8.5–17.1) | 139.5 (102.3–178.7) |
| Egypt | 13879.5 (12107.0–15442.7) | 194.6 (144.8–253.1) | 8537.5 (7367.2–9782.4) | 2813.5 (2178.5–3683.2) | 2005.3 (1592.5–2657.7) | 719.1 (474.8–1152.9) | 89.1 (59.2–139.5) | 1420.6 (971.4–1903.9) | 52.2 (34.9–74.8) | 21.6 (12.8–32.8) | 25.2 (15.2–40.2) | 5.3 (2.4–9.9) | 114.9 (66.6–175.9) | 1.5 (0.7–2.7) | 0.04 (0.01–0.1) | 113.4 (65.4–173.5) | 23.7 (13.2–41.1) | 96.0 (76.7–119.1) | 13.2 (9.1–19.2) | 8.7 (5.4–13.8) | 24.4 (16.6–34.7) | 580.3 (447.4–733.7) |
| Iran (Islamic Republic of) | 4211.9 (3589.8–4770.2) | 49.5 (37.0–67.3) | 2345.9 (1955.9–2711.6) | 919.1 (768.3–1127.4) | 690.9 (573.0–841.2) | 181.1 (131.2–266.2) | 47.1 (34.0–60.4) | 442.1 (342.4–551.5) | 29.0 (19.9–41.4) | 10.6 (6.7–15.4) | 14.2 (8.6–24.5) | 4.2 (1.7–8.4) | 48.7 (31.2–68.6) | 3.4 (1.7–5.8) | 0.1 (0.1–0.1) | 45.2 (27.2–64.5) | 13.8 (7.7–23.4) | 81.8 (64.4–105.3) | 12.3 (7.6–17.8) | 8.8 (5.3–13.9) | 10.5 (7.4–15.1) | 250.4 (180.4–324.5) |
| Alborz | 4279.4 (3480.1–4975.2) | 22.1 (14.3–32.3) | 2768.1 (2254.4–3253.9) | 838.9 (624.2–1058.5) | 657.0 (467.9–846.4) | 142.9 (99.0–216.2) | 39.0 (25.9–56.4) | 314.9 (228.9–468.9) | 19.6 (11.3–35.6) | 7.2 (4.2–12.3) | 10.6 (5.3–21.9) | 1.8 (0.6–4.3) | 34.8 (21.6–50.4) | 1.8 (1.0–3.0) | 0.04 (0.03–0.1) | 32.9 (20.5–47.7) | 10.2 (6.0–17.8) | 81.0 (58.1–105.2) | 15.2 (6.4–22.7) | 7.8 (4.3–13.1) | 6.1 (3.6–10.2) | 160.8 (110.0–236.6) |
| Ardebil | 5545.4 (4679.5–6291.5) | 63.3 (45.3–85.3) | 3062.1 (2522.3–3586.1) | 1110.1 (907.7–1362.5) | 850.6 (684.9–1084.4) | 218.1 (157.1–324.3) | 41.4 (26.2–62.9) | 556.1 (432.1–687.4) | 39.0 (25.8–56.7) | 15.3 (8.8–25.9) | 16.3 (8.6–31.4) | 7.4 (1.4–17.7) | 31.8 (15.9–63.5) | 2.4 (1.2–4.1) | 0.04 (0.03–0.1) | 29.4 (14.4–60.2) | 14.3 (7.6–25.1) | 86.3 (64.3–112.6) | 7.2 (4.6–10.4) | 7.6 (4.3–13.1) | 4.1 (1.5–11.8) | 563.6 (376.3–734.4) |
| Bushehr | 4783.3 (3963.3–5465.8) | 18.6 (12.0–27.7) | 2674.6 (2209.1–3120.5) | 1228.9 (966.2–1573.7) | 1044.5 (793.2–1312.9) | 147.2 (100.3–231.5) | 37.2 (22.7–57.2) | 440.5 (328.1–611.3) | 25.9 (16.8–41.8) | 4.6 (2.4–10.1) | 14.6 (7.2–30.0) | 6.7 (2.1–12.9) | 32.7 (17.7–56.1) | 1.6 (0.7–3.4) | 0.04 (0.03–0.1) | 31.1 (16.6–52.8) | 16.9 (8.9–29.2) | 90.1 (68.5–116.2) | 6.4 (4.4–9.6) | 21.1 (13.4–29.0) | 4.3 (1.8–11.2) | 223.2 (156.3–306.8) |
| Chahar Mahaal and Bakhtiari | 5046.9 (4261.3–5774.4) | 98.2 (29.0–156.3) | 2966.0 (2465.6–3458.8) | 917.2 (740.8–1209.8) | 727.4 (567.0–947.4) | 146.4 (102.6–227.6) | 43.4 (29.4–60.6) | 518.6 (387.4–666.3) | 38.2 (25.9–54.6) | 13.2 (7.5–21.0) | 20.2 (12.0–34.2) | 4.8 (1.1–12.1) | 54.8 (32.9–78.8) | 2.1 (0.8–4.2) | 0.1 (0.04–0.1) | 52.6 (30.6–75.5) | 13.6 (7.1–25.2) | 83.2 (62.9–107.7) | 12.5 (6.6–19.2) | 6.6 (3.5–11.8) | 24.4 (9.8–37.4) | 293.5 (213.2–375.0) |
| East Azarbayejan | 5102.9 (4291.0–5830.0) | 73.9 (53.7–101.6) | 2566.1 (2045.8–3158.8) | 1071.2 (853.3–1357.2) | 802.9 (631.7–1035.3) | 215.6 (153.8–388.4) | 52.7 (36.6–70.9) | 845.3 (513.0–1139.7) | 38.4 (27.7–54.3) | 14.6 (9.0–22.0) | 18.9 (11.5–31.0) | 5.0 (2.1–10.3) | 67.2 (43.4–95.3) | 0.1 (0.1–0.1) | 0.1 (0.1–0.1) | 63.2 (39.4–89.8) | 13.1 (7.3–22.7) | 100.6 (77.1–128.2) | 30.9 (14.7–45.5) | 10.7 (5.3–14.5) | 10.7 (7.4–15.2) | 276.4 (198.8–373.8) |
| Fars | 3834.4 (3172.0–4463.8) | 54.2 (38.8–74.5) | 2017.4 (1637.7–2355.9) | 884.8 (707.6–1086.1) | 696.9 (546.1–849.5) | 155.3 (109.4–232.2) | 32.6 (22.0–45.8) | 479.3 (304.8–552.3) | 23.0 (16.0–32.2) | 7.9 (4.9–11.1) | 10.6 (6.2–19.3) | 4.5 (1.4–9.4) | 34.4 (19.9–53.0) | 1.9 (0.9–3.4) | 0.04 (0.02–0.1) | 32.5 (18.3–49.9) | 13.0 (7.0–22.8) | 84.8 (64.1–112.3) | 5.0 (3.3–7.2) | 7.1 (4.1–12.1) | 7.5 (4.9–12.3) | 273.8 (204.3–345.0) |
| Gilan | 4379.6 (3615.3–5062.0) | 21.4 (14.3–30.8) | 2482.4 (2052.1–2908.7) | 978.9 (754.0–1208.8) | 743.6 (565.3–906.6) | 191.7 (144.0–282.2) | 43.6 (31.1–57.2) | 479.2 (318.3–618.1) | 19.3 (11.3–34.7) | 6.4 (3.2–13.4) | 10.1 (5.3–20.7) | 2.8 (1.3–4.8) | 20.1 (10.1–42.6) | 1.0 (0.5–2.4) | 0.02 (0.02–0.03) | 19.0 (9.4–40.3) | 11.8 (7.0–20.3) | 84.9 (64.6–112.3) | 4.9 (3.1–7.9) | 7.0 (3.7–12.3) | 4.6 (2.5–9.4) | 265.1 (200.7–338.8) |
| Golestan | 5197.7 (4366.2–5919.5) | 64.4 (46.5–85.6) | 3010.1 (2512.2–3477.2) | 1123.0 (912.6–1371.9) | 918.1 (730.8–1147.5) | 165.4 (117.5–241.3) | 39.5 (26.5–54.8) | 461.6 (344.4–565.1) | 26.0 (17.4–39.2) | 7.6 (4.2–12.5) | 14.4 (8.5–24.9) | 4.0 (1.3–9.0) | 31.8 (16.0–55.6) | 2.4 (1.2–4.2) | 0.02 (0.01–0.03) | 29.4 (14.5–52.7) | 12.7 (6.8–22.0) | 76.9 (57.5–102.4) | 7.2 (4.6–10.3) | 9.1 (5.4–14.6) | 6.7 (4.1–12.0) | 368.1 (260.7–481.8) |
| Hamadan | 4744.5 (3970.1–5428.2) | 57.6 (40.7–77.2) | 2822.2 (2316.6–3294.0) | 998.4 (803.5–1252.4) | 765.0 (598.7–963.4) | 182.2 (129.0–279.5) | 51.2 (37.0–68.5) | 404.5 (288.8–611.5) | 29.4 (20.5–41.1) | 10.5 (6.0–16.6) | 12.7 (6.5–26.2) | 6.2 (1.4–13.9) | 48.2 (29.2–68.5) | 5.7 (1.5–12.6) | 0.1 (0.04–0.1) | 42.4 (23.4–65.0) | 15.4 (8.4–26.2) | 81.6 (63.5–102.8) | 6.8 (4.4–9.7) | 8.3 (5.1–13.6) | 12.2 (8.6–17.4) | 260.0 (185.4–337.3) |
| Hormozgan | 4729.3 (4044.9–5328.2) | 77.5 (55.8–104.9) | 2648.7 (2204.3–3065.3) | 931.5 (743.0–1178.5) | 709.6 (578.2–885.4) | 177.9 (125.6–265.5) | 44.0 (28.5–63.6) | 520.7 (366.7–662.7) | 35.2 (24.1–49.6) | 10.6 (5.9–17.5) | 19.1 (11.3–28.9) | 5.6 (1.7–12.7) | 40.5 (20.7–73.2) | 3.4 (1.6–5.9) | 0.1 (0.1–0.2) | 37.0 (17.6–68.8) | 14.5 (7.2–29.3) | 74.0 (56.8–96.0) | 3.2 (1.8–7.1) | 8.9 (5.4–14.3) | 12.7 (9.0–18.6) | 361.9 (268.7–462.8) |
| Ilam | 3977.0 (3365.9–4630.3) | 25.3 (16.5–36.8) | 2379.6 (1963.6–2808.4) | 715.7 (575.9–905.7) | 493.4 (399.0–617.3) | 184.3 (132.7–261.3) | 38.0 (26.1–51.1) | 413.1 (300.4–536.7) | 35.5 (20.8–51.3) | 16.1 (7.5–24.3) | 13.7 (8.4–22.8) | 5.8 (1.3–13.6) | 23.1 (10.9–49.8) | 1.4 (0.7–3.2) | 0.03 (0.02–0.04) | 21.7 (10.0–46.7) | 13.9 (7.5–24.7) | 70.3 (53.1–92.2) | 4.7 (2.9–7.8) | 9.0 (5.5–14.3) | 7.8 (4.9–12.8) | 278.7 (205.5–359.5) |
| Isfahan | 3709.5 (3103.2–4226.7) | 21.9 (15.5–31.3) | 2104.7 (1726.4–2502.1) | 756.2 (615.2–937.1) | 573.9 (451.0–705.8) | 127.8 (94.4–188.4) | 54.5 (36.6–80.0) | 381.0 (276.0–528.4) | 32.2 (19.8–45.2) | 9.5 (5.8–14.9) | 16.2 (9.7–24.3) | 6.5 (1.7–14.5) | 35.3 (21.2–51.1) | 2.7 (1.3–4.8) | 0.05 (0.03–0.1) | 32.5 (18.8–47.8) | 11.4 (6.6–19.3) | 80.1 (60.8–102.5) | 14.9 (7.1–21.3) | 9.3 (5.6–14.6) | 16.0 (7.3–25.6) | 246.5 (182.1–320.5) |
| Kerman | 4183.4 (3535.7–4769.4) | 60.5 (42.7–82.5) | 2339.1 (1937.5–2706.9) | 852.2 (697.2–1028.6) | 625.1 (505.6–753.8) | 185.2 (134.3–268.0) | 41.9 (28.6–56.6) | 425.1 (332.8–557.0) | 28.3 (20.3–39.3) | 6.6 (3.5–11.9) | 16.1 (9.9–26.7) | 5.6 (1.5–12.2) | 41.2 (24.5–64.9) | 3.0 (1.6–5.1) | 0.1 (0.04–0.1) | 40.5 (22.3–61.0) | 14.6 (7.6–25.9) | 84.0 (62.2–109.1) | 4.4 (3.0–6.3) | 8.1 (5.8–14.5) | 9.1 (7.3–12.6) | 314.4 (231.7–400.4) |
| Kermanshah | 5120.8 (4271.2–5865.6) | 54.9 (39.0–75.0) | 2897.9 (2391.8–3310.7) | 1151.9 (944.5–1420.5) | 856.0 (691.0–1050.8) | 252.9 (185.4–376.8) | 43.0 (29.7–58.0) | 477.2 (376.8–606.2) | 33.5 (23.9–46.8) | 8.1 (4.2–14.3) | 20.5 (12.6–30.3) | 5.0 (2.0–10.2) | 53.7 (32.2–79.0) | 4.4 (1.9–9.4) | 0.1 (0.04–0.1) | 49.2 (27.9–73.7) | 17.4 (9.4–30.5) | 85.6 (66.8–109.5) | 8.1 (5.3–12.0) | 7.1 (3.9–12.4) | 14.8 (10.2–21.5) | 318.7 (238.1–404.9) |
| Khorasan-e-Razavi | 4097.4 (3473.5–4727.7) | 55.1 (39.1–74.5) | 2137.9 (1754.3–2513.3) | 917.8 (751.5–1142.9) | 644.0 (518.6–800.6) | 186.5 (133.1–277.5) | 87.3 (40.9–144.2) | 523.9 (397.5–659.7) | 28.3 (19.8–39.5) | 11.4 (6.8–16.7) | 14.5 (9.2–23.5) | 2.4 (0.9–4.7) | 44.9 (26.5–67.0) | 3.3 (1.7–5.7) | 0.1 (0.04–0.1) | 41.5 (23.0–63.2) | 12.8 (7.1–22.8) | 82.0 (64.4–104.8) | 6.5 (4.2–9.2) | 11.1 (7.1–16.8) | 9.7 (6.7–14.1) | 267.4 (198.3–343.2) |
| Khuzestan | 5863.0 (5058.9–6611.3) | 60.3 (43.9–79.3) | 3511.5 (2913.5–4064.7) | 1242.8 (1015.0–1535.0) | 1015.7 (821.9–1260.0) | 182.4 (132.5–272.3) | 44.7 (28.2–68.7) | 476.4 (364.8–640.9) | 39.4 (28.2–55.1) | 21.4 (9.2–31.6) | 14.1 (7.5–28.9) | 4.0 (1.4–8.7) | 100.3 (56.9–147.4) | 10.3 (2.1–22.1) | 0.1 (0.1–0.2) | 89.9 (53.8–132.9) | 16.3 (8.9–27.3) | 82.4 (63.0–105.8) | 12.6 (8.2–

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3734.8 | 63.2 | 1897.3 | 808.3 | 591.1 | 175.3 | 41.8 | 424.9 | 25.6 | 9.7 | 12.1 | 3.8 | 25.1 | 1.9 | 0.1 | 23.1 | 16.7 | 84.9 | 2.9 | 10.1 | 6.6 | 369.3 |
| | (3154.1–4319.9) | (45.3–85.5) | (1538.2–2252.3) | (647.4–1024.9) | (469.7–752.5) | (121.9–266.2) | (27.7–60.2) | (273.9–654.2) | (16.4–40.5) | (5.9–14.5) | (6.2–24.8) | (1.4–7.7) | (11.8–57.4) | (0.9–4.1) | (0.03–0.1) | (10.6–54.1) | (9.0–29.1) | (62.7–110.3) | (1.9–5.6) | (6.4–15.0) | (3.9–12.9) | (270.2–465.7) |
| | 2847.3 | 37.4 | 1633.8 | 696.4 | 532.2 | 130.3 | 33.8 | 174.6 | 21.8 | 8.8 | 10.7 | 2.4 | 40.3 | 1.6 | 0.1 | 38.7 | 10.4 | 71.3 | 19.2 | 8.5 | 6.3 | 127.2 |
| | (2371.8–3301.0) | (13.6–57.3) | (1294.1–1957.0) | (543.0–871.4) | (402.9–663.0) | (89.2–197.7) | (21.0–49.7) | (77.4–392.1) | (13.3–36.3) | (5.1–14.0) | (6.9–52.2) | (0.9–5.2) | (25.8–57.4) | (0.9–2.6) | (0.04–0.1) | (24.4–55.4) | (5.8–18.5) | (52.6–90.8) | (9.0–31.0) | (5.0–13.3) | (3.5–11.5) | (80.1–208.0) |
| | 5421.4 | 62.6 | 3008.9 | 1137.6 | 872.5 | 215.9 | 49.2 | 617.9 | 32.1 | 11.6 | 14.9 | 5.5 | 124.6 | 9.0 | 0.3 | 115.2 | 14.1 | 93.4 | 11.0 | 12.7 | 15.3 | 291.2 |
| | (4617.5–6164.0) | (45.5–84.1) | (2518.6–3466.8) | (923.0–1458.2) | (692.8–1115.5) | (157.8–325.5) | (35.8–63.9) | (467.2–784.8) | (21.5–49.0) | (6.7–18.2) | (7.7–32.1) | (1.6–11.9) | (52.2–178.5) | (2.5–17.6) | (0.2–0.4) | (49.2–168.1) | (8.1–23.2) | (69.0–119.6) | (7.2–15.5) | (8.2–18.4) | (10.2–22.2) | (216.8–373.4) |
| | 3487.4 | 21.1 | 1757.6 | 837.2 | 606.0 | 188.4 | 42.8 | 477.0 | 30.8 | 10.8 | 16.4 | 3.6 | 35.7 | 1.6 | 0.1 | 34.0 | 11.5 | 79.9 | 11.7 | 8.7 | 6.3 | 210.0 |
| | (2957.5–4062.6) | (14.1–29.8) | (1435.9–2094.5) | (684.8–1026.5) | (495.0–734.0) | (138.9–282.3) | (29.3–54.9) | (371.5–596.1) | (21.3–43.0) | (6.2–16.7) | (10.7–25.4) | (1.7–6.7) | (20.4–54.3) | (0.7–3.3) | (0.05–0.1) | (19.4–52.0) | (6.4–19.6) | (61.9–102.3) | (7.2–17.7) | (5.3–14.0) | (4.0–11.1) | (146.0–298.0) |
| | 6153.9 | 61.9 | 3460.2 | 1348.2 | 989.5 | 301.0 | 57.8 | 664.1 | 43.0 | 12.3 | 20.9 | 9.8 | 59.9 | 4.6 | 0.1 | 55.2 | 20.4 | 104.2 | 6.0 | 8.8 | 12.0 | 365.4 |
| | (5273.9–7028.5) | (42.9–85.6) | (2881.9–4000.0) | (1109.3–1686.4) | (817.0–1242.1) | (217.1–448.6) | (38.1–79.9) | (501.6–929.0) | (28.3–64.3) | (6.7–21.2) | (10.5–44.4) | (2.4–21.0) | (34.4–86.8) | (2.0–9.2) | (0.1–0.1) | (30.6–81.8) | (11.3–34.7) | (80.6–134.9) | (4.0–10.0) | (5.1–13.7) | (8.0–18.7) | (272.5–467.8) |
| | 9144.3 | 103.9 | 4845.4 | 2999.8 | 1771.5 | 1116.0 | 112.3 | 625.1 | 39.9 | 16.5 | 17.5 | 5.8 | 193.1 | 29.3 | 0.3 | 163.4 | 6.1 | 102.7 | 12.7 | 8.9 | 13.2 | 193.5 |
| Iraq | (7767.6–10379.7) | (78.5–139.8) | (4042.8–5653.2) | (2383.3–3726.7) | (1378.7–2286.3) | (844.8–1505.8) | (75.2–156.9) | (422.7–822.3) | (27.5–57.7) | (9.9–26.1) | (10.2–28.2) | (2.7–10.7) | (142.7–256.4) | (15.8–46.7) | (0.1–1.0) | (113.3–222.0) | (2.8–16.6) | (81.8–129.1) | (8.2–17.8) | (5.0–14.8) | (8.6–19.8) | (138.8–264.3) |
| | 4680.4 | 18.6 | 2146.2 | 1458.2 | 1002.2 | 418.2 | 37.9 | 747.9 | 22.6 | 14.1 | 7.3 | 1.2 | 22.2 | 1.4 | 0.2 | 20.6 | 2.9 | 76.4 | 28.9 | 7.2 | 34.8 | 114.5 |
| Jordan | (4234.2–5094.4) | (12.6–25.9) | (1796.8–2456.3) | (1209.0–1736.0) | (827.6–1199.9) | (333.0–525.6) | (29.3–48.3) | (576.5–917.1) | (15.5–32.1) | (9.3–20.4) | (4.1–11.8) | (0.6–2.2) | (14.5–32.2) | (0.7–2.4) | (0.1–0.5) | (13.1–30.3) | (1.2–10.8) | (60.5–97.7) | (19.3–40.1) | (3.8–12.9) | (23.9–47.4) | (83.6–145.1) |
| | 3891.0 | 17.2 | 2518.9 | 748.4 | 499.1 | 212.6 | 36.7 | 354.1 | 20.4 | 16.1 | 3.9 | 0.4 | 34.2 | 8.5 | 0.9 | 24.8 | 3.2 | 87.6 | 18.3 | 7.6 | 10.6 | 70.4 |
| Kuwait | (3608.8–4188.8) | (14.2–20.3) | (2348.2–2687.0) | (666.8–825.6) | (440.6–558.3) | (182.2–240.3) | (29.2–43.4) | (302.1–407.8) | (17.4–23.9) | (13.7–19.0) | (3.2–4.8) | (0.2–1.0) | (29.0–40.3) | (6.5–11.1) | (0.6–1.3) | (20.7–29.2) | (2.5–4.1) | (72.7–107.4) | (15.0–21.1) | (4.7–12.0) | (9.0–12.5) | (56.8–84.1) |
| | 3136.3 | 42.4 | 1577.8 | 857.9 | 412.1 | 361.6 | 84.2 | 191.4 | 47.0 | 35.0 | 10.6 | 1.4 | 44.0 | 10.1 | 0.2 | 33.7 | 13.5 | 65.9 | 54.2 | 12.6 | 14.7 | 214.8 |
| Lebanon | (2656.4–3571.0) | (29.7–57.6) | (1315.6–1827.9) | (699.2–1021.3) | (347.4–497.4) | (283.8–460.4) | (62.6–107.9) | (139.9–249.0) | (32.6–67.4) | (22.2–50.7) | (5.7–18.6) | (0.6–3.1) | (28.4–59.7) | (5.8–15.7) | (0.1–0.4) | (21.7–46.8) | (7.9–21.6) | (49.2–85.4) | (37.9–73.5) | (8.4–18.3) | (10.0–21.0) | (157.1–267.8) |
| | 7667.8 | 69.9 | 4387.8 | 2055.0 | 1469.2 | 512.3 | 73.6 | 638.2 | 41.4 | 22.9 | 17.0 | 1.6 | 71.1 | 4.6 | 0.3 | 66.6 | 9.2 | 88.5 | 9.0 | 9.8 | 14.6 | 275.0 |
| Libya | (6523.4–8756.9) | (44.9–101.7) | (3385.4–5325.3) | (1366.2–2970.3) | (875.2–2228.3) | (275.0–852.7) | (43.9–128.9) | (381.8–953.5) | (23.1–68.6) | (11.0–39.6) | (9.0–28.5) | (0.7–3.3) | (39.1–117.3) | (1.6–9.6) | (0.1–1.0) | (36.5–111.4) | (2.9–12.7) | (60.9–119.0) | (5.3–15.7) | (5.9–14.7) | (8.4–23.5) | (188.4–370.5) |
| | 10445.5 | 146.3 | 4970.7 | 3593.7 | 2292.8 | 1166.4 | 134.6 | 1050.2 | 66.2 | 31.4 | 32.7 | 2.1 | 129.4 | 10.8 | 0.6 | 118.1 | 18.2 | 122.9 | 9.7 | 11.3 | 24.4 | 302.5 |
| Morocco | (8954.9–11683.7) | (86.1–240.5) | (3809.2–6372.4) | (2474.5–4931.0) | (1586.2–3432.5) | (635.2–1956.3) | (68.0–240.8) | (674.0–1577.2) | (38.1–103.4) | (16.5–52.0) | (16.7–58.9) | (0.9–4.8) | (66.2–235.8) | (4.4–22.0) | (0.2–2.3) | (57.8–220.6) | (8.6–37.2) | (90.7–157.6) | (4.7–17.4) | (7.0–16.9) | (14.0–38.5) | (208.5–452.2) |
| | 5472.5 | 34.7 | 2465.4 | 1379.6 | 842.0 | 356.1 | 181.6 | 969.1 | 18.8 | 8.4 | 8.7 | 1.7 | 122.3 | 10.7 | 2.9 | 108.7 | 6.0 | 120.8 | 18.5 | 12.7 | 7.2 | 317.4 |
| Oman | (4689.2–6340.5) | (23.1–48.9) | (1988.5–3019.5) | (1089.6–1674.7) | (665.7–1032.9) | (248.4–480.4) | (126.9–250.2) | (698.4–1303.1) | (12.0–28.0) | (4.4–14.2) | (5.5–14.0) | (0.5–3.7) | (75.7–186.9) | (5.6–17.7) | (1.1–8.8) | (64.9–167.2) | (3.0–11.5) | (93.7–152.4) | (8.5–36.0) | (8.4–18.0) | (4.8–11.1) | (237.5–403.8) |
| | 5610.1 | 68.1 | 2900.8 | 1466.5 | 1048.0 | 371.9 | 46.6 | 823.6 | 19.1 | 11.0 | 7.1 | 1.0 | 89.7 | 5.6 | 0.9 | 83.1 | 4.5 | 98.5 | 19.0 | 8.3 | 3.9 | 108.0 |
| Palestine | (5123.5–6065.0) | (50.3–91.2) | (2626.4–3225.3) | (1288.4–1695.3) | (907.0–1220.6) | (307.0–476.1) | (35.7–58.0) | (594.3–1018.1) | (13.2–27.7) | (6.9–16.3) | (4.2–12.7) | (0.5–2.0) | (60.6–123.6) | (2.1–10.6) | (0.3–2.9) | (54.6–116.7) | (1.9–14.7) | (77.2–120.9) | (13.5–26.0) | (5.0–13.5) | (2.7–5.5) | (80.1–137.0) |
| | 3150.7 | 23.1 | 1943.3 | 636.1 | 399.3 | 171.0 | 65.8 | 233.0 | 21.1 | 13.9 | 6.3 | 0.9 | 42.0 | 3.5 | 0.3 | 38.1 | 3.4 | 100.7 | 11.7 | 10.0 | 5.3 | 120.9 |
| Qatar | (2595.4–3660.7) | (15.0–32.8) | (1542.5–2301.2) | (492.7–851.4) | (293.4–556.8) | (118.9–270.6) | (48.1–91.0) | (145.9–336.8) | (12.2–35.7) | (8.1–23.0) | (3.3–13.7) | (0.3–2.0) | (26.6–63.5) | (1.2–7.0) | (0.1–0.9) | (23.0–60.2) | (1.5–8.2) | (73.1–136.8) | (7.8–17.6) | (6.6–14.7) | (3.0–9.1) | (85.1–160.8) |
| | 6613.4 | 20.8 | 3500.7 | 1481.2 | 945.1 | 482.6 | 53.6 | 1112.2 | 30.3 | 14.4 | 15.0 | 0.9 | 123.6 | 7.1 | 1.4 | 115.1 | 5.0 | 96.1 | 5.1 | 7.7 | 14.3 | 216.6 |
| Saudi Arabia | (5570.9–7461.0) | (13.8–31.2) | (2795.8–4221.4) | (1071.6–1853.1) | (679.4–1196.3) | (324.7–642.5) | (36.0–71.5) | (844.9–1452.2) | (19.4–44.2) | (8.4–22.6) | (8.2–24.0) | (0.3–1.8) | (81.0–181.6) | (3.0–12.4) | (0.4–3.9) | (75.2–171.0) | (2.6–9.8) | (73.2–122.5) | (3.4–7.0) | (4.9–12.7) | (9.2–21.5) | (157.4–282.3) |
| | 11646.7 | 137.6 | 6048.3 | 3860.1 | 2552.2 | 1197.8 | 110.1 | 990.5 | 48.8 | 23.1 | 24.3 | 1.4 | 107.0 | 9.6 | 0.6 | 96.8 | 13.3 | 93.6 | 7.6 | 10.0 | 19.9 | 310.0 |
| Sudan | (9685.8–13600.2) | (70.7–244.0) | (4550.6–7766.2) | (2671.5–5523.2) | (1654.4–3684.2) | (595.9–2331.2) | (53.3–212.1) | (535.1–1623.7) | (26.9–81.9) | (11.1–37.8) | (12.6–42.7) | (0.6–3.1) | (46.7–217.1) | (3.8–20.6) | (0.1–2.5) | (41.6–197.7) | (5.4–27.5) | (65.7–125.0) | (3.5–15.0) | (6.0–15.3) | (11.5–32.2) | (198.0–473.3) |
| | 8435.6 | 79.8 | 5569.2 | 1603.9 | 928.4 | 610.6 | 64.9 | 609.1 | 76.0 | 41.7 | 32.0 | 2.3 | 60.9 | 4.5 | 0.3 | 56.1 | 1.9 | 104.5 | 8.1 | 9.2 | 4.1 | 308.8 |
| Syrian Arab Republic | (7462.9–9307.0) | (54.7–108.9) | (4838.5–6244.6) | (1261.8–2083.6) | (740.4–1206.2) | (435.9–887.1) | (41.6–93.9) | (455.8–814.4) | (54.7–110.3) | (25.1–61.5) | (19.2–54.5) | (1.2–4.3) | (32.8–110.4) | (2.1–8.6) | (0.1–1.2) | (30.5–102.2) | (0.5–8.8) | (77.2–138.3) | (5.4–11.4) | (5.8–14.4) | (2.9–6.3) | (236.2–392.7) |
| | 3650.7 | 44.9 | 1521.1 | 1269.6 | 731.6 | 460.5 | 77.4 | 267.1 | 45.8 | 32.2 | 13.0 | 0.6 | 100.2 | 6.3 | 0.4 | 93.5 | 12.3 | 82.5 | 32.6 | 9.0 | 42.1 | 223.5 |
| Tunisia | (3148.1–4094.9) | (30.2–61.2) | (1281.9–1786.8) | (1060.7–1546.8) | (605.0–936.9) | (362.8–604.7) | (56.7–100.4) | (199.8–352.0) | (29.5–62.3) | (20.2–46.1) | (7.5–22.3) | (0.3–1.2) | (64.2–155.3) | (3.3–10.8) | (0.2–1.2) | (59.2–127.2) | (5.6–24.7) | (63.7–107.5) | (23.4–45.2) | (5.5–14.1) | (29.6–59.7) | (168.0–276.8) |
| | 4197.9 | 24.9 | 2314.8 | 1073.5 | 604.9 | 353.3 | 115.3 | 341.0 | 44.5 | 21.7 | 20.6 | 2.2 | 44.7 | 1.0 | 0.3 | 43.4 | 14.0 | 77.9 | 55.0 | 19.1 | 22.8 | 165.7 |
| Türkiye | (3577.0–4796.2) | (18.3–31.6) | (1929.5–2737.3) | (858.8–1306.6) | (473.4–747.3) | (271.5–455.5) | (85.4–153.1) | (241.4–443.9) | (32.4–65.1) | (14.4–32.5) | (14.2–33.0) | (1.1–3.8) | (34.1–60.6) | (0.5–1.8) | (0.1–0.7) | (33.2–58.3) | (8.5–20.4) | (60.9–98.8) | (39.9–70.4) | (14.4–25.3) | (17.3–30.1) | (118.6–212.2) |
| | 3669.9 | 42.8 | 2079.5 | 954.0 | 589.2 | 292.3 | 72.4 | 181.7 | 17.0 | 14.3 | 2.1 | 0.6 | 67.9 | 2.9 | 0.6 | 64.5 | 3.9 | 72.6 | 9.1 | 14.6 | 6.9 | 219.9 |
| United Arab Emirates | (2971.1–4224.6) | (27.2–67.2) | (1593.4–2548.2) | (729.4–1212.1) | (444.6–758.3) | (207.1–427.8) | (49.4–102.6) | (116.2–253.6) | (11.1–25.3) | (9.2–21.6) | (1.3–3.6) | (0.2–1.3) | (44.1–100.3) | (1.4–5.2) | (0.2–1.5) | (40.5–94.7) | (2.1–7.4) | (50.6–95.9) | (5.9–13.4) | (10.1–20.2) | (4.6–10.4) | (147.6–306.3) |
| | 9445.9 | 160.2 | 4476.1 | 3330.2 | 2158.8 | 1065.0 | 106.3 | 989.7 | 34.3 | 15.5 | 17.9 | 0.9 | 92.9 | 12.3 | 0.5 | 80.1 | 13.7 | 74.4 | 7.0 | 8.9 | 15.9 | 242.7 |
| Yemen | (8391.5–10567.6) | (93.1–260.0) | (3509.8–5485.6) | (2520.1–4341.8) | (1488.2–2882.6) | (661.5–1783.2) | (49.3–228.7) | (571.4–1598.6) | (22.4–51.2) | (8.5–24.2) | (10.6–31.0) | (0.4–2.0) | (41.1–185.3) | (5.5–26.3) | (0.1–2.2) | (34.8–161.4) | (6.5–26.9) | (55.2–99.6) | (4.0–11.5) | (5.3–13.6) | (10.4–23.7) | (174.1–343.5) |
| **South Asia** | **6508.4 (5796.0–7236.0)** | **486.5 (280.1–764.3)** | **2956.8 (2566.9–3480.2)** | **2108.0 (1675.1–2508.3)** | **825.8 (603.5–1090.6)** | **1145.4 (761.5–1459.0)** | **136.8 (80.5–225.9)** | **445.0 (294.8–641.2)** | **27.7 (17.1–40.7)** | **17.7 (10.7–26.5)** | **9.7 (5.4–17.0)** | **0.4 (0.2–0.8)** | **171.9 (106.2–251.4)** | **12.0 (5.8–21.8)** | **5.4 (1.5–14.9)** | **154.6 (93.8–228.8)** | **11.2 (6.3–18.9)** | **106.6 (81.7–139.5)** | **28.3 (18.5–43.3)** | **17.3 (10.6–26.2)** | **23.4 (15.4–34.0)** | **125.7 (93.6–165.4)** |
| South Asia | 6508.4 (5796.0–7236.0) | 486.5 (280.1–764.3) | 2956.8 (2566.9–3480.2) | 2108.0 (1675.1–2508.3) | 825.8 (603.5–1090.6) | 1145.4 (761.5–1459.0) | 136.8 (80.5–225.9) | 445.0 (294.8–641.2) | 27.7 (17.1–40.7) | 17.7 (10.7–26.5) | 9.7 (5.4–17.0) | 0.4 (0.2–0.8) | 171.9 (106.2–251.4) | 12.0 (5.8–21.8) | 5.4 (1.5–14.9) | 154.6 (93.8–228.8) | 11.2 (6.3–18.9) | 106.6 (81.7–139.5) | 28.3 (18.5–43.3) | 17.3 (10.6–26.2) | 23.4 (15.4–34.0) | 125.7 (93.6–165.4) |
| | 8132.6 | 750.6 | 3473.5 | 2489.2 | 981.4 | 1333.4 | 174.5 | 682.9 | 42.4 | 27.3 | 14.6 | 0.5 | 247.5 | 15.0 | 8.1 | 224.4 | 19.0 | 147.7 | 37.8 | 19.2 | 31.9 | 190.9 |
| Bangladesh | (6545.8–9446.9) | (370.6–1254.2) | (2853.1–4042.6) | (1927.6–3051.6) | (611.4–1325.6) | (986.7–1766.9) | (103.8–294.2) | (404.6–1221.6) | (27.2–62.7) | (16.9–42.1) | (7.7–25.3) | (0.2–1.2) | (148.2–368.4) | (7.1–26.7) | (2.2–20.6) | (132.4–343.7) | (10.4–32.2) | (110.0–190.4) | (21.5–65.0) | (12.4–29.3) | (20.1–47.4) | (136.8–274.0) |
| | 5399.2 | 602.7 | 1995.8 | 1811.1 | 609.8 | 1059.4 | 142.0 | 412.5 | 29.3 | 18.0 | 10.9 | 0.4 | 198.6 | 17.7 | 4.6 | 176.3 | 17.5 | 104.0 | 24.4 | 15.0 | 30.8 | 157.6 |
| Bhutan | (4365.0–6672.6) | (219.8–1229.2) | (1402.1–2621.8) | (1286.7–2448.5) | (437.9–818.8) | (634.9–1519.3) | (81.4–242.2) | (270.5–614.1) | (16.8–46.1) | (10.0–29.4) | (5.6–18.6) | (0.2–1.0) | (118.4–300.7) | (7.8–33.2) | (1.3–12.2) | (104.8–260.5) | (9.6–30.1) | (79.5–138.0) | (13.6–46.4) | (8.7–24.3) | (17.7–53.1) | (110.8–218.8) |
| | 6366.3 | 447.5 | 2902.8 | 2085.3 | 819.0 | 1133.6 | 132.8 | 433.9 | 27.1 | 17.4 | 9.3 | 0.4 | 164.9 | 10.8 | 5.1 | 149.1 | 10.0 | 105.0 | 28.5 | 17.4 | 22.5 | 121.3 |
| India | (5637.7–7182.9) | (264.8–690.5) | (2484.0–3452.3) | (1650.2–2670.8) | (592.4–1069.3) | (734.6–1469.8) | (77.9–221.9) | (278.5–650.7) | (16.8–39.8) | (10.2–26.8) | (5.2–16.8) | (0.2–0.8) | (101.6–249.4) | (5.3–19.4) | (1.4–14.2) | (91.8–224.6) | (5.5–16.3) | (79.4–139.1) | (18.4–42.7) | (10.8–26.3) | (14.7–32.8) | (89.3–158.6) |
| | 8073.2 | 668.0 | 4412.9 | 1727.7 | 633.5 | 959.0 | 135.2 | 605.2 | 39.2 | 25.4 | 13.3 | 0.5 | 232.2 | 15.4 | 6.7 | 211.5 | 15.4 | 123.9 | 43.9 | 20.2 | 31.9 | 152.7 |
| Andhra Pradesh | (6694.4–9602.8) | (346.5–1102.8) | (3558.6–5417.4) | (1226.8–2293.5) | (456.8–829.2) | (618.7–1372.8) | (80.4–231.5) | (369.1–901.7) | (23.5–59.6) | (14.5–38.3) | (7.2–24.9) | (0.2–1.1) | (142.2–348.9) | (6.5–26.0) | (2.0–18.5) | (128.9–319.5) | (8.4–25.5) | (93.9–165.2) | (27.3–65.9) | (12.2–30.5) | (20.9–46.5) | (107.4–199.1) |
| | 3842.5 | 403.6 | 1358.3 | 1264.3 | 438.2 | 718.3 | 107.8 | 352.0 | 26.1 | 17.1 | 8.6 | 0.3 | 151.6 | 8.7 | 5.0 | 137.9 | 8.8 | 97.3 | 19.7 | 17.2 | 18.9 | 124.7 |
| Arunachal Pradesh | (3083.6–4707.2) | (227.0–658.8) | (1037.9–1823.8) | (918.6–1605.3) | (299.9–608.2) | (486.6–1018.5) | (65.7–181.7) | (217.3–555.9) | (15.3–40.4) | (9.6–26.5) | (4.6–16.3) | (0.1–0.7) | (83.5–224.2) | (4.1–15.8) | (1.3–13.7) | (76.5–205.5) | (5.1–14.9) | (73.7–131.8) | (10.4–40.2) | (10.1–26.6) | (12.3–28.7) | (90.7–161.0) |
| | 6687.1 | 412.9 | 2163.8 | 3235.6 | 1125.5 | 1907.2 | 202.9 | 408.5 | 24.8 | 15.4 | 9.1 | 0.4 | 153.1 | 9.2 | 4.8 | 139.2 | 8.1 | 96.9 | 19.8 | 17.4 | 21.4 | 124.8 |
| Assam | (5633.4–7887.5) | (255.7–617.0) | (1722.1–2929.3) | (2585.1–3959.2) | (751.9–1519.2) | (1376.9–2514.4) | (112.8–338.1) | (226.3–683.7) | (15.3–39.0) | (9.2–23.5) | (4.8–16.9) | (0.1–0.7) | (85.7–246.1) | (4.3–18.1) | (1.4–14.0) | (78.4–225.0) | (4.5–13.1) | (73.0–125.7) | (10.5–37.6) | (10.8–26.7) | (13.7–33.2) | (88.1–172.2) |
| | 7082.6 | 684.0 | 3538.9 | 1468.9 | 606.2 | 785.9 | 76.8 | 716.6 | 39.5 | 25.2 | 13.8 | 0.5 | 229.8 | 15.0 | 6.6 | 208.2 | 15.4 | 138.6 | 33.0 | 18.8 | 31.3 | 167.8 |
| Bihar | (6081.1–8310.7) | (371.8–1121.0) | (2854.0–4187.2) | (996.9–2260.2) | (364.1–938.2) | (374.1–1308.7) | (38.7–158.5) | (422.7–1246.9) | (24.2–58.7) | (14.6–37.2) | (7.3–24.9) | (0.2–1.0) | (134.4–333.9) | (7.6–26.7) | (1.9–19.0) | (121.4–309.1) | (7.9–25.7) | (104.7–185.8) | (20.0–60.1) | (11.8–28.0) | (19.1–50.3) | (117.1–241.3) |
| | 9976.6 | 766.6 | 3882.6 | 3926.2 | 1519.4 | 2207.8 | 199.0 | 712.3 | 39.8 | 24.4 | 14.9 | 0.5 | 231.4 | 15.1 | 7.0 | 209.3 | 13.6 | 143.9 | 41.2 | 21.0 | 32.1 | 165.9 |
| Chhattisgarh | (8430.7–11635.7) | (410.6–1275.8) | (2987.3–4928.7) | (2896.2–4924.6) | (1019.5–2175.2) | (1107.2–3095.4) | (94.6–425.9) | (397.8–1158.9) | (22.6–59.6) | (13.2–37.3) | (7.8–26.4) | (0.2–1.1) | (124.9–397.9) | (7.1–30.7) | (2.0–20.0) | (112.7–364.6) | (7.7–23.2) | (106.0–198.0) | (25.6–64.0) | (13.2–31.8) | (19.7–46.8) | (105.4–244.8) |
| | 4390.8 | 327.4 | 2645.0 | 733.8 | 386.1 | 292.8 | 54.9 | 272.0 | 20.8 | 14.3 | 6.2 | 0.3 | 122.6 | 7.7 | 3.2 | 111.7 | 7.2 | 102.7 | 30.1 | 16.3 | 15.6 | 97.3 |
| Delhi | (3722.9–5216.2) | (155.8–467.6) | (2122.0–3318.3) | (526.3–1024.3) | (238.8–562.8) | (156.6–447.8) | (30.9–104.0) | (168.9–414.9) | (12.0–30.7) | (8.1–22.0) | (3.3–10.7) | (0.1–0.6) | (71.4–174.3) | (3.7–13.6) | (1.0–8.9) | (64.4–159.7) | (3.7–13.2) | (78.7–133.5) | (18.1–46.4) | (9.9–25.6) | (10.0–23.5) | (68.9–132.2) |
| | 6694.0 | 307.9 | 4031.1 | 1509.8 | 588.3 | 778.8 | 142.8 | 329.5 | 29.1 | 19.8 | 8.9 | 0.4 | 156.8 | 8.7 | 4.5 | 139.6 | 9.1 | 110.1 | 33.7 | 16.6 | 23.9 | 123.3 |
| Goa | (5471.5–7912.3) | (198.1–441.9) | (3164.7–5040.2) | (1084.0–1950.3) | (383.4–806.5) | (530.3–1087.0) | (81.0–238.4) | (212.0–470.1) | (17.6–44.5) | (11.4–30.7) | (4.8–16.1) | (0.2–0.8) | (97.7–252.5) | (4.2–15.1) | (1.1–14.3) | (89.2–232.6) | (4.7–16.6) | (81.6–143.2) | (19.7–55.2) | (10.0–25.8) | (14.7–35.2) | (86.5–166.7) |
| | 6034.5 | 377.4 | 2700.0 | 2077.1 | 825.0 | 1111.7 | 140.6 | 403.4 | 26.1 | 16.7 | 9.0 | 0.4 | 165.5 | 10.1 | 5.1 | 147.3 | 10.4 | 97.8 | 24.5 | 14.7 | 16.9 | 109.9 |
| Gujarat | (5124.6–6953.9) | (228.6–560.3) | (2229.9–3386.8) | (1581.8–2568.4) | (608.5–1088.6) | (750.6–1459.7) | (83.7–225.0) | (262.7–592.5) | (15.7–38.5) | (9.8–25.5) | (5.0–16.0) | (0.2–0.8) | (100.1–253.4) | (5.1–18.1) | (1.5–14.5) | (90.4–230.6) | (5.2–15.4) | (72.4–132.4) | (20.7–44.6) | (10.3–26.2) | (13.0–31.6) | (79.3–148.8) |
| | 6044.8 | 374.5 | 2658.0 | 2097.4 | 888.3 | 1063.3 | 145.7 | 394.9 | 29.7 | 20.0 | 9.3 | 0.4 | 179.2 | 10.2 | 6.7 | 162.3 | 9.3 | 108.0 | 27.1 | 19.1 | 21.6 | 126.1 |
| Haryana | (5010.9–7176.5) | (227.7–568.6) | (2088.4–3510.0) | (1612.1–2635.4) | (583.9–1215.3) | (693.9–1468.9) | (81.6–236.9) | (240.4–616.3) | (17.6–44.3) | (11.5–30.3) | (5.0–17.8) | (0.2–0.8) | (107.3–277.6) | (5.0–18.4) | (1.7–19.5) | (94.4–251.9) | (5.1–16.1) | (81.1–142.1) | (15.3–51.5) | (11.8–29.1) | (13.4–33.1) | (89.5–166.5) |
| | 4194.1 | 298.8 | 2383.8 | 736.3 | 298.9 | 376.1 | 61.3 | 322.8 | 24.4 | 16.5 | 7.6 | 0.3 | 148.7 | 8.3 | 4.8 | 135.6 | 7.4 | 94.5 | 28.7 | 18.3 | 17.7 | 112.8 |
| Himachal Pradesh | (3490.1–4960.7) | (195.7–431.2) | (1921.9–2963.0) | (525.4–975.6) | (213.6–400.1) | (237.1–558.4) | (37.0–99.2) | (201.9–501.3) | (15.0–37.5) | (9.4–25.9) | (4.0–14.0) | (0.1–0.6) | (85.8–226.3) | (4.0–15.0) | (1.2–14.0) | (77.9–206.3) | (4.1–12.9) | (71.2–125.1) | (17.1–46.6) | (11.0–27.9) | (10.7–26.7) | (80.1–149.9) |
| | 5088.9 | 385.5 | 2937.0 | 976.6 | 338.2 | 551.4 | 87.0 | 339.4 | 24.1 | 15.8 | 8.0 | 0.3 | 157.9 | 8.8 | 5.7 | 143.4 | 8.3 | 88.3 | 23.8 | 17.1 | 21.4 | 109.5 |
| Jammu & Kashmir and Ladakh | (4203.8–5951.3) | (203.7–656.1) | (2342.8–3661.7) | (719.2–1270.6) | (227.1–468.3) | (365.1–769.9) | (53.4–137.3) | (205.1–532.4) | (14.4–35.5) | (9.3–25.1) | (4.4–14.0) | (0.1–0.7) | (92.5–231.0) | (4.4–15.0) | (1.5–15.1) | (82.6–213.4) | (4.6–14.9) | (66.2–118.9) | (13.2–42.6) | (10.4–27.0) | (14.0–31.8) | (80.0–142.2) |
| | 6114.8 | 610.6 | 1695.7 | 2837.3 | 1061.4 | 1623.1 | 152.9 | 466.4 | 27.9 | 17.6 | 10.0 | 0.4 | 162.9 | 9.5 | 5.3 | 148.1 | 10.3 | 106.4 | 22.3 | 15.6 | 29.4 | 130.0 |
| Jharkhand | (5208.2–7115.7) | (308.7–996.6) | (1315.8–2306.8) | (2170.1–3473.1) | (653.6–1555.5) | (1036.9–2202.8) | (81.6–277.6) | (282.2–800.4) | (16.2–43.4) | (10.0–27.9) | (5.4–18.5) | (0.2–0.8) | (97.6–248.4) | (4.6–16.9) | (1.6–15.5) | (88.1–231.7) | (6.0–16.3) | (78.7–142.2) | (12.4–41.1) | (9.1–24.1) | (18.7–44.7) | (90.4–184.6) |
| | 8096.6 | 457.0 | 4742.8 | 1765.5 | 683.4 | 963.1 | 119.0 | 535.1 | 31.9 | 21.0 | 10.5 | 0.4 | 200.7 | 14.8 | 4.5 | 181.5 | 13.2 | 131.1 | 32.0 | 20.0 | 25.5 | 141.8 |
| Karnataka | (7038.9–9433.1) | (267.6–691.2) | (4134.9–5662.8) | (1324.2–2245.3) | (510.8–880.7) | (612.5–1289.5) | (66.9–208.7) | (338.7–797.1) | (20.6–47.1) | (13.0–31.5) | (5.7–18.5) | (0.2–0.9) | (121.5–299.6) | (7.0–26.7) | (1.2–12.4) | (109.9–274.7) | (6.9–22.5) | (99.6–178.4) | (19.1–49.7) | (12.4–29.5) | (16.9–36.6) | (101.8–196.6) |
| | 5345.0 | 212.2 | 2084.4 | 2227.0 | 1087.4 | 984.2 | 155.4 | 358.8 | 25.9 | 17.8 | 7.8 | 0.4 | 126.9 | 5.0 | 3.5 | 118.3 | 6.3 | 108.4 | 49.6 | 17.7 | 18.4 | 109.4 |
| Kerala | (4576.7–6211.3) | (148.9–293.7) | (1726.6–2579.6) | (1710.3–2730.4) | (802.9–1388.4) | (683.2–1310.6) | (94.6–242.3) | (236.5–499.5) | (16.5–39.3) | (10.9–26.4) | (4.2–14.4) | (0.2–0.7) | (78.7–186.0) | (2.5–8.8) | (1.0–9.6) | (73.3–174.3) | (3.5–10.8) | (82.3–146.8) | (28.9–71.2) | (10.9–26.9) | (11.7–27.7) | (80.4–139.8) |
| | 5906.6 | 511.8 | 2877.4 | 1561.8 | 591.7 | 873.7 | 96.4 | 465.0 | 25.4 | 15.7 | 9.3 | 0.3 | 169.4 | 13.4 | 5.2 | 150.9 | 11.5 | 103.8 | 23.0 | 17.0 | 23.9 | 116.8 |
| Madhya Pradesh | (5061.2–6912.4) | (293.5–834.4) | (2268.6–3615.1) | (1137.8–2002.9) | (407.5–899.2) | (511.6–1235.6) | (52.8–176.8) | (291.8–730.1) | (15.2–37.9) | (8.9–25.2) | (5.1–15.9) | (0.1–0.8) | (93.8–268.4) | (6.4–25.0) | (1.4–14.3) | (83.3–241.3) | (6.1–19.4) | (76.9–140.0) | (13.2–38.4) | (10.0–26.8) | (14.6–35.1) | (81.2–166.6) |
| | 4647.4 | 261.8 | 1644.3 | 2038.4 | 816.3 | 1079.1 | 142.9 | 310.7 | 20.6 | 13.5 | 6.8 | 0.3 | 124.6 | 7.2 | 3.3 | 114.1 | 7.1 | 88.6 | 22.5 | 14.5 | 17.2 | 97.0 |
| Maharashtra | (3964.7–5357.1) | (167.4–375.2) | (1355.7–2001.2) | (1616.7–2410.7) | (597.5–1049.4) | (771.3–1394.8) | (94.0–219.0) | (215.6–443.6) | (12.5–30.8) | (8.2–20.3) | (3.9–12.6) | (0.1–0.6) | (80.4–184.1) | (3.5–12.3) | (1.0–9.5) | (73.8–167.6) | (3.9–12.3) | (66.0–120.6) | (14.2–34.

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8660.9 | 585.2 | 5177.7 | 1679.4 | 674.5 | 889.9 | 115.0 | 564.9 | 38.4 | 24.9 | 13.0 | 0.5 | 228.2 | 13.7 | 7.7 | 206.8 | 11.2 | 135.2 | 40.1 | 23.4 | 27.7 | 149.5 |
| | (7108.1–10779.5) | (372.5–873.6) | (3990.9–6717.4) | (1148.3–2328.4) | (454.3–1013.2) | (475.7–1333.5) | (60.2–213.7) | (315.7–1039.6) | (22.2–61.4) | (14.2–38.6) | (6.7–24.3) | (0.2–1.2) | (124.8–367.2) | (6.4–27.0) | (1.9–21.8) | (113.2–341.0) | (5.7–18.8) | (101.6–184.5) | (23.5–65.0) | (15.2–34.3) | (16.0–43.9) | (99.8–211.4) |
| Uttarakhand | 6978.9 | 362.1 | 3057.9 | 2682.9 | 1098.9 | 1403.5 | 180.5 | 399.2 | 26.1 | 17.5 | 8.3 | 0.3 | 152.5 | 8.9 | 4.6 | 139.0 | 9.5 | 105.8 | 28.5 | 17.9 | 19.5 | 117.1 |
| | (5792.4–7903.3) | (196.6–574.9) | (2505.8–3645.8) | (1966.3–3212.4) | (714.3–1496.8) | (1015.9–1806.9) | (110.7–290.3) | (264.4–575.8) | (17.3–38.3) | (11.1–26.6) | (4.6–14.6) | (0.1–0.7) | (96.4–218.1) | (4.4–16.0) | (1.3–12.0) | (86.6–199.6) | (5.3–15.7) | (80.7–143.2) | (17.6–44.9) | (11.1–27.2) | (13.5–27.5) | (81.4–161.4) |
| Nepal | 5067.6 | 596.2 | 1991.7 | 1731.0 | 661.7 | 950.8 | 118.6 | 312.9 | 23.2 | 14.3 | 8.6 | 0.3 | 161.5 | 15.7 | 5.6 | 140.1 | 12.7 | 82.8 | 17.6 | 15.8 | 20.9 | 101.3 |
| | (4200.7–5839.9) | (359.7–928.5) | (1516.7–2493.7) | (1247.8–2189.2) | (444.1–901.3) | (627.6–1245.1) | (62.6–211.6) | (193.7–482.6) | (14.3–35.5) | (8.1–21.9) | (4.9–15.9) | (0.1–0.6) | (87.3–264.0) | (7.6–27.9) | (1.4–17.7) | (71.6–227.4) | (6.9–21.5) | (60.4–114.3) | (9.6–33.8) | (9.0–25.4) | (12.1–31.9) | (71.5–138.0) |
| Pakistan | 6451.9 | 524.2 | 3120.8 | 1993.0 | 785.9 | 1074.9 | 132.3 | 364.0 | 20.5 | 12.2 | 8.0 | 0.3 | 158.9 | 15.5 | 5.5 | 137.9 | 12.2 | 93.0 | 20.0 | 15.5 | 21.9 | 108.0 |
| | (5291.8–7707.2) | (292.5–846.5) | (2412.9–3897.9) | (1462.5–2746.8) | (545.5–1165.8) | (707.6–1577.3) | (70.1–241.5) | (221.4–559.7) | (12.2–31.3) | (7.1–20.0) | (4.6–13.1) | (0.1–0.6) | (88.2–257.0) | (7.0–30.2) | (1.4–14.3) | (77.8–224.8) | (6.3–23.3) | (70.0–126.6) | (11.4–36.3) | (8.8–24.9) | (13.6–32.2) | (77.2–152.7) |
| Azad Jammu & Kashmir | 5948.8 | 572.5 | 2707.9 | 1832.7 | 666.3 | 1023.2 | 143.2 | 358.1 | 21.6 | 12.7 | 8.6 | 0.3 | 170.9 | 16.6 | 5.3 | 149.0 | 12.4 | 94.9 | 22.3 | 16.2 | 24.2 | 114.9 |
| | (4911.4–7130.3) | (355.3–922.1) | (2098.6–3466.3) | (1352.6–2426.5) | (479.2–946.7) | (685.0–1451.4) | (76.1–271.4) | (227.0–540.8) | (12.3–33.6) | (7.3–20.8) | (4.9–14.5) | (0.1–0.7) | (96.5–272.1) | (7.3–32.7) | (1.4–14.7) | (82.6–238.8) | (6.7–23.2) | (70.4–130.7) | (13.7–36.9) | (9.1–26.0) | (15.1–35.7) | (78.4–160.9) |
| Balochistan | 4772.6 | 534.7 | 1900.2 | 1648.4 | 586.2 | 963.8 | 98.4 | 318.8 | 15.9 | 9.2 | 6.5 | 0.2 | 117.0 | 11.9 | 4.4 | 100.7 | 10.8 | 87.1 | 14.8 | 14.4 | 17.5 | 93.0 |
| | (3711.0–5880.9) | (263.7–922.0) | (1289.0–2532.3) | (1187.8–2199.7) | (400.1–902.8) | (569.0–1403.0) | (48.6–197.1) | (207.9–488.7) | (9.4–24.6) | (5.3–15.3) | (3.8–11.0) | (0.1–0.4) | (61.4–187.1) | (5.0–24.4) | (1.1–11.9) | (50.8–165.7) | (5.3–20.2) | (63.5–121.0) | (8.2–29.2) | (8.0–24.1) | (9.7–30.3) | (63.6–136.9) |
| Gilgit-Baltistan | 5607.6 | 655.5 | 2156.9 | 1965.0 | 645.5 | 1191.1 | 128.4 | 378.5 | 18.7 | 10.7 | 7.8 | 0.2 | 161.2 | 18.3 | 5.3 | 137.6 | 14.3 | 92.5 | 17.5 | 15.1 | 22.5 | 109.9 |
| | (4588.5–6825.6) | (371.7–1051.3) | (1478.2–3046.9) | (1396.2–2717.6) | (436.0–1004.6) | (770.3–1759.8) | (60.3–257.1) | (234.2–577.7) | (11.1–30.7) | (6.1–17.5) | (4.5–12.7) | (0.1–0.5) | (81.5–264.6) | (7.9–35.0) | (1.2–14.8) | (66.8–232.1) | (7.6–27.3) | (68.1–126.0) | (10.2–34.5) | (8.4–25.0) | (12.8–37.2) | (74.8–159.6) |
| Islamabad Capital Territory | 4698.8 | 270.6 | 2530.4 | 1124.0 | 440.1 | 563.1 | 120.7 | 294.4 | 22.6 | 15.1 | 7.2 | 0.3 | 161.3 | 11.1 | 4.4 | 145.9 | 10.4 | 104.4 | 29.8 | 17.0 | 22.0 | 111.9 |
| | (3722.2–6007.9) | (152.8–434.7) | (1943.7–3263.2) | (765.4–1590.8) | (292.7–650.1) | (354.5–863.0) | (72.3–195.5) | (183.8–454.3) | (13.5–36.9) | (8.8–24.5) | (4.1–11.8) | (0.1–0.7) | (94.5–258.9) | (4.9–20.7) | (1.2–11.2) | (85.9–231.4) | (5.0–20.2) | (77.9–139.2) | (16.7–48.1) | (9.8–26.9) | (13.8–33.8) | (78.5–152.7) |
| Khyber Pakhtunkhwa | 5634.8 | 527.0 | 2601.2 | 1750.8 | 684.6 | 965.3 | 100.9 | 353.3 | 17.6 | 10.5 | 6.9 | 0.2 | 132.0 | 12.8 | 4.4 | 114.8 | 11.8 | 88.5 | 18.0 | 14.2 | 19.1 | 101.3 |
| | (4568.1–6846.6) | (261.7–947.0) | (1917.2–3301.3) | (1244.0–2414.5) | (465.1–988.2) | (624.3–1385.8) | (53.6–188.0) | (220.9–541.2) | (10.4–27.5) | (5.9–17.9) | (3.9–11.1) | (0.1–0.5) | (70.9–208.4) | (5.7–24.9) | (1.1–11.5) | (60.4–183.8) | (6.3–21.8) | (64.9–123.0) | (10.6–31.4) | (8.1–23.0) | (10.8–31.6) | (71.0–149.0) |
| Punjab | 6863.0 | 536.1 | 3343.8 | 2130.1 | 839.5 | 1142.7 | 147.8 | 378.3 | 21.4 | 12.7 | 8.4 | 0.3 | 173.9 | 17.6 | 6.0 | 150.2 | 12.9 | 94.3 | 20.5 | 15.7 | 23.3 | 112.4 |
| | (5623.7–8183.2) | (319.6–860.6) | (2623.4–4234.9) | (1558.2–2914.1) | (579.4–1255.2) | (753.1–1681.2) | (77.3–236.7) | (231.2–585.1) | (12.7–33.3) | (7.3–21.2) | (4.7–13.7) | (0.1–0.7) | (95.1–285.9) | (7.9–34.0) | (1.5–14.9) | (83.0–247.6) | (6.7–25.0) | (71.5–128.7) | (12.0–37.0) | (8.9–25.1) | (14.4–35.3) | (79.3–161.2) |
| Sindh | 6533.7 | 503.9 | 3263.7 | 1969.7 | 798.7 | 1044.6 | 126.5 | 349.4 | 21.1 | 12.7 | 8.0 | 0.3 | 155.5 | 14.2 | 5.3 | 135.9 | 11.6 | 93.4 | 20.3 | 15.9 | 22.2 | 107.1 |
| | (5325.6–7758.7) | (265.2–867.5) | (2448.6–4132.9) | (1435.9–2712.1) | (539.4–1186.2) | (634.6–1578.5) | (68.7–244.9) | (215.5–534.3) | (12.7–32.0) | (7.2–20.4) | (4.6–13.4) | (0.1–0.7) | (87.8–255.9) | (6.4–28.0) | (1.4–13.6) | (77.5–225.3) | (5.6–22.1) | (69.2–128.7) | (11.6–37.9) | (8.8–26.0) | (13.7–33.7) | (76.9–151.9) |
| **Southeast Asia, East Asia, and Oceania** | **4742.2** | **89.9** | **1913.7** | **2234.1** | **853.3** | **1239.5** | **141.4** | **283.6** | **6.4** | **2.8** | **0.3** | **0.3** | **44.2** | **8.1** | **2.7** | **33.4** | **6.1** | **84.4** | **14.4** | **8.4** | **15.4** | **41.6** |
| | **(4279.0–5122.1)** | **(65.6–114.4)** | **(1688.1–2090.6)** | **(2010.2–2447.8)** | **(727.4–968.7)** | **(1087.3–1377.9)** | **(112.7–172.9)** | **(197.7–345.7)** | **(4.8–8.6)** | **(2.2–3.9)** | **(2.3–4.9)** | **(0.1–0.4)** | **(34.1–55.9)** | **(4.6–11.3)** | **(1.0–5.4)** | **(24.3–44.3)** | **(4.4–9.7)** | **(67.7–108.7)** | **(11.8–17.2)** | **(4.7–14.5)** | **(12.0–21.2)** | **(32.3–51.8)** |
| East Asia | 4088.6 | 64.4 | 1693.1 | 1925.9 | 800.7 | 1015.4 | 109.8 | 230.9 | 4.9 | 2.0 | 2.7 | 0.2 | 29.0 | 9.9 | 2.5 | 16.5 | 5.8 | 80.0 | 12.2 | 8.0 | 4.4 | 30.1 |
| | (3629.8–4467.2) | (51.0–78.0) | (1497.7–1854.2) | (1704.3–2139.2) | (685.5–914.7) | (883.5–1149.1) | (86.1–134.2) | (159.9–280.4) | (3.7–6.7) | (1.5–2.5) | (1.9–3.9) | (0.1–0.4) | (21.8–37.5) | (5.5–14.3) | (1.0–4.9) | (11.6–22.6) | (4.0–8.3) | (64.5–103.9) | (9.3–15.1) | (4.2–14.2) | (3.4–5.6) | (23.4–38.5) |
| China | 4072.6 | 64.1 | 1694.2 | 1917.9 | 802.7 | 1006.5 | 108.7 | 227.3 | 4.4 | 1.6 | 2.6 | 0.2 | 27.5 | 9.7 | 2.3 | 15.5 | 5.7 | 79.5 | 11.2 | 8.0 | 3.3 | 29.4 |
| | (3602.5–4457.4) | (48.9–78.2) | (1496.5–1865.5) | (1688.8–2137.1) | (678.7–921.4) | (873.0–1142.5) | (82.7–135.2) | (155.1–276.8) | (3.3–6.1) | (1.2–2.2) | (1.8–3.7) | (0.1–0.4) | (20.3–36.4) | (5.2–14.4) | (0.8–4.3) | (10.5–21.8) | (3.9–8.3) | (64.4–103.4) | (8.1–14.2) | (4.2–14.4) | (2.3–4.5) | (22.8–37.8) |
| Democratic People's Republic of Korea | 7938.0 | 132.1 | 2918.9 | 4054.6 | 1367.1 | 2472.6 | 215.0 | 542.5 | 9.1 | 3.4 | 5.5 | 0.3 | 82.3 | 21.4 | 8.5 | 52.4 | 10.2 | 107.9 | 21.9 | 7.3 | 8.1 | 42.9 |
| | (6794.2–9029.9) | (64.0–257.8) | (2012.5–3711.2) | (3131.8–5171.8) | (881.5–2122.4) | (1781.7–3581.8) | (78.1–458.2) | (311.2–894.1) | (4.1–20.7) | (1.5–7.8) | (2.0–13.4) | (0.1–0.9) | (38.4–144.1) | (9.2–40.0) | (2.0–32.0) | (22.1–94.3) | (4.1–22.8) | (68.5–145.3) | (12.6–33.5) | (4.1–12.2) | (3.7–14.8) | (26.3–59.2) |
| Taiwan | 2083.3 | 20.3 | 758.3 | 756.2 | 307.0 | 366.4 | 82.7 | 201.6 | 26.4 | 16.8 | 9.7 | 0.03 | 50.7 | 7.0 | 7.6 | 36.1 | 4.3 | 89.0 | 60.6 | 5.6 | 55.8 | 54.5 |
| | (1852.9–2273.1) | (15.6–26.1) | (676.2–838.6) | (659.1–846.6) | (261.0–355.6) | (306.0–421.7) | (69.0–94.7) | (171.1–229.5) | (22.2–30.6) | (14.1–19.4) | (7.9–11.5) | (0.01–0.1) | (41.8–61.6) | (5.4–9.2) | (5.6–10.1) | (29.6–43.5) | (3.4–5.1) | (70.8–111.8) | (53.5–68.6) | (2.8–9.9) | (46.5–64.2) | (41.6–68.5) |
| Oceania | 10343.7 | 903.1 | 5126.6 | 3206.1 | 742.7 | 2231.2 | 232.2 | 546.9 | 23.5 | 19.9 | 3.4 | 0.2 | 146.4 | 5.8 | 3.2 | 137.3 | 10.7 | 129.1 | 51.6 | 14.9 | 78.0 | 106.9 |
| | (8904.5–11718.9) | (476.4–1399.4) | (4164.5–6093.1) | (2498.4–4049.8) | (547.7–1030.3) | (1690.6–2847.1) | (137.6–404.3) | (384.1–792.4) | (14.7–36.5) | (12.0–30.9) | (2.0–5.8) | (0.1–0.5) | (78.0–243.9) | (2.8–10.4) | (1.0–8.7) | (72.9–226.9) | (3.6–25.6) | (100.3–162.4) | (36.3–72.8) | (9.8–22.1) | (49.4–119.5) | (76.5–145.3) |
| American Samoa | 7656.2 | 215.3 | 4014.9 | 2368.8 | 632.5 | 1527.5 | 208.8 | 295.3 | 46.0 | 32.7 | 9.9 | 3.4 | 238.7 | 1.0 | 5.6 | 232.2 | 3.5 | 147.0 | 57.9 | 22.4 | 93.3 | 153.0 |
| | (6340.8–8796.2) | (152.6–286.6) | (3140.2–4916.8) | (1789.3–3021.8) | (491.8–833.4) | (1096.8–1976.1) | (148.2–288.6) | (199.7–412.3) | (29.2–68.4) | (20.3–50.7) | (5.3–17.5) | (1.7–7.9) | (147.7–344.1) | (0.5–1.9) | (1.7–18.6) | (145.2–333.6) | (1.3–8.9) | (108.4–212.5) | (39.2–78.7) | (14.3–33.3) | (66.6–144.2) | (107.8–202.4) |
| Cook Islands | 7117.0 | 78.5 | 3116.9 | 1701.5 | 557.5 | 935.9 | 208.1 | 1754.8 | 4.4 | 3.2 | 1.1 | 0.03 | 17.3 | 0.2 | 0.02 | 17.0 | 7.0 | 194.9 | 137.6 | 25.8 | 58.0 | 20.4 |
| | (6124.0–8224.6) | (50.8–112.9) | (2353.1–3884.6) | (1250.4–2232.6) | (434.4–720.3) | (636.8–1315.3) | (131.0–316.3) | (1271.2–2258.6) | (2.7–6.4) | (1.9–4.8) | (0.7–1.9) | (0.02–0.04) | (9.5–27.2) | (0.1–0.3) | (0.005–0.05) | (9.3–26.9) | (2.5–17.3) | (151.6–249.1) | (68.1–229.2) | (15.0–42.0) | (33.1–86.3) | (13.9–28.0) |
| Micronesia (Federated States of) | 10640.9 | 285.0 | 5326.5 | 4009.8 | 1192.1 | 2511.2 | 306.5 | 456.5 | 38.7 | 28.5 | 8.6 | 1.6 | 73.1 | 0.4 | 1.5 | 71.2 | 4.7 | 172.5 | 31.0 | 52.3 | 30.5 | 160.2 |
| | (9256.9–12030.7) | (199.4–384.8) | (4388.2–6288.4) | (3185.5–4844.4) | (947.8–1514.3) | (1931.6–3175.9) | (218.3–443.1) | (313.1–624.9) | (24.1–57.2) | (15.4–47.1) | (4.2–14.7) | (0.5–3.6) | (45.4–102.9) | (0.2–0.6) | (0.5–3.8) | (44.0–99.8) | (1.8–11.6) | (135.5–213.4) | (21.4–41.9) | (34.4–81.3) | (16.4–48.6) | (113.0–214.1) |
| Fiji | 10147.2 | 335.1 | 6013.0 | 2676.5 | 719.2 | 1675.3 | 281.9 | 548.7 | 12.2 | 8.5 | 3.6 | 0.1 | 122.3 | 3.6 | 0.4 | 118.3 | 4.5 | 140.9 | 75.6 | 12.1 | 84.5 | 121.9 |
| | (9090.3–11256.1) | (241.0–446.7) | (5207.3–6844.5) | (2170.5–3256.8) | (561.2–912.8) | (1332.3–2113.6) | (201.1–363.0) | (393.4–782.7) | (8.4–17.0) | (5.3–12.7) | (2.1–4.9) | (0.1–0.3) | (82.1–165.6) | (2.1–5.7) | (0.2–0.9) | (79.2–160.2) | (1.7–11.8) | (110.8–174.1) | (53.6–101.6) | (7.5–17.9) | (57.6–118.2) | (87.6–164.1) |
| Guam | 6851.8 | 135.4 | 4532.4 | 1450.9 | 339.7 | 825.8 | 285.4 | 196.9 | 27.5 | 19.2 | 8.2 | 0.03 | 125.8 | 4.3 | 1.7 | 119.8 | 7.1 | 108.9 | 61.6 | 31.5 | 59.7 | 114.0 |
| | (6414.0–7275.0) | (113.6–159.2) | (4231.9–4825.6) | (1297.3–1615.3) | (286.4–395.8) | (734.4–921.4) | (244.1–331.5) | (170.8–228.0) | (23.5–32.2) | (16.5–22.7) | (6.8–10.2) | (0.008–0.1) | (104.9–148.2) | (3.2–5.7) | (1.2–2.3) | (99.5–141.8) | (5.2–9.5) | (91.1–134.7) | (50.1–74.6) | (26.4–37.6) | (50.8–70.0) | (96.5–134.1) |
| Kiribati | 6544.9 | 270.4 | 2598.5 | 3012.2 | 681.2 | 2020.5 | 310.5 | 216.7 | 61.4 | 50.9 | 10.2 | 0.3 | 96.0 | 14.4 | 4.9 | 76.7 | 4.5 | 72.8 | 5.5 | 12.6 | 47.5 | 146.9 |
| | (5556.7–7725.7) | (174.6–402.2) | (1981.5–3264.0) | (2267.0–3874.2) | (476.0–960.9) | (1464.6–2750.3) | (192.0–477.9) | (127.4–342.0) | (34.7–100.5) | (26.5–86.7) | (5.5–19.0) | (0.1–0.6) | (47.0–159.2) | (5.5–30.0) | (1.4–12.6) | (38.7–130.0) | (1.6–10.5) | (52.2–96.8) | (3.4–8.1) | (7.7–19.2) | (28.2–77.5) | (88.6–219.8) |
| Marshall Islands | 16346.0 | 482.3 | 7808.3 | 6382.2 | 1451.3 | 4511.7 | 419.2 | 955.3 | 28.7 | 25.5 | 2.9 | 0.3 | 165.1 | 3.2 | 3.5 | 158.5 | 7.5 | 223.8 | 67.9 | 26.0 | 72.3 | 126.6 |
| | (13987.9–18637.9) | (319.6–696.2) | (6050.6–9676.5) | (4992.0–8137.8) | (1058.6–2087.4) | (3383.8–5790.2) | (248.2–693.1) | (621.6–1490.3) | (18.0–45.3) | (15.8–41.0) | (1.6–5.3) | (0.1–0.7) | (101.4–257.6) | (1.3–6.6) | (1.1–9.1) | (97.8–247.2) | (2.7–18.5) | (167.0–293.3) | (43.9–101.3) | (17.1–39.1) | (43.3–108.4) | (81.5–211.2) |
| Nauru | 20913.7 | 600.6 | 10447.7 | 7980.3 | 1794.5 | 5512.2 | 673.6 | 973.3 | 43.5 | 37.8 | 5.0 | 0.6 | 241.2 | 5.5 | 4.7 | 231.0 | 10.1 | 238.1 | 93.2 | 23.1 | 98.7 | 163.8 |
| | (17181.1–24522.1) | (401.5–852.5) | (7836.0–12951.5) | (5878.2–10385.4) | (1233.4–2666.2) | (3942.6–7169.2) | (411.8–1094.4) | (593.7–1529.9) | (25.4–72.2) | (20.8–64.0) | (2.5–10.0) | (0.2–1.7) | (136.1–399.4) | (1.8–12.2) | (1.6–10.9) | (130.0–386.2) | (3.8–22.7) | (178.2–324.2) | (59.2–132.8) | (15.5–32.6) | (55.0–161.5) | (103.8–255.5) |
| Niue | 8706.8 | 239.4 | 4539.9 | 3021.1 | 815.6 | 1923.9 | 281.5 | 430.4 | 23.4 | 20.2 | 2.9 | 0.4 | 104.8 | 2.5 | 2.0 | 100.3 | 3.8 | 139.1 | 51.0 | 13.8 | 49.5 | 90.8 |
| | (7349.1–10076.9) | (164.1–337.0) | (3365.3–5602.3) | (2252.5–4000.7) | (574.9–1100.4) | (1301.8–2614.9) | (183.2–418.8) | (280.0–642.3) | (14.1–38.0) | (11.7–34.1) | (1.6–5.3) | (0.1–0.9) | (59.1–165.6) | (0.9–5.0) | (0.7–4.9) | (55.4–158.5) | (1.5–9.0) | (103.8–181.9) | (32.5–70.8) | (9.3–20.7) | (27.7–78.0) | (62.6–122.9) |
| Northern Mariana Islands | 7334.5 | 168.3 | 3748.7 | 2582.9 | 628.0 | 1619.1 | 335.8 | 128.9 | 51.1 | 47.6 | 3.0 | 0.4 | 139.1 | 5.7 | 4.5 | 128.9 | 3.2 | 185.3 | 50.5 | 24.8 | 48.2 | 203.3 |
| | (6389.7–8291.2) | (113.2–242.9) | (3058.7–4459.2) | (2055.7–3223.9) | (499.4–791.7) | (1235.4–2015.9) | (231.5–504.5) | (78.8–211.2) | (30.0–86.3) | (27.6–80.6) | (1.3–8.0) | (0.02–2.2) | (88.3–193.2) | (2.7–9.5) | (1.7–15.5) | (82.8–180.9) | (1.2–9.2) | (142.9–236.1) | (34.7–75.2) | (17.1–33.9) | (25.9–75.2) | (146.4–265.6) |
| Palau | 9012.5 | 318.5 | 4932.7 | 3126.1 | 1015.1 | 1841.8 | 269.1 | 195.7 | 17.3 | 10.4 | 2.5 | 0.2 | 99.8 | 1.9 | 1.2 | 96.6 | 4.2 | 118.3 | 34.3 | 14.5 | 35.3 | 113.1 |
| | (7900.2–10108.2) | (220.0–432.9) | (3950.5–5957.3) | (2391.7–3984.4) | (764.9–1365.8) | (1338.3–2373.3) | (185.8–384.3) | (120.8–279.1) | (12.7–30.3) | (10.4–26.9) | (1.5–4.0) | (0.1–0.5) | (61.0–153.1) | (0.9–3.9) | (0.4–2.8) | (58.8–148.1) | (1.4–12.2) | (89.2–154.0) | (19.5–58.5) | (9.4–21.7) | (21.2–52.5) | (77.2–150.8) |
| Papua New Guinea | 10173.6 | 1070.8 | 4824.3 | 3121.6 | 702.0 | 2213.6 | 206.0 | 579.3 | 24.6 | 21.3 | 3.1 | 0.2 | 156.2 | 6.5 | 3.6 | 146.1 | 12.4 | 128.7 | 49.6 | 13.8 | 84.6 | 107.5 |
| | (8540.4–11816.0) | (542.5–1718.5) | (3665.0–6020.3) | (2297.4–4153.3) | (470.7–1049.1) | (1535.7–2971.5) | (112.5–408.7) | (389.8–880.5) | (14.8–39.5) | (12.5–34.5) | (1.8–5.8) | (0.1–0.5) | (75.4–273.1) | (3.0–11.9) | (1.1–9.9) | (70.0–255.1) | (4.0–30.1) | (98.5–164.9) | (32.3–74.5) | (8.6–21.2) | (50.0–135.6) | (72.4–154.8) |
| Samoa | 7974.7 | 270.8 | 4191.3 | 2625.7 | 651.4 | 1713.3 | 261.0 | 430.4 | 19.0 | 16.2 | 2.6 | 0.2 | 109.2 | 2.5 | 2.1 | 104.7 | 6.0 | 125.9 | 41.7 | 15.4 | 38.6 | 100.6 |
| | (6680.5–9380.6) | (175.4–407.9) | (3237.9–5397.0) | (1934.3–3395.3) | (444.2–878.4) | (1222.9–2438.9) | (145.9–408.3) | (278.5–673.3) | (12.4–30.9) | (9.8–26.7) | (1.5–4.6) | (0.1–0.5) | (60.9–166.8) | (1.2–4.5) | (0.7–5.1) | (58.2–161.7) | (2.1–16.2) | (89.9–168.4) | (26.6–63.0) | (9.9–22.9) | (21.3–60.4) | (60.8–153.1) |
| Solomon Islands | 16994.2 | 649.6 | 8788.8 | 6498.1 | 1390.0 | 4674.2 | 434.0 | 584.2 | 20.2 | 17.5 | 2.6 | 0.2 | 137.7 | 2.8 | 3.7 | 131.2 | 7.9 | 114.2 | 41.4 | 15.8 | 52.1 | 84.2 |
| | (14735.5–19297.7) | (329.8–969.0) | (6990.4–10677.5) | (5039.1–8147.7) | (932.2–1990.3) | (3461.3–5885.1) | (218.4–753.3) | (404.1–859.1) | (13.4–32.0) | (11.1–28.4) | (1.5–4.4) | (0.1–0.4) | (70.1–223.5) | (1.4–5.2) | (0.9–10.8) | (66.4–213.2) | (2.9–19.8) | (87.2–146.1) | (26.8–64.6) | (10.2–23.7) | (31.7–83.6) | (56.0–132.4) |
| Tokelau | 6787.2 | 158.4 | 3604.9 | 2340.9 | 765.1 | 1377.5 | 198.4 | 313.7 | 15.6 | 13.3 | 2.1 | 0.2 | 74.9 | 1.7 | 1.1 | 72.0 | 2.9 | 117.6 | 42.1 | 13.4 | 30.0 | 72.7 |
| | (5746.8–7854.8) | (105.9–228.8) | (2820.9–4328.4) | (1728.6–3048.7) | (561.6–1097.4) | (961.6–1934.7) | (137.2–303.9) | (202.5–466.4) | (9.7–23.2) | (8.1–20.8) | (1.3–3.6) | (0.1–0.5) | (42.4–117.7) | (0.7–3.6) | (0.4–2.6) | (40.6–113.3) | (1.0–7.5) | (86.6–155.4) | (25.0–63.7) | (8.8–20.3) | (16.9–47.5) | (49.6–98.4) |
| Tonga | 8240.9 | 223.1 | 4450.0 | 2617.9 | 823.4 | 1556.1 | 238.4 | 289.7 | 29.0 | 25.9 | 2.8 | 0.3 | 129.9 | 2.3 | 2.5 | 125.2 | 6.9 | 194.9 | 85.0 | 19.5 | 57.9 | 136.9 |
| | (7002.1–9707.4) | (149.0–326.7) | (3543.4–5524.4) | (1930.8–3541.4) | (485.3–1191.7) | (1065.7–2193.3) | (114.8–382.2) | (190.0–423.3) | (18.3–46.2) | (15.8–42.5) | (1.6–5.2) | (0.1–0.7) | (76.2–199.8) | (1.1–4.0) | (0.8–6.0) | (73.4–194.6) | (2.4–18.7) | (138.8–266.8) | (55.0–123.4) | (12.4–28.6) | (36.1–86.9) | (89.6–202.1) |
| Tuvalu | 16460.3 | 575.4 | 7777.6 | 6511.6 | 1737.9 | 4227.8 | 508.2 | 832.8 | 35.9 | 29.0 | 3.8 | 0.3 | 225.4 | 5.2 | 3.5 | 216.8 | 6.9 | 180.3 | 85.0 | 20.4 | 73.1 | 149.4 |
| | (14096.3–19021.3) | (396.6–834.9) | (5569.8–9971.1) | (4527.1–9018.9) | (962.1–2853.5) | (2630.5–6140.4) | (272.4–829.7) | (515.6–1230.6) | (21.4–60.6) | (18.5–54.5) | (2.0–6.8) | (0.1–0.7) | (132.8–338.1) | (0.9–9.7) | (0.9–9.7) | (128.5–325.0) | (3.3–21.8) | (130.5–239.9) | (34.9–104.6) | (12.9–31.5) | (42.3–117.7) | (94.9–224.6) |
| Vanuatu | 11291.6 | 450.6 | 5897.0 | 4089.3 | 986.1 | 2810.4 | 292.8 | 459.0 | 15.5 | 13.0 | 2.3 | 0.1 | 107.7 | 2.2 | 2.4 | 103.1 | 5.8 | 101.7 | 38.8 | 12.5 | 38.6 | 74.9 |
| | (9577.0–12890.3) | (272.5–663.2) | (4422.2–7344.3) | (3145.7–5241.6) | (685.2–1404.5) | (2058.9–3837.5) | (161.1–483.5) | (307.0–669.4) | (9.7–25.4) | (7.8–21.8) | (1.4–3.6) | (0.1–0.3) | (57.5–173.1) | (1.1–4.0) | (0.5–7.4) | (55.4–162.9) | (2.0–14.2) | (74.2–131.9) | (26.4–57.1) | (8.0–19.0) | (20.6–62.6) | (48.8–105.7) |
| Southeast Asia | 6275.0 | 107.9 | 2378.9 | 3027.8 | 1014.9 | 1797.3 | 215.6 | 428.4 | 10.1 | 5.3 | 4.5 | 0.3 | 81.0 | 4.7 | 3.1 | 73.2 | 5.4 | 99.8 | 22.3 | 9.5 | 39.1 | 64.7 |
| | (5615.9–6822.9) | (71.4–157.7) | (2005.8–2724.6) | (2633.2–3442.2) | (783.2–1231.0) | (1471.4–2148.2) | (159.4–286.9) | (287.3–586.7) | (7.1–15.1) | (3.7–8.0) | (2.8–7.9) | (0.1–0.7) | (54.5–108.8) | (2.4–8.8) | (1.0–7.5) | (49.2–100.2) | (2.2–13.0) | (78.0–131.4) | (17.7–27.8) | (5.8–15.3) | (29.3–56.3) | (45.3–89.0) |
| Cambodia | 6119.8 | 183.2 | 2448.3 | 2709.4 | 848.7 | 1705.2 | 155.5 | 480.1 | 6.3 | 2.7 | 3.4 | 0.2 | 85.0 | 7.8 | 3.4 | 73.8 | 7.1 | 86.4 | 13.1 | 9.3 | 34.1 | 57.5 |
| | (5228.0–7163.7) | (105.2–302.0) | (1847.7–3093.0) | (2080.3–3308.4) | (627.9–1178.8) | (1251.2–2140.2) | (103.4–243.0) | (257.8–836.5) | (3.2–13.0) | (1.3–6.2) | (1.6–7.6) | (0.05–0.5) | (47.5–133.8) | (3.6–14.1) | (1.0–8.9) | (41.3–113.1) | (2.2–17.1) | (62.5–115.4) | (7.8–20.1) | (5.5–15.3) | (18.7–60.1) | (36.7–97.2) |
| Indonesia | 7263.5 | 105.3 | 2734.4 | 3619.3 | 1157.8 | 2242.3 | 219.1 | 502.9 | 7.2 | 3.3 | 3.7 | 0.3 | 83.7 | 5.3 | 2.9 | 75.5 | 4.9 | 95.2 | 11.9 | 10.1 | 29.6 | 59.0 |
| | (6303.5–8172.4) | (61.2–165.5) | (2117.8–3322.4) | (2953.0–4332.4) | (746.8–1544.4) | (1692.6–2868.0) | (136.0–349.9) | (298.0–751.7) | (3.8–14.8) | (1.6–7.4) | (1.7–8.0) | (0.1–0.7) | (50.0–130.3) | (2.1–10.8) | (0.7–7.4) | (43.7–117.8) | (1.5–12.3) | (71.3–130.6) | (7.5–20.6) | (5.7–16.3) | (16.7–53.0) | (38.2–90.8) |
| Aceh | 6940.2 | 107.2 | 2689.8 | 3347.8 | 1042.3 | 2099.1 | 206.5 | 492.8 | 7.2 | 3.3 | 3.7 | 0.3 | 87.5 | 5.2 | 3.8 | 78.5 | 4.4 | 90.7 | 10.4 | 10.6 | 32.0 | 59.8 |
| | (5831.5–8123.4) | (62.5–168.0) | (1970.7–3402.4) | (2680.0–4207.9) | (662.6–1412.0) | (1526.7–2782.6) | (117.0–364.1) | (270.8–759.5) | (3.7–14.9) | (1.6–7.8) | (1.7–8.1) | (0.1–0.6) | (50.3–139.2) | (2.1–10.4) | (0.8–9.6) | (43.1–127.1) | (1.4–11.3) | (65.3–123.6) | (6.1–21.0) | (6.0–17.1) | (16.9–56.9) | (38.6–94.1) |
| Bali | 5047.3 | 77.8 | 1835.0 | 2521.5 | 781.6 | 1575.2 | 164.6 | 376.8 | 5.8 | 2.6 | 3.0 | 0.2 | 58.3 | 3.3 | 1.9 | 53.1 | 3.7 | 82.7 | 8.2 | 8.5 | 22.0 | 47.0 |
| | (4211.4–5869.7) | (46.2–120.5) | (1360.2–2345.6) | (1981.9–3100.1) | (531.5–1031.0) | (1198.1–2075.4) | (108.5–239.7) | (213.5–565.8) | (3.0–11.4) | (1.3–5.4) | (1.4–6.3) | (0.1–0.5) | (34.0–87.3) | (1.6–6.3) | (0.5–4.7) | (30.5–80.4) | (1.2–9.4) | (60.9–112.8) | (4.9–14.8) | (4.7–14.2) | (12.7–38.1) | (30.8–70.8) |
| Bangka-Belitung Islands | 7204.6 | 83.1 | 2680.7 | 3791.1 | 1222.7 | 2358.6 | 209.9 | 400.0 | 5.8 | 2.5 | 3.1 | 0.2 | 66.9 | 5.0 | 2.1 | 59.8 | 3.7 | 86.8 | 7.8 | 9.8 | 21.7 | 47.0 |
| | (5847.5–8640.8) | (45.9–128.0) | (1955.6–3412.1) | (2934.6–4776.1) | (721.1–1730.5) | (1679.0–3171.8) | (114.9–364.9) | (222.9–612.7) | (3.1–11.3) | (1.3–5.4) | (1.5–6.6) | (0.1–0.5) | (35.8–105.8) | (1.8–10.6) | (0.5–5.3) | (31.8–97.6) | (1.1–9.1) | (62.6–120.5) | (4.3–16.8) | (5.4–16.1) | (11.9–37.4) | (30.7–69.7) |
| Banten | 7622.7 | 111.9 | 3031.4 | 3648.2 | 1120.7 | 2301.3 | 226.1 | 521.3 | 7.3 | 3.2 | 3.8 | 0.3 | 89.6 | 5.2 | 3.2 | 80.9 | 5.2 | 96.2 | 10.3 | 10.2 | 32

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lampung | 6302.7 (5299.1–7325.0) | 101.5 (58.8–165.1) | 1916.1 (1392.7–2423.4) | 3522.0 (2797.4–4191.8) | 1130.9 (677.9–1579.5) | 2183.9 (1587.5–2821.4) | 207.2 (132.9–323.3) | 480.2 (282.6–754.9) | 6.7 (3.6–13.1) | 3.0 (1.5–7.0) | 3.5 (1.6–7.7) | 0.2 (0.1–0.6) | 79.0 (45.6–123.2) | 4.9 (2.0–10.5) | 2.9 (0.7–7.4) | 71.3 (40.1–112.6) | 4.7 (1.4–11.8) | 91.4 (65.6–125.8) | 9.6 (5.5–19.7) | 10.0 (5.6–16.6) | 27.1 (14.7–46.6) | 54.6 (35.2–83.1) |
| Maluku | 7883.2 (6529.7–9343.4) | 124.6 (74.1–179.6) | 1986.2 (1448.8–2602.3) | 4763.6 (3813.5–5731.4) | 1435.6 (870.7–1998.3) | 3068.2 (2279.5–3977.6) | 259.8 (160.6–412.7) | 662.6 (374.0–1034.1) | 7.6 (3.9–16.9) | 3.4 (1.6–8.3) | 4.0 (1.8–9.5) | 0.2 (0.1–0.6) | 106.5 (59.4–176.6) | 7.1 (2.8–15.7) | 4.7 (1.0–12.6) | 94.8 (51.8–159.9) | 5.3 (1.5–14.3) | 99.4 (72.8–130.5) | 11.5 (6.4–24.4) | 10.4 (5.6–16.4) | 36.6 (19.1–66.4) | 68.9 (42.7–108.8) |
| North Maluku | 7834.8 (6681.9–9040.3) | 111.2 (68.2–160.4) | 3578.2 (2750.6–4413.1) | 3016.3 (2324.8–3709.8) | 984.2 (629.6–1365.4) | 1876.7 (1364.7–2530.7) | 155.4 (93.4–280.7) | 776.0 (436.7–1218.9) | 8.0 (4.1–17.9) | 3.7 (1.8–10.0) | 4.1 (1.7–10.1) | 0.2 (0.1–0.7) | 108.0 (57.1–193.9) | 6.0 (2.6–11.4) | 4.9 (1.0–13.9) | 97.1 (50.7–175.2) | 4.7 (1.4–12.5) | 105.7 (78.0–139.7) | 13.6 (7.4–29.5) | 11.7 (6.5–18.5) | 34.0 (17.1–69.3) | 67.5 (43.0–112.2) |
| West Nusa Tenggara | 7928.7 (6610.3–9248.8) | 135.8 (78.9–207.9) | 2651.1 (1920.3–3393.7) | 4195.7 (3372.1–5087.6) | 1279.5 (769.4–1821.9) | 2674.8 (1963.4–3504.9) | 241.4 (151.5–398.3) | 606.6 (356.8–943.8) | 7.6 (3.9–15.7) | 3.4 (1.6–8.3) | 3.9 (1.8–9.2) | 0.2 (0.1–0.6) | 106.6 (59.2–172.3) | 7.6 (3.2–16.1) | 4.4 (1.0–11.7) | 94.7 (52.5–152.4) | 6.2 (1.9–16.1) | 96.2 (69.9–131.5) | 11.1 (6.2–23.8) | 10.9 (6.2–17.5) | 34.7 (18.6–61.8) | 66.2 (41.6–105.2) |
| East Nusa Tenggara | 7155.4 (5940.6–8286.1) | 161.2 (97.5–252.5) | 2450.9 (1755.4–3107.4) | 3593.8 (2790.0–4395.4) | 1013.1 (574.5–1437.8) | 2370.9 (1799.7–3126.9) | 209.9 (133.3–336.5) | 618.1 (378.3–978.5) | 7.8 (3.8–16.7) | 3.3 (1.6–8.0) | 4.2 (1.8–10.1) | 0.3 (0.1–0.7) | 98.1 (56.8–162.0) | 6.0 (2.7–12.5) | 3.5 (1.0–9.8) | 88.5 (50.9–144.7) | 6.3 (1.8–15.8) | 93.4 (68.4–125.3) | 9.6 (5.2–21.2) | 9.7 (5.4–15.8) | 39.3 (21.3–74.5) | 67.4 (41.3–114.1) |
| Papua | 9037.1 (7534.3–10634.5) | 139.7 (66.2–231.9) | 3200.6 (2257.1–4154.6) | 4864.6 (3826.6–5897.7) | 1251.1 (765.6–1894.7) | 3365.9 (2364.9–4273.9) | 247.6 (116.7–562.7) | 502.0 (251.2–810.0) | 7.1 (3.7–14.1) | 3.0 (1.5–6.9) | 3.9 (1.8–8.5) | 0.3 (0.1–0.6) | 97.4 (52.7–162.5) | 8.4 (2.9–17.0) | 3.5 (0.8–9.4) | 85.4 (44.5–143.6) | 5.4 (1.6–13.3) | 96.2 (71.7–130.1) | 9.1 (5.0–20.7) | 9.7 (5.3–15.8) | 36.2 (19.1–65.8) | 69.2 (41.8–109.7) |
| West Papua | 6426.0 (5314.5–7527.9) | 86.0 (49.0–134.0) | 2238.4 (1563.4–2900.7) | 3389.0 (2682.7–4186.1) | 1052.6 (661.1–1581.3) | 2151.5 (1521.4–2844.0) | 184.9 (103.3–319.7) | 440.5 (223.6–682.9) | 6.5 (3.4–13.4) | 2.9 (1.5–6.6) | 3.5 (1.7–7.4) | 0.2 (0.1–0.6) | 73.6 (41.1–119.1) | 4.4 (1.8–8.8) | 2.7 (0.6–7.0) | 66.5 (34.6–107.4) | 3.6 (1.2–8.8) | 91.9 (66.9–124.5) | 8.8 (5.0–19.5) | 10.0 (5.4–16.1) | 25.9 (13.8–46.7) | 51.8 (34.4–79.9) |
| Riau | 6408.2 (5238.7–7560.4) | 85.2 (42.2–143.7) | 2398.8 (1740.5–3049.7) | 3240.5 (2443.5–3942.5) | 960.7 (640.7–1414.2) | 2056.6 (1486.8–2706.0) | 223.2 (114.5–397.1) | 400.8 (212.0–603.7) | 7.1 (3.8–14.7) | 3.3 (1.6–7.0) | 3.5 (1.6–8.1) | 0.3 (0.1–0.7) | 73.3 (39.6–113.8) | 4.7 (2.0–9.1) | 2.6 (0.5–6.6) | 66.0 (35.6–106.7) | 4.7 (1.3–12.2) | 92.8 (65.8–123.5) | 10.3 (6.2–19.1) | 9.9 (5.5–15.7) | 28.2 (15.0–49.3) | 56.6 (36.3–85.1) |
| West Sulawesi | 7090.6 (5910.5–8082.0) | 109.8 (68.5–161.0) | 2759.4 (2072.5–3475.8) | 3356.0 (2659.0–4145.1) | 1022.9 (635.2–1400.1) | 2156.9 (1589.3–2736.5) | 176.1 (106.9–311.6) | 558.3 (334.1–885.8) | 6.8 (3.5–13.8) | 2.9 (1.5–6.8) | 3.6 (1.6–8.0) | 0.2 (0.1–0.6) | 90.9 (49.7–144.1) | 7.0 (2.8–15.0) | 3.3 (0.8–9.1) | 80.5 (44.6–129.5) | 5.3 (1.6–14.5) | 95.8 (69.3–132.5) | 9.3 (5.3–20.6) | 10.4 (5.9–16.3) | 29.3 (15.5–53.1) | 59.4 (37.3–95.0) |
| South Sulawesi | 6822.2 (5743.8–7874.7) | 105.4 (63.8–163.4) | 2612.9 (1965.6–3311.8) | 3237.5 (2594.0–3979.4) | 969.2 (605.8–1301.4) | 2068.8 (1523.2–2684.9) | 199.4 (122.9–323.3) | 550.6 (323.3–827.3) | 7.4 (3.8–15.5) | 3.4 (1.6–7.9) | 3.8 (1.7–8.3) | 0.3 (0.1–0.7) | 91.2 (51.7–139.8) | 6.0 (2.6–12.4) | 3.2 (0.8–8.8) | 82.0 (45.5–126.2) | 5.3 (1.7–13.0) | 96.8 (71.9–131.2) | 10.8 (6.3–22.3) | 10.2 (5.9–16.3) | 31.4 (16.7–57.9) | 62.8 (40.6–101.2) |
| Central Sulawesi | 7884.1 (6649.0–9148.9) | 105.9 (61.7–156.3) | 3151.0 (2289.9–3981.1) | 3746.6 (2918.3–4688.6) | 1104.2 (708.6–1568.3) | 2449.4 (1760.2–3202.6) | 192.9 (104.7–359.8) | 568.4 (295.6–878.9) | 7.1 (3.6–14.5) | 3.1 (1.6–7.1) | 3.8 (1.7–8.4) | 0.2 (0.1–0.6) | 92.9 (49.0–156.9) | 6.9 (2.6–13.7) | 3.7 (0.8–9.5) | 82.3 (44.1–139.7) | 4.8 (1.4–12.8) | 95.2 (70.4–128.9) | 10.1 (5.7–22.5) | 10.6 (5.9–17.3) | 30.1 (15.4–55.1) | 61.3 (39.9–98.2) |
| Southeast Sulawesi | 7807.1 (6440.5–9021.1) | 119.0 (67.8–189.1) | 2975.4 (2166.2–3717.8) | 3947.7 (3106.6–4826.0) | 1199.6 (790.7–1648.0) | 2534.5 (1908.1–3214.2) | 213.5 (123.8–389.2) | 480.8 (265.5–750.0) | 6.6 (3.5–12.8) | 2.7 (1.3–6.0) | 3.6 (1.7–7.9) | 0.2 (0.1–0.6) | 81.2 (45.0–131.0) | 5.8 (2.3–12.1) | 2.9 (0.7–7.3) | 72.5 (40.5–118.6) | 4.7 (1.4–11.5) | 87.6 (64.7–121.8) | 9.0 (5.0–18.5) | 10.3 (5.8–17.1) | 29.1 (15.6–50.5) | 55.6 (35.4–86.4) |
| North Sulawesi | 6890.1 (5722.7–8087.0) | 75.0 (45.7–110.6) | 2337.4 (1665.5–3015.4) | 3777.1 (3020.9–4691.1) | 1181.2 (761.7–1682.2) | 2386.1 (1782.0–3074.7) | 209.7 (125.8–339.6) | 442.1 (243.5–692.3) | 6.1 (3.3–12.4) | 2.7 (1.4–6.1) | 3.2 (1.5–6.7) | 0.2 (0.1–0.5) | 68.7 (38.1–111.8) | 4.1 (1.7–8.4) | 2.6 (0.6–6.5) | 62.0 (31.7–100.5) | 3.2 (1.0–8.2) | 90.3 (66.2–123.0) | 8.8 (5.0–18.4) | 9.9 (5.5–16.2) | 22.4 (11.6–39.5) | 49.2 (32.3–76.5) |
| West Sumatra | 7412.7 (6188.8–8568.4) | 107.0 (63.9–162.9) | 2710.1 (1947.9–3436.8) | 3687.8 (2921.9–4498.8) | 1125.4 (686.0–1548.6) | 2339.7 (1737.9–2990.8) | 222.7 (131.6–364.0) | 574.5 (329.0–860.4) | 8.1 (3.9–16.8) | 3.7 (1.8–8.7) | 4.1 (1.6–9.4) | 0.3 (0.1–0.9) | 93.4 (51.0–144.3) | 6.2 (2.3–13.3) | 3.3 (0.8–8.7) | 83.9 (45.3–126.8) | 5.3 (1.6–13.7) | 104.7 (76.7–141.8) | 11.8 (7.1–22.8) | 10.7 (6.1–16.7) | 33.7 (19.0–62.2) | 65.7 (40.5–107.7) |
| South Sumatra | 7717.2 (6459.3–9113.0) | 122.3 (64.7–204.6) | 3058.2 (2304.5–3856.7) | 3647.5 (2889.6–4447.3) | 1125.1 (678.3–1551.6) | 2292.9 (1698.1–3006.4) | 229.6 (134.0–370.0) | 558.8 (321.4–861.9) | 8.2 (4.2–17.0) | 3.8 (1.8–8.7) | 4.1 (1.8–9.4) | 0.3 (0.1–0.9) | 94.2 (54.9–144.0) | 5.5 (2.3–11.8) | 3.2 (0.7–8.2) | 85.5 (48.8–133.0) | 5.8 (1.8–14.5) | 100.7 (74.5–138.7) | 12.0 (7.2–23.4) | 10.5 (6.0–16.6) | 34.5 (19.2–59.7) | 64.6 (40.8–102.5) |
| North Sumatra | 6797.2 (5620.3–7812.4) | 84.2 (52.0–126.1) | 2725.7 (2051.6–3353.3) | 3311.0 (2648.6–4060.0) | 1053.6 (695.8–1461.3) | 2061.9 (1477.9–2698.6) | 195.4 (116.8–328.8) | 416.1 (231.8–624.4) | 6.3 (3.3–12.7) | 2.8 (1.4–6.0) | 3.3 (1.5–7.4) | 0.2 (0.1–0.6) | 68.8 (39.2–108.0) | 4.6 (1.9–9.6) | 2.4 (0.5–5.9) | 61.8 (35.1–97.4) | 3.8 (1.2–9.8) | 89.3 (64.1–125.9) | 8.6 (5.2–16.7) | 10.2 (5.5–16.6) | 24.0 (13.2–43.9) | 49.2 (30.9–77.0) |
| Yogyakarta | 5446.7 (4537.4–6365.6) | 62.3 (41.6–91.0) | 1925.5 (1415.8–2426.8) | 2873.3 (2252.2–3523.1) | 936.2 (577.6–1281.6) | 1766.2 (1282.4–2301.1) | 170.8 (113.6–261.8) | 362.8 (203.7–560.6) | 5.4 (2.9–10.6) | 2.3 (1.2–5.2) | 2.8 (1.3–5.8) | 0.2 (0.1–0.5) | 53.7 (31.2–83.7) | 3.2 (1.4–6.4) | 1.7 (0.5–4.5) | 48.8 (27.2–75.1) | 2.6 (0.8–6.8) | 85.3 (62.2–118.1) | 7.3 (4.2–13.8) | 9.0 (4.9–15.7) | 17.6 (9.7–30.5) | 42.0 (27.5–62.1) |
| Lao People's Democratic Republic | 9665.7 (8249.4–11104.2) | 298.1 (158.9–506.6) | 3336.7 (2574.8–4140.4) | 4835.9 (3850.4–5893.7) | 1362.9 (961.2–2000.8) | 3220.5 (2280.4–4068.2) | 252.5 (145.2–441.6) | 729.6 (439.5–1092.8) | 10.3 (4.9–22.5) | 4.5 (2.0–10.7) | 5.5 (2.3–13.2) | 0.3 (0.1–0.9) | 147.6 (88.0–227.6) | 11.7 (5.8–20.9) | 6.5 (1.8–17.5) | 129.4 (76.5–203.3) | 12.3 (3.5–29.4) | 116.1 (88.2–148.4) | 19.0 (11.3–30.0) | 11.2 (7.1–17.0) | 60.5 (33.3–101.5) | 88.3 (52.5–156.4) |
| Malaysia | 5265.9 (4798.6–5714.0) | 38.1 (28.7–48.9) | 2792.0 (2529.2–3059.4) | 1850.5 (1593.5–2124.6) | 777.5 (646.3–916.8) | 962.7 (808.4–1144.3) | 110.3 (84.1–136.4) | 130.2 (99.3–168.8) | 19.2 (12.9–25.8) | 12.8 (8.2–17.8) | 6.3 (3.7–8.9) | 0.2 (0.1–0.3) | 87.8 (67.5–115.3) | 2.4 (1.4–3.9) | 0.1 (0.03–0.2) | 85.3 (65.7–112.1) | 2.6 (1.2–7.5) | 112.6 (87.9–144.4) | 64.7 (49.2–83.9) | 9.5 (5.9–15.3) | 46.4 (34.2–59.7) | 112.1 (85.6–135.7) |
| Maldives | 5677.7 (5049.7–6256.9) | 37.2 (26.7–50.4) | 2543.1 (2177.6–2911.6) | 2386.2 (2060.2–2772.4) | 1112.1 (918.4–1304.3) | 1138.5 (945.8–1392.4) | 135.6 (99.3–173.6) | 277.5 (190.2–380.9) | 29.7 (19.5–40.7) | 20.6 (12.1–28.6) | 8.0 (4.3–12.7) | 1.1 (0.4–2.3) | 81.5 (53.8–112.2) | 1.8 (0.8–3.4) | 2.1 (0.8–5.2) | 77.6 (51.7–106.4) | 17.3 (11.2–26.4) | 138.6 (113.1–170.8) | 8.5 (5.7–12.0) | 8.1 (4.8–13.8) | 12.5 (9.2–17.5) | 137.6 (101.6–170.1) |
| Mauritius | 5352.0 (5086.8–5612.1) | 42.8 (34.0–54.4) | 2748.7 (2584.5–2926.8) | 1755.0 (1623.9–1889.9) | 798.7 (716.6–874.7) | 740.8 (677.9–819.7) | 215.5 (190.8–243.6) | 371.3 (336.6–402.9) | 36.3 (31.7–42.0) | 25.2 (21.7–29.3) | 10.7 (9.1–12.7) | 0.4 (0.1–1.4) | 103.0 (85.6–118.9) | 1.1 (0.8–1.4) | 13.4 (9.6–17.8) | 88.6 (73.6–102.2) | 18.1 (14.5–22.1) | 118.8 (101.9–143.4) | 15.2 (12.9–17.7) | 18.3 (14.5–24.2) | 29.4 (25.3–33.3) | 95.3 (80.5–110.4) |
| Myanmar | 10946.7 (9252.2–12516.5) | 238.8 (141.1–385.8) | 3358.4 (2494.4–4143.6) | 6098.5 (4862.6–7408.3) | 2024.9 (1477.3–2547.8) | 3797.8 (2778.5–4755.9) | 275.7 (174.0–439.2) | 801.0 (465.7–1209.3) | 10.5 (4.9–22.5) | 4.9 (2.3–11.6) | 5.3 (2.1–12.9) | 0.3 (0.1–0.9) | 143.0 (86.5–226.1) | 9.2 (4.2–16.8) | 5.6 (1.5–17.3) | 128.2 (75.8–205.5) | 10.1 (2.9–25.2) | 121.5 (90.4–156.4) | 21.8 (14.0–33.5) | 10.9 (6.8–16.9) | 49.6 (25.7–89.6) | 82.6 (51.3–143.4) |
| Philippines | 7017.4 (6474.5–7525.6) | 112.6 (83.9–146.3) | 3634.5 (3310.4–3988.0) | 2351.2 (2049.7–2669.2) | 794.5 (674.7–941.2) | 1389.4 (1188.0–1616.5) | 167.3 (129.4–210.1) | 587.6 (475.6–718.3) | 7.0 (4.6–9.4) | 4.0 (2.5–5.5) | 2.9 (1.7–4.1) | 0.1 (0.03–0.2) | 92.2 (67.7–120.4) | 3.4 (2.0–5.4) | 4.2 (1.2–8.5) | 84.5 (62.4–111.2) | 2.9 (1.3–10.4) | 107.6 (86.6–137.0) | 25.4 (19.8–31.8) | 11.6 (7.4–17.6) | 30.2 (22.1–39.6) | 54.4 (41.8–69.4) |
| Abra | 5347.3 (4645.6–6045.2) | 105.1 (71.7–143.5) | 2091.6 (1722.1–2476.9) | 2589.0 (2116.7–3050.8) | 808.4 (651.8–953.4) | 1617.3 (1301.8–1991.7) | 163.3 (117.3–219.6) | 313.7 (193.9–563.5) | 4.7 (3.3–6.6) | 2.7 (1.7–4.2) | 1.9 (1.2–3.0) | 0.1 (0.03–0.1) | 39.2 (24.0–68.1) | 1.7 (0.7–2.9) | 4.2 (1.2–9.0) | 33.3 (20.1–60.1) | 1.1 (0.3–4.6) | 105.1 (81.2–138.2) | 23.2 (17.2–30.6) | 10.0 (5.9–16.0) | 24.2 (16.9–33.3) | 40.4 (29.5–53.1) |
| Agusan Del Norte | 5459.3 (4858.7–6082.2) | 93.5 (66.7–124.6) | 2344.2 (2044.0–2711.4) | 2278.0 (1940.4–2640.4) | 800.0 (669.2–955.7) | 1306.9 (1071.8–1549.8) | 171.2 (126.9–227.3) | 449.7 (311.5–699.0) | 6.3 (4.5–8.2) | 4.3 (2.7–5.9) | 1.6 (0.9–2.6) | 0.3 (0.03–0.8) | 58.4 (37.0–97.5) | 4.3 (2.1–7.9) | 1.9 (0.8–6.9) | 52.2 (33.8–86.1) | 3.9 (1.5–13.5) | 103.0 (80.9–130.6) | 18.8 (14.1–24.5) | 11.0 (6.6–17.8) | 27.7 (19.9–38.1) | 64.8 (46.0–83.4) |
| Agusan Del Sur | 5943.3 (5259.4–6631.0) | 102.5 (71.5–148.2) | 2549.1 (2178.9–2948.4) | 2390.7 (1936.7–2844.1) | 892.5 (736.1–1076.0) | 1357.7 (1092.0–1675.5) | 140.5 (102.0–187.2) | 633.7 (472.7–813.1) | 4.4 (3.0–6.3) | 1.5 (0.8–2.7) | 2.8 (1.5–4.2) | 0.1 (0.03–0.2) | 51.4 (29.4–81.5) | 1.6 (0.9–8.0) | 2.5 (0.4–4.5) | 47.3 (27.6–80.2) | 2.8 (0.7–11.8) | 95.9 (73.0–122.9) | 11.0 (7.5–17.3) | 10.4 (6.2–16.4) | 33.2 (22.2–49.9) | 58.3 (42.5–78.9) |
| Aklan | 5621.9 (5045.9–6284.9) | 110.5 (80.6–144.2) | 2406.8 (2092.4–2847.6) | 1972.8 (1665.9–2311.1) | 767.9 (653.1–917.5) | 1056.8 (863.4–1287.4) | 148.1 (104.9–206.5) | 837.4 (562.5–1087.0) | 7.1 (4.9–9.3) | 4.5 (2.7–6.2) | 2.6 (1.7–3.6) | 0.04 (0.01–0.1) | 45.0 (27.8–84.8) | 2.0 (0.9–3.1) | 2.5 (0.8–8.5) | 40.5 (24.7–76.8) | 2.8 (1.2–10.1) | 110.1 (87.6–140.0) | 27.5 (20.5–36.5) | 14.2 (9.4–20.3) | 38.6 (24.1–54.7) | 49.3 (36.9–62.8) |
| Albay | 8290.0 (7466.9–9139.1) | 136.7 (92.9–184.5) | 4310.8 (3777.3–4897.7) | 3058.7 (2600.9–3554.5) | 943.2 (786.8–1118.4) | 1942.8 (1582.1–2274.6) | 172.8 (127.7–226.4) | 493.0 (358.5–726.2) | 5.8 (4.4–7.5) | 3.3 (2.1–4.4) | 2.5 (1.7–3.6) | 0.1 (0.04–0.2) | 64.4 (46.8–85.4) | 1.5 (0.7–3.3) | 3.5 (1.2–7.8) | 59.4 (43.4–79.1) | 2.6 (1.0–9.8) | 110.4 (90.6–140.4) | 21.3 (16.2–26.5) | 12.2 (7.9–18.6) | 27.7 (20.2–36.3) | 46.3 (36.4–59.2) |
| Antique | 4890.2 (4411.8–5458.1) | 116.8 (85.7–159.0) | 1768.4 (1514.6–2077.2) | 1846.3 (1573.6–2168.7) | 628.1 (533.7–763.8) | 1075.8 (892.4–1323.3) | 142.3 (104.8–194.4) | 664.3 (511.8–822.1) | 4.9 (3.4–6.9) | 2.4 (1.6–3.8) | 2.4 (1.6–3.7) | 0.1 (0.02–0.2) | 257.3 (79.4–369.2) | 8.0 (1.7–18.2) | 10.4 (1.8–29.7) | 238.8 (73.6–341.7) | 1.8 (0.5–7.7) | 106.5 (84.7–134.5) | 23.8 (17.5–32.1) | 13.8 (9.4–19.6) | 52.0 (22.2–75.8) | 34.2 (23.4–52.3) |
| Apayao | 5365.4 (4597.3–6123.4) | 107.5 (74.9–162.1) | 1994.8 (1610.0–2455.8) | 2184.3 (1793.3–2677.4) | 612.6 (487.9–756.8) | 1408.1 (1110.7–1762.4) | 163.6 (112.8–224.0) | 723.7 (519.4–952.2) | 8.8 (5.1–13.2) | 2.7 (1.6–4.3) | 5.7 (2.6–9.7) | 0.3 (0.04–1.0) | 73.8 (45.0–110.2) | 1.4 (0.3–4.1) | 6.3 (1.9–13.6) | 66.1 (40.8–102.6) | 1.2 (0.3–5.3) | 103.2 (77.6–132.0) | 32.2 (22.3–43.8) | 14.8 (9.7–22.1) | 45.4 (25.6–70.0) | 76.0 (53.8–100.9) |
| Aurora | 7723.3 (6787.7–8639.6) | 137.9 (96.9–188.4) | 3203.7 (2701.6–3754.1) | 3155.2 (2676.3–3676.4) | 1055.5 (867.5–1271.5) | 1923.3 (1543.6–2270.0) | 176.4 (131.3–228.0) | 857.6 (620.9–1105.4) | 6.1 (4.1–8.6) | 2.9 (1.8–4.3) | 3.0 (1.9–4.4) | 0.2 (0.05–0.6) | 112.8 (77.4–149.6) | 7.6 (1.9–14.9) | 4.7 (1.6–10.7) | 100.5 (69.0–131.1) | 2.0 (0.5–9.0) | 125.1 (101.5–155.4) | 17.3 (11.8–30.7) | 7.6 (3.6–14.1) | 40.4 (26.7–56.2) | 57.7 (43.0–73.4) |
| Basilan | 8104.5 (6636.1–9195.5) | 72.6 (47.9–102.9) | 4806.5 (3906.9–5597.4) | 2450.4 (1785.5–3068.9) | 890.0 (655.3–1137.2) | 1443.0 (986.1–1886.8) | 117.5 (79.8–160.1) | 522.8 (356.7–713.9) | 7.7 (3.8–12.6) | 1.6 (0.8–2.7) | 5.9 (1.8–10.5) | 0.2 (0.04–0.5) | 60.6 (38.9–82.2) | 4.6 (1.6–9.3) | 4.3 (1.0–9.1) | 51.6 (32.5–71.7) | 0.8 (0.2–4.0) | 115.0 (77.4–151.9) | 6.5 (4.0–15.3) | 10.9 (6.5–16.6) | 12.9 (7.0–24.9) | 37.7 (26.8–50.9) |
| Bataan | 6752.4 (6155.3–7405.8) | 109.4 (78.7–149.9) | 4021.6 (3583.4–4531.2) | 1856.1 (1587.5–2203.6) | 680.7 (568.4–812.3) | 1015.7 (829.3–1254.2) | 159.7 (123.8–206.3) | 452.2 (326.7–663.2) | 6.5 (4.6–8.5) | 3.4 (2.4–4.9) | 3.0 (1.9–4.1) | 0.1 (0.01–0.2) | 70.3 (50.4–91.3) | 2.1 (1.2–3.8) | 2.4 (1.0–7.2) | 65.8 (47.9–85.0) | 2.6 (1.0–9.3) | 105.6 (83.8–135.5) | 35.8 (25.9–46.0) | 13.6 (9.4–20.0) | 24.7 (18.4–32.6) | 54.0 (40.8–68.8) |
| Batanes | 5769.2 (4944.5–6728.0) | 160.1 (106.3–229.1) | 2374.1 (1898.7–2878.1) | 2258.9 (1863.4–2663.2) | 651.9 (524.0–799.8) | 1668.9 (1154.7–1828.0) | 137.4 (84.6–228.3) | 553.5 (359.9–857.2) | 17.1 (5.9–26.1) | 11.8 (2.9–19.4) | 4.7 (2.3–7.4) | 0.6 (0.03–1.5) | 67.9 (38.1–117.8) | 1.7 (0.6–5.9) | 13.2 (1.8–28.3) | 53.2 (27.9–100.8) | 0.9 (0.2–4.3) | 104.5 (78.4–142.2) | 31.7 (23.1–43.3) | 29.6 (20.8–41.9) | 25.2 (14.8–53.0) | 145.9 (96.6–198.5) |
| Camarines Norte | 7271.6 (6657.4–7942.3) | 96.3 (68.4–128.3) | 4090.5 (3690.5–4576.8) | 2265.2 (1970.1–2591.3) | 790.0 (668.6–938.1) | 1294.7 (1094.1–1525.2) | 180.4 (124.1–240.6) | 441.3 (327.9–652.8) | 7.3 (4.7–10.4) | 4.7 (2.6–7.1) | 2.5 (1.5–3.6) | 0.1 (0.03–0.2) | 112.0 (64.6–153.2) | 2.1 (1.0–4.2) | 3.5 (1.0–7.8) | 106.4 (61.1–145.9) | 2.4 (0.9–9.2) | 114.0 (91.0–143.5) | 34.3 (24.7–43.2) | 12.8 (8.4–18.7) | 33.3 (22.6–44.4) | 62.1 (44.2–79.5) |
| Batangas | 6118.8 (5623.1–6663.2) | 96.9 (66.2–130.2) | 3054.6 (2717.2–3442.3) | 2155.6 (1843.6–2496.9) | 761.4 (648.3–902.6) | 1205.8 (993.3–1413.1) | 188.4 (123.2–260.3) | 475.3 (337.9–686.5) | 9.7 (4.8–14.6) | 6.5 (2.9–10.0) | 3.1 (1.4–4.8) | 0.1 (0.009–0.1) | 56.7 (39.7–78.8) | 2.1 (0.8–3.6) | 2.7 (0.9–6.7) | 51.9 (36.2–70.6) | 3.0 (1.4–8.9) | 121.5 (99.2–153.0) | 46.2 (33.5–58.3) | 14.7 (10.3–20.8) | 28.9 (19.8–38.9) | 55.7 (40.0–73.1) |
| Biliran | 5981.5 (5202.8–6730.6) | 116.0 (80.0–156.3) | 2360.9 (1891.8–2897.6) | 2176.8 (1739.6–2690.2) | 721.9 (580.2–892.2) | 1316.5 (1016.1–1646.5) | 138.3 (89.5–216.8) | 1066.2 (607.8–1453.2) | 8.4 (5.7–11.2) | 3.7 (2.2–5.4) | 4.5 (2.7–6.2) | 0.3 (0.04–0.6) | 40.5 (20.4–90.9) | 2.0 (0.9–3.8) | 3.6 (1.0–13.7) | 34.8 (17.4–80.2) | 4.6 (2.2–13.4) | 116.8 (92.1–147.9) | 19.2 (13.4–30.4) | 16.7 (12.1–23.0) | 24.6 (16.0–41.6) | 30.9 (20.7–56.2) |
| Bohol | 5220.8 (4757.1–5887.6) | 103.1 (78.0–134.3) | 2081.4 (1820.3–2360.1) | 2137.7 (1871.0–2486.8) | 805.0 (678.1–973.5) | 1188.9 (996.7–1395.6) | 143.8 (111.2–180.9) | 500.7 (380.6–692.8) | 5.4 (3.9–7.1) | 2.8 (1.8–4.0) | 2.4 (1.7–3.6) | 0.1 (0.03–0.2) | 182.1 (71.0–258.2) | 4.0 (2.2–6.7) | 6.7 (1.5–15.6) | 171.3 (64.0–242.7) | 2.0 (0.6–8.1) | 115.0 (93.9–145.4) | 11.8 (8.4–20.8) | 11.4 (7.0–17.3) | 23.3 (17.1–30.5) | 47.1 (36.2–60.2) |
| Bukidnon | 7295.4 (6451.2–8051.8) | 133.1 (97.9–181.8) | 3334.8 (2890.9–3828.9) | 2743.3 (2290.3–3169.8) | 977.8 (806.3–1171.4) | 1590.3 (1268.4–1903.8) | 175.2 (129.7–223.3) | 790.4 (586.6–1000.7) | 7.3 (4.5–10.6) | 5.2 (2.9–8.0) | 2.0 (1.1–3.0) | 0.1 (0.02–0.3) | 64.5 (38.2–104.9) | 3.1 (1.3–6.9) | 4.0 (1.3–10.4) | 57.4 (34.2–92.5) | 3.5 (1.0–13.6) | 115.8 (92.9–150.0) | 17.5 (12.7–23.7) | 12.1 (7.7–18.2) | 24.3 (15.7–35.7) | 48.7 (34.6–64.3) |
| Bulacan | 7895.6 (7144.8–8533.8) | 105.9 (69.1–142.7) | 4549.5 (4136.2–4993.7) | 2391.6 (2052.8–2744.0) | 790.8 (668.6–951.2) | 1443.3 (1201.1–1691.1) | 157.5 (111.1–205.3) | 563.2 (408.9–703.8) | 6.3 (4.3–8.2) | 3.7 (2.4–5.2) | 2.6 (1.6–3.6) | 0.1 (0.02–0.1) | 61.3 (44.1–81.2) | 2.6 (1.2–4.3) | 2.2 (0.8–5.6) | 56.5 (41.1–74.5) | 2.4 (1.0–9.1) | 105.2 (81.7–134.6) | 23.8 (18.2–29.8) | 10.4 (6.3–16.7) | 30.1 (19.8–40.1) | 45.9 (34.5–58.4) |
| Cagayan | 4563.7 (4128.6–5000.7) | 116.5 (79.0–160.9) | 2159.5 (1909.9–2433.4) | 1652.0 (1442.6–1880.3) | 517.2 (440.7–616.2) | 995.3 (837.9–1140.2) | 139.5 (105.2–181.9) | 409.4 (322.7–515.7) | 5.2 (3.7–6.7) | 2.4 (1.6–3.5) | 2.7 (1.5–3.9) | 0.1 (0.03–0.2) | 35.4 (23.7–56.2) | 1.9 (0.9–3.1) | 2.3 (0.8–6.4) | 31.2 (20.6–51.4) | 1.4 (0.5–5.8) | 93.1 (72.4–123.6) | 15.6 (11.8–19.8) | 8.9 (5.1–15.0) | 27.9 (16.9–38.9) | 38.8 (30.1–49.0) |
| Camarines Norte | 8547.7 (7710.3–9576.9) | 124.5 (91.0–168.4) | 4613.2 (4082.4–5251.8) | 2865.2 (2404.1–3359.9) | 978.1 (807.9–1147.5) | 1726.1 (1417.1–2131.7) | 161.0 (122.5–204.7) | 528.8 (385.5–724.7) | 7.6 (4.5–11.6) | 3.8 (2.3–5.7) | 3.7 (1.8–5.8) | 0.1 (0.03–0.2) | 193.1 (77.3–278.5) | 8.1 (2.2–16.6) | 4.8 (1.4–11.7) | 180.3 (67.2–263.1) | 2.9 (1.2–11.0) | 107.7 (86.8–135.2) | 16.2 (12.1–21.6) | 12.1 (7.6–18.0) | 29.9 (21.6–39.9) | 46.3 (35.0–58.8) |
| Camarines Sur | 7930.7 (7198.9–8631.2) | 148.0 (108.6–197.2) | 3998.9 (3584.4–4443.4) | 2912.0 (2536.4–3328.6) | 862.7 (719.6–1027.1) | 1852.8 (1569.3–2149.9) | 196.5 (134.5–261.6) | 520.8 (406.7–700.5) | 13.7 (4.0–22.8) | 5.5 (2.4–10.4) | 8.0 (1.3–15.2) | 0.2 (0.04–0.5) | 84.9 (60.9–112.1) | 3.3 (1.8–6.0) | 5.0 (1.4–10.3) | 76.6 (56.3–101.4) | 3.3 (1.3–12.2) | 103.5 (83.0–129.9) | 20.2 (15.0–25.8) | 13.5 (9.0–19.9) | 49.1 (26.3–69.3) | 62.8 (47.0–83.3) |
| Camiguin | 6695.6 (5916.6–7579.9) | 100.4 (72.5–140.7) | 2869.1 (2420.4–3463.7) | 2375.4 (1974.2–2904.8) | 785.6 (647.7–952.2) | 1423.4 (1121.1–1799.6) | 166.4 (117.3–232.2) | 979.7 (664.8–1292.3) | 2.2 (1.1–4.8) | 0.6 (0.3–2.1) | 1.5 (0.7–3.4) | 0.1 (0.04–0.2) | 76.5 (50.7–111.0) | 1.4 (0.6–2.5) | 3.6 (1.4–10.5) | 71.5 (48.2–100.9) | 1.8 (0.4–8.1) | 125.9 (100.8–156.2) | 30.9 (21.6–46.9) | 27.3 (20.3–36.5) | 40.6 (24.1–58.0) | 65.9 (48.9–84.5) |
| Capiz | 5605.4 (5014.1–6200.6) | 111.2 (79.9–148.0) | 2896.3 (2550.0–3281.4) | 1712.2 (1504.5–2038.3) | 584.8 (487.9–689.7) | 985.6 (825.2–1204.4) | 141.8 (109.4–179.8) | 519.4 (397.1–654.1) | 5.9 (3.9–7.6) | 3.8 (2

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern Samar | 7164.0 (6206.5–8080.5) | 218.5 (141.2–304.1) | 3426.4 (2879.6–4006.0) | 2402.1 (1931.9–2861.3) | 875.0 (694.9–1081.9) | 1376.4 (1089.5–1718.4) | 150.7 (102.8–221.6) | 832.0 (594.3–1114.4) | 4.8 (3.2–7.5) | 1.4 (0.7–3.2) | 3.3 (2.2–5.1) | 0.1 (0.01–0.2) | 53.7 (29.2–103.2) | 3.7 (1.9–6.8) | 4.0 (1.4–11.1) | 46.0 (24.6–92.7) | 2.7 (0.7–10.6) | 114.2 (87.3–146.6) | 6.3 (3.9–17.5) | 10.9 (6.7–17.2) | 34.2 (22.4–48.8) | 58.2 (41.0–77.9) |
| Guimaras | 5043.9 (4419.7–5716.0) | 114.2 (82.2–160.4) | 1770.8 (1433.8–2272.4) | 1596.8 (1280.5–1922.8) | 527.8 (421.8–644.9) | 945.0 (733.8–1198.4) | 123.9 (74.5–218.7) | 1037.6 (540.6–1417.2) | 6.1 (4.4–8.7) | 1.3 (0.6–3.2) | 4.7 (3.2–6.5) | 0.2 (0.1–0.4) | 268.3 (87.9–390.4) | 9.2 (1.0–21.7) | 15.0 (1.9–37.2) | 244.2 (83.2–351.7) | 2.0 (0.7–7.7) | 108.9 (84.4–136.8) | 25.2 (17.0–40.4) | 16.8 (11.9–24.1) | 60.1 (24.1–90.2) | 37.0 (25.1–57.5) |
| Ifugao | 5351.5 (4638.3–6047.9) | 96.8 (69.8–129.1) | 2317.2 (1878.1–2834.8) | 2289.3 (1843.6–2782.8) | 810.0 (626.8–986.3) | 1342.5 (1036.6–1670.2) | 136.8 (95.5–183.9) | 379.6 (213.8–699.6) | 4.1 (2.6–7.2) | 1.5 (0.9–3.4) | 2.4 (1.4–4.6) | 0.2 (0.03–0.6) | 41.4 (22.5–85.1) | 2.7 (1.0–4.8) | 2.2 (0.7–7.1) | 36.6 (19.7–75.9) | 0.7 (0.2–3.0) | 116.4 (90.4–152.9) | 15.3 (10.3–27.2) | 10.5 (6.5–16.1) | 28.2 (19.5–41.2) | 51.9 (38.8–66.6) |
| Ilocos Norte | 5917.7 (5295.1–6578.2) | 117.1 (81.5–160.9) | 2589.3 (2270.7–2967.3) | 2237.2 (1915.2–2619.0) | 691.6 (577.2–829.1) | 1350.2 (1106.6–1616.4) | 195.3 (133.4–267.9) | 630.9 (502.0–775.5) | 8.9 (5.0–12.6) | 5.9 (2.8–8.5) | 2.9 (1.6–4.2) | 0.1 (0.03–0.1) | 77.2 (55.3–102.5) | 1.3 (0.6–2.8) | 8.6 (1.3–17.5) | 67.3 (49.3–88.6) | 2.0 (0.7–7.8) | 104.9 (83.6–134.7) | 38.6 (29.0–48.0) | 11.4 (7.2–17.6) | 43.4 (22.1–64.2) | 57.0 (42.3–73.7) |
| Ilocos Sur | 5504.1 (4965.2–6046.2) | 113.4 (77.9–152.1) | 2286.7 (2024.0–2591.2) | 2193.1 (1926.3–2558.9) | 696.7 (592.6–843.7) | 1314.1 (1115.2–1530.0) | 182.3 (135.1–238.8) | 592.6 (465.3–735.2) | 5.5 (4.1–7.3) | 1.9 (1.1–3.8) | 3.5 (2.3–4.8) | 0.1 (0.03–0.2) | 53.1 (36.5–76.7) | 1.6 (0.9–2.6) | 4.3 (1.3–8.6) | 47.2 (32.3–69.5) | 2.2 (0.9–8.5) | 113.2 (89.9–142.3) | 27.4 (20.8–35.4) | 11.4 (7.4–17.1) | 36.0 (22.2–49.4) | 69.4 (50.9–88.2) |
| Iloilo | 4904.1 (4454.7–5394.8) | 126.1 (93.2–165.0) | 2049.9 (1809.9–2344.4) | 1635.9 (1395.9–1991.2) | 522.7 (431.8–631.5) | 963.3 (797.5–1244.1) | 149.9 (113.8–193.5) | 650.6 (471.6–782.7) | 6.4 (4.7–8.2) | 3.4 (2.4–4.8) | 2.9 (1.7–4.1) | 0.04 (0.02–0.1) | 202.4 (80.1–281.3) | 5.6 (2.6–9.7) | 5.9 (1.7–15.3) | 190.9 (71.8–267.6) | 2.6 (1.0–9.1) | 101.4 (80.1–130.6) | 24.6 (18.5–31.6) | 12.3 (8.0–18.3) | 41.2 (24.6–56.5) | 50.6 (39.0–65.9) |
| Isabela | 5234.0 (4717.4–5745.7) | 117.6 (82.7–155.0) | 2453.8 (2180.9–2775.7) | 1798.6 (1538.9–2032.4) | 549.2 (451.2–654.1) | 1100.9 (906.7–1288.8) | 148.5 (111.5–192.5) | 569.2 (412.4–714.6) | 6.8 (4.2–9.2) | 4.1 (2.3–5.8) | 2.6 (1.5–3.7) | 0.1 (0.02–0.2) | 78.6 (57.1–102.7) | 4.3 (1.5–8.1) | 2.6 (1.1–7.8) | 71.7 (52.0–94.7) | 3.0 (1.5–9.7) | 99.2 (77.3–128.4) | 24.7 (18.5–31.4) | 9.3 (5.3–15.5) | 28.1 (19.7–37.8) | 45.1 (35.0–57.6) |
| Kalinga | 5279.7 (4556.2–5917.9) | 116.4 (81.1–160.5) | 1917.8 (1534.3–2328.8) | 2294.0 (1855.0–2743.9) | 781.1 (621.9–952.8) | 1334.0 (1019.4–1661.1) | 178.9 (126.5–235.1) | 612.3 (410.9–868.4) | 7.1 (5.1–10.1) | 3.4 (2.2–4.9) | 3.5 (2.1–5.4) | 0.2 (0.03–0.6) | 72.1 (44.0–110.7) | 1.0 (0.3–2.5) | 6.6 (2.0–14.7) | 64.6 (40.4–98.6) | 1.3 (0.3–5.9) | 115.1 (90.2–148.8) | 24.0 (16.4–35.3) | 11.5 (7.3–18.0) | 54.3 (27.6–81.6) | 53.6 (40.0–71.6) |
| La Union | 6066.9 (5451.4–6676.1) | 131.2 (84.7–178.1) | 2571.2 (2289.4–2924.3) | 2334.6 (2020.3–2662.6) | 732.4 (615.4–878.0) | 1412.8 (1164.2–1658.6) | 189.3 (131.2–256.4) | 498.7 (362.3–709.5) | 8.3 (4.8–12.4) | 5.4 (2.8–8.4) | 2.8 (1.5–4.2) | 0.01 (0.002–0.05) | 264.3 (72.2–387.4) | 7.4 (1.4–15.8) | 10.8 (1.4–30.3) | 246.2 (65.6–355.3) | 2.1 (0.8–7.3) | 114.3 (91.4–141.7) | 40.5 (29.6–51.3) | 11.7 (7.4–17.8) | 40.9 (22.7–58.4) | 49.0 (37.2–61.9) |
| Laguna | 8202.5 (7516.1–8893.6) | 99.9 (71.1–130.8) | 4798.2 (4347.7–5277.7) | 2410.0 (2089.3–2778.0) | 825.7 (690.9–995.3) | 1417.0 (1219.1–1684.6) | 168.2 (118.9–227.1) | 555.4 (446.6–690.1) | 5.5 (4.1–7.2) | 3.0 (2.1–4.0) | 3.5 (1.7–3.6) | 0.04 (0.01–0.1) | 103.0 (60.6–137.3) | 3.3 (1.6–5.3) | 2.7 (0.9–6.7) | 97.0 (56.7–130.1) | 3.0 (1.4–10.5) | 106.5 (85.0–134.9) | 28.6 (21.7–35.8) | 10.7 (6.6–17.0) | 34.6 (22.8–47.2) | 46.0 (35.4–58.8) |
| Lanao Del Norte | 7405.8 (6664.3–8155.1) | 80.3 (55.2–125.0) | 3746.3 (3316.1–4187.8) | 2538.7 (2200.5–2964.9) | 892.7 (742.3–1052.5) | 1469.5 (1235.0–1793.9) | 176.5 (134.5–223.0) | 674.6 (498.1–961.2) | 8.1 (5.7–10.7) | 4.7 (3.0–6.7) | 3.3 (2.0–4.9) | 0.1 (0.04–0.2) | 86.4 (58.5–120.8) | 5.0 (2.3–7.7) | 3.1 (1.3–9.1) | 78.4 (53.6–108.8) | 4.3 (1.4–16.7) | 133.6 (109.0–168.2) | 22.2 (16.1–32.8) | 14.1 (9.5–19.9) | 26.4 (18.4–39.8) | 70.8 (54.5–89.8) |
| Lanao Del Sur | 4338.7 (3674.9–4978.1) | 61.0 (38.7–99.1) | 1851.1 (1427.4–2263.0) | 1902.2 (1531.6–2320.2) | 736.0 (593.9–923.1) | 1046.0 (810.3–1300.7) | 120.2 (85.5–168.6) | 363.6 (238.6–534.0) | 3.2 (2.1–4.5) | 1.0 (0.7–1.7) | 2.1 (1.3–3.3) | 0.1 (0.02–0.3) | 25.3 (15.0–43.1) | 1.2 (0.6–2.1) | 1.2 (0.4–4.6) | 22.9 (13.3–39.1) | 0.8 (0.2–3.3) | 72.2 (52.6–100.1) | 9.1 (6.3–12.2) | 8.7 (4.7–14.8) | 11.7 (6.4–23.0) | 29.8 (21.4–39.2) |
| Leyte | 6160.2 (5618.9–6692.2) | 163.6 (122.3–211.1) | 2791.7 (2500.9–3148.3) | 2101.9 (1824.2–2424.5) | 730.1 (613.7–882.3) | 1208.9 (1003.6–1476.4) | 162.9 (125.5–218.2) | 767.1 (598.6–928.5) | 6.4 (4.9–8.3) | 3.5 (2.5–4.9) | 2.8 (1.8–4.0) | 0.1 (0.03–0.1) | 101.3 (71.0–131.7) | 2.4 (0.8–6.3) | 2.7 (1.0–9.0) | 96.1 (69.3–123.7) | 4.3 (2.0–14.5) | 107.6 (84.8–136.2) | 16.5 (12.3–24.2) | 11.2 (7.1–17.7) | 30.4 (21.9–41.8) | 58.2 (44.5–74.6) |
| Maguindanao | 6191.1 (5069.4–7251.4) | 59.6 (39.7–86.8) | 2870.3 (2245.8–3595.8) | 2227.5 (1717.1–2753.3) | 839.3 (654.6–1071.1) | 1258.6 (916.8–1603.3) | 129.5 (94.0–182.0) | 792.5 (332.7–1208.5) | 5.8 (3.4–8.2) | 2.6 (1.3–4.2) | 3.1 (1.7–4.9) | 0.04 (0.01–0.1) | 55.3 (36.4–77.7) | 3.7 (1.2–8.1) | 2.0 (0.7–5.5) | 49.5 (31.3–72.7) | 2.2 (0.7–7.7) | 104.8 (71.8–142.7) | 15.2 (10.7–20.9) | 7.1 (3.3–13.4) | 18.4 (12.0–26.9) | 32.5 (23.1–43.1) |
| Marinduque | 7125.2 (6337.2–7918.3) | 117.0 (83.0–158.6) | 2921.4 (2463.9–3407.2) | 3231.2 (2774.2–3771.5) | 1137.0 (943.6–1370.3) | 1943.0 (1598.9–2350.7) | 151.2 (107.2–203.4) | 489.4 (303.0–824.8) | 4.9 (2.9–7.1) | 2.4 (1.3–3.6) | 2.4 (1.5–3.9) | 0.1 (0.03–0.2) | 109.6 (73.6–153.3) | 7.0 (1.6–14.4) | 6.5 (1.8–13.5) | 96.1 (66.5–132.7) | 2.6 (0.8–10.3) | 111.7 (87.9–140.2) | 30.3 (22.2–40.4) | 13.3 (8.7–19.1) | 26.1 (18.4–37.5) | 67.8 (48.2–89.6) |
| Masbate | 6688.9 (5788.5–7482.4) | 120.2 (85.2–159.2) | 2807.1 (2394.8–3256.3) | 2884.6 (2362.1–3410.7) | 1015.4 (817.9–1220.0) | 1730.7 (1342.8–2092.5) | 138.6 (103.0–183.8) | 542.9 (409.2–712.1) | 4.4 (3.0–6.1) | 2.0 (1.1–3.4) | 2.2 (1.4–3.2) | 0.1 (0.03–0.3) | 146.4 (73.1–210.0) | 5.9 (2.4–13.3) | 4.1 (1.4–11.3) | 136.4 (62.5–199.9) | 2.6 (0.7–10.7) | 97.7 (73.9–127.5) | 10.7 (7.5–14.4) | 11.0 (6.6–16.9) | 20.3 (12.9–32.6) | 41.0 (29.6–55.7) |
| Misamis Occidental | 6020.4 (5403.7–6705.2) | 89.9 (65.7–121.4) | 2909.8 (2535.8–3305.4) | 2047.3 (1743.9–2422.2) | 747.5 (632.0–897.1) | 1153.7 (959.7–1412.5) | 146.1 (110.4–187.7) | 684.3 (530.8–844.6) | 5.4 (4.1–7.2) | 2.4 (1.6–3.6) | 2.9 (1.9–4.0) | 0.2 (0.03–0.4) | 52.6 (33.5–86.3) | 2.3 (1.2–4.0) | 1.9 (0.6–7.8) | 48.4 (31.6–79.5) | 3.1 (1.2–11.6) | 116.0 (94.2–146.1) | 18.4 (13.7–24.8) | 13.6 (9.1–19.9) | 24.0 (16.5–33.8) | 55.9 (42.1–71.3) |
| Misamis Oriental | 8619.9 (7954.1–9333.0) | 149.8 (112.3–196.2) | 4817.2 (4348.8–5330.4) | 2515.5 (2148.3–2879.9) | 892.7 (748.6–1058.1) | 1422.8 (1176.2–1671.1) | 199.9 (149.2–252.0) | 761.2 (609.8–935.3) | 9.3 (5.6–12.8) | 6.4 (3.2–9.3) | 3.1 (1.7–3.8) | 0.2 (0.04–0.4) | 106.6 (79.2–138.8) | 4.3 (2.4–6.9) | 5.2 (1.7–10.7) | 97.1 (72.7–125.1) | 3.9 (1.7–13.3) | 120.1 (96.3–152.1) | 25.3 (18.8–33.0) | 16.9 (12.0–23.7) | 23.8 (16.0–37.9) | 70.8 (51.2–92.0) |
| Mountain Province | 6528.6 (5721.9–7344.9) | 99.0 (68.3–135.5) | 2409.8 (1957.1–2904.1) | 2997.4 (2446.4–3562.1) | 1074.9 (865.5–1326.6) | 1754.3 (1379.0–2177.4) | 168.2 (123.2–225.3) | 721.2 (527.3–950.0) | 4.5 (2.8–7.4) | 0.8 (0.3–2.8) | 3.5 (2.2–5.6) | 0.2 (0.05–0.4) | 48.2 (26.9–95.4) | 0.7 (0.2–1.9) | 5.9 (1.6–13.8) | 41.6 (22.9–84.0) | 1.6 (0.3–7.1) | 123.3 (95.7–161.8) | 22.0 (15.1–31.6) | 13.9 (9.2–20.0) | 31.0 (20.9–45.0) | 56.7 (42.4–74.2) |
| National Capital Region | 8265.2 (7557.3–8864.0) | 108.6 (70.9–141.5) | 5262.4 (4743.3–5720.8) | 2024.8 (1762.1–2333.7) | 706.6 (591.5–831.1) | 1122.6 (951.5–1336.4) | 195.6 (116.9–258.6) | 503.1 (408.0–633.8) | 11.2 (4.4–17.6) | 7.9 (2.6–12.6) | 3.2 (1.3–5.1) | 0.1 (0.03–0.2) | 89.2 (52.7–120.4) | 3.2 (1.5–5.3) | 5.6 (0.8–11.5) | 80.4 (48.9–108.2) | 3.5 (1.5–9.5) | 104.5 (82.6–132.1) | 42.4 (30.2–52.3) | 13.3 (8.9–19.4) | 34.6 (22.2–45.5) | 67.6 (43.3–87.2) |
| Negros Occidental | 5486.2 (5020.3–6066.7) | 134.9 (101.2–172.2) | 2497.8 (2228.8–2833.0) | 1914.8 (1663.7–2282.0) | 657.4 (543.1–789.3) | 1109.4 (932.4–1394.0) | 148.0 (112.2–189.4) | 535.5 (429.7–688.7) | 4.8 (3.4–6.4) | 2.4 (1.6–3.5) | 2.3 (1.6–3.3) | 0.1 (0.02–0.1) | 167.9 (82.5–235.4) | 7.0 (3.5–11.2) | 6.0 (1.5–11.9) | 154.9 (74.7–215.8) | 2.4 (0.6–9.9) | 106.2 (83.7–135.0) | 23.5 (18.2–29.4) | 12.8 (8.5–18.8) | 35.7 (24.8–47.5) | 50.0 (37.2–64.5) |
| Negros Oriental | 5087.5 (4517.6–5712.8) | 76.1 (53.1–110.0) | 2343.5 (2035.7–2685.9) | 1838.6 (1584.7–2086.4) | 699.1 (589.7–835.8) | 1009.5 (839.7–1202.2) | 129.9 (97.0–166.9) | 562.8 (448.6–693.7) | 6.1 (4.1–8.6) | 3.0 (2.0–4.2) | 3.1 (1.6–4.7) | 0.05 (0.008–0.1) | 45.2 (27.8–80.0) | 2.6 (1.3–5.6) | 2.1 (0.7–7.5) | 40.5 (24.8–70.5) | 2.5 (0.7–10.3) | 104.5 (81.8–133.1) | 14.8 (10.9–19.6) | 10.8 (6.7–17.2) | 31.6 (20.3–43.7) | 50.8 (38.8–65.3) |
| Northern Samar | 7198.8 (6366.7–8106.6) | 153.3 (108.3–201.7) | 2844.3 (2423.7–3347.1) | 3122.9 (2667.4–3664.1) | 1099.7 (907.4–1354.7) | 1884.5 (1558.5–2206.0) | 138.7 (98.3–192.2) | 767.7 (584.7–967.7) | 5.4 (3.7–7.5) | 1.6 (1.0–2.5) | 3.8 (2.4–5.6) | 0.03 (0.006–0.1) | 62.7 (39.2–103.1) | 2.9 (1.5–5.3) | 3.0 (1.1–10.1) | 56.8 (35.3–92.7) | 3.9 (1.6–14.2) | 117.7 (94.6–148.6) | 8.8 (6.1–18.3) | 11.5 (7.1–17.5) | 30.4 (22.2–40.5) | 70.2 (51.2–90.2) |
| Nueva Ecija | 7284.8 (6439.5–8046.2) | 140.2 (81.5–191.9) | 3704.1 (3277.3–4216.4) | 2645.9 (2208.4–3131.0) | 835.1 (690.9–1009.5) | 1634.1 (1323.6–1953.5) | 176.8 (116.6–239.4) | 500.3 (399.3–616.1) | 5.9 (4.2–7.6) | 3.4 (2.2–4.6) | 2.4 (1.6–3.3) | 0.1 (0.02–0.1) | 76.4 (55.5–101.5) | 2.4 (1.5–3.9) | 5.6 (1.1–11.3) | 68.4 (49.9–91.9) | 2.6 (1.0–9.8) | 102.0 (80.8–129.7) | 27.0 (19.7–34.0) | 9.3 (5.3–16.0) | 25.9 (19.0–33.4) | 45.1 (34.3–57.3) |
| Nueva Vizcaya | 5526.4 (4947.3–6103.6) | 102.0 (73.0–133.1) | 2222.1 (1922.0–2537.1) | 2313.7 (1997.6–2711.5) | 705.7 (592.9–836.2) | 1436.2 (1184.9–1714.8) | 171.7 (123.6–230.3) | 594.8 (447.6–742.4) | 6.4 (4.7–8.3) | 2.4 (1.5–4.2) | 3.8 (2.1–5.4) | 0.1 (0.1–0.3) | 52.1 (33.8–83.7) | 1.5 (0.7–2.9) | 2.5 (1.0–8.4) | 48.1 (31.6–77.0) | 9.4 (1.8–16.3) | 108.1 (85.1–137.1) | 22.4 (16.8–28.9) | 9.9 (6.0–15.8) | 31.8 (22.1–43.6) | 53.7 (40.7–70.1) |
| Occidental Mindoro | 6293.5 (5523.9–7043.9) | 124.5 (87.5–164.5) | 2601.0 (2216.7–3027.1) | 2422.5 (2028.3–2872.1) | 742.2 (611.8–884.8) | 1545.8 (1284.9–1872.9) | 134.6 (95.2–179.3) | 868.0 (522.2–1137.6) | 4.8 (3.2–7.1) | 1.4 (0.8–3.3) | 3.3 (2.1–4.8) | 0.04 (0.008–0.2) | 54.8 (32.8–102.5) | 2.8 (1.4–5.5) | 2.5 (0.9–9.8) | 49.5 (30.2–91.3) | 2.6 (0.6–12.2) | 106.4 (82.6–136.5) | 22.0 (15.9–28.7) | 9.7 (5.5–15.6) | 37.1 (24.8–52.2) | 40.2 (28.8–55.6) |
| Oriental Mindoro | 6275.3 (5679.3–6885.7) | 119.4 (87.5–162.2) | 2621.0 (2292.3–3018.5) | 2514.8 (2167.3–2888.1) | 882.5 (738.4–1043.1) | 1480.8 (1232.2–1746.0) | 151.6 (115.0–194.4) | 677.3 (476.7–868.2) | 6.6 (4.5–9.0) | 4.0 (2.3–5.9) | 2.5 (1.5–3.6) | 0.2 (0.02–0.4) | 106.9 (65.9–144.2) | 4.4 (2.0–7.3) | 3.4 (1.3–8.9) | 99.0 (60.2–133.7) | 2.3 (0.8–8.8) | 109.1 (88.0–137.3) | 22.2 (16.5–28.3) | 11.4 (7.1–17.5) | 36.7 (20.9–53.7) | 47.7 (36.1–61.5) |
| Palawan | 6260.9 (5540.7–7046.9) | 89.5 (59.6–130.8) | 2857.2 (2418.4–3346.7) | 2430.0 (2016.6–2854.5) | 846.9 (689.4–1014.9) | 1431.7 (1125.7–1771.6) | 151.4 (106.4–204.7) | 576.0 (408.0–853.4) | 5.0 (3.4–7.4) | 2.5 (1.6–3.9) | 2.5 (1.6–4.0) | 0.003 (0.0001–0.01) | 73.9 (46.5–114.9) | 4.8 (2.3–8.3) | 4.3 (1.4–11.1) | 64.8 (40.7–100.4) | 3.7 (1.0–15.6) | 113.6 (87.9–148.1) | 21.4 (15.4–28.8) | 11.9 (7.5–17.7) | 25.3 (16.6–38.4) | 53.5 (39.3–70.5) |
| Pampanga | 7965.8 (7284.9–8692.2) | 124.4 (80.3–166.9) | 4739.4 (4227.5–5222.4) | 2315.5 (1993.9–2685.4) | 744.7 (622.4–900.3) | 1391.5 (1172.2–1633.5) | 179.3 (128.7–232.1) | 440.8 (321.5–685.1) | 7.1 (4.9–9.3) | 3.8 (2.6–5.2) | 3.3 (1.9–4.6) | 0.1 (0.02–0.1) | 86.2 (61.2–115.7) | 3.1 (1.8–5.2) | 3.6 (1.1–7.9) | 79.5 (55.8–106.8) | 3.1 (1.2–11.5) | 113.8 (92.0–142.6) | 28.8 (21.3–35.9) | 11.2 (7.1–17.2) | 24.1 (17.5–33.0) | 71.4 (47.7–94.1) |
| Pangasinan | 5469.0 (5016.0–5979.8) | 125.7 (75.8–167.9) | 2504.0 (2216.3–2818.5) | 2188.0 (1926.3–2531.2) | 660.5 (552.2–772.7) | 1381.3 (1198.1–1619.8) | 146.2 (105.1–194.6) | 403.8 (324.5–515.8) | 4.9 (3.7–6.3) | 2.5 (1.8–3.5) | 2.3 (1.5–3.1) | 0.1 (0.03–0.1) | 48.3 (34.8–64.2) | 1.9 (1.1–3.3) | 2.3 (0.9–5.8) | 44.1 (31.9–59.5) | 2.2 (0.9–8.3) | 92.9 (73.3–124.4) | 24.4 (17.9–31.2) | 10.2 (6.0–16.2) | 21.4 (15.7–27.9) | 43.2 (33.2–54.9) |
| Quezon | 9221.0 (8418.1–9982.9) | 122.7 (90.0–162.0) | 5226.1 (4580.7–5770.2) | 3035.1 (2573.3–3465.7) | 986.4 (818.6–1180.7) | 1857.8 (1531.9–2179.5) | 190.9 (142.2–248.0) | 523.6 (390.3–747.7) | 4.4 (2.8–6.9) | 2.4 (1.5–3.7) | 1.9 (1.1–3.5) | 0.1 (0.03–0.2) | 74.6 (52.4–99.5) | 2.1 (1.0–4.5) | 4.0 (1.4–9.6) | 68.4 (48.6–90.0) | 3.2 (1.2–12.4) | 113.1 (90.6–141.0) | 20.6 (15.2–26.1) | 11.7 (7.3–18.4) | 33.2 (24.4–43.5) | 52.8 (41.1–67.1) |
| Quirino | 5849.8 (5153.4–6493.1) | 126.6 (92.3–171.1) | 2455.4 (2037.5–2865.7) | 2378.7 (1988.0–2775.8) | 754.5 (603.9–913.9) | 1447.2 (1172.7–1699.1) | 177.0 (133.2–231.6) | 598.1 (438.0–810.8) | 7.4 (5.0–10.1) | 3.0 (1.9–4.5) | 4.2 (2.2–6.1) | 0.3 (0.03–0.6) | 46.3 (25.6–96.6) | 3.6 (1.4–5.9) | 4.4 (1.2–12.8) | 38.2 (20.0–83.7) | 3.5 (1.3–11.6) | 108.7 (84.4–135.2) | 31.8 (23.6–42.1) | 10.4 (6.5–16.1) | 24.4 (16.7–36.7) | 58.5 (44.2–74.2) |
| Rizal | 8235.5 (7473.5–9036.8) | 96.5 (68.8–128.1) | 5157.7 (4638.6–5768.2) | 2154.6 (1855.2–2470.7) | 725.6 (607.1–856.2) | 1272.0 (1060.7–1489.3) | 157.0 (118.5–196.8) | 528.7 (419.2–671.8) | 6.3 (4.4–8.2) | 3.6 (2.4–5.0) | 2.6 (1.6–3.6) | 0.1 (0.04–0.2) | 64.7 (46.2–86.2) | 2.5 (1.4–4.6) | 3.2 (0.9–6.5) | 59.0 (42.9–78.4) | 2.7 (0.9–10.7) | 104.9 (83.5–134.6) | 18.5 (14.0–24.7) | 11.0 (6.8–17.0) | 34.0 (22.5–46.5) | 55.8 (40.0–71.8) |
| Romblon | 5325.2 (4753.9–5886.0) | 100.7 (73.1–135.6) | 1969.5 (1677.6–2293.6) | 2205.4 (1857.2–2585.9) | 762.7 (635.8–912.5) | 1309.1 (1048.6–1614.3) | 133.9 (95.6–185.1) | 792.6 (529.4–1020.3) | 3.3 (1.9–5.1) | 1.9 (1.1–3.4) | 1.3 (0.6–2.6) | 0.1 (0.02–0.2) | 46.3 (27.5–86.6) | 2.5 (0.9–9.2) | 1.9 (0.4–7.7) | 41.3 (24.7–77.0) | 3.0 (1.0–11.1) | 106.1 (84.0–134.2) | 15.6 (11.6–21.6) | 12.7 (8.3–19.0) | 33.9 (22.9–48.1) | 35.9 (24.8–52.2) |
| Samar (Western Samar) | 8972.1 (7981.0–10016.0) | 178.6 (126.3–236.2) | 3764.1 (3222.2–4376.3) | 3500.8 (2906.2–4112.2) | 1312.9 (1080.3–1594.6) | 1981.7 (1565.9–2372.5) | 206.2 (153.3–276.6) | 1138.3 (703.6–1512.8) | 7.4 (5.3–10.1) | 4.9 (3.3–7.2) | 2.2 (1.3–3.2) | 0.3 (0.1–0.7) | 133.7 (90.8–181.3) | 5.7 (2.7–10.7) | 5.7 (2.0–13.1) | 122.2 (82.9–165.9) | 4.1 (1.3–15.4) | 123.5 (98.0–157.1) | 17.0 (11.8–26.3) | 11.7 (7.4–17.8) | 23.0 (13.2–42.0) | 69.8 (50.6–93.1) |
| Sarangani | 10234.3 (8803.7–11422.7) | 117.9 (80.0–171.8) | 4605.4 (3852.8–5370.3) | 4524.4 (3394.1–5339.3) | 1711.6 (1287.0–2055.9) | 2590.0 (1877.5–3131.1) | 222.9 (163.5–293.9) | 570.7 (372.1–914.7) | 9.1 (5.7–12.5) | 5.8 (3.2–8.7) | 3.1 (1.7–4.9) | 0.2 (0.04–0.6) | 59.9 (34.8–110.7) | 2.9 (1.5–5.4) | 2.6 (0.8–11.6) | 54.3 (31.6–96.9) | 4.1 (1.7–14.6) | 120.9 (93.2–154.9) | 27.4 (19.3–35.6) | 12.4 (8.0–18.3) | 28.7 (18.7–43.4) | 153.4 (79.4–215.2) |
| Siquijor | 5120.4 (4495.1–5700.3) | 80.4 (56.0–116.3) | 2358.7 (1993.5–2735.4) | 1817.4 (1526.6–2138.1) | 688.8 (559.4–831.4) | 1026.3 (815.4–1270.6) | 102.3 (62.4–172.6) | 591.0 (426.5–756.9) | 2.9 (1.4–5.6) | 0.8 (0.4–2.1) | 1.9 (0.9–3.9) | 0.2 (0.04–0.5) | 70.8 (48.0–95.7) | 4.1 (1.7–7.3) | 5.8 (1.5–12.3) | 60.8 (41.2–83.3) | 3.4 (1.2–11.9) | 105.6 (82.5–134.9) | 6.7 (4.2–20.4) | 8.7 (4.8–15.2) | 26.8 (17.6–39.4) | 48.2 (35.4–62.7) |
| Sorsogon | 6598.0 (5881.9–7265.3) | 116.0 (82.4–156.3) | 3293.3 (2891.5–3726.6) | 2461.6 (2097.7–2862.8) | 834.7 (693.5–995.7) | 1476.0 (1220.3–1743.5) | 150.9 (114.7–192.9) | 486.2 (375.2–629.0) | 2.8 (1.4–5.0) | 0.9 (0.5–2.1) | 1.8 (0.9–3.4) | 0.1 (0.01–0.1) | 42.7 (26.8–72.2) | 1.4 (0.7–2.9) | 2.0 (0.7–7.4) | 39.2 (25.0–65.9) | 2.3 (0.8–8.8) | 103.0 (81.2–131.2) | 12.9 (9.5–18.4) | 9.8 (5.6–16.1) | 23.3 (17.2–32.0) | 44.1 (33.8–55.9) |
| South Cotabato | 7891.2 (7117.7–8730.7) | 144.2 (105.8–187.4) | 3369.1 (2950.7–3822.6) | 3145.8 (2702.5–3673.1) | 987.4 (817.8–1183.3) | 1941.1 (1613.1–2358.4) | 217.3 (161.9–283.7) | 864.9 (682.1–1084.0) | 9.4 (6.0–12.6) | 5.5 (3.4–8.0) | 3.8 (2.0–5.5) | 0.1 (0.03–0.2) | 86.0 (58.1–123.1) | 4.8 (2.2–7.9) | 4.2 (1.7–11.9) | 77.0 (52.0–114.4) | 4.9 (2.3–15.8) | 123.0 (99.6–152.6) | 32.6 (24.3–42.9) | 10.9 (6.7–17.4) | 31.5 (22.6–43.3) | 69.0 (53.0–88.2) |
| Southern Leyte | 5571.1 (4969.3–6197.7) | 120.3 (85.6–162.6) | 2067.1 (1768.4–2386.5) | 2286.9 (1953.2–2703.2) | 846.6 (707.8–1005.5) | 1303.8 (1079.6–1564.3) | 136.5 (92.5–200.2) | 820.9 (609.2–1036.9) | 5.8 (4.2–7.9) | 3.7 (2.6–5.3) | 2.1 (1.3–3.3) | 0.03 (0.008–0.1) | 44.8 (25.9–90.9) | 1.2 (0.5–3.1) | 2.4 (0.7–9.7) | 41.1 (24.1–84.0) | 2.8 (0.9–11.3) | 121.5 (96.4–150.5) | 14.9 (10.6–25.5) | 12.6 (8.4–18.5) | 31.1 (21.7–42.8) | 42.5 (30.8–59.3) |
| Sultan Kudarat | 6490.5 (5674.5–7394.8) | 115.0 (83.6–152.3) | 2591.2 (2188.5–3057.8) | 2715.5 (2308.3–3230.0) | 780.6 (630.7–952.9) | 1789.5 (1445.4–2220.8) | 145.4 (96.8–202.7) | 688.6 (510.4–903.9) | 7.6 (4.9–11.1) | 4.8 (3.2–7.0) | 2.7 (1.3–4.4) | 0.1 (0.02–0.2) | 156.8 (85.9–230.5) | 4.8 (2.7–8.1) | 6.5 (2.0–14.6) | 145.5 (74.8–215.8) | 2.1 (0.4–9.5) | 109.3 (85.2–139.0) | 25.8 (17.9–34.5) | 7.8 (4.0–14.4) | 24.8 (15.9–38.7) | 46.0 (34.0–59.6) |
| Sulu | 9600.5 (7615.1–10984.7) | 71.1 (47.6–104.1) | 5244.3 (4005.5–6437.9) | 3505.9 (2399.7–4455.8) | 1248.8 (884.6–1585.2) | 2106.5 (1352.3–2752.3) | 150.6 (102.3–228.2) | 567.7 (359.7–790.0) | 3.7 (2.0–5.7) | 1.4 (0.6–2.7) | 2.1 (1.2–3.4) | 0.1 (0.003–0.4) | 49.0 (30.7–68.7) | 0.9 (0.4–2.1) | 2.5 (0.8–7.2) | 45.5 (28.4–64.0) | 0.7 (0.2–2.9) | 94.6 (63.7–131.2) | 8.7 (5.5–13.9) | 7.3 (3.4–13.4) | 14.7 (8.1–26.3) | 32.9 (24.4–43.7) |
| Surigao Del Norte | 6501.3 (5787.0–7362.6) | 114.0 (81.1–152.9) | 2822.2 (2399.4–3245.7) | 2517.6 (2139.1–2954.2) | 882.1 (737.5–1066.5) | 1496.0 (1217.3–1820.5) | 139.5 (99.7–192.8) | 619.8 (445.8–838.1) | 5.4 (3.8–7.4) | 3.2 (2.2–4.7) | 2.1 (1.4–3.1) | 0.04 (0.01–0.1) | 196.2 (85.2–273.8) | 6.1 (3.3–10.1) | 6.6 (1.5–14.4) | 183.4 (77.1–258.1) | 2.5 (0.8–9.6) | 114.9 (91.7–143.9) | 16.4 (11.8–25.2) | 12.6 (8.0–18.8) | 24.9 (17.8–35.3) | 55.0 (41.0–71.0) |
| Surigao Del Sur | 7096.8 (6264.4–8057.5) | 123.0 (85.2–167.0) | 2758.9 (2335.3–3257.0) | 3173.3 (2689.2–3711.9) | 1078.7 (874.5–1328.2) | 1906.2 (1564.6–2302.6) | 188.4 (137.5–247.9) | 712.1 (528.2–920.1) | 6.7 (4.2–10.0) | 3.8 (2.3–5.8) | 2.8 (1.5–4.5) | 0.2 (0.03–0.4) | 67.8 (40.6–108.8) | 4.3 (2.1–7.6) | 3.7 (1.4–11.3) | 59.8 (36.1–98.6) | 3.5 (1.1–12.4) | 122.7 (98.3–158.5) | 20.3 (14.4–27.9) | 14.0 (9.2–19.9) | 31.7 (21.7–45.7) | 63.0 (45.9–83.3) |
| Tarlac | 7627.4 (6947.4–8304.1) | 121.5 (84.3–164.6) | 3827.9 (3422.5–4287.3) | 2846.0 (2435.3–3254.5) | 857.3 (719.2–1008.9) | 1820.5 (1516.7–2130.4) | 168.1 (124.7–221.7) | 503.2 (382.1–704.7) | 8

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sub-Saharan Africa** | **5770.2 (4975.2–6582.0)** | **177.5 (129.9–236.1)** | **1674.3 (1200.5–2159.1)** | **2400.9 (1912.8–2929.6)** | **971.2 (688.4–1341.9)** | **1341.0 (990.8–1785.3)** | **88.8 (33.2–207.3)** | **722.2 (481.2–1004.2)** | **40.0 (24.9–64.0)** | **22.1 (12.4–35.2)** | **17.6 (9.3–28.6)** | **0.4 (0.1–0.8)** | **232.4 (142.1–325.9)** | **9.8 (4.2–19.1)** | **2.2 (0.7–6.9)** | **220.4 (137.4–309.4)** | **11.1 (5.6–20.6)** | **78.9 (59.9–100.4)** | **61.4 (38.2–93.1)** | **40.1 (26.4–54.7)** | **51.8 (32.1–81.4)** | **279.5 (184.7–391.5)** |
| Central Sub-Saharan Africa | 6907.2 (5303.4–8335.3) | 257.5 (154.1–400.9) | 1926.2 (1172.8–2756.6) | 2847.5 (2024.9–3878.0) | 1140.2 (663.8–1826.7) | 1591.6 (1098.7–2326.3) | 115.7 (29.7–364.3) | 947.2 (530.3–1456.4) | 41.1 (23.1–66.2) | 22.2 (11.1–39.0) | 18.6 (9.7–31.9) | 0.3 (0.1–0.8) | 390.1 (181.4–699.4) | 22.2 (6.4–56.3) | 0.6 (0.2–2.7) | 367.3 (171.9–661.4) | 11.7 (5.0–23.9) | 78.9 (53.4–102.8) | 62.2 (38.2–100.2) | 40.1 (24.1–61.3) | 47.9 (27.6–74.4) | 256.9 (139.9–414.6) |
| Angola | 6004.0 (4898.5–7125.7) | 235.4 (166.0–310.1) | 1804.8 (1253.4–2441.8) | 2438.1 (1814.3–3143.5) | 1019.6 (732.0–1439.3) | 1334.2 (926.8–1811.3) | 84.3 (40.0–178.1) | 700.5 (376.5–1026.7) | 38.0 (22.8–56.6) | 21.6 (12.4–35.9) | 16.0 (8.1–26.7) | 0.3 (0.1–0.8) | 327.2 (184.8–486.5) | 16.0 (6.0–35.7) | 0.4 (0.2–1.8) | 310.8 (170.9–460.1) | 9.3 (4.6–17.6) | 72.4 (54.5–93.6) | 66.7 (38.8–107.1) | 43.2 (28.0–62.2) | 45.0 (29.2–70.2) | 223.4 (150.9–321.3) |
| Central African Republic | 7257.4 (5150.7–9377.5) | 325.6 (175.2–585.5) | 1850.2 (901.5–2917.4) | 3547.7 (2437.4–4874.6) | 1511.4 (765.9–2392.8) | 1938.0 (1250.9–2979.5) | 98.3 (22.7–319.3) | 788.8 (410.8–1291.2) | 27.7 (14.0–47.9) | 13.4 (6.0–25.1) | 14.1 (6.6–26.0) | 0.2 (0.05–0.4) | 329.0 (138.6–602.4) | 25.0 (6.4–75.4) | 0.5 (0.1–2.0) | 303.4 (129.4–546.5) | 11.3 (4.5–23.4) | 65.1 (44.1–89.4) | 35.7 (19.2–67.0) | 28.3 (15.5–44.8) | 42.9 (20.2–74.7) | 205.3 (101.5–376.1) |
| Congo | 7045.9 (5738.4–8508.3) | 210.2 (140.8–307.9) | 2302.0 (1486.5–3170.5) | 2825.4 (2110.5–3688.0) | 1314.5 (890.5–1881.9) | 1420.0 (1005.3–2014.5) | 90.9 (34.3–205.4) | 845.4 (442.4–1410.5) | 41.2 (25.2–68.9) | 24.5 (13.6–40.9) | 16.3 (8.4–29.4) | 0.4 (0.1–0.9) | 321.5 (176.2–504.7) | 10.9 (3.8–27.4) | 0.4 (0.1–1.8) | 310.3 (168.3–491.8) | 6.4 (3.1–11.9) | 84.5 (61.8–110.6) | 81.1 (40.5–137.3) | 51.4 (33.5–76.9) | 41.2 (23.8–64.5) | 235.6 (147.4–354.8) |
| Democratic Republic of the Congo | 7241.3 (5382.5–9068.9) | 267.7 (144.9–461.2) | 1944.3 (1081.2–2903.9) | 2986.0 (2052.6–4187.1) | 1159.1 (602.7–1999.3) | 1695.4 (1117.7–2687.5) | 131.4 (22.8–447.1) | 1058.5 (568.9–1687.8) | 42.9 (21.8–70.2) | 22.5 (10.5–40.5) | 20.0 (9.6–36.2) | 0.3 (0.1–0.8) | 425.7 (164.8–842.1) | 25.6 (6.9–68.2) | 0.7 (0.2–3.3) | 399.3 (155.4–791.8) | 13.1 (5.3–28.2) | 81.0 (51.2–104.6) | 59.3 (32.3–96.4) | 38.5 (20.5–61.5) | 50.1 (24.5–81.7) | 274.3 (136.8–474.4) |
| Equatorial Guinea | 7135.0 (5579.9–8751.3) | 187.5 (126.7–257.9) | 2573.0 (1672.8–3535.1) | 2417.7 (1628.2–3407.0) | 1069.5 (710.4–1517.4) | 1253.7 (796.3–1954.6) | 94.5 (45.2–183.3) | 941.8 (412.0–1655.1) | 55.6 (31.9–87.3) | 35.1 (18.9–57.3) | 19.8 (9.8–34.7) | 0.7 (0.3–1.5) | 338.7 (155.9–526.2) | 8.2 (3.6–17.5) | 0.4 (0.1–2.0) | 330.2 (151.7–516.4) | 6.4 (3.2–11.8) | 100.4 (74.1–133.0) | 126.7 (63.6–231.2) | 62.2 (37.3–100.9) | 45.7 (26.6–72.8) | 279.2 (177.0–414.2) |
| Gabon | 5207.0 (4220.3–6155.7) | 177.8 (120.5–239.8) | 1776.2 (1277.2–2337.5) | 1808.6 (1321.7–2416.8) | 826.7 (593.9–1216.9) | 911.8 (613.8–1322.3) | 70.1 (38.1–126.2) | 669.2 (297.0–1122.8) | 38.5 (23.0–59.2) | 23.7 (13.6–37.7) | 14.3 (7.0–24.1) | 0.5 (0.2–1.3) | 250.0 (126.2–381.7) | 7.1 (3.0–16.5) | 0.3 (0.1–0.9) | 242.6 (117.1–371.8) | 5.3 (2.7–9.8) | 88.0 (64.3–115.3) | 90.8 (42.9–156.6) | 48.9 (31.8–76.3) | 35.0 (21.9–55.1) | 218.7 (142.9–322.5) |
| Eastern Sub-Saharan Africa | 5084.5 (4411.5–5799.9) | 179.3 (122.8–249.1) | 1319.9 (937.5–1768.3) | 2143.0 (1675.9–2616.7) | 803.5 (517.7–1144.9) | 1255.6 (920.4–1723.0) | 83.9 (27.0–207.5) | 839.4 (521.0–1244.6) | 37.1 (22.7–58.0) | 18.4 (10.2–28.7) | 18.5 (9.9–30.8) | 0.3 (0.1–0.6) | 131.0 (78.2–195.5) | 7.8 (3.4–15.4) | 0.4 (0.2–0.9) | 122.8 (73.7–186.4) | 11.3 (5.8–21.3) | 70.8 (51.9–92.0) | 48.5 (31.1–70.7) | 32.5 (20.7–46.0) | 55.4 (34.1–84.6) | 216.4 (139.5–313.2) |
| Burundi | 6119.5 (4831.2–7429.2) | 222.3 (145.7–345.8) | 1708.0 (1053.7–2453.1) | 2735.9 (1977.2–3518.4) | 1044.1 (406.7–1706.4) | 1586.4 (1066.7–2252.3) | 105.4 (21.9–295.1) | 807.8 (479.4–1226.1) | 35.4 (19.2–58.3) | 16.2 (7.3–29.1) | 19.0 (9.8–31.8) | 0.2 (0.1–0.5) | 168.5 (91.1–266.7) | 14.7 (5.7–30.9) | 0.4 (0.2–1.2) | 153.3 (83.8–244.7) | 18.0 (7.9–35.0) | 64.2 (44.0–86.7) | 47.3 (28.9–76.8) | 28.0 (16.0–44.5) | 62.9 (35.4–99.7) | 222.8 (128.9–346.8) |
| Comoros | 2425.9 (1916.7–2978.3) | 123.5 (82.9–176.6) | 687.0 (446.1–946.9) | 991.3 (726.1–1235.2) | 438.5 (266.3–625.7) | 508.8 (330.6–698.7) | 44.0 (19.7–88.0) | 314.2 (178.3–468.5) | 13.9 (8.2–22.0) | 7.3 (3.9–11.9) | 6.5 (3.5–10.6) | 0.1 (0.04–0.2) | 66.5 (38.3–99.4) | 4.0 (1.8–8.0) | 0.3 (0.1–0.5) | 62.3 (36.1–95.0) | 3.9 (1.8–7.4) | 45.7 (31.6–61.1) | 23.4 (10.9–41.3) | 16.8 (9.9–26.7) | 16.4 (9.8–26.6) | 123.1 (82.5–170.8) |
| Djibouti | 4016.8 (3063.4–4983.3) | 136.2 (88.9–197.2) | 1323.5 (913.6–1839.3) | 1519.2 (1098.7–2037.1) | 623.3 (444.9–869.1) | 831.0 (560.3–1156.8) | 65.0 (33.2–127.9) | 598.0 (288.5–994.5) | 28.7 (16.2–46.5) | 15.0 (7.6–24.2) | 13.5 (6.7–23.7) | 0.2 (0.1–0.6) | 98.1 (44.0–172.7) | 4.3 (1.7–8.7) | 0.3 (0.2–0.9) | 93.5 (41.5–168.2) | 6.1 (3.2–11.5) | 58.3 (42.0–80.0) | 38.6 (16.5–65.0) | 27.6 (15.2–47.8) | 33.8 (18.7–55.2) | 148.6 (101.0–199.3) |
| Eritrea | 5961.9 (4428.3–7480.1) | 216.1 (147.4–310.2) | 1685.7 (1046.6–2380.0) | 2541.9 (1715.2–3494.1) | 881.6 (516.0–1479.5) | 1551.9 (883.3–2384.9) | 108.4 (35.0–336.5) | 839.7 (456.3–1316.5) | 39.4 (22.0–63.6) | 16.6 (7.9–28.6) | 22.5 (11.3–38.0) | 0.3 (0.1–0.8) | 167.8 (87.2–284.5) | 13.9 (5.3–32.2) | 0.4 (0.2–0.9) | 153.5 (80.3–262.0) | 16.6 (7.5–32.5) | 60.8 (42.9–84.1) | 63.0 (28.8–127.3) | 23.9 (13.4–41.2) | 76.6 (41.7–132.2) | 230.5 (145.2–341.6) |
| Ethiopia | 5317.8 (4503.3–6237.6) | 219.8 (140.9–325.8) | 1360.9 (960.6–1835.3) | 1914.0 (1406.3–2377.3) | 597.5 (330.5–927.8) | 1235.6 (879.8–1584.6) | 80.8 (24.0–207.9) | 1115.9 (616.1–1795.3) | 45.4 (27.1–70.8) | 21.4 (11.8–34.1) | 23.6 (12.8–40.5) | 0.4 (0.1–0.8) | 165.0 (101.8–252.6) | 10.1 (4.3–19.8) | 0.4 (0.2–1.2) | 154.4 (96.3–239.7) | 16.1 (8.3–30.4) | 75.3 (55.5–99.6) | 48.4 (29.9–72.1) | 34.3 (21.3–51.1) | 78.8 (44.3–130.4) | 243.8 (155.1–351.9) |
| Addis Ababa | 7763.9 (6058.2–9540.8) | 126.0 (87.1–180.1) | 2352.3 (1712.0–3123.1) | 3287.0 (2349.0–4371.0) | 1227.3 (666.8–1789.9) | 1916.8 (1269.2–2766.8) | 142.9 (42.1–287.1) | 1210.4 (580.6–2007.1) | 58.5 (36.2–93.3) | 31.8 (18.0–50.9) | 26.2 (13.4–47.9) | 0.6 (0.3–1.4) | 166.8 (69.4–284.5) | 5.5 (2.3–11.1) | 0.3 (0.1–0.9) | 160.9 (66.4–277.5) | 9.0 (4.8–16.2) | 100.4 (77.3–135.0) | 86.7 (44.9–124.2) | 55.9 (36.8–84.1) | 56.7 (32.8–94.6) | 254.3 (170.3–354.3) |
| Afar | 6230.1 (4865.2–7709.7) | 237.2 (154.5–325.9) | 1610.3 (1030.6–2273.7) | 2650.1 (1853.7–3507.7) | 788.3 (470.9–1364.9) | 1777.0 (1053.4–2568.4) | 84.8 (33.3–221.9) | 1056.0 (610.1–1741.7) | 37.6 (23.6–58.4) | 16.1 (8.1–25.8) | 21.3 (11.9–35.7) | 0.2 (0.1–0.5) | 174.9 (97.6–257.9) | 17.7 (7.7–35.2) | 0.5 (0.2–1.1) | 156.7 (87.6–236.6) | 20.0 (9.4–36.9) | 71.4 (52.1–98.4) | 41.4 (21.7–67.7) | 32.7 (18.9–55.2) | 73.0 (38.6–119.9) | 225.5 (146.3–335.7) |
| South West | 5555.6 (4631.3–6554.8) | 241.8 (146.6–379.9) | 1340.1 (957.8–1864.6) | 2055.3 (1475.6–2595.5) | 628.6 (352.2–993.1) | 1344.9 (941.8–1739.8) | 81.8 (24.2–233.2) | 1189.9 (640.0–1930.0) | 46.1 (28.1–71.9) | 21.1 (11.6–34.4) | 24.6 (14.0–43.8) | 0.4 (0.1–0.9) | 170.1 (101.8–254.2) | 10.8 (4.6–22.8) | 0.4 (0.2–1.1) | 158.8 (95.6–241.4) | 17.5 (8.8–35.4) | 76.0 (56.5–100.6) | 46.0 (28.6–70.4) | 32.0 (18.5–47.7) | 85.2 (46.5–144.7) | 255.6 (163.0–371.9) |
| Amhara | 6559.1 (5301.7–7982.5) | 222.7 (144.2–327.4) | 1834.4 (1243.9–2440.8) | 2709.8 (2003.2–3596.9) | 883.3 (555.1–1294.0) | 1740.8 (1165.6–2472.0) | 85.7 (34.3–206.9) | 1059.8 (557.3–1776.4) | 42.9 (25.9–68.7) | 18.8 (9.7–30.6) | 23.9 (12.8–39.9) | 0.4 (0.1–0.7) | 192.7 (101.0–299.8) | 15.7 (6.6–32.0) | 0.5 (0.2–1.2) | 176.5 (91.1–279.5) | 17.3 (8.4–31.0) | 69.5 (50.7–92.5) | 51.4 (29.0–82.6) | 31.0 (18.5–49.7) | 82.8 (39.9–145.6) | 244.8 (157.5–347.9) |
| Oromia | 5397.6 (4308.7–6568.9) | 187.2 (125.7–261.5) | 1572.2 (1082.1–2222.4) | 1749.9 (1237.9–2343.5) | 534.4 (331.2–857.0) | 1118.9 (805.7–1553.8) | 96.5 (28.6–228.1) | 1124.2 (594.2–1906.0) | 51.3 (30.5–81.9) | 25.6 (14.0–42.0) | 25.2 (13.6–42.8) | 0.5 (0.2–1.2) | 178.7 (92.1–292.0) | 8.9 (3.7–17.0) | 0.4 (0.2–1.3) | 169.3 (89.4–281.2) | 13.6 (6.8–25.4) | 83.5 (62.7–109.6) | 55.5 (34.1–85.5) | 45.9 (27.4–72.4) | 77.0 (44.5–126.4) | 258.6 (173.0–367.9) |
| Dire Dawa | 5580.9 (4479.7–6826.4) | 202.8 (131.6–302.9) | 1586.4 (1098.3–2286.8) | 2041.9 (1400.1–2787.4) | 673.2 (394.3–1012.7) | 1273.0 (867.3–1712.5) | 95.7 (25.2–237.4) | 1057.5 (545.6–1739.8) | 47.3 (28.5–73.2) | 22.8 (12.1–35.9) | 24.1 (13.0–41.0) | 0.4 (0.1–0.9) | 162.4 (90.7–275.5) | 8.9 (3.6–17.8) | 0.4 (0.2–1.1) | 153.1 (85.3–267.7) | 12.9 (6.5–24.1) | 77.2 (57.2–104.1) | 48.5 (27.2–75.0) | 40.5 (23.6–65.0) | 68.4 (38.8–114.8) | 235.2 (149.6–346.6) |
| Gambella | 5663.2 (4648.7–6923.0) | 179.3 (119.3–257.9) | 1572.5 (1081.3–2249.6) | 2007.7 (1462.5–2688.7) | 640.1 (329.3–1054.4) | 1261.5 (888.0–1791.7) | 106.1 (30.8–244.9) | 1149.9 (629.5–1865.3) | 48.8 (29.3–75.8) | 24.1 (13.1–40.5) | 24.2 (13.2–41.0) | 0.4 (0.2–1.1) | 187.3 (98.4–291.4) | 9.6 (4.1–19.8) | 0.4 (0.2–1.4) | 177.3 (92.7–278.2) | 13.4 (7.0–24.5) | 82.0 (59.6–111.8) | 59.0 (37.0–90.0) | 47.0 (28.8–70.8) | 64.6 (36.4–107.7) | 251.7 (164.1–363.1) |
| Harari | 4947.8 (4120.0–5927.7) | 228.0 (146.2–348.5) | 1189.3 (807.9–1647.1) | 1677.8 (1206.3–2205.4) | 516.6 (278.1–785.1) | 1088.5 (764.4–1460.1) | 72.7 (21.9–188.9) | 1134.9 (637.8–1807.1) | 46.2 (27.5–72.6) | 21.9 (11.8–34.9) | 24.0 (12.8–41.3) | 0.3 (0.1–0.8) | 165.4 (104.0–252.4) | 9.8 (4.2–19.2) | 0.5 (0.2–1.2) | 155.2 (97.3–237.4) | 16.1 (8.3–29.8) | 75.5 (55.3–98.0) | 49.3 (30.3–72.6) | 35.3 (21.5–53.6) | 85.4 (47.6–140.8) | 244.5 (154.9–360.3) |
| Oromia | 4983.1 (3784.9–6621.3) | 196.8 (124.3–292.1) | 1343.9 (840.7–1973.4) | 1672.7 (1112.0–2495.0) | 547.8 (227.1–1002.4) | 1030.8 (614.4–1663.1) | 94.1 (18.7–235.5) | 1065.3 (567.8–1825.8) | 47.7 (25.6–81.6) | 24.0 (11.3–42.3) | 23.4 (11.3–42.4) | 0.3 (0.1–0.9) | 164.8 (89.9–269.7) | 9.4 (3.6–18.0) | 0.5 (0.2–1.4) | 155.0 (83.1–256.3) | 17.2 (7.8–35.7) | 78.3 (54.0–105.3) | 52.9 (28.7–84.3) | 38.5 (21.8–62.4) | 58.0 (30.8–105.0) | 247.0 (145.0–403.3) |
| Sidama | 4659.7 (3778.3–5723.9) | 196.6 (127.4–284.4) | 1341.5 (894.8–1874.0) | 1785.6 (1281.1–2379.0) | 567.3 (333.8–970.5) | 1149.3 (695.5–1696.8) | 69.0 (29.1–162.8) | 769.4 (444.3–1215.4) | 31.5 (18.1–49.4) | 14.5 (7.3–24.5) | 16.8 (9.1–27.6) | 0.2 (0.1–0.5) | 132.5 (75.3–209.9) | 11.2 (4.6–22.5) | 0.5 (0.2–1.2) | 120.7 (67.9–185.8) | 14.9 (6.5–27.4) | 61.7 (43.4–84.0) | 46.5 (22.7–80.7) | 28.9 (15.7–55.5) | 58.7 (29.8–99.2) | 192.0 (128.0–275.7) |
| Somali | 8163.1 (6213.0–11183.8) | 257.2 (157.6–405.4) | 2342.6 (1484.7–3588.8) | 2666.0 (1713.4–4195.3) | 817.6 (335.1–1481.7) | 1695.2 (1012.0–2833.0) | 153.2 (24.8–380.3) | 1694.4 (861.5–2972.3) | 87.3 (45.8–150.3) | 44.1 (21.0–82.0) | 42.6 (19.7–81.1) | 0.6 (0.2–1.5) | 292.6 (153.1–491.1) | 19.3 (7.1–39.3) | 0.6 (0.2–2.5) | 272.7 (139.5–466.0) | 33.6 (15.3–74.6) | 111.8 (74.6–157.5) | 97.2 (52.1–158.4) | 63.7 (35.4–111.8) | 108.9 (59.4–192.6) | 407.6 (214.4–724.3) |
| Southern Sub-Saharan Africa | 4878.2 (3954.6–6030.0) | 210.3 (132.0–301.3) | 1336.1 (941.8–1961.2) | 1670.3 (1142.2–2307.0) | 524.3 (263.2–960.3) | 1077.7 (699.9–1536.4) | 68.2 (20.6–164.0) | 1029.5 (522.2–1676.5) | 39.1 (22.7–62.7) | 17.9 (9.3–30.0) | 20.9 (11.1–36.1) | 0.3 (0.1–0.7) | 152.3 (91.1–232.1) | 8.6 (3.8–17.2) | 0.4 (0.2–1.1) | 143.4 (86.1–222.7) | 13.6 (6.7–25.8) | 68.1 (49.1–92.8) | 37.0 (21.5–59.5) | 30.2 (18.6–43.9) | 71.3 (40.0–120.6) | 220.5 (138.0–324.5) |
| Tigray | 4915.1 (4096.4–5979.4) | 201.4 (132.5–293.8) | 1230.2 (874.5–1687.1) | 1804.0 (1324.0–2323.4) | 506.4 (298.7–790.5) | 1219.9 (836.4–1609.9) | 77.7 (25.2–216.6) | 1005.2 (560.4–1598.4) | 41.7 (25.4–66.1) | 18.7 (10.3–30.5) | 22.7 (12.9–38.8) | 0.4 (0.1–0.9) | 164.6 (99.7–259.0) | 10.9 (4.7–20.2) | 0.4 (0.2–1.1) | 153.3 (91.5–245.0) | 15.5 (8.1–29.9) | 69.9 (53.1–95.1) | 38.3 (22.5–64.9) | 28.0 (17.3–42.6) | 75.8 (43.6–123.5) | 240.5 (161.8–354.1) |
| Kenya | 3158.3 (2525.2–3839.8) | 129.8 (88.0–184.4) | 827.8 (582.6–1126.1) | 1321.0 (983.3–1719.0) | 505.9 (337.7–724.3) | 759.1 (538.8–1037.0) | 56.1 (22.6–126.1) | 494.9 (289.7–729.6) | 24.3 (14.9–38.1) | 12.9 (7.3–21.0) | 11.2 (5.8–18.7) | 0.2 (0.1–0.5) | 76.7 (44.6–117.8) | 3.0 (1.3–6.3) | 0.3 (0.1–0.6) | 73.4 (42.3–115.2) | 4.8 (2.4–9.2) | 61.8 (44.6–80.7) | 28.8 (17.1–42.5) | 24.8 (15.4–36.5) | 28.4 (18.6–44.7) | 135.0 (90.7–196.9) |
| Baringo | 4394.6 (3511.2–5337.7) | 153.3 (103.6–217.2) | 1225.7 (852.9–1675.3) | 1981.5 (1465.5–2533.8) | 663.9 (421.9–1053.4) | 1241.4 (829.1–1726.2) | 76.2 (28.5–217.7) | 593.4 (303.9–891.7) | 25.6 (14.8–39.3) | 11.9 (6.4–18.9) | 13.4 (7.3–21.7) | 0.2 (0.1–0.6) | 99.9 (56.3–152.2) | 4.1 (1.6–10.5) | 0.3 (0.2–0.8) | 95.5 (53.0–145.9) | 5.5 (2.8–10.7) | 61.9 (44.7–82.5) | 37.5 (23.3–59.2) | 23.4 (14.1–36.3) | 37.9 (24.2–59.8) | 149.1 (95.3–219.1) |
| Bomet | 3084.0 (2306.7–4021.2) | 141.9 (96.6–201.7) | 758.9 (487.6–1170.2) | 1217.1 (822.2–1788.5) | 428.8 (244.4–714.9) | 726.8 (457.2–1150.6) | 61.5 (20.4–165.2) | 562.1 (343.2–876.4) | 25.6 (15.1–41.3) | 14.0 (7.4–23.0) | 11.4 (5.7–21.6) | 0.2 (0.1–0.5) | 74.7 (43.1–123.0) | 2.3 (0.9–4.6) | 0.3 (0.2–0.7) | 72.1 (42.1–119.3) | 4.6 (2.3–9.6) | 66.4 (48.7–88.4) | 34.4 (19.9–52.7) | 26.6 (15.2–40.8) | 29.9 (18.4–49.0) | 141.9 (91.4–216.3) |
| Bungoma | 3873.0 (3056.8–4733.9) | 139.8 (94.8–199.7) | 1029.8 (696.1–1413.4) | 1658.9 (1198.0–2158.8) | 596.4 (391.4–881.4) | 994.2 (679.5–1358.1) | 68.3 (24.5–167.2) | 588.9 (333.3–892.6) | 27.9 (16.6–44.3) | 14.0 (7.6–23.1) | 13.6 (7.3–23.3) | 0.2 (0.1–0.6) | 99.9 (55.1–157.6) | 4.2 (1.8–9.6) | 0.3 (0.2–0.7) | 95.4 (52.7–153.1) | 6.7 (3.4–12.8) | 64.3 (46.2–85.5) | 31.4 (18.7–45.0) | 24.8 (15.0–35.3) | 35.3 (22.1–54.3) | 165.3 (107.3–241.0) |
| Busia | 3581.8 (2844.7–4398.0) | 140.9 (95.2–200.4) | 934.1 (620.2–1314.1) | 1572.9 (1136.0–2064.6) | 554.3 (345.8–845.2) | 955.1 (668.6–1348.0) | 63.5 (23.5–166.9) | 518.5 (296.0–766.8) | 24.8 (14.3–38.7) | 11.7 (6.2–19.2) | 12.9 (6.7–20.7) | 0.2 (0.1–0.5) | 92.0 (50.8–141.9) | 4.4 (1.8–10.2) | 0.3 (0.1–0.6) | 87.3 (47.8–136.7) | 6.6 (3.2–12.5) | 60.2 (44.2–79.5) | 25.6 (16.2–38.3) | 22.0 (13.0–31.0) | 34.5 (21.9–51.2) | 149.5 (94.2–219.1) |
| Elgeyo-Marakwet | 3336.6 (2647.8–4139.0) | 133.0 (91.5–191.8) | 801.3 (534.6–1103.6) | 1536.8 (1137.2–1993.8) | 542.8 (321.1–821.1) | 935.5 (658.3–1275.8) | 58.5 (22.9–141.6) | 508.1 (292.8–756.3) | 20.6 (12.6–31.1) | 10.3 (5.7–16.6) | 10.1 (5.4–16.8) | 0.2 (0.1–0.4) | 75.6 (43.0–116.3) | 2.8 (1.3–6.3) | 0.3 (0.1–0.6) | 72.5 (41.2–112.7) | 3.8 (1.9–7.2) | 59.8 (43.8–78.8) | 21.0 (12.6–33.9) | 22.7 (13.7–33.3) | 25.9 (17.3–39.9) | 128.0 (83.2–186.8) |
| Embu | 3627.9 (2694.5–4642.2) | 132.8 (89.1–188.7) | 1024.2 (661.7–1502.2) | 1512.1 (1001.2–2303.0) | 630.3 (377.7–1062.8) | 821.5 (474.1–1278.9) | 60.3 (22.0–135.7) | 564.1 (292.4–817.4) | 28.4 (15.1–47.2) | 15.3 (7.8–26.3) | 12.6 (6.3–23.4) | 0.2 (0.1–0.6) | 82.3 (45.4–137.2) | 2.6 (1.1–5.8) | 0.3 (0.2–0.6) | 80.2 (42.2–134.5) | 4.6 (2.2–9.5) | 63.9 (45.7–84.4) | 32.7 (17.8–52.5) | 26.3 (16.4–39.6) | 30.8 (18.7–51.9) | 154.9 (98.6–231.2) |
| Garissa | 4472.1 (3417.4–5479.7) | 157.1 (108.6–222.4) | 1087.7 (731.1–1503.0) | 2338.3 (1628.5–3060.2) | 913.7 (626.1–1364.0) | 1371.0 (868.6–1968.6) | 53.6 (23.9–117.5) | 522.1 (254.5–812.6) | 20.3 (11.7–31.9) | 9.2 (4.7–15.5) | 11.0 (5.9–18.8) | 0.1 (0.1–0.3) | 80.0 (40.4–125.2) | 5.1 (2.3–12.1) | 0.3 (0.2–0.6) | 74.5 (37.7–119.0) | 7.3 (3.4–13.6) | 56.4 (40.4–77.3) | 21.6 (11.6–36.3) | 22.5 (13.7–36.9) | 27.9 (16.2–42.6) | 131.0 (87.0–192.1) |
| Homa Bay | 3085.6 (2311.0–4088.2) | 133.2 (89.8–190.4) | 804.6 (498.8–1215.1) | 1279.3 (852.6–1850.9) | 495.3 (302.1–737.9) | 728.0 (454.7–1085.3) | 56.0 (19.1–140.0) | 473.3 (266.5–711.1) | 24.3 (14.5–36.3) | 12.0 (6.4–19.6) | 12.0 (6.0–20.5) | 0.2 (0.1–0.5) | 81.1 (45.0–127.1) | 4.1 (1.6–8.2) | 0.2 (0.1–0.6) | 76.7 (41.4–123.4) | 6.3 (2.9–12.6) | 59.0 (42.2–78.1) | 25.2 (15.0–38.8) | 21.4 (12.7–31.3) | 38.0 (21.2–62.7) | 140.0 (83.7–216.1) |
| Isiolo | 4096.9 (3243.1–4958.8) | 147.7 (101.9–202.2) | 1096.9 (742.1–1510.7) | 1870.5 (1350.1–2470.8) | 715.8 (484.5–1040.2) | 1096.8 (726.7–1478.5) | 57.9 (24.3–143.5) | 570.8 (313.9–855.7) | 25.9 (15.5–42.1) | 12.7 (6.7–20.0) | 13.0 (7.0–23.0) | 0.2 (0.1–0.5) | 89.8 (51.1–144.7) | 4.7 (2.0–10.7) | 0.3 (0.2–0.6) | 84.8 (46.3–138.1) | 6.7 (3.3–13.5) | 61.8 (46.0–83.4) | 25.3 (14.6–40.8) | 25.0 (15.1–37.2) | 30.4 (18.7–48.8) | 146.0 (95.9–206.3) |
| Kajiado | 2970.9 (2341.8–3525.0) | 121.3 (79.5–179.2) | 786.1 (573.7–1068.2) | 1229.6 (905.1–1582.6) | 474.6 (337.5–649.9) | 707.8 (500.0–982.6) | 47.2 (22.0–101.3) | 472.1 (272.9–684.0) | 22.2 (13.5–33.9) | 12.2 (6.7–18.9) | 9.8 (5.1–16.5) | 0.2 (0.1–0.4) | 68.0 (39.0–104.2) | 2.6 (1.2–5.2) | 0.3 (0.2–0.6) | 65.1 (37.1–99.9) | 4.3 (2.2–7.9) | 64.7 (48.2–86.8) | 27.8 (17.3–40.6) | 26.2 (17.4–39.0) | 21.2 (13.2–32.3) | 127.4 (87.4–179.3) |
| Kakamega | 3070.5 (2335.7–3846.1) | 124.5 (84.6–182.1) | 794.7 (514.5–1207.8) | 1339.3 (920.5–1797.2) | 578.6 (356.2–865.4) | 714.1 (445.6–1025.3) | 46.6 (19.0–110.5) | 457.9 (251.8–723.8) | 20.9 (12.0–33.6) | 11.0 (6.0–18.4) | 9.7 (4.9–16.7) | 0.2 (0.1–0.4) | 68.3 (38.5–108.2) | 3.0 (1.3–6.0) | 0.2 (0.1–0.4) | 65.1 (36.3–105.3) | 4.5 (2.2–8.5) | 60.0 (43.0–81.0) | 22.9 (13.5–35.3) | 22.3 (13.2–31.4) | 23.4 (14.6–38.1) | 132.0 (85.9–194.6) |
| Kericho | 3451.5 (2679.5–4375.5) | 132.8 (91.0–189.2) | 878.0 (570.6–1299.0) | 1494.7 (1043.9–2020.0) | 586.6 (322.2–983.3) | 849.8 (554.0–1236.7) | 58.3 (21.3–133.1) | 543.8 (309.5–808.1) | 24.7 (14.6–37.8) | 12.9 (7.1–21.0) | 11.6 (6.1–18.5) | 0.2 (0.1–0.5) | 79.9 (45.2–124.7) | 2.8 (1.2–5.8) | 0.3 (0.2–0.6) | 76.8 (43.6–120.6) | 4.8 (2.3–9.5) | 64.0 (45.8–82.5) | 29.1 (17.3–44.3) | 24.5 (14.8–36.0) | 28.8 (18.9–47.4) | 146.4 (95.6–217.4) |
| Kiambu | 2270.7 (1820.6–2758.5) | 112.2 (74.3–169.2) | 579.9 (411.3–785.6) | 875.3 (640.8–1111.3) | 361.9 (254.8–494.5) | 472.3 (334.7–649.3) | 41.1 (20.6–76.7) | 395.2 (223.8–595.7) | 19.4 (12.0–29.6) | 10.9 (6.5–17.9) | 8.2 (4.4–13.8) | 0.2 (0.1–0.5) | 51.6 (28.3–81.0) | 1.4 (0.7–2.8) | 0.2 (0.1–0.4) | 50.0 (26.5–79.0) | 2.6 (1.4–4.7) | 59.7 (43.5–79.8) | 24.6 (15.3–36.8) | 23.8 (15.4–35.6) | 17.7 (11.6–26.7) | 108.6 (75.1–151.9) |
| Lamu | 2751.3 (2151.8–3471.9) | 134.7 (93.5–191.9) | 645.7 (438.4–926.1) | 1143.0 (780.4–1496.7) | 406.4 (271.5–569.6) | 686.8 (467.5–976.0) | 49.9 (20.3–117.1) | 473.9 (275.5–722.8) | 22.4 (13.2–36.4) | 11.3 (6.2–18.0) | 11.0 (5.7–19.7) | 0.2 (0.1–0.5) | 69.4 (41.0–108.8) | 3.1 (1.3–6.5) | 0.3 (0.1–0.5) | 66.1 (39.3–106.0) | 5.6 (2.8–11.5) | 59.6 (42.3–79.5) | 22.1 (11.2–31.9) | 16.4 (10.2–32.4) | 26.2 (16.5–42.3) | 129.2 (87.5–191.2) |
| Kilifi | 2776.7 (2139.1–3629.2) | 129.2 (85.8–184.9) | 736.3 (484.9–1118.3) | 1044.3 (711.3–1446.4) | 380.9 (244.5–573.6) | 604.4 (383.2–982.1) | 59.1 (21.2–131.3) | 488.6 (288.9–764.3) | 23.9 (14.3–39.0) | 13.2 (7.3–21.5) | 10.5 (4.9–18.6) | 0.2 (0.1–0.5) | 72.3 (38.2–119.7) | 2.2 (0.9–4.3) | 0.3 (0.2–0.7) | 69.7 (36.8–116.8) | 4.3 (2.2–8.4) | 62.8 (45.8–83.7) | 28.2 (17.5–42.8) | 26.2 (15.8–39.7) | 30.7 (18.0–53.1) | 130.0 (82.2–192.0) |
| Kirinyaga | 4597.6 (3476.6–5706.6) | 149.9 (97.0–218.3) | 1182.8 (798.0–1666.3) | 2015.7 (1361.5–2827.1) | 600.0 (370.6–912.3) | 1315.8 (860.1–1864.6) | 99.9 (35.0–279.8) | 644.9 (334.1–999.6) | 41.4 (24.3–68.6) | 18.8 (9.3–32.7) | 22.1 (11.3–38.7) | 0.5 (0.2–1.1) | 147.1 (79.6–257.0) | 6.8 (2.6–16.7) | 0.3 (0.2–0.9) | 140.0 (72.2–249.8) | 9.0 (4.3–18.6) | 63.8 (46.5–86.9) | 40.6 (23.9–62.0) | 24.2 (15.2–34.7) | 58.7 (35.8–94.5) | 219.5 (132.7–334.9) |
| Kisii | 2965.5 (2320.6–3915.8) | 115.3 (75.4–164.9) | 863.1 (585.9–1216.1) | 1179.0 (844.8–1599.7) | 502.1 (347.2–702.2) | 631.3 (428.9–913.6) | 45.5 (19.0–99.4) | 447.8 (248.7–705.0) | 22.2 (13.0–34.1) | 11.8 (6.3–19.0) | 10.2 (5.0–18.0) | 0.2 (0.1–0.5) | 71.2 (38.0–117.4) | 3.0 (1.

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mombasa | 2902.3 (2394.1–3601.3) | 115.1 (77.3–172.2) | 872.0 (605.8–1214.9) | 1075.2 (808.4–1385.1) | 442.6 (320.2–602.3) | 583.6 (414.2–793.9) | 49.0 (23.2–94.5) | 452.0 (253.9–683.7) | 24.4 (15.2–38.9) | 13.3 (8.0–22.1) | 10.8 (5.9–18.8) | 0.3 (0.1–0.7) | 73.8 (34.2–120.5) | 2.3 (1.0–4.5) | 0.3 (0.2–0.5) | 71.2 (32.4–117.8) | 3.6 (1.9–6.3) | 62.7 (47.7–83.3) | 37.2 (22.0–62.1) | 24.9 (15.8–36.0) | 22.4 (14.3–35.4) | 139.0 (96.9–192.1) |
| Murang'a | 2893.7 (1990.9–4100.0) | 129.9 (82.9–185.3) | 799.2 (505.2–1312.7) | 1046.8 (688.0–1637.1) | 385.5 (233.3–623.2) | 597.4 (359.1–1038.7) | 63.8 (21.4–147.4) | 511.2 (303.6–865.5) | 26.7 (14.2–46.2) | 15.1 (7.1–26.5) | 11.4 (4.9–22.6) | 0.2 (0.1–0.5) | 77.0 (34.9–130.2) | 2.1 (0.8–4.2) | 0.3 (0.2–0.9) | 74.6 (33.9–126.9) | 4.4 (2.1–9.8) | 63.6 (44.3–84.7) | 35.4 (19.7–60.2) | 26.9 (15.4–41.2) | 32.1 (16.5–61.2) | 140.6 (83.5–222.5) |
| Nairobi | 2171.6 (1630.5–3054.5) | 107.3 (68.9–165.3) | 614.9 (397.8–958.3) | 704.7 (473.1–969.8) | 283.6 (191.2–393.2) | 370.5 (224.4–603.0) | 50.6 (21.1–95.4) | 367.2 (224.8–618.9) | 26.6 (15.4–46.4) | 16.1 (8.4–27.8) | 10.2 (4.9–19.6) | 0.3 (0.1–0.7) | 77.3 (39.1–141.0) | 2.2 (1.0–4.1) | 0.2 (0.1–0.6) | 74.9 (37.5–138.7) | 3.2 (1.6–5.9) | 64.5 (47.1–91.4) | 40.2 (22.1–76.5) | 30.1 (18.8–49.3) | 24.6 (15.0–45.0) | 110.9 (70.5–165.8) |
| Nakuru | 2985.1 (2247.0–3716.1) | 117.8 (79.5–176.1) | 784.9 (513.1–1128.6) | 1272.1 (867.3–1784.7) | 532.1 (335.1–827.9) | 693.3 (436.9–993.8) | 46.6 (21.8–92.7) | 469.9 (264.5–723.7) | 22.6 (13.0–36.6) | 12.9 (7.1–20.4) | 9.5 (4.6–17.6) | 0.2 (0.1–0.5) | 58.0 (30.6–96.4) | 1.5 (0.7–2.8) | 0.3 (0.1–0.5) | 56.2 (29.1–94.2) | 2.7 (1.4–5.0) | 62.7 (44.9–83.1) | 26.7 (14.3–41.8) | 27.0 (16.9–40.8) | 18.8 (11.6–30.4) | 122.0 (82.5–173.8) |
| Nandi | 3428.3 (2667.9–4251.9) | 136.9 (90.7–198.6) | 855.3 (583.9–1206.1) | 1526.7 (1100.6–1972.8) | 569.0 (349.1–847.3) | 897.7 (617.4–1244.8) | 60.0 (22.6–160.7) | 517.8 (295.4–755.9) | 23.7 (14.3–37.1) | 11.9 (6.5–19.0) | 11.6 (6.1–19.5) | 0.2 (0.1–0.5) | 76.9 (43.7–120.3) | 2.9 (1.2–7.6) | 0.3 (0.1–0.5) | 73.8 (42.3–116.5) | 5.0 (2.3–10.3) | 61.9 (45.7–82.2) | 30.8 (18.4–47.8) | 24.0 (14.8–35.8) | 29.6 (17.0–46.5) | 139.7 (89.7–209.3) |
| Narok | 3298.1 (2664.3–3980.6) | 146.6 (98.2–206.2) | 792.6 (539.2–1117.0) | 1488.9 (1121.5–1899.5) | 561.0 (357.4–824.3) | 873.5 (612.4–1179.1) | 54.4 (22.4–136.5) | 506.2 (296.0–731.2) | 21.6 (13.4–32.8) | 11.2 (6.0–17.1) | 10.3 (5.5–17.1) | 0.2 (0.1–0.4) | 71.0 (43.3–105.3) | 3.0 (1.3–6.4) | 0.3 (0.2–0.6) | 67.7 (41.3–101.6) | 5.0 (2.4–9.6) | 61.3 (43.8–81.4) | 26.1 (15.6–39.1) | 24.2 (14.2–36.4) | 29.2 (19.0–46.8) | 125.2 (79.4–180.4) |
| Nyamira | 3569.7 (2362.9–4932.6) | 131.2 (88.0–199.1) | 780.8 (451.2–1501.5) | 1750.4 (974.4–2699.8) | 593.5 (283.7–1090.1) | 1081.9 (546.9–1778.6) | 75.1 (24.6–193.1) | 494.8 (278.2–813.9) | 23.9 (12.7–42.2) | 11.2 (5.7–20.2) | 12.4 (5.7–22.1) | 0.2 (0.1–0.6) | 100.0 (47.2–176.7) | 3.8 (1.4–7.8) | 0.3 (0.1–0.8) | 95.9 (44.5–171.7) | 4.6 (2.1–9.1) | 56.8 (40.6–75.5) | 21.2 (11.0–35.1) | 21.5 (13.2–34.1) | 36.7 (21.6–62.8) | 147.7 (79.4–249.6) |
| Nyandarua | 2919.6 (2094.5–3787.7) | 124.5 (81.9–181.2) | 747.4 (481.4–1046.5) | 1257.4 (864.3–1706.8) | 480.0 (301.8–698.8) | 720.6 (474.1–1077.6) | 56.7 (23.5–128.9) | 451.1 (251.3–721.1) | 21.5 (12.4–33.5) | 11.4 (6.1–18.9) | 9.9 (4.9–17.1) | 0.2 (0.1–0.5) | 66.4 (36.8–113.7) | 2.0 (0.9–4.8) | 0.3 (0.1–0.6) | 64.1 (35.3–110.5) | 3.2 (1.5–6.5) | 59.0 (42.5–78.7) | 25.1 (15.0–38.7) | 23.4 (14.6–33.3) | 24.0 (14.0–39.8) | 116.6 (72.9–182.8) |
| Nyeri | 2628.8 (1971.5–3511.9) | 115.7 (77.2–172.3) | 742.5 (485.1–1136.1) | 1015.6 (672.5–1526.5) | 443.0 (261.1–683.3) | 522.8 (310.8–849.8) | 49.8 (20.5–105.5) | 423.2 (245.8–712.0) | 22.2 (12.9–38.2) | 13.2 (6.9–22.1) | 8.8 (4.0–16.4) | 0.2 (0.1–0.4) | 54.9 (30.6–94.8) | 1.2 (0.6–2.3) | 0.3 (0.1–0.5) | 53.4 (29.0–92.8) | 2.6 (1.3–5.0) | 60.3 (41.4–80.8) | 31.5 (19.6–53.5) | 27.1 (16.8–41.4) | 19.9 (12.4–35.5) | 113.3 (69.9–169.0) |
| Samburu | 3831.8 (2883.3–4815.2) | 191.6 (131.2–272.5) | 901.0 (568.0–1293.9) | 1699.1 (1197.3–2327.6) | 575.6 (354.0–899.6) | 1051.1 (725.2–1500.7) | 72.4 (21.6–221.2) | 609.3 (365.7–895.1) | 27.0 (15.5–42.2) | 12.7 (6.4–21.1) | 14.1 (7.2–24.5) | 0.2 (0.1–0.5) | 94.2 (52.3–149.4) | 4.9 (1.8–13.0) | 0.4 (0.2–0.8) | 89.0 (49.9–142.8) | 9.2 (4.0–19.8) | 61.1 (43.5–83.8) | 23.7 (13.2–40.1) | 24.7 (14.0–37.6) | 42.5 (23.8–67.8) | 147.4 (88.6–231.1) |
| Siaya | 2589.8 (1976.1–3434.4) | 125.5 (85.3–179.0) | 762.0 (510.6–1150.8) | 896.6 (594.2–1271.7) | 358.8 (224.3–581.0) | 491.2 (309.3–767.1) | 46.5 (15.5–118.0) | 433.3 (258.6–680.8) | 21.8 (12.0–35.2) | 11.8 (6.2–20.6) | 9.9 (4.6–19.0) | 0.2 (0.1–0.4) | 75.5 (38.1–120.2) | 4.5 (1.8–9.4) | 0.3 (0.1–0.6) | 70.8 (35.9–115.3) | 6.3 (3.0–14.3) | 60.4 (43.4–79.9) | 28.7 (16.8–42.8) | 23.5 (14.1–35.6) | 32.7 (19.0–54.2) | 123.5 (74.6–188.1) |
| Taita Taveta | 2653.7 (1967.8–3546.5) | 117.7 (78.7–175.0) | 629.3 (376.8–999.0) | 1134.5 (743.1–1631.6) | 438.1 (257.4–773.6) | 648.9 (385.0–1003.2) | 47.5 (20.1–108.4) | 454.4 (251.7–722.5) | 18.3 (9.7–30.6) | 9.7 (5.1–15.7) | 8.4 (3.4–14.8) | 0.2 (0.1–0.5) | 64.3 (34.1–111.8) | 2.3 (1.1–4.6) | 0.3 (0.2–0.5) | 61.7 (32.6–107.4) | 3.3 (1.5–7.0) | 58.3 (42.7–76.7) | 18.6 (8.6–29.6) | 22.7 (13.3–35.1) | 18.0 (10.0–31.5) | 116.1 (72.2–179.9) |
| Tana River | 3237.5 (2571.2–3994.8) | 142.0 (97.2–194.7) | 789.4 (515.9–1133.8) | 1552.2 (1159.4–1992.8) | 629.1 (414.5–926.0) | 875.8 (609.7–1188.5) | 47.3 (20.9–114.7) | 434.0 (230.9–654.7) | 17.3 (10.2–28.9) | 8.1 (4.2–13.4) | 9.1 (4.8–15.4) | 0.1 (0.1–0.3) | 67.6 (39.8–96.4) | 3.9 (1.8–8.3) | 0.3 (0.2–0.4) | 63.4 (37.4–91.7) | 5.9 (2.7–11.3) | 53.6 (38.1–75.3) | 18.6 (10.8–30.9) | 18.8 (11.8–28.4) | 24.6 (14.3–38.7) | 113.5 (74.1–169.1) |
| Tharaka Nithi | 3444.0 (2741.2–4111.1) | 134.3 (91.7–193.2) | 920.6 (620.1–1249.6) | 1551.5 (1143.2–1973.3) | 585.4 (381.5–866.4) | 909.4 (625.2–1211.0) | 56.7 (25.1–133.1) | 472.4 (237.7–670.9) | 21.4 (13.1–32.6) | 10.7 (5.7–17.6) | 10.5 (5.9–17.5) | 0.2 (0.1–0.5) | 72.9 (38.9–108.9) | 2.8 (1.2–7.0) | 0.3 (0.1–0.6) | 69.8 (36.7–106.0) | 4.3 (2.3–7.9) | 60.4 (44.5–80.8) | 28.7 (16.6–44.4) | 23.6 (14.4–34.3) | 27.8 (17.4–44.0) | 126.1 (83.0–185.9) |
| Trans Nzoia | 3216.7 (2395.3–4296.4) | 127.6 (84.9–182.1) | 843.3 (545.9–1331.4) | 1357.8 (905.9–2048.5) | 558.6 (330.8–947.8) | 745.8 (451.7–1132.6) | 53.4 (21.2–124.0) | 505.6 (289.9–781.3) | 25.9 (14.9–43.2) | 13.9 (7.1–23.6) | 11.7 (5.8–21.7) | 0.2 (0.1–0.6) | 71.7 (40.6–116.1) | 2.3 (0.9–5.2) | 0.3 (0.1–0.5) | 69.1 (38.9–112.2) | 4.4 (2.1–8.7) | 62.5 (44.9–83.4) | 25.8 (15.2–41.5) | 24.9 (15.1–37.7) | 25.7 (15.1–43.9) | 141.5 (90.8–209.2) |
| Turkana | 3117.1 (2396.0–3936.6) | 163.6 (108.9–232.8) | 765.1 (465.6–1128.4) | 1296.9 (868.7–1788.6) | 488.1 (260.8–815.4) | 754.9 (488.5–1084.2) | 53.8 (17.0–148.5) | 528.3 (344.2–788.6) | 20.8 (11.3–33.5) | 10.3 (5.3–17.5) | 10.4 (4.9–18.3) | 0.1 (0.05–0.3) | 74.9 (41.2–116.8) | 4.7 (1.7–9.9) | 0.3 (0.2–0.7) | 70.0 (38.9–108.5) | 7.7 (3.4–17.2) | 58.3 (42.4–80.7) | 21.9 (12.7–38.4) | 22.2 (12.3–34.6) | 33.2 (17.8–55.3) | 124.1 (74.8–187.9) |
| Uasin Gishu | 3676.5 (2797.4–4719.7) | 111.6 (74.4–166.8) | 1026.5 (710.5–1477.9) | 1504.2 (1092.6–1989.2) | 529.0 (327.4–802.6) | 907.5 (600.9–1278.5) | 67.6 (25.9–150.4) | 576.4 (308.5–837.6) | 29.9 (16.5–46.0) | 15.4 (8.0–24.4) | 14.2 (7.1–24.0) | 0.3 (0.1–0.8) | 90.2 (46.3–147.0) | 2.8 (1.1–5.9) | 0.3 (0.2–0.6) | 87.1 (43.9–143.0) | 5.2 (2.4–9.8) | 66.7 (49.2–88.2) | 39.0 (24.0–57.1) | 28.3 (17.5–43.0) | 33.8 (20.1–54.9) | 164.7 (103.1–247.6) |
| Vihiga | 3083.2 (2472.6–3858.1) | 125.2 (81.8–181.9) | 774.0 (517.4–1128.3) | 1345.9 (977.8–1800.1) | 461.6 (292.5–787.3) | 828.8 (577.1–1169.2) | 55.5 (23.5–144.4) | 493.9 (285.3–738.1) | 20.3 (11.7–31.8) | 10.5 (5.8–16.4) | 9.7 (4.8–17.3) | 0.2 (0.1–0.4) | 67.5 (38.3–104.8) | 2.6 (1.1–5.6) | 0.3 (0.1–0.6) | 64.6 (36.2–101.7) | 3.8 (1.9–7.0) | 61.8 (45.4–81.3) | 23.1 (14.1–36.0) | 25.0 (15.5–39.1) | 22.7 (14.2–36.0) | 120.1 (76.7–184.4) |
| Wajir | 3365.4 (2558.0–4281.4) | 168.8 (116.2–231.1) | 585.8 (392.4–828.7) | 1828.9 (1255.3–2419.9) | 563.9 (344.3–967.4) | 1220.6 (767.5–1683.5) | 44.4 (17.9–122.0) | 475.1 (254.8–745.6) | 14.8 (8.7–24.5) | 6.1 (3.0–10.0) | 8.7 (4.6–14.1) | 0.1 (0.04–0.2) | 67.1 (39.5–105.5) | 6.0 (2.5–13.5) | 0.4 (0.2–0.6) | 60.8 (34.7–100.2) | 7.3 (3.3–14.8) | 52.6 (37.3–73.2) | 10.4 (5.0–24.5) | 16.2 (9.5–25.0) | 27.5 (16.6–45.2) | 110.8 (73.1–166.0) |
| West Pokot | 2730.6 (2172.0–3372.3) | 151.5 (101.5–217.0) | 547.6 (355.7–772.6) | 1277.1 (919.1–1668.0) | 449.7 (270.2–683.6) | 781.4 (536.2–1090.0) | 46.0 (18.3–124.5) | 452.8 (268.9–650.6) | 16.7 (9.7–26.0) | 8.3 (4.4–14.2) | 8.3 (4.3–13.6) | 0.1 (0.05–0.3) | 58.7 (35.2–85.4) | 2.5 (1.1–6.0) | 0.3 (0.2–0.5) | 55.8 (33.3–81.9) | 4.0 (1.9–8.1) | 55.5 (39.7–76.1) | 14.1 (7.5–27.3) | 19.5 (11.1–29.2) | 25.0 (14.9–39.5) | 108.0 (69.7–157.7) |
| Madagascar | 7505.8 (6160.2–8960.7) | 226.1 (153.1–337.5) | 1564.0 (982.8–2195.6) | 3569.5 (2667.8–4622.2) | 1410.5 (797.8–2059.1) | 2035.0 (1368.0–2916.3) | 124.0 (35.2–324.0) | 1336.9 (813.0–1901.8) | 51.8 (29.5–85.2) | 25.8 (13.1–41.9) | 25.7 (13.8–45.1) | 0.3 (0.1–0.8) | 170.0 (97.5–263.7) | 9.0 (3.8–20.1) | 0.4 (0.2–1.1) | 160.6 (91.8–247.9) | 14.1 (6.6–26.9) | 92.5 (64.2–119.8) | 63.7 (37.9–98.3) | 42.2 (24.3–64.3) | 81.3 (47.9–127.9) | 293.8 (183.0–427.5) |
| Malawi | 5766.8 (4829.2–6842.4) | 168.7 (110.6–248.3) | 1694.4 (1153.9–2304.8) | 2485.5 (1867.5–3121.8) | 913.7 (591.4–1440.4) | 1471.1 (1037.4–2107.8) | 100.7 (27.3–287.9) | 841.9 (492.2–1257.3) | 35.3 (21.2–54.5) | 17.3 (8.8–28.1) | 17.7 (9.6–28.4) | 0.2 (0.1–0.6) | 130.8 (75.0–200.9) | 7.5 (3.0–16.7) | 0.3 (0.1–0.8) | 123.0 (70.1–189.2) | 9.9 (4.6–18.5) | 73.2 (52.8–95.0) | 45.4 (28.1–68.6) | 34.2 (20.2–50.5) | 43.8 (25.8–70.1) | 203.6 (119.8–309.0) |
| Mozambique | 4560.5 (3840.7–5334.7) | 147.5 (97.1–207.9) | 1228.1 (922.4–1582.1) | 2133.4 (1722.4–2579.9) | 955.9 (548.3–1331.1) | 1107.9 (732.7–1646.6) | 69.6 (24.2–168.2) | 608.4 (339.0–978.4) | 21.9 (14.1–33.2) | 11.2 (5.8–17.9) | 10.6 (5.9–18.1) | 0.1 (0.05–0.3) | 72.9 (44.0–106.4) | 6.2 (2.7–12.8) | 0.3 (0.1–0.5) | 66.4 (40.6–98.3) | 8.2 (4.0–15.2) | 56.6 (41.2–75.5) | 29.6 (15.5–45.8) | 23.6 (13.8–35.3) | 31.4 (17.9–53.0) | 198.9 (138.6–277.0) |
| Rwanda | 5976.9 (4841.4–7344.0) | 165.4 (117.3–228.5) | 1551.2 (1074.4–2242.7) | 2651.8 (1884.4–3524.3) | 905.6 (483.0–1359.8) | 1636.3 (1189.1–2285.3) | 109.9 (33.8–288.0) | 912.6 (548.3–1391.6) | 48.4 (30.0–76.1) | 25.1 (14.3–38.8) | 22.9 (11.7–39.9) | 0.4 (0.1–0.9) | 164.6 (92.6–251.2) | 8.5 (3.3–17.0) | 0.4 (0.2–1.1) | 155.7 (87.4–243.6) | 12.4 (5.9–24.4) | 77.8 (57.0–103.4) | 48.6 (28.2–72.9) | 43.3 (25.8–67.6) | 54.2 (33.3–88.2) | 246.7 (149.2–377.7) |
| Somalia | 3154.0 (2416.5–3919.8) | 178.4 (116.9–266.9) | 665.5 (405.9–970.4) | 1528.8 (1087.3–1947.4) | 569.9 (316.2–887.1) | 903.6 (610.4–1252.1) | 55.3 (17.5–173.5) | 444.4 (240.0–682.9) | 15.0 (8.0–24.1) | 6.4 (3.2–11.1) | 8.5 (4.4–14.3) | 0.1 (0.02–0.2) | 78.6 (44.0–119.2) | 9.2 (3.9–20.6) | 0.3 (0.1–0.6) | 69.1 (37.9–107.1) | 9.3 (4.1–17.7) | 45.6 (31.2–64.7) | 13.4 (7.2–26.8) | 15.6 (8.4–24.9) | 32.5 (18.4–53.1) | 126.9 (74.2–210.3) |
| South Sudan | 7944.3 (6315.7–9486.6) | 280.9 (189.2–400.8) | 2054.0 (1281.1–2921.2) | 3711.8 (2848.3–4656.1) | 1328.0 (849.3–2059.5) | 2258.1 (1556.8–3084.1) | 125.8 (36.4–337.7) | 1073.8 (644.0–1642.0) | 46.4 (26.0–75.1) | 20.5 (10.6–34.4) | 25.6 (14.1–40.4) | 0.3 (0.1–0.7) | 208.7 (120.8–322.6) | 18.2 (7.5–39.4) | 0.4 (0.2–1.3) | 190.1 (106.8–301.1) | 20.9 (9.8–40.9) | 75.7 (56.3–98.8) | 51.4 (29.4–90.6) | 34.9 (20.1–59.5) | 108.5 (63.9–170.4) | 277.2 (159.7–443.1) |
| Uganda | 4518.2 (3595.2–5555.0) | 147.6 (101.1–214.8) | 1264.0 (819.6–1843.2) | 1893.9 (1373.3–2580.4) | 744.2 (453.6–1106.4) | 1071.4 (743.2–1614.8) | 78.3 (24.4–197.2) | 650.0 (351.5–1039.8) | 36.4 (21.6–56.7) | 18.6 (9.6–29.3) | 17.6 (8.7–29.2) | 0.3 (0.1–0.7) | 113.2 (63.8–178.2) | 5.9 (2.4–11.3) | 0.3 (0.2–0.8) | 107.0 (59.8–169.6) | 9.9 (4.6–19.9) | 71.0 (50.2–94.7) | 43.9 (26.6–65.9) | 32.7 (20.7–49.3) | 46.8 (28.9–73.2) | 208.7 (123.7–340.4) |
| United Republic of Tanzania | 5035.0 (4263.4–5945.0) | 154.3 (108.5–214.5) | 1333.3 (943.3–1815.8) | 2169.1 (1675.9–2802.7) | 962.4 (623.8–1525.6) | 1127.1 (730.0–1625.2) | 79.6 (28.1–169.9) | 754.1 (454.5–1098.6) | 37.8 (22.9–57.1) | 20.3 (10.7–30.6) | 17.2 (8.9–30.2) | 0.3 (0.1–0.6) | 118.4 (62.3–176.8) | 5.1 (2.3–10.8) | 0.3 (0.2–0.7) | 113.0 (59.4–169.7) | 8.2 (4.3–14.7) | 77.0 (56.2–98.0) | 76.9 (38.4–125.6) | 38.2 (25.1–54.4) | 43.7 (27.9–69.4) | 224.0 (143.8–333.9) |
| Zambia | 7740.5 (6501.2–9160.9) | 161.7 (107.8–225.3) | 2125.4 (1454.8–2945.7) | 3507.7 (2723.0–4323.7) | 1345.6 (905.2–1881.2) | 2038.0 (1523.0–2811.5) | 124.1 (47.0–282.7) | 1207.7 (654.1–2089.3) | 49.3 (29.2–76.7) | 25.9 (14.0–41.1) | 23.0 (12.8–39.4) | 0.4 (0.2–1.0) | 155.7 (75.8–247.0) | 6.4 (2.7–13.0) | 0.3 (0.2–0.9) | 149.0 (70.9–240.6) | 9.0 (4.5–17.2) | 88.1 (66.2–115.2) | 66.9 (41.7–97.7) | 47.8 (30.6–69.0) | 54.0 (32.5–84.0) | 267.1 (165.2–399.0) |
| Southern Sub-Saharan Africa | 4622.4 (4184.7–5204.5) | 133.3 (95.0–176.2) | 1348.9 (1180.9–1557.2) | 1745.7 (1517.0–2020.0) | 705.9 (584.2–854.0) | 966.7 (795.3–1163.5) | 73.0 (51.3–97.8) | 732.1 (561.7–925.6) | 29.2 (20.1–40.6) | 17.9 (11.1–25.6) | 10.9 (6.4–18.8) | 0.4 (0.2–0.9) | 257.1 (179.5–336.5) | 7.7 (3.9–12.5) | 0.2 (0.1–0.6) | 249.1 (173.4–327.4) | 3.7 (2.4–5.6) | 79.6 (62.1–103.2) | 38.1 (29.3–47.9) | 40.5 (31.3–51.8) | 31.3 (23.2–42.9) | 183.0 (133.8–237.3) |
| Botswana | 3475.5 (2812.4–4257.4) | 117.6 (78.7–163.4) | 1080.1 (798.9–1424.4) | 1221.4 (872.0–1609.6) | 573.9 (392.8–779.0) | 607.9 (408.2–833.5) | 39.5 (21.9–73.3) | 557.3 (361.9–817.9) | 21.1 (12.5–31.6) | 13.4 (7.4–20.7) | 7.4 (3.9–12.9) | 0.3 (0.1–0.7) | 162.6 (99.7–246.0) | 3.5 (1.5–6.9) | 0.2 (0.1–0.4) | 159.0 (97.7–241.6) | 2.6 (1.5–4.3) | 66.6 (48.1–91.0) | 30.1 (19.3–46.6) | 33.4 (22.1–48.5) | 25.0 (15.2–40.5) | 157.8 (108.9–211.3) |
| Eswatini | 4699.5 (3673.8–5898.9) | 155.3 (101.3–228.8) | 1207.3 (855.0–1646.1) | 2003.0 (1431.5–2621.8) | 756.6 (547.1–1037.2) | 1188.6 (801.8–1640.6) | 57.7 (29.8–109.4) | 691.4 (439.6–1013.5) | 27.4 (15.6–42.5) | 13.7 (7.5–21.9) | 13.2 (7.2–23.7) | 0.5 (0.2–1.1) | 231.2 (149.7–330.4) | 8.2 (3.5–17.0) | 0.2 (0.1–0.8) | 222.8 (144.6–318.5) | 4.9 (2.5–8.4) | 68.7 (51.0–91.6) | 30.5 (20.0–43.9) | 28.7 (18.8–41.9) | 45.8 (26.8–72.7) | 205.4 (134.7–315.4) |
| Lesotho | 6049.3 (5001.4–7415.2) | 172.1 (109.4–286.3) | 1301.6 (885.6–1758.9) | 2980.3 (2246.0–3842.0) | 1098.8 (682.1–1593.7) | 1799.9 (1295.6–2562.8) | 81.6 (35.5–180.8) | 1098.8 (569.1–1495.2) | 25.8 (14.7–39.3) | 13.6 (7.6–22.1) | 11.8 (6.1–20.4) | 0.3 (0.1–0.7) | 265.6 (148.6–434.3) | 6.9 (2.9–15.2) | 0.3 (0.1–0.8) | 258.4 (144.1–418.8) | 4.3 (2.3–7.5) | 71.2 (49.5–93.1) | 25.7 (15.4–41.3) | 36.4 (22.3–52.9) | 36.0 (20.6–56.7) | 186.9 (119.7–268.2) |
| Namibia | 4479.5 (3653.6–5389.8) | 141.9 (91.9–203.2) | 1327.6 (958.4–1764.1) | 1706.8 (1235.9–2204.0) | 683.2 (509.0–904.2) | 966.1 (681.1–1304.5) | 57.5 (30.5–108.1) | 649.7 (413.7–911.1) | 30.6 (17.7–47.5) | 17.1 (10.0–26.8) | 13.0 (6.9–23.3) | 0.2 (0.2–1.2) | 233.8 (145.3–337.9) | 7.7 (3.4–14.9) | 0.2 (0.1–0.6) | 225.9 (137.3–328.4) | 4.9 (2.8–8.8) | 67.7 (49.4–89.3) | 37.3 (24.3–53.3) | 31.6 (20.7–45.5) | 44.6 (27.2–67.9) | 203.1 (141.7–278.7) |
| South Africa | 4573.5 (4129.0–5064.6) | 117.3 (85.2–157.2) | 1385.3 (1213.3–1576.1) | 1664.3 (1419.5–1927.7) | 701.9 (563.5–863.8) | 912.8 (755.1–1088.9) | 49.5 (35.0–67.8) | 749.2 (593.2–938.3) | 29.8 (20.9–41.4) | 18.7 (11.7–26.7) | 10.6 (6.2–19.1) | 0.4 (0.2–0.9) | 249.9 (177.1–335.1) | 4.2 (2.3–7.2) | 0.1 (0.1–0.3) | 245.5 (173.9–329.8) | 2.9 (2.0–4.1) | 83.2 (65.3–107.8) | 42.9 (33.2–54.2) | 46.7 (36.3–59.8) | 32.5 (23.8–43.5) | 169.4 (127.5–220.0) |
| Eastern Cape | 4897.1 (4408.5–5518.8) | 125.1 (90.9–163.6) | 1298.1 (1101.0–1524.6) | 1928.0 (1603.9–2281.3) | 802.8 (625.2–1024.7) | 1070.8 (855.9–1351.9) | 54.4 (37.3–76.0) | 812.7 (627.2–1043.7) | 29.3 (19.1–42.5) | 17.5 (11.1–26.5) | 11.4 (6.1–20.4) | 0.5 (0.2–1.0) | 333.9 (229.1–461.7) | 4.8 (2.0–10.5) | 0.1 (0.04–0.3) | 329.0 (226.0–458.2) | 4.0 (2.2–6.6) | 83.2 (65.4–107.9) | 36.5 (25.7–50.1) | 42.7 (31.5–56.8) | 33.7 (22.6–48.3) | 169.7 (127.9–217.9) |
| Free State | 6093.8 (5467.1–6837.1) | 121.6 (85.9–160.6) | 1738.6 (1491.2–2022.7) | 2307.7 (1925.2–2692.7) | 894.9 (721.7–1110.4) | 1347.7 (1088.3–1641.4) | 65.1 (45.7–91.1) | 1120.6 (728.4–1468.1) | 38.3 (26.6–52.9) | 22.1 (14.2–31.3) | 15.4 (8.9–23.6) | 0.7 (0.3–1.3) | 310.1 (222.1–410.2) | 4.6 (2.6–8.6) | 0.2 (0.1–0.3) | 305.3 (219.1–405.0) | 3.1 (2.1–4.3) | 91.2 (71.6–118.1) | 65.0 (47.8–82.4) | 41.6 (31.9–54.9) | 41.6 (29.2–58.2) | 214.4 (155.9–282.7) |
| Gauteng | 3996.8 (3552.4–4487.7) | 115.5 (82.2–151.5) | 1287.3 (1110.5–1504.4) | 1286.2 (1037.9–1506.3) | 530.7 (420.1–659.5) | 710.1 (561.7–858.2) | 45.4 (31.8–62.8) | 630.2 (489.7–808.6) | 31.0 (20.2–43.1) | 21.7 (12.7–31.2) | 9.0 (5.8–15.1) | 0.3 (0.1–0.7) | 239.9 (168.1–322.8) | 3.3 (1.9–5.6) | 0.1 (0.04–0.2) | 236.5 (164.8–318.1) | 2.7 (1.8–3.8) | 78.2 (60.5–102.1) | 51.5 (40.1–65.3) | 51.8 (42.0–65.7) | 27.4 (20.4–36.7) | 195.0 (143.2–251.0) |
| KwaZulu-Natal | 4325.1 (3764.5–4953.7) | 110.5 (81.0–147.7) | 1338.3 (1098.6–1640.1) | 1612.9 (1286.0–2028.0) | 728.4 (564.8–924.6) | 836.3 (624.3–1099.8) | 48.3 (31.3–70.0) | 682.6 (523.0–896.9) | 25.7 (16.7–40.0) | 16.5 (10.3–24.2) | 8.8 (4.3–18.0) | 0.4 (0.1–1.0) | 208.0 (140.5–294.3) | 3.6 (1.7–6.2) | 0.1 (0.05–0.2) | 204.3 (138.5–288.2) | 2.3 (1.3–3.7) | 80.3 (61.7–104.4) | 30.3 (20.3–48.3) | 43.0 (31.9–54.7) | 32.4 (22.2–45.1) | 158.9 (117.9–205.3) |
| Limpopo | 4630.3 (4070.3–5176.2) | 121.2 (84.8–165.2) | 997.2 (838.4–1161.1) | 1881.6 (1569.8–2286.2) | 823.3 (647.3–1069.5) | 1009.0 (810.9–1259.8) | 49.3 (33.8–69.1) | 958.5 (692.2–1213.0) | 23.6 (13.5–39.5) | 11.2 (6.4–20.4) | 12.0 (6.5–22.2) | 0.4 (0.1–1.0) | 279.8 (194.7–377.0) | 5.5 (2.8–9.7) | 0.2 (0.1–0.4) | 274.2 (191.5–373.0) | 2.5 (1.3–4.2) | 87.0 (68.4–112.4) | 26.3 (18.1–39.0) | 43.3 (31.6–59.7) | 33.5 (22.0–47.1) | 175.8 (131.7–225.7) |
| Mpumalanga | 4233.7 (3587.1–4960.9) | 105.6 (75.1–144.7) | 1197.4 (950.8–1463.9) | 1560.3 (1226.6–1879.1) | 701.1 (550.1–870.8) | 817.4 (624.0–1035.6) | 41.7 (28.5–56.1) | 812.5 (587.9–1046.2) | 20.3 (12.3–36.3) | 10.2 (6.3–18.6) | 9.6 (5.2–18.0) | 0.5 (0.2–1.1) | 225.6 (154.2–312.1) | 4.2 (2.4–7.0) | 0.1 (0.05–0.2) | 221.4 (151.5–306.4) | 2.6 (1.6–3.8) | 77.7 (60.7–101.6) | 27.9 (19.2–39.7) | 33.0 (24.0–44.5) | 27.6 (19.1–39.4) | 143.2 (101.7–189.5) |
| North-West | 5303.7 (4225.4–6128.6) | 132.8 (92.4–181.8) | 1358.4 (1089.7–1660.6) | 2108.0 (1634.3–2653.9) | 820.9 (581.2–1163.4) | 1238.1 (892.9–1624.5) | 49.0 (31.7–77.9) | 1012.0 (607.6–1440.8) | 27.0 (17.5–39.7) | 13.6 (8.1–22.0) | 12.9 (7.1–20.8) | 0.5 (0.2–1.0) | 321.5 (200.6–447.2) | 7.7 (2.9–14.0) | 0.3 (0.1–0.7) | 313.4 (196.8–439.2) | 2.4 (1.4–3.8) | 79.8 (58.9–106.7) | 42.8 (29.3–57.8) | 34.8 (25.1–47.2) | 38.5 (23.4–56.7) | 145.7 (105.6–192.2) |
| Northern Cape | 6634.7 (5819.9–7586.7) | 129.7 (97.4–173.9) | 2243.4 (1813.0–2759.9) | 2394.4 (1963.6–2890.0) | 933.3 (749.9–1162.1) | 1394.7 (1085.6–1733.3) | 66.3 (45.9–93.9) | 1065.6 (743.8–1417.5) | 39.3 (25.5–58.0) | 23.6 (15.3–32.7) | 15.0 (7.9–29.8) | 0.7 (0.3–1.4) | 259.2 (168.4–384.0) | 4.8 (2.5–7.9) | 0.2 (0.1–0.4) | 254.2 (163.3–378.3) | 4.8 (2.4–7.8) | 96.4 (75.9–122.8) | 72.5 (50.1–94.6) | 71.4 (54.7–93.6) | 40.8 (27.8–58.3) | 217.2 (157.6–291.9) |
| Western Cape | 4597.2 (4109.0–5069.9) | 119.8 (82.2–161.8) | 1907.4 (1652.9–2160.6) | 1444.6 (1198.5–1735.4) | 568.7 (468.9–693.5) | 823.1 (663.5–1017.9) | 52.8 (38.0–71.7) | 495.3 (328.8–839.2) | 42.9 (27.8–58.4) | 30.6 (16.7–44.5) | 11.9 (6.9–21.4) | 0.5 (0.2–1.2) | 183.2 (125.0–291.5) | 3.7 (1.9–6.1) | 0.2 (0.1–0.3) | 179.3 (122.4–287.9) | 3.5 (2.1–5.2) | 92.2 (72.7–122.5) | 63.0 (49.7–87.9) | 63.1 (48.9–80.3) | 37.6 (26.3–52.6) | 144.6 (101.3–198.9) |
| Zimbabwe | 4836.2 (3996.8–5908.9) | 195.8 (132.8–293.5) | 1206.5 (870.3–1615.1) | 2097.3 (1595.3–2695.1) | 701.9 (536.7–942.1) | 1187.3 (842.3–1569.5) | 208.1 (133.8–307.0) | 660.1 (413.6–1062.5) | 26.9 (17.2–41.5) | 15.0 (8.1–24.3) | 11.6 (6.1–19.1) | 0.3 (0.1–0.7) | 287.8 (185.4–409.4) | 8.6 (4.8–16.1) | 0.8 (0.2–2.1) | 266.8 (161.0–379.5) | 6.3 (3.2–11.6) | 67.0 (50.7–88.6) | 13.5 (8.8–20.4) | 7.2

**Age-standardised DALY rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8131.0 | 206.4 | 2476.4 | 3471.6 | 1430.4 | 1897.4 | 143.8 | 755.3 | 55.3 | 31.7 | 23.2 | 0.4 | 364.5 | 14.1 | 7.7 | 342.8 | 18.4 | 93.3 | 99.0 | 54.3 | 72.7 | 463.7 |
| Liberia | (6598.9–9779.7) | (122.6–325.6) | (1654.5–3307.9) | (2494.7–4736.4) | (748.0–2264.0) | (1211.2–3031.9) | (25.4–382.5) | (411.8–1152.7) | (30.7–92.9) | (15.9–54.7) | (11.2–40.4) | (0.1–0.9) | (180.3–596.8) | (5.5–27.4) | (1.7–27.2) | (171.8–549.1) | (9.0–34.4) | (64.1–125.6) | (52.9–172.7) | (32.6–81.5) | (40.2–122.1) | (265.3–693.5) |
| | 6046.8 | 209.3 | 1715.0 | 2722.4 | 1065.7 | 1568.9 | 87.8 | 527.5 | 38.7 | 21.3 | 17.1 | 0.3 | 263.3 | 12.8 | 6.2 | 244.3 | 17.4 | 71.7 | 54.1 | 35.7 | 53.8 | 337.9 |
| Mali | (4966.3–6886.7) | (141.4–294.4) | (1170.3–2338.3) | (2087.1–3429.5) | (692.8–1596.1) | (1082.4–2128.7) | (30.3–240.5) | (307.9–840.7) | (23.5–62.1) | (11.6–35.5) | (9.1–28.9) | (0.1–0.6) | (135.5–450.4) | (4.8–25.4) | (1.4–23.1) | (124.4–423.8) | (8.0–34.5) | (53.6–94.1) | (29.0–87.3) | (20.3–55.1) | (31.9–82.4) | (216.7–477.3) |
| | 6881.3 | 145.1 | 2514.5 | 2527.9 | 1105.5 | 1321.7 | 100.6 | 707.8 | 51.9 | 32.1 | 19.4 | 0.5 | 258.5 | 5.9 | 5.3 | 247.3 | 10.4 | 97.7 | 98.3 | 46.6 | 51.1 | 371.5 |
| Mauritania | (5556.1–8159.8) | (97.9–199.6) | (1709.2–3494.8) | (1828.4–3326.0) | (731.1–1581.5) | (896.8–1965.4) | (33.2–225.4) | (396.3–1250.9) | (29.2–84.7) | (17.3–52.9) | (9.7–35.1) | (0.2–1.1) | (149.7–406.2) | (2.7–11.6) | (1.3–16.2) | (142.0–396.6) | (5.3–19.3) | (70.4–129.7) | (41.6–187.5) | (27.0–70.3) | (29.6–85.1) | (245.0–506.4) |
| | 7166.5 | 273.2 | 1968.3 | 3339.4 | 1424.1 | 1819.7 | 95.6 | 578.6 | 42.2 | 23.5 | 18.5 | 0.2 | 316.1 | 21.4 | 6.5 | 288.2 | 28.5 | 83.3 | 46.9 | 40.4 | 69.9 | 379.8 |
| Niger | (5620.0–8724.2) | (168.2–431.3) | (1177.8–2951.7) | (2475.6–4406.7) | (811.1–2129.9) | (1179.3–2772.9) | (28.9–311.6) | (336.0–941.8) | (24.6–66.4) | (11.9–37.7) | (9.4–32.3) | (0.1–0.6) | (146.7–625.3) | (7.0–46.3) | (1.2–27.4) | (138.6–543.0) | (12.8–57.2) | (60.1–112.6) | (25.0–90.4) | (21.1–64.6) | (37.9–116.5) | (236.2–588.0) |
| | 6039.6 | 145.5 | 2215.4 | 2243.8 | 1073.7 | 1103.2 | 67.0 | 526.0 | 46.9 | 28.3 | 18.2 | 0.5 | 223.2 | 5.7 | 3.1 | 214.4 | 9.9 | 92.3 | 93.8 | 51.8 | 54.2 | 336.9 |
| Nigeria | (4735.8–7502.9) | (95.5–202.8) | (1573.1–2975.0) | (1656.1–3059.5) | (734.9–1570.9) | (744.4–1637.1) | (26.9–149.2) | (319.9–807.9) | (26.6–77.3) | (14.2–49.6) | (8.8–32.0) | (0.2–1.2) | (142.0–341.7) | (2.4–10.8) | (0.9–10.2) | (137.2–331.4) | (5.0–18.6) | (68.1–124.1) | (46.9–167.9) | (31.4–75.4) | (31.0–96.9) | (222.8–462.4) |
| | 7013.3 | 124.5 | 2717.2 | 2386.9 | 1151.0 | 1157.1 | 78.8 | 714.4 | 61.9 | 38.8 | 22.4 | 0.7 | 231.5 | 3.9 | 2.7 | 224.8 | 7.2 | 122.0 | 137.1 | 70.0 | 54.4 | 386.4 |
| Abia | (5454.3–8716.9) | (80.7–176.8) | (1898.8–3854.5) | (1695.3–3277.0) | (755.4–1748.1) | (765.2–1805.4) | (28.6–164.2) | (407.8–1109.7) | (33.7–104.0) | (19.1–66.2) | (10.1–39.4) | (0.2–1.8) | (141.9–363.1) | (1.6–8.0) | (0.8–8.4) | (136.9–355.0) | (3.7–13.1) | (86.9–166.1) | (66.0–251.5) | (41.8–105.0) | (28.0–101.3) | (247.8–547.8) |
| | 7611.1 | 171.8 | 2791.4 | 3059.0 | 1455.9 | 1526.8 | 76.3 | 577.7 | 50.9 | 29.3 | 21.1 | 0.4 | 282.1 | 7.3 | 4.2 | 270.6 | 12.0 | 93.0 | 92.5 | 52.8 | 66.6 | 361.3 |
| Adamawa | (5842.9–9606.7) | (114.7–240.4) | (1869.2–3812.7) | (2267.5–4032.0) | (951.5–2205.9) | (1034.7–2261.9) | (32.2–184.4) | (322.3–894.8) | (28.3–86.1) | (14.7–50.4) | (10.2–36.5) | (0.2–1.0) | (164.0–433.3) | (3.0–13.8) | (2.1–15.2) | (158.2–418.6) | (5.9–23.1) | (67.1–125.2) | (46.3–160.4) | (33.5–80.5) | (38.6–119.0) | (234.3–510.5) |
| | 6018.9 | 129.5 | 2238.8 | 2086.3 | 976.2 | 1035.5 | 74.7 | 594.6 | 53.8 | 32.7 | 20.4 | 0.6 | 218.0 | 4.2 | 2.1 | 211.7 | 7.8 | 104.1 | 103.7 | 57.0 | 53.9 | 371.4 |
| Akwa Ibom | (4429.7–7710.7) | (80.7–186.7) | (1520.5–3159.1) | (1444.6–2933.5) | (594.8–1532.2) | (657.6–1619.2) | (25.2–164.0) | (357.4–900.4) | (29.2–88.9) | (15.8–57.7) | (9.6–36.3) | (0.2–1.6) | (133.8–347.7) | (1.6–8.7) | (0.6–6.5) | (131.0–337.8) | (3.7–14.7) | (71.3–139.3) | (50.4–184.0) | (34.3–84.1) | (30.1–98.3) | (235.9–537.9) |
| | 5338.4 | 118.0 | 1963.7 | 1804.0 | 867.2 | 869.3 | 67.6 | 530.6 | 47.8 | 29.5 | 17.7 | 0.6 | 210.1 | 5.2 | 1.9 | 203.0 | 7.9 | 96.3 | 101.7 | 55.2 | 48.3 | 354.9 |
| Anambra | (4054.6–6887.4) | (77.0–168.3) | (1338.8–2765.7) | (1284.7–2635.6) | (574.5–1351.6) | (548.3–1383.2) | (26.7–136.2) | (301.4–833.0) | (26.2–84.6) | (14.7–52.4) | (8.1–32.8) | (0.2–1.6) | (121.7–333.4) | (2.0–10.6) | (0.6–5.4) | (116.7–324.5) | (3.8–14.5) | (70.0–129.5) | (47.5–182.2) | (33.3–81.6) | (24.6–90.5) | (221.1–499.0) |
| | 6436.2 | 184.0 | 2207.4 | 2783.0 | 1384.4 | 1343.7 | 54.9 | 453.1 | 37.5 | 21.3 | 16.0 | 0.2 | 232.8 | 9.4 | 4.1 | 219.3 | 15.1 | 79.6 | 54.4 | 40.0 | 59.3 | 290.2 |
| Bauchi | (5002.7–8221.2) | (118.9–272.5) | (1409.1–3128.9) | (2118.4–3633.5) | (935.6–2164.7) | (857.1–1996.2) | (25.1–137.2) | (272.2–696.7) | (20.6–60.9) | (11.0–37.4) | (7.8–28.0) | (0.1–0.6) | (130.8–414.2) | (3.7–20.1) | (1.0–13.7) | (122.6–386.1) | (6.6–29.2) | (59.3–105.7) | (25.8–93.5) | (23.5–62.3) | (33.4–106.3) | (187.1–404.4) |
| | 5612.9 | 127.4 | 2026.0 | 2017.5 | 954.7 | 993.6 | 69.2 | 546.5 | 47.7 | 29.0 | 18.2 | 0.5 | 206.4 | 4.1 | 2.6 | 199.8 | 7.4 | 99.2 | 97.3 | 53.5 | 54.1 | 329.8 |
| Bayelsa | (4336.7–7188.2) | (83.1–180.5) | (1432.5–2860.3) | (1457.9–2866.3) | (648.2–1508.6) | (665.4–1569.6) | (25.9–147.2) | (315.0–801.7) | (26.4–82.7) | (14.6–51.7) | (8.5–32.2) | (0.2–1.3) | (128.8–326.6) | (1.8–7.9) | (0.8–7.4) | (125.3–318.8) | (3.7–13.3) | (72.4–133.8) | (48.8–178.0) | (32.8–76.9) | (28.5–99.1) | (217.5–447.1) |
| | 7470.9 | 160.5 | 2726.9 | 2920.1 | 1372.9 | 1468.2 | 79.0 | 646.6 | 54.0 | 32.2 | 21.4 | 0.5 | 254.9 | 6.3 | 3.5 | 245.1 | 10.4 | 104.5 | 100.2 | 60.0 | 64.7 | 368.1 |
| Benue | (5585.1–9561.1) | (102.5–240.5) | (1872.9–3860.4) | (2104.2–4168.9) | (929.5–2149.8) | (934.4–2201.8) | (30.9–182.1) | (364.7–1043.8) | (29.4–94.3) | (16.0–56.6) | (9.9–38.2) | (0.2–1.1) | (151.1–392.7) | (2.6–12.0) | (0.9–12.2) | (146.0–380.7) | (5.0–19.6) | (75.5–140.0) | (48.9–177.9) | (36.6–89.0) | (35.1–113.8) | (234.6–511.8) |
| | 4305.8 | 143.2 | 1401.1 | 1744.0 | 836.0 | 861.9 | 46.1 | 352.0 | 32.5 | 18.8 | 13.3 | 0.3 | 173.4 | 4.7 | 2.4 | 166.3 | 9.0 | 73.0 | 37.4 | 33.0 | 43.3 | 264.0 |
| Borno | (3143.9–5672.0) | (95.0–202.0) | (857.0–2037.8) | (1195.7–2478.6) | (511.3–1341.2) | (549.4–1395.8) | (20.5–106.7) | (216.3–536.4) | (17.3–56.5) | (8.7–32.7) | (6.1–23.6) | (0.1–0.7) | (100.3–280.7) | (1.9–9.6) | (0.7–8.5) | (96.1–268.6) | (4.1–17.1) | (52.3–99.4) | (19.7–62.3) | (19.0–50.2) | (24.3–80.6) | (171.5–383.8) |
| | 7058.7 | 165.3 | 2520.8 | 2451.8 | 1051.2 | 1303.9 | 96.6 | 752.5 | 64.4 | 36.3 | 27.3 | 0.8 | 289.7 | 5.9 | 2.8 | 281.0 | 11.4 | 105.2 | 112.0 | 56.6 | 83.7 | 445.5 |
| Cross River | (5316.2–9152.1) | (99.1–258.1) | (1699.6–3722.9) | (1683.3–3467.7) | (642.3–1720.7) | (839.5–2083.3) | (30.6–219.3) | (451.4–1180.4) | (35.0–109.6) | (16.8–65.4) | (12.5–47.9) | (0.2–2.3) | (169.4–446.0) | (2.4–12.2) | (0.9–8.7) | (165.7–437.6) | (5.1–22.3) | (73.3–142.6) | (57.5–201.2) | (33.4–84.0) | (44.3–147.8) | (272.7–675.2) |
| | 5608.2 | 117.0 | 2111.7 | 1968.5 | 965.4 | 937.6 | 65.5 | 507.7 | 48.8 | 30.4 | 17.9 | 0.5 | 204.8 | 4.1 | 2.5 | 198.2 | 7.0 | 100.3 | 110.1 | 57.8 | 46.2 | 328.2 |
| Delta | (4420.0–7148.8) | (80.4–162.3) | (1522.0–2952.5) | (1472.8–2804.7) | (676.0–1498.8) | (635.7–1417.9) | (26.1–134.1) | (307.6–773.2) | (27.5–83.9) | (14.9–52.5) | (8.2–32.0) | (0.2–1.4) | (124.5–329.6) | (1.7–7.9) | (0.8–7.4) | (117.5–320.5) | (3.6–13.4) | (75.2–134.8) | (52.3–204.0) | (34.8–85.1) | (25.2–82.7) | (216.7–447.3) |
| | 8394.3 | 177.2 | 2936.0 | 3221.7 | 1397.3 | 1719.4 | 105.0 | 753.5 | 64.8 | 37.7 | 26.5 | 0.6 | 364.0 | 11.0 | 4.9 | 348.1 | 15.5 | 106.7 | 126.8 | 63.0 | 89.7 | 475.4 |
| Ebonyi | (6592.6–10710.3) | (118.7–250.3) | (1999.0–4037.8) | (2305.8–4512.7) | (905.5–2146.7) | (1149.1–2600.2) | (38.0–240.3) | (420.3–1190.0) | (36.2–117.0) | (19.0–68.8) | (12.8–44.9) | (0.2–1.6) | (231.4–571.6) | (4.5–21.3) | (1.2–14.2) | (223.2–551.3) | (7.7–30.7) | (77.7–142.0) | (66.3–223.7) | (37.7–94.5) | (49.8–157.0) | (308.7–671.4) |
| | 5789.7 | 119.6 | 2238.8 | 1940.1 | 948.9 | 920.4 | 70.7 | 545.5 | 52.7 | 33.1 | 19.0 | 0.6 | 211.8 | 3.6 | 2.9 | 205.3 | 6.9 | 103.8 | 120.8 | 62.6 | 47.7 | 339.5 |
| Edo | (4472.1–7464.8) | (78.8–169.9) | (1589.6–2973.1) | (1362.8–2814.6) | (601.8–1512.8) | (606.7–1541.2) | (25.2–146.8) | (329.7–807.7) | (30.6–90.8) | (17.0–57.3) | (8.7–35.2) | (0.2–1.5) | (127.2–327.4) | (1.5–7.2) | (0.8–9.1) | (124.1–315.8) | (3.4–12.6) | (75.2–137.5) | (55.0–231.3) | (37.5–93.7) | (25.8–89.4) | (214.0–473.6) |
| | 5927.8 | 122.9 | 2284.0 | 1984.3 | 940.3 | 971.8 | 72.1 | 575.4 | 52.0 | 32.0 | 19.4 | 0.6 | 220.1 | 4.3 | 3.1 | 212.6 | 7.9 | 100.2 | 120.2 | 60.0 | 52.2 | 348.8 |
| Ekiti | (4612.6–7758.0) | (79.6–172.7) | (1567.2–3136.8) | (1424.4–2818.5) | (606.2–1478.1) | (658.3–1515.2) | (24.6–170.2) | (346.6–907.0) | (29.5–87.9) | (15.7–54.1) | (9.0–36.6) | (0.2–1.6) | (131.9–338.5) | (0.8–9.9) | (0.8–9.9) | (128.7–328.7) | (3.9–14.7) | (75.3–134.7) | (55.3–215.9) | (37.1–88.9) | (30.1–93.2) | (222.8–482.6) |
| | 6018.6 | 120.7 | 2418.3 | 2037.0 | 1041.3 | 929.1 | 66.6 | 536.8 | 47.9 | 30.3 | 17.1 | 0.5 | 203.0 | 3.7 | 2.7 | 196.5 | 6.3 | 96.8 | 115.6 | 57.6 | 46.5 | 332.2 |
| Enugu | (4445.9–7797.0) | (79.1–170.7) | (1685.9–3370.6) | (1340.3–3012.0) | (611.1–1691.8) | (517.1–1549.0) | (22.6–138.9) | (295.6–892.8) | (24.5–84.7) | (14.6–56.6) | (7.6–31.2) | (0.2–1.3) | (119.4–322.4) | (1.4–7.6) | (0.8–9.5) | (116.2–314.7) | (3.0–11.8) | (69.9–130.3) | (48.9–219.2) | (33.6–85.3) | (24.8–88.7) | (205.9–460.1) |
| | 7479.0 | 137.3 | 3010.7 | 2450.0 | 1177.7 | 1185.1 | 87.2 | 640.0 | 66.6 | 41.0 | 24.8 | 0.8 | 308.0 | 7.3 | 3.4 | 297.3 | 11.9 | 110.3 | 156.0 | 73.7 | 71.1 | 443.4 |
| FCT (Abuja) | (5700.4–9583.3) | (90.0–190.0) | (2090.4–4016.5) | (1781.1–3395.2) | (782.2–1793.6) | (794.2–1851.8) | (34.8–190.3) | (379.7–974.6) | (37.2–111.5) | (21.0–71.0) | (12.2–45.2) | (0.3–2.0) | (191.9–483.3) | (3.0–15.3) | (1.0–9.9) | (181.6–467.2) | (6.0–22.7) | (84.1–147.4) | (68.3–288.6) | (45.0–115.1) | (41.4–131.0) | (285.1–628.6) |
| | 7100.3 | 186.5 | 2511.4 | 2975.6 | 1413.5 | 1495.0 | 67.0 | 529.2 | 43.7 | 23.9 | 19.4 | 0.4 | 251.1 | 7.7 | 3.3 | 240.1 | 13.6 | 83.9 | 64.7 | 43.3 | 66.8 | 330.5 |
| Gombe | (5457.6–8922.5) | (118.0–277.8) | (1642.7–3503.8) | (2225.6–3997.0) | (957.0–2134.0) | (1027.4–2204.1) | (29.9–157.8) | (303.0–836.5) | (24.0–69.7) | (12.0–40.3) | (9.5–33.2) | (0.1–0.9) | (149.0–401.3) | (3.3–15.0) | (0.8–11.5) | (142.0–385.0) | (6.3–26.9) | (63.9–115.2) | (35.0–109.0) | (25.6–64.2) | (36.3–120.5) | (214.1–472.2) |
| | 6493.2 | 121.9 | 2522.4 | 2125.5 | 1049.0 | 1001.5 | 74.9 | 658.9 | 59.6 | 38.0 | 20.9 | 0.7 | 225.6 | 4.1 | 2.6 | 218.9 | 7.3 | 116.9 | 132.4 | 67.8 | 51.8 | 403.1 |
| Imo | (4593.9–8643.6) | (78.3–173.7) | (1680.2–3740.1) | (1343.4–3231.3) | (583.5–1747.8) | (574.1–1671.4) | (24.4–155.0) | (366.8–1050.9) | (31.0–101.2) | (18.0–65.9) | (9.2–37.1) | (0.2–1.8) | (132.2–359.6) | (1.5–8.2) | (0.7–8.9) | (129.2–348.8) | (3.4–13.5) | (79.4–161.4) | (55.7–242.3) | (39.7–100.3) | (27.2–96.2) | (237.7–576.9) |
| | 6813.3 | 187.3 | 2403.6 | 2948.2 | 1500.4 | 1392.9 | 55.0 | 460.3 | 37.5 | 21.2 | 16.0 | 0.2 | 239.0 | 10.0 | 3.9 | 225.1 | 16.9 | 80.0 | 53.5 | 40.7 | 51.7 | 294.6 |
| Jigawa | (5221.3–8686.2) | (123.1–274.5) | (1435.5–3470.6) | (2213.2–3897.7) | (952.9–2391.9) | (910.9–2070.5) | (25.2–145.0) | (275.3–703.6) | (20.9–63.4) | (10.8–37.4) | (7.6–28.0) | (0.1–0.6) | (132.7–425.5) | (3.7–21.4) | (0.9–12.5) | (123.9–397.2) | (7.6–33.2) | (58.8–106.2) | (26.7–88.5) | (23.7–62.2) | (29.8–85.6) | (190.7–423.0) |
| | 6938.7 | 156.7 | 2557.6 | 2680.4 | 1255.8 | 1353.4 | 71.1 | 566.3 | 50.0 | 29.1 | 20.5 | 0.5 | 257.8 | 6.1 | 3.9 | 247.8 | 12.4 | 93.0 | 88.6 | 52.3 | 58.8 | 364.9 |
| Kaduna | (5429.4–8608.1) | (105.3–217.0) | (1783.8–3423.6) | (1970.6–3554.7) | (820.2–1896.5) | (922.5–1985.7) | (30.5–165.7) | (340.3–866.0) | (27.8–84.1) | (14.8–48.9) | (10.2–36.0) | (0.2–1.1) | (161.0–393.9) | (2.7–11.6) | (1.1–13.4) | (156.4–376.8) | (6.1–23.4) | (68.5–125.3) | (47.5–150.8) | (31.5–78.4) | (35.4–101.0) | (240.4–499.5) |
| | 5662.1 | 147.4 | 2061.2 | 2343.2 | 1176.0 | 1115.9 | 51.3 | 389.3 | 32.6 | 18.6 | 13.7 | 0.3 | 191.8 | 5.7 | 2.8 | 183.3 | 10.1 | 74.0 | 51.7 | 36.1 | 44.6 | 280.2 |
| Kano | (4450.8–7117.0) | (97.9–202.1) | (1353.7–2946.1) | (1669.3–3122.1) | (816.7–1781.5) | (734.9–1619.3) | (24.5–118.8) | (236.6–595.9) | (18.3–54.2) | (9.6–31.6) | (6.8–23.3) | (0.1–0.6) | (120.2–301.8) | (2.5–10.8) | (0.8–10.0) | (113.8–289.0) | (4.8–18.6) | (54.8–99.7) | (28.7–92.1) | (22.3–53.4) | (25.4–76.6) | (188.8–383.7) |
| | 4622.0 | 148.2 | 1565.4 | 1924.7 | 976.2 | 907.2 | 41.3 | 316.1 | 26.7 | 15.4 | 11.1 | 0.2 | 161.0 | 5.8 | 2.8 | 152.4 | 10.2 | 67.2 | 39.1 | 30.8 | 39.3 | 293.2 |
| Katsina | (3497.9–5811.8) | (97.8–210.2) | (995.0–2250.9) | (1449.9–2552.4) | (646.4–1541.2) | (593.0–1346.1) | (20.3–102.2) | (188.7–483.9) | (14.6–44.9) | (8.1–25.9) | (5.3–19.2) | (0.1–0.4) | (90.1–279.3) | (2.3–12.2) | (0.8–9.1) | (85.7–264.8) | (4.9–19.4) | (48.3–90.7) | (19.7–66.8) | (18.0–47.1) | (23.0–68.9) | (200.7–387.2) |
| | 6092.2 | 188.4 | 2044.6 | 2641.0 | 1284.8 | 1299.8 | 56.4 | 428.3 | 36.4 | 20.5 | 15.6 | 0.3 | 223.7 | 9.0 | 3.7 | 211.1 | 14.6 | 77.3 | 51.5 | 38.3 | 58.7 | 289.4 |
| Kebbi | (4635.3–7709.3) | (117.8–283.9) | (1360.1–2939.9) | (1955.5–3471.0) | (887.7–1954.3) | (874.2–1899.4) | (26.8–137.4) | (255.0–652.8) | (20.0–61.1) | (10.8–36.0) | (7.7–27.8) | (0.1–0.6) | (124.6–377.8) | (3.6–19.0) | (0.9–11.0) | (118.6–358.5) | (6.8–29.1) | (58.0–102.2) | (26.7–86.0) | (22.7–57.0) | (33.0–104.5) | (191.4–403.1) |
| | 6646.4 | 155.1 | 2507.6 | 2255.3 | 1007.3 | 1160.9 | 87.1 | 642.2 | 58.6 | 33.8 | 24.1 | 0.7 | 271.2 | 5.8 | 3.3 | 262.1 | 11.0 | 95.5 | 117.6 | 56.0 | 72.7 | 403.5 |
| Kogi | (5001.5–8475.3) | (99.2–222.4) | (1723.3–3475.8) | (1602.6–3227.0) | (639.9–1585.7) | (781.3–1772.3) | (29.9–198.0) | (390.6–1020.7) | (32.5–98.9) | (17.3–57.5) | (11.5–42.2) | (0.2–1.9) | (165.8–427.5) | (2.4–11.0) | (1.0–11.1) | (161.5–417.3) | (5.1–21.1) | (69.5–128.6) | (56.0–218.2) | (34.1–81.6) | (40.8–128.0) | (254.0–569.0) |
| | 5795.6 | 135.6 | 2180.0 | 1999.3 | 950.7 | 981.8 | 66.8 | 550.5 | 49.8 | 30.6 | 18.7 | 0.5 | 220.1 | 4.4 | 3.1 | 212.6 | 8.9 | 96.6 | 103.2 | 55.9 | 52.1 | 343.5 |
| Kwara | (4348.4–7407.9) | (90.5–187.3) | (1489.3–2963.5) | (1455.6–2854.0) | (610.6–1459.7) | (654.3–1560.7) | (25.2–142.8) | (322.8–903.7) | (27.3–81.9) | (15.1–49.7) | (8.9–32.8) | (0.2–1.4) | (129.9–332.3) | (2.0–8.6) | (0.9–10.6) | (126.1–324.7) | (4.4–16.9) | (71.0–128.4) | (46.9–190.3) | (33.6–83.9) | (28.9–95.5) | (223.0–477.2) |
| | 6273.3 | 113.5 | 2552.6 | 1915.4 | 961.9 | 874.6 | 78.8 | 600.3 | 62.9 | 40.6 | 21.5 | 0.8 | 241.8 | 4.4 | 2.9 | 234.6 | 7.4 | 113.3 | 165.9 | 74.9 | 52.4 | 372.9 |
| Lagos | (4975.0–8632.6) | (77.0–157.6) | (1852.5–3603.2) | (1352.7–2755.3) | (644.3–1551.7) | (574.0–1441.0) | (28.1–163.1) | (345.7–952.7) | (34.3–112.3) | (20.9–75.7) | (10.2–40.1) | (0.2–2.1) | (127.8–400.0) | (1.8–9.6) | (0.7–8.5) | (124.1–386.2) | (3.8–14.4) | (81.7–157.1) | (70.3–326.6) | (45.0–115.0) | (28.7–101.9) | (240.4–525.5) |
| | 6118.8 | 149.2 | 2284.3 | 2255.6 | 1075.2 | 1112.2 | 68.2 | 506.6 | 46.4 | 27.5 | 18.5 | 0.4 | 234.1 | 5.8 | 2.9 | 225.4 | 10.2 | 89.3 | 91.4 | 51.1 | 56.8 | 343.8 |
| Nasarawa | (4700.3–7892.7) | (98.9–206.8) | (1542.7–3129.6) | (1630.7–3095.9) | (696.7–1613.5) | (742.2–1663.1) | (27.9–164.2) | (304.4–799.4) | (26.3–78.7) | (15.0–46.3) | (9.0–33.1) | (0.2–1.1) | (145.2–360.5) | (2.5–11.2) | (0.8–9.6) | (140.4–350.1) | (4.8–19.6) | (65.0–118.7) | (44.1–163.3) | (30.8–75.6) | (33.6–98.3) | (227.5–480.4) |
| | 5162.9 | 154.9 | 1773.2 | 2063.5 | 977.3 | 1029.5 | 56.8 | 391.1 | 36.5 | 21.4 | 14.8 | 0.3 | 207.8 | 6.2 | 3.0 | 198.6 | 10.6 | 75.3 | 63.4 | 39.8 | 51.7 | 295.0 |
| Niger | (3911.3–6469.9) | (104.5–216.4) | (1204.2–2476.3) | (1495.1–2758.1) | (646.5–1537.4) | (688.5–1489.6) | (25.5–125.2) | (236.1–589.6) | (19.6–62.5) | (11.3–36.7) | (7.1–25.8) | (0.1–0.7) | (126.7–321.4) | (2.7–12.0) | (0.9–10.6) | (121.4–305.6) | (5.2–21.2) | (55.2–98.0) | (31.8–115.4) | (23.5–60.2) | (29.8–94.5) | (197.3–403.0) |
| | 4252.7 | 110.3 | 1530.5 | 1535.3 | 770.9 | 713.9 | 50.6 | 396.2 | 36.0 | 22.4 | 13.1 | 0.4 | 153.0 | 2.8 | 2.2 | 148.0 | 5.3 | 82.4 | 74.1 | 43.0 | 33.1 | 253.5 |
| Ogun | (3254.9–5647.0) | (73.6–157.8) | (1089.0–2102.7) | (1129.9–2162.6) | (537.4–1203.0) | (473.6–1125.0) | (21.4–101.2) | (233.1–635.7) | (19.8–63.5) | (11.6–42.4) | (6.4–23.6) | (0.1–0.9) | (90.9–237.4) | (1.2–5.4) | (0.7–6.1) | (86.1–232.2) | (3.0–9.7) | (60.6–110.3) | (35.2–138.3) | (26.5–63.4) | (17.5–63.2) | (165.8–343.4) |
| | 5231.2 | 122.6 | 1929.9 | 1839.5 | 887.2 | 888.9 | 63.4 | 491.0 | 45.3 | 27.7 | 17.1 | 0.5 | 196.7 | 3.7 | 2.7 | 190.3 | 6.8 | 93.9 | 95.7 | 50.8 | 46.6 | 312.5 |
| Ondo | (4114.7–6788.1) | (80.2–172.9) | (1350.6–2735.0) | (1299.3–2644.0) | (596.4–1392.9) | (574.0–1401.7) | (23.9–137.0) | (297.9–734.7) | (24.7–77.2) | (13.6–49.4) | (7.9–31.2) | (0.2–1.3) | (115.0–309.9) | (0.8–8.2) | (0.8–9.2) | (111.7–301.1) | (3.5–12.4) | (68.7–124.1) | (44.8–181.9) | (31.4–74.9) | (25.2–88.2) | (202.6–438.0) |
| | 3271.7 | 114.9 | 912.1 | 1132.6 | 472.5 | 605.9 | 54.2 | 404.9 | 36.8 | 22.7 | 13.7 | 0.4 | 164.1 | 3.7 | 2.2 | 158.2 | 7.0 | 81.4 | 45.2 | 42.4 | 40.8 | 289.5 |
| Osun | (2224.3–5003.1) | (76.1–163.1) | (532.8–1426.5) | (679.1–1733.2) | (289.4–780.2) | (333.0–1023.0) | (19.1–122.4) | (258.5–690.1) | (19.6–68.3) | (11.2–41.9) | (6.0–27.7) | (0.1–1.1) | (91.3–266.9) | (1.4–7.9) | (0.7–7.3) | (87.8–257.3) | (3.5–13.5) | (58.9–115.9) | (23.1–86.3) | (24.1–72.9) | (22.7–89.4) | (190.5–444.5) |
| | 4933.3 | 120.5 | 1932.9 | 1487.1 | 719.5 | 705.6 | 62.0 | 501.4 | 45.4 | 28.2 | 16.7 | 0.5 | 189.3 | 3.4 | 3.2 | 182.7 | 7.2 | 90.9 | 135.5 | 49.6 | 47.2 | 326.5 |
| Oyo | (4040.8–6350.8) | (80.9–166.4) | (1384.7–2693.2) | (1070.3–2177.1) | (484.7–1165.2) | (442.8–1084.2) | (22.3–137.8) | (296.8–773.3) | (24.6–79.2) | (14.5–47.0) | (7.8–29.8) | (0.2–1.5) | (111.1–290.5) | (1.6–6.4) | (0.9–9.6) | (107.5–282.2) | (3.6–13.2) | (67.0–120.1) | (47.2–272.2) | (31.7–76.1) | (25.7–84.3) | (218.2–462.4) |
| | 5836.3 | 139.1 | 2223.3 | 2135.0 | 1055.9 | 1016.6 | 62.5 | 473.8 | 44.6 | 27.4 | 16.8 | 0.4 | 213.9 | 4.5 | 3.5 | 205.8 | 8.0 | 88.8 | 93.0 | 51.2 | 53.5 | 312.0 |
| Plateau | (4449.1–7461.1) | (91.3–197.2) | (1527.3–2947.2) | (1510.8–3032.0) | (660.2–1611.0) | (657.1–1567.8) | (25.2–138.7) | (273.0–748.1) | (23.9–75.2) | (14.1–46.5) | (8.0–28.7) | (0.1–0.9) | (129.2–322.0) | (1.9–8.9) | (1.0–11.6) | (125.8–311.1) | (4.0–15.3) | (65.6–120.2) | (41.8–177.5) | (30.6–77.4) | (29.9–91.9) | (201.7–433.7) |
| | 7494.3 | 129.9 | 2846.7 | 2527.7 | 1163.2 | 1273.6 | 91.0 | 778.1 | 70.9 | 44.1 | 26.0 | 0.8 | 266.4 | 4.7 | 3.3 | 258.4 | 8.7 | 134.5 | 160.3 | 81.2 | 65.6 | 424.3 |
| Rivers | (5968.6–9418.4) | (86.5–181.1) | (2030.2–3994.8) | (1860.1–3518.6) | (815.0–1812.0) | (869.2–1949.9) | (33.9–199.4) | (454.2–1200.0) | (38.6–120.5) | (21.5–78.7) | (11.9–48.1) | (0.3–2.2) | (163.6–403.6) | (2.1–9.3) | (0.9–9.5) | (157.2–395.6) | (4.7–15.9) | (98.8–186.1) | (81.4–272.6) | (49.5–117.5) | (36.1–116.2) | (277.8–619.4) |
| | 6754.0 | 189.3 | 2456.6 | 2903.4 | 1556.0 | 1292.6 | 54.8 | 404.3 | 34.0 | 19.8 | 14.0 | 0.2 | 231.2 | 10.5 | 3.8 | 216.9 | 16.6 | 75.1 | 62.7 | 39.8 | 56.3 | 284.7 |
| Sokoto | (5005.2–8685.6) | (118.0–281.5) | (1506.2–3678.8) | (2129.0–3920.7) | (1053.0–2297.0) | (818.8–2047.4) | (25.7–126.0) | (229.7–652.2) | (17.5–58.8) | (9.2–36.5) | (6.8–25.7) | (0.1–0.5) | (124.3–409.3) | (4.2–20.1) | (1.0–11.9) | (117.4–386.0) | (7.4–34.4) | (54.6–101.9) | (26.5–113.4) | (23.3–64.7) | (30.6–99.0) | (185.7–390.6) |
| | 8592.3 | 204.8 | 3029.8 | 3530.0 | 1599.8 | 1839.8 | 90.3 | 694.9 | 57.8 | 32.8 | 24.5 | 0.5 | 315.0 | 8.4 | 4.4 | 302.2 | 14.2 | 101.8 | 98.4 | 58.0 | 83.8 | 403.9 |
| Taraba | (6651.9–10848.1) | (133.1–310.9) | (1975.4–4169.0) | (2572.7–4641.4) | (1023.9–2418.8) | (1258.4–2590.5) | (35.4–228.8) | (400.8–1082.7) | (32.5–93.3) | (16.3–55.0) | (11.8–43.4) | (0.2–1.2) | (180.5–491.5) | (3.4–16.5) | (1.1–15.2) | (173.4–476.3) | (6.8–26.4) | (74.9–137.2) | (52.6–169.7) | (36.2–83.8) | (48.9–147.8) | (255.0–592.0) |
| | 5194.1 | 174.4 | 1785.6 | 2166.1 | 1079.2 | 1038.5 | 48.4 | 356.0 | 29.8 | 16.7 | 12.8 | 0.2 | 203.7 | 8.8 | 3.0 | 191.9 | 13.8 | 68.3 | 43.3 | 31.9 | 52.0 | 269.2 |
| Yobe | (3972.2–6585.4) | (113.8–249.3) | (1093.0–2633.5) | (1601.6–2830.5) | (699.2–1691.8) | (671.7–1553.6) | (23.0–126.3) | (212.2–547.7) | (16.3–48.5) | (8.4–29.9) | (6.1–22.5) | (0.1–0.5) | (115.1–334.7) | (3.6–17.8) | (0.8–9.9) | (109.4–313.3) | (6.4–26.8) | (48.9–92.2) | (21.3–75.2) | (18.3–48.8) | (28.6–90.9) | (176.5–380.8) |
| | 5872.1 | 182.9 | 1924.1 | 2626.3 | 1272.3 | 1302.4 | 51.6 | 409.5 | 32.2 | 17.8 | 14.2 | 0.2 | 208.3 | 8.5 | 3.1 | 196.8 | 13.8 | 74.0 | 43.7 | 35.4 | 53.8 | 268.0 |
| Zamfara | (4550.9–7501.8) | (118.7–265.5) | (1247.5–2854.8) | (1948.1–3446.4) | (881.8–1970.8) | (848.5–1950.1) | (23.6–121.2) | (236.3–628.2) | (17.6–54.3) | (8.9–31.7)

**Table S3. Cardiovascular disease DALY rates by sex**

| | DALYs (Disability-Adjusted Life Years) count (millions) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|
| **Cause Names** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| Cardiovascular diseases | 248 (227–269) | 188 (168–209) | 437 (401–465) | 5884.7 (5389.2–6387.2) | 3924.1 (3490.5–4369.0) | 4866.9 (4462.5–5196.3) |
| Rheumatic heart disease | 6.17 (4.11–9.24) | 8.31 (4.90–12.5) | 14.5 (10.1–19.9) | 147.4 (98.7–218.3) | 190.2 (112.7–284.0) | 169.1 (118.4–229.7) |
| Ischemic heart disease | 118 (106–130) | 74.8 (64.2–84.8) | 193 (176–209) | 2772.5 (2498.5–3069.0) | 1536.0 (1318.6–1750.2) | 2130.2 (1941.8–2316.3) |
| Stroke | 85.7 (75.8–97.8) | 70.8 (61.8–83.4) | 157 (141–172) | 2030.2 (1793.9–2313.1) | 1472.0 (1273.6–1741.8) | 1738.4 (1565.8–1918.2) |
| Ischemic stroke | 35.5 (30.9–40.6) | 31.6 (25.6–37.2) | 67.0 (58.7–75.3) | 860.9 (748.9–981.5) | 638.8 (516.8–752.9) | 743.3 (649.8–834.1) |
| Intracerebral hemorrhage | 44.6 (37.6–53.5) | 33.6 (27.7–42.2) | 78.2 (67.3–88.1) | 1036.9 (874.4–1242.7) | 710.9 (582.5–897.7) | 867.8 (745.9–979.8) |
| Subarachnoid hemorrhage | 5.64 (4.59–7.15) | 5.62 (4.51–7.69) | 11.3 (9.51–13.8) | 132.4 (107.0–168.3) | 122.3 (97.4–169.6) | 127.3 (107.1–156.4) |
| Hypertensive heart disease | 13.7 (10.7–17.9) | 14.8 (11.1–20.1) | 28.4 (22.7–35.2) | 327.4 (258.3–428.5) | 300.2 (224.5–410.3) | 315.6 (252.2–391.2) |
| Non-rheumatic valvular heart disease | 1.70 (1.41–2.00) | 1.72 (1.34–2.05) | 3.43 (2.93–3.93) | 43.3 (36.2–50.5) | 34.8 (27.3–41.8) | 39.0 (33.4–44.8) |
| Non-rheumatic calcific aortic valve disease | 1.20 (1.00–1.42) | 1.15 (0.897–1.33) | 2.35 (2.00–2.64) | 31.0 (25.8–36.2) | 22.7 (17.9–26.7) | 26.8 (22.7–30.1) |
| Non-rheumatic degenerative mitral valve disease | 0.477 (0.354–0.665) | 0.545 (0.394–0.747) | 1.02 (0.810–1.32) | 11.8 (8.8–16.2) | 11.5 (8.2–16.0) | 11.6 (9.2–15.0) |
| Other non-rheumatic valve diseases | 0.0217 (0.0126–0.0396) | 0.0297 (0.0155–0.0575) | 0.0514 (0.0328–0.0821) | 0.5 (0.3–0.9) | 0.6 (0.3–1.2) | 0.6 (0.4–0.9) |
| Cardiomyopathy and myocarditis | 7.78 (6.26–10.0) | 4.22 (3.03–5.78) | 12.0 (9.80–14.4) | 186.8 (148.9–240.9) | 97.5 (68.6–134.9) | 141.5 (114.1–171.9) |
| Myocarditis | 0.387 (0.239–0.651) | 0.263 (0.138–0.529) | 0.650 (0.440–0.969) | 10.1 (6.1–17.2) | 6.7 (3.4–13.7) | 8.4 (5.6–12.6) |
| Alcoholic cardiomyopathy | 1.75 (1.53–2.05) | 0.403 (0.346–0.487) | 2.16 (1.93–2.46) | 39.8 (34.6–46.5) | 9.0 (7.7–10.8) | 24.2 (21.6–27.7) |
| Other cardiomyopathy | 5.64 (4.31–7.46) | 3.55 (2.48–5.01) | 9.19 (7.12–11.3) | 136.9 (104.2–180.8) | 81.8 (56.0–116.7) | 108.9 (83.5–135.5) |
| Pulmonary Arterial Hypertension | 0.325 (0.210–0.494) | 0.377 (0.241–0.556) | 0.701 (0.515–0.999) | 8.4 (5.3–13.1) | 9.0 (5.6–13.6) | 8.7 (6.3–12.7) |
| Atrial fibrillation and flutter | 4.50 (3.58–5.78) | 4.77 (3.89–5.90) | 9.27 (7.52–11.7) | 114.5 (91.9–145.3) | 94.4 (76.9–117.1) | 103.9 (84.7–130.3) |
| Aortic aneurysm | 2.30 (2.02–2.67) | 1.12 (0.945–1.32) | 3.42 (3.03–3.84) | 54.3 (47.7–63.0) | 22.9 (19.3–27.2) | 37.8 (33.4–42.5) |
| Lower extremity peripheral arterial disease | 0.941 (0.748–1.16) | 0.921 (0.681–1.32) | 1.86 (1.44–2.47) | 23.1 (18.3–28.5) | 18.2 (13.5–26.2) | 20.6 (15.9–27.3) |
| Endocarditis | 1.28 (0.996–1.69) | 1.06 (0.781–1.42) | 2.34 (1.96–2.87) | 31.2 (24.3–41.1) | 24.1 (17.4–33.1) | 27.6 (22.9–34.2) |
| Other cardiovascular and circulatory diseases | 5.99 (4.66–7.40) | 5.56 (4.20–7.17) | 11.5 (9.22–14.2) | 145.6 (113.2–180.4) | 124.6 (92.7–161.3) | 134.5 (106.7–165.1) |

**Table S4. Age-standardized prevalence rates for cardiovascular diseases by location**

**Age-standardized prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Global** | **6988.8 (6689.6–7472.4)** | **669.6 (535.7–798.9)** | **2637.3 (2329.7–2997.9)** | **1169.8 (1097.4–1256.7)** | **862.0 (793.1–935.2)** | **198.6 (182.9–216.2)** | **116.4 (104.8–129.6)** | **147.8 (116.9–187.2)** | **323.4 (298.8–350.8)** | **152.7 (128.2–176.4)** | **175.4 (163.3–188.0)** | **0.1 (0.1–0.2)** | **64.7 (52.2–75.2)** | **4.8 (4.0–5.8)** | **6.1 (5.1–7.2)** | **53.7 (42.6–64.1)** | **2.3 (1.8–2.8)** | **649.4 (510.9–796.4)** | -- | **1337.4 (1030.1–1715.6)** | **5.1 (4.4–5.9)** | **976.5 (756.7–1221.9)** |
| | **8495.7 (8022.2–9068.6)** | **218.9 (184.6–253.6)** | **1024.6 (4519.0–5699.7)** | **804.3 (958.4–1102.6)** | **803.1 (743.7–877.3)** | **106.3 (97.3–116.1)** | **119.6 (108.4–133.8)** | **84.5 (68.9–113.4)** | **579.3 (523.8–647.8)** | **289.8 (236.1–342.7)** | **296.1 (265.3–332.1)** | **0.4 (0.3–0.5)** | **121.1 (102.4–137.5)** | **4.7 (3.8–5.6)** | **40.7 (34.1–47.8)** | **75.7 (62.0–88.0)** | **2.6 (2.1–3.1)** | **730.4 (558.6–916.8)** | -- | **1148.3 (865.0–1471.2)** | **4.3 (3.6–5.0)** | **827.1 (622.7–1084.8)** |
| **Central Europe, Eastern Europe, and Central Asia** | | | | | | | | | | | | | | | | | | | | | | |
| Central Asia | 11642.4 (11047.8–12417.0) | 700.5 (566.3–849.6) | 8570.4 (7872.1–9472.4) | 969.6 (930.4–1011.6) | 728.7 (692.7–765.7) | 127.0 (118.0–136.3) | 118.2 (110.6–126.3) | 93.9 (65.9–131.6) | 642.5 (559.6–747.7) | 147.9 (122.0–179.4) | 500.4 (414.1–602.0) | 0.3 (0.2–0.3) | 69.4 (57.8–81.4) | 4.1 (3.3–5.0) | 5.6 (4.4–6.7) | 59.7 (49.3–70.8) | 2.3 (1.9–2.8) | 661.5 (502.8–836.2) | -- | 1106.0 (828.2–1443.0) | 1.3 (1.2–1.5) | 502.4 (382.9–664.0) |
| Armenia | 9542.3 (9021.6–10040.0) | 134.8 (113.7–155.8) | 6534.6 (5869.2–7015.0) | 824.6 (779.5–861.4) | 626.1 (594.4–669.2) | 90.5 (84.2–97.6) | 100.2 (93.8–109.4) | 126.0 (93.4–163.4) | 513.9 (475.3–641.0) | 175.5 (143.4–210.5) | 383.4 (314.7–459.7) | 0.1 (0.1–0.1) | 56.0 (46.1–66.9) | 3.4 (3.2–5.2) | 4.1 (3.4–5.1) | 34.5 (27.1–42.8) | 2.8 (2.3–3.4) | 674.0 (512.9–862.1) | -- | 1147.4 (866.3–1505.0) | 1.5 (1.3–1.7) | 714.4 (742.7–1236.3) |
| Azerbaijan | 12087.2 (11260.5–13064.5) | 909.3 (741.2–1111.9) | 9084.0 (8144.5–10070.9) | 782.2 (746.6–821.6) | 553.8 (521.3–589.5) | 119.5 (110.3–129.2) | 112.1 (104.6–121.3) | 96.8 (64.7–129.9) | 586.2 (495.8–698.8) | 143.5 (114.9–178.8) | 447.6 (363.3–559.1) | 0.01 (0.01–0.02) | 99.4 (84.4–117.7) | 4.7 (3.8–5.7) | 1.8 (1.4–2.2) | 93.0 (78.1–110.9) | 2.7 (2.2–3.2) | 667.4 (508.5–858.3) | -- | 1135.6 (855.3–1459.0) | 0.7 (0.5–0.8) | 367.1 (276.2–500.8) |
| Georgia | 11148.7 (10039.6–12419.1) | 76.7 (66.5–86.0) | 8533.8 (7746.9–9331.3) | 1187.1 (1124.6–1249.3) | 744.2 (779.0–905.3) | 142.4 (159.2–184.1) | 171.3 (171.3–193.4) | 186.6 (85.4–226.8) | 1197.7 (1053.9–1362.3) | 208.2 (164.9–255.0) | 1004.5 (861.6–1164.9) | 1.0 (0.8–1.3) | 44.9 (37.4–53.3) | 4.1 (3.3–5.0) | 2.1 (1.6–2.6) | 38.6 (31.7–46.4) | 2.1 (2.2–3.2) | 681.1 (513.2–866.3) | -- | 1193.3 (898.6–1539.3) | 2.1 (1.8–2.5) | 752.2 (520.6–1029.4) |
| Kazakhstan | 10053.8 (9429.2–10733.8) | 92.7 (77.9–106.4) | 7381.0 (6651.5–8195.8) | 991.3 (946.2–1034.7) | 753.9 (711.0–795.6) | 121.0 (112.4–131.1) | 120.7 (112.7–129.7) | 58.5 (39.5–83.6) | 559.7 (476.4–659.1) | 149.5 (116.6–182.6) | 414.5 (330.0–517.6) | 0.2 (0.1–0.2) | 143.9 (116.8–171.2) | 3.8 (3.0–4.6) | 3.5 (2.7–4.5) | 136.6 (110.3–163.5) | 2.3 (1.9–2.9) | 699.1 (534.6–882.8) | -- | 1178.4 (883.7–1535.5) | 2.0 (1.7–2.3) | 443.9 (319.6–589.7) |
| Kyrgyzstan | 11594.2 (10810.1–12376.6) | 930.9 (748.6–1121.9) | 9464.7 (7616.7–9280.7) | 974.7 (928.1–1021.5) | 746.8 (703.3–792.3) | 115.6 (106.7–124.5) | 116.3 (108.4–126.4) | 92.0 (63.8–129.3) | 495.5 (416.5–579.1) | 114.7 (90.5–141.5) | 383.9 (304.5–474.8) | 0.1 (0.1–0.2) | 64.3 (53.7–77.8) | 5.8 (4.6–7.0) | 4.7 (3.5–5.5) | 13.9 (11.2–17.3) | 2.7 (2.2–3.3) | 617.9 (468.2–782.0) | -- | 1061.1 (792.6–1369.5) | 1.3 (1.1–1.5) | 467.7 (356.9–603.4) |
| Mongolia | 9939.0 (9231.8–10608.3) | 894.9 (716.0–1101.1) | 6589.4 (5893.4–7251.3) | 791.1 (746.6–821.6) | 475.8 (446.3–510.3) | 163.9 (152.0–177.6) | 155.3 (144.9–166.0) | 52.0 (33.0–77.3) | 701.2 (595.0–835.3) | 113.6 (90.2–139.2) | 592.5 (486.9–719.0) | 0.3 (0.2–0.3) | 91.6 (74.8–109.4) | 4.6 (3.8–5.5) | 19.8 (15.4–24.8) | 67.2 (54.1–80.8) | 2.1 (1.7–2.6) | 662.5 (501.3–835.8) | -- | 1001.6 (751.0–1292.4) | 1.1 (0.9–1.3) | 402.1 (292.8–552.8) |
| Tajikistan | 12235.8 (11115.6–13706.5) | 921.5 (729.6–1132.6) | 9478.1 (8263.8–10997.2) | 994.4 (949.6–1047.0) | 746.5 (700.8–798.8) | 142.4 (131.9–154.6) | 110.0 (102.0–119.2) | 160.3 (113.3–220.5) | 490.5 (410.6–589.5) | 86.5 (69.5–104.9) | 406.5 (320.4–502.4) | 0.04 (0.03–0.1) | 22.5 (18.1–27.7) | 3.1 (2.4–3.8) | 0.02 (0.02–0.02) | 19.4 (15.0–24.6) | 2.3 (1.9–2.8) | 631.0 (486.1–801.5) | -- | 933.9 (699.9–1207.3) | 0.7 (0.6–0.8) | 152.1 (121.6–196.8) |
| Turkmenistan | 12854.3 (11804.2–13923.9) | 879.6 (712.2–1079.6) | 9664.3 (8435.8–11000.1) | 1334.3 (1267.2–1397.2) | 1041.0 (977.3–1102.6) | 147.2 (135.0–159.3) | 153.0 (141.8–163.9) | 81.4 (56.2–114.5) | 550.5 (468.5–654.0) | 133.6 (105.3–166.2) | 421.0 (336.8–526.7) | 0.1 (0.04–0.1) | 91.9 (77.2–109.4) | 5.5 (4.5–6.6) | 2.5 (1.9–3.0) | 83.9 (69.8–101.4) | 2.1 (1.8–2.6) | 685.2 (523.1–863.7) | -- | 1008.3 (773.1–1293.6) | 0.9 (0.8–1.1) | 331.0 (252.7–434.0) |
| Uzbekistan | 12646.4 (11679.9–13850.1) | 907.0 (727.7–1117.8) | 9547.1 (8456.1–11081.9) | 957.3 (912.1–999.2) | 733.6 (690.9–777.7) | 125.1 (115.9–134.6) | 102.6 (95.2–111.0) | 86.8 (60.8–123.5) | 663.8 (565.7–781.8) | 150.0 (123.1–184.1) | 519.6 (416.7–640.7) | 0.4 (0.3–0.5) | 23.6 (19.9–27.6) | 3.9 (3.1–4.8) | 0.04 (0.03–0.04) | 19.7 (16.2–23.4) | 2.1 (1.7–2.6) | 629.1 (475.5–812.8) | -- | 1061.5 (795.9–1383.7) | 1.3 (1.1–1.5) | 579.7 (429.0–793.3) |
| Central Europe | 6094.4 (6404.3–7135.2) | 54.2 (46.8–61.7) | 3095.1 (2775.0–3423.8) | 805.1 (878.5–988.4) | 528.5 (683.4–788.4) | 73.5 (85.5–102.1) | 145.4 (100.9–120.9) | 109.9 (88.6–190.5) | 653.2 (578.5–725.6) | 58.3 (31.9–432.7) | 375.4 (247.6–328.5) | 0.8 (0.7–1.0) | 125.0 (105.8–145.0) | 5.9 (4.7–7.0) | 25.1 (21.4–29.0) | 94.1 (77.0–112.3) | 2.3 (1.9–2.8) | 724.8 (579.4–952.7) | -- | 1146.0 (853.7–1441.3) | 5.8 (4.9–6.8) | 966.6 (755.5–1234.7) |
| Albania | 6983.4 (6476.4–7622.3) | 55.4 (46.7–64.6) | 2696.1 (2266.3–3149.6) | 791.4 (750.7–832.2) | 548.8 (508.1–588.3) | 144.7 (135.3–155.0) | 101.9 (94.7–110.5) | 83.6 (60.4–110.1) | 540.6 (467.8–617.4) | 253.0 (206.7–305.9) | 292.7 (236.2–362.5) | 0.2 (0.2–0.3) | 99.8 (80.2–118.5) | 6.8 (5.7–8.2) | 10.7 (8.4–13.4) | 82.4 (64.1–99.1) | 2.7 (2.2–3.3) | 738.8 (567.8–945.1) | -- | 1056.8 (788.8–1367.1) | 5.0 (4.2–5.9) | 2083.8 (1629.9–2664.0) |
| Bosnia and Herzegovina | 6962.3 (6530.3–7409.8) | 42.4 (35.9–49.8) | 2911.0 (2488.7–3369.9) | 1155.1 (1078.5–1185.3) | 914.3 (863.4–964.0) | 103.3 (95.3–112.2) | 121.9 (113.7–131.5) | 86.2 (58.9–118.3) | 597.1 (621.4–797.9) | 102.5 (270.3–384.7) | 325.1 (329.2–463.0) | 0.3 (0.3–0.4) | 148.5 (121.4–175.9) | 6.5 (5.3–7.8) | 18.2 (14.3–22.3) | 123.9 (99.3–149.3) | 2.8 (2.3–3.4) | 725.9 (551.0–929.3) | -- | 1249.8 (940.7–1592.9) | 1.4 (1.2–1.6) | 1147.8 (869.9–1510.5) |
| Bulgaria | 7946.8 (7502.2–8455.7) | 49.7 (41.6–57.3) | 4108.6 (3755.2–4536.2) | 1396.6 (1306.2–1544.6) | 1168.3 (1076.6–1316.5) | 123.6 (112.7–135.7) | 111.0 (104.0–119.6) | 237.5 (175.8–323.2) | 457.4 (399.6–526.0) | 227.3 (186.3–273.3) | 233.0 (188.9–292.1) | 0.6 (0.4–0.7) | 26.4 (21.9–30.9) | 6.2 (5.0–7.5) | 1.3 (1.1–1.7) | 18.8 (14.4–23.0) | 1.9 (1.6–2.3) | 713.9 (539.9–899.2) | -- | 1099.7 (831.2–1420.6) | 4.0 (3.3–4.7) | 1193.3 (943.2–1565.9) |
| Croatia | 5618.6 (5228.4–6169.0) | 43.9 (37.3–51.0) | 2392.3 (2045.9–2829.3) | 805.1 (773.3–834.8) | 624.7 (597.1–658.0) | 92.8 (79.8–94.9) | 93.1 (86.7–100.5) | 72.1 (50.2–94.9) | 1010.9 (881.5–1173.8) | 573.2 (474.8–706.0) | 457.4 (375.3–577.7) | 0.8 (0.6–1.0) | 57.3 (47.4–67.7) | 7.0 (5.8–8.5) | 22.8 (17.8–27.4) | 27.5 (21.1–34.4) | 2.6 (2.2–3.2) | 597.0 (508.8–706.9) | -- | 1154.5 (871.2–1481.5) | 3.5 (3.0–4.1) | 312.6 (231.9–409.0) |
| Czechia | 7843.6 (7281.0–8554.9) | 49.5 (42.0–58.5) | 2972.5 (2510.2–3595.2) | 811.3 (776.6–845.7) | 616.7 (586.5–650.1) | 95.3 (87.6–103.0) | 102.0 (95.0–110.4) | 104.2 (73.7–145.7) | 1004.2 (875.0–1152.8) | 545.9 (450.9–645.4) | 477.4 (387.9–580.4) | 1.5 (1.2–1.8) | 66.6 (53.5–78.4) | 5.2 (4.1–6.2) | 12.1 (9.7–15.2) | 49.3 (38.1–60.5) | 2.6 (2.2–3.1) | 822.2 (631.5–1047.3) | -- | 1179.3 (894.7–1512.9) | 11.9 (9.7–14.4) | 2348.4 (1819.1–3053.8) |
| Estonia | 7624.8 (7241.3–8183.2) | 50.5 (42.5–58.5) | 4175.8 (3792.9–4784.6) | 950.0 (909.1–991.7) | 749.8 (712.9–791.1) | 99.3 (91.7–107.5) | 104.0 (95.6–113.0) | 142.1 (96.4–199.6) | 906.3 (793.7–1019.1) | 531.0 (645.7–616.0) | 389.6 (324.4–467.8) | 0.7 (0.6–0.9) | 97.3 (79.9–116.5) | 3.7 (2.9–4.5) | 46.9 (36.2–57.8) | 46.8 (36.7–59.3) | 3.0 (2.5–3.6) | 717.0 (545.9–888.8) | -- | 1178.7 (898.9–1530.7) | 6.3 (5.3–7.5) | 761.7 (585.3–1002.7) |
| Hungary | 6506.3 (6018.3–6967.5) | 45.7 (38.5–52.8) | 2953.3 (2484.0–3390.9) | 967.7 (916.7–1019.7) | 722.1 (671.3–769.4) | 146.6 (137.1–156.1) | 103.5 (95.8–111.8) | 59.7 (42.5–81.2) | 538.9 (468.9–617.2) | 287.5 (236.9–341.7) | 256.1 (208.5–319.7) | 0.3 (0.2–0.4) | 196.4 (162.7–231.6) | 6.6 (5.4–7.7) | 29.3 (23.6–35.9) | 160.6 (130.6–194.0) | 2.4 (2.0–2.9) | 758.8 (571.9–978.5) | -- | 1193.3 (910.9–1531.8) | 1.6 (1.4–1.9) | 807.9 (594.1–1064.2) |
| Montenegro | 6239.8 (5872.9–6618.0) | 47.3 (39.9–54.6) | 2570.8 (2231.9–2972.3) | 1338.9 (1278.3–1405.6) | 1072.7 (1012.2–1135.0) | 124.6 (115.4–134.7) | 148.9 (138.8–160.5) | 143.3 (103.1–197.8) | 518.1 (452.5–593.0) | 273.9 (227.5–327.2) | 248.9 (201.5–303.5) | 0.03 (0.03–0.04) | 141.0 (116.7–166.8) | 4.8 (3.9–5.7) | 16.6 (13.4–20.3) | 119.6 (97.2–144.3) | 2.3 (1.9–2.8) | 732.3 (555.4–938.1) | -- | 1247.0 (945.4–1616.3) | 1.6 (1.4–1.8) | 493.3 (369.0–665.0) |
| North Macedonia | 6496.3 (5945.5–7039.2) | 52.7 (46.1–60.1) | 3095.2 (2576.1–3711.7) | 852.7 (777.3–946.8) | 627.5 (597.1–658.0) | 86.9 (589.9–752.4) | 93.1 (64.7–80.5) | 72.1 (106.3–138.2) | 1010.9 (245.6–289.5) | 573.2 (99.9–140.3) | 457.4 (141.4–154.5) | 0.8 (1.1–1.7) | 57.3 (165.1–224.5) | 7.0 (6.0–9.0) | 22.8 (33.1–45.0) | 27.5 (117.5–177.9) | 2.6 (1.8–2.6) | 597.0 (632.2–1044.7) | -- | 1154.5 (887.4–1490.6) | 3.5 (6.4–9.4) | 312.6 (598.4–1032.0) |
| Poland | 6308.4 (5957.6–6826.7) | 68.7 (57.9–80.1) | 2791.7 (2495.0–3357.6) | 951.6 (898.4–1002.6) | 742.7 (690.8–792.7) | 114.4 (102.6–127.5) | 98.5 (90.5–106.7) | 136.2 (83.8–188.2) | 974.7 (834.5–1118.2) | 720.1 (588.4–876.2) | 267.3 (214.0–324.8) | 0.1 (0.1–0.2) | 103.3 (82.8–125.6) | 4.9 (4.0–5.8) | 13.3 (10.5–16.4) | 85.2 (65.5–105.6) | 1.9 (1.6–2.3) | 677.0 (515.0–867.9) | -- | 990.4 (744.7–1262.9) | 2.6 (2.2–3.1) | 570.5 (428.9–770.2) |
| Romania | 6308.4 (5957.6–6826.7) | 68.7 (57.9–80.1) | 2791.7 (2495.0–3357.6) | 951.6 (898.4–1002.6) | 742.7 (690.8–792.7) | 114.4 (102.6–127.5) | 98.5 (90.5–106.7) | 136.2 (83.8–188.2) | 974.7 (834.5–1118.2) | 720.1 (588.4–876.2) | 267.3 (214.0–324.8) | 0.1 (0.1–0.2) | 103.3 (82.8–125.6) | 4.9 (4.0–5.8) | 13.3 (10.5–16.4) | 85.2 (65.5–105.6) | 1.9 (1.6–2.3) | 677.0 (515.0–867.9) | -- | 990.4 (744.7–1262.9) | 2.6 (2.2–3.1) | 570.5 (428.9–770.2) |
| Serbia | 6007.1 (5625.2–6469.4) | 41.8 (35.4–48.1) | 2461.0 (2078.6–2825.5) | 943.8 (889.9–988.7) | 748.0 (701.8–793.7) | 90.1 (82.0–99.1) | 107.1 (98.5–115.7) | 88.1 (55.9–123.8) | 861.9 (758.8–975.2) | 366.5 (298.3–443.1) | 509.1 (425.8–601.1) | 0.3 (0.2–0.3) | 112.9 (95.4–132.1) | 4.5 (3.7–5.5) | 19.3 (15.1–23.7) | 89.1 (72.7–107.6) | 2.1 (1.7–2.5) | 724.1 (509.6–861.4) | -- | 1161.8 (883.0–1480.4) | 1.8 (1.6–2.1) | 620.0 (457.2–867.5) |
| Slovakia | 6711.0 (6247.3–7244.5) | 75.7 (62.0–89.9) | 2706.1 (2428.3–3089.3) | 930.6 (891.2–970.8) | 733.1 (696.2–771.4) | 96.2 (89.0–104.1) | 104.4 (96.6–113.0) | 96.1 (71.1–132.4) | 435.8 (377.9–504.5) | 247.1 (204.5–292.8) | 191.6 (155.0–230.7) | 0.3 (0.2–0.3) | 70.7 (57.5–84.8) | 5.0 (4.0–5.9) | 14.7 (11.5–18.6) | 51.0 (40.3–63.1) | 2.6 (2.1–3.1) | 831.0 (634.4–1066.3) | -- | 1012.7 (782.6–1295.9) | 4.4 (3.8–5.2) | 1597.1 (1244.7–2078.8) |
| Slovenia | 5631.6 (5267.2–6072.5) | 51.3 (43.2–60.2) | 1795.0 (1522.7–2178.1) | 609.0 (578.6–655.5) | 436.8 (408.9–462.2) | 72.0 (65.6–79.1) | 102.0 (93.4–111.1) | 147.9 (100.1–211.0) | 1405.8 (1249.2–1567.1) | 951.9 (826.9–1105.1) | 492.0 (429.1–559.4) | 1.0 (0.8–1.2) | 164.5 (134.5–195.8) | 3.8 (3.1–4.7) | 26.9 (21.2–33.0) | 133.9 (105.5–161.3) | 2.6 (2.1–3.1) | 751.5 (573.2–963.9) | -- | 991.7 (747.1–1268.0) | 4.4 (3.7–5.2) | 672.0 (474.8–939.7) |
| Eastern Europe | 8452.7 (7826.9–9269.4) | 57.1 (48.0–67.4) | 5248.8 (4461.3–6197.1) | 1072.7 (988.0–1175.1) | 844.6 (769.2–943.5) | 106.0 (94.7–118.3) | 127.0 (112.6–146.6) | 42.8 (29.9–58.7) | 525.0 (468.4–586.9) | 268.6 (214.1–330.9) | 261.7 (182.9–353.6) | 0.2 (0.1–0.2) | 141.4 (120.0–160.0) | 4.5 (3.6–5.5) | 62.5 (51.9–74.1) | 74.4 (60.6–90.9) | 2.8 (2.3–3.4) | 730.4 (562.8–922.6) | -- | 1171.4 (880.9–1499.4) | 5.1 (4.2–6.2) | 837.5 (622.9–1123.5) |
| Belarus | 8445.4 (7994.0–8907.2) | 109.7 (90.7–127.8) | 5598.2 (5119.7–6134.1) | 1029.7 (980.5–1090.2) | 807.4 (760.4–865.9) | 112.7 (103.8–120.7) | 114.1 (106.3–122.4) | 8.7 (6.2–12.1) | 465.9 (396.9–546.3) | 234.7 (185.0–282.1) | 235.2 (186.6–295.2) | 0.04 (0.03–0.1) | 98.7 (80.5–116.6) | 3.9 (3.0–4.8) | 46.0 (36.5–57.1) | 48.9 (38.1–60.0) | 3.1 (2.6–3.8) | 705.2 (541.0–883.8) | -- | 1057.4 (790.7–1369.8) | 5.3 (4.2–6.5) | 616.5 (472.1–819.0) |
| Moldova | 7131.3 (6761.9–7727.8) | 110.0 (90.9–127.6) | 3696.4 (3313.7–4391.6) | 771.4 (740.3–808.3) | 581.4 (551.0–616.6) | 86.1 (78.9–93.1) | 106.8 (99.6–115.8) | 211.7 (146.3–296.8) | 947.0 (818.9–1083.9) | 606.3 (500.0–719.0) | 358.7 (282.1–437.8) | 0.4 (0.3–0.5) | 93.0 (75.5–109.4) | 3.3 (2.6–4.2) | 33.3 (26.2–42.4) | 56.4 (43.7–68.2) | 3.1 (2.6–3.7) | 711.5 (544.7–898.5) | -- | 1064.3 (804.6–1388.1) | 9.7 (7.8–12.1) | 794.9 (567.6–1098.3) |
| Latvia | 6611.3 (6279.8–7038.3) | 121.1 (99.3–140.2) | 3285.4 (2955.6–3877.7) | 986.5 (944.3–1035.4) | 784.8 (742.0–833.0) | 90.8 (82.7–98.7) | 115.1 (107.8–122.7) | 71.8 (47.5–105.2) | 648.2 (559.3–748.8) | 413.6 (341.3–499.1) | 242.2 (194.0–298.6) | 0.1 (0.1–0.1) | 165.8 (138.6–195.5) | 2.9 (2.3–3.8) | 62.4 (49.4–77.7) | 100.5 (84.2–118.8) | 3.2 (2.7–3.9) | 693.6 (533.5–871.8) | -- | 1054.1 (797.0–1344.0) | 4.7 (3.9–5.6) | 556.8 (401.9–762.9) |
| Lithuania | 8372.6 (7859.0–9055.7) | 113.0 (93.1–130.2) | 5100.4 (4558.7–5876.7) | 984.1 (936.7–1031.7) | 808.7 (763.4–851.4) | 85.4 (78.3–92.5) | 93.7 (85.9–102.1) | 59.9 (39.2–83.3) | 618.8 (536.1–709.6) | 311.1 (257.5–368.0) | 315.0 (254.5–394.8) | 0.3 (0.2–0.4) | 100.4 (81.9–119.1) | 3.3 (2.6–4.3) | 37.5 (29.6–46.7) | 59.6 (46.8–73.8) | 3.0 (2.5–3.6) | 724.9 (557.5–904.5) | -- | 1017.8 (768.5–1287.5) | 6.5 (5.2–8.1) | 1100.3 (815.7–1502.0) |
| Republic of Moldova | 8326.3 (7763.7–8994.6) | 100.4 (80.9–119.1) | 5657.1 (5002.2–6532.5) | 944.7 (902.8–993.1) | 725.9 (685.6–771.4) | 127.6 (117.9–136.1) | 95.3 (88.1–103.5) | 97.3 (66.7–138.7) | 456.3 (392.3–535.1) | 221.1 (176.9–272.5) | 238.9 (191.9–296.2) | 0.2 (0.1–0.2) | 74.0 (59.9–87.1) | 3.6 (2.8–4.6) | 29.9 (22.5–37.7) | 40.5 (32.5–50.4) | 2.9 (2.4–3.6) | 716.5 (549.2–904.7) | -- | 1057.1 (795.0–1358.5) | 6.7 (5.3–8.3) | 441.2 (335.1–586.6) |
| Russian Federation | 8595.5 (7642.1–9182.1) | 59.9 (32.0–49.2) | 4865.5 (4066.2–5839.7) | 1073.3 (978.9–1177.9) | 842.5 (761.3–941.5) | 101.0 (90.5–113.3) | 132.8 (116.7–154.2) | 42.4 (29.7–59.2) | 652.8 (493.2–619.4) | 254.7 (223.9–351.4) | 265.8 (258.2–296.0) | 0.2 (0.1–0.3) | 152.4 (130.2–173.6) | 4.6 (3.7–5.7) | 82.6 (54.4–77.9) | 65.8 (67.4–101.2) | 2.7 (2.4–3.5) | 746.2 (576.2–941.1) | -- | 1205.7 (909.4–1537.1) | 5.4 (4.5–6.6) | 707.6 (734.0–1339.8) |
| Ukraine | 9098.3 (8246.3–10156.0) | 91.5 (77.7–110.3) | 6538.8 (5473.1–7764.6) | 1118.4 (1013.6–1245.6) | 881.8 (784.2–1004.8) | 124.7 (109.2–141.5) | 116.8 (102.9–135.2) | 37.4 (25.7–50.6) | 418.1 (371.3–465.6) | 200.6 (156.8–252.4) | 220.8 (204.0–238.5) | 0.1 (0.1–0.2) | 117.8 (99.2–133.5) | 4.5 (3.6–5.5) | 61.0 (51.0–72.2) | 52.4 (40.6–66.3) | 2.5 (2.1–3.0) | 690.3 (525.1–866.9) | -- | 1120.7 (842.6–1426.9) | 3.4 (2.7–4.2) | 387.8 (284.7–535.2) |
| **High-income** | **7220.6 (6935.2–7799.0)** | **55.4 (48.9–62.3)** | **2552.2 (2224.6–2814.1)** | **1083.4 (1023.8–1125.3)** | **843.9 (796.8–895.6)** | **137.3 (127.0–147.7)** | **108.6 (98.8–119.4)** | **106.7 (82.7–133.4)** | **744.7 (694.0–806.2)** | **275.2 (238.5–328.3)** | **243.2 (258.6–289.2)** | **0.2 (0.1–0.2)** | **111.8 (99.3–134.7)** | **7.6 (6.2–9.0)** | **13.0 (11.0–15.3)** | **97.4 (79.6–113.0)** | **2.8 (2.2–3.4)** | **825.6 (683.8–989.8)** | -- | **1456.6 (1166.2–1839.1)** | **10.1 (8.7–11.6)** | **1779.5 (1413.7–2222.5)** |
| Australasia | 6105.3 (5640.4–6587.2) | 57.9 (50.6–65.8) | 1709.4 (1544.0–1948.6) | 763.6 (733.1–794.2) | 586.5 (557.8–615.1) | 94.3 (86.4–102.7) | 85.9 (79.1–93.1) | 52.0 (41.7–65.0) | 522.7 (457.6–585.0) | 330.9 (273.1–379.3) | 198.8 (172.6–234.6) | 0.1 (0.1–0.1) | 136.3 (114.0–159.7) | 5.9 (4.8–7.0) | 26.5 (21.5–31.1) | 104.0 (84.3–124.4) | 2.8 (2.3–3.4) | 754.6 (754.2–1246.6) | -- | 997.6 (637.3–1083.5) | 10.9 (9.5–12.7) | 1947.4 (1542.8–2483.8) |
| Australia | 6108.8 (5611.4–6640.2) | 56.3 (49.2–63.2) | 1558.4 (1392.1–1752.3) | 752.3 (723.8–779.3) | 577.6 (550.3–604.7) | 90.7 (83.1–98.4) | 87.0 (81.1–94.9) | 49.1 (44.9–69.3) | 497.7 (417.2–551.9) | 316.0 (258.6–366.5) | 179.6 (149.7–222.2) | 0.1 (0.1–0.1) | 140.1 (116.4–165.0) | 5.5 (4.5–6.5) | 28.2 (22.9–32.3) | 106.5 (85.8–127.5) | 2.9 (2.3–3.5) | 994.5 (746.3–1246.7) | -- | 833.7 (625.4–1065.3) | 11.9 (10.1–13.7) | 2141.0 (1688.4–2756.6) |
| New Zealand | 6096.4 (5728.0–6574.6) | 66.0 (57.8–77.8) | 2538.9 (2163.4–2961.6) | 825.4 (761.5–888.9) | 635.5 (575.2–695.6) | 113.3 (100.0–127.4) | 79.9 (69.9–92.0) | 32.1 (23.0–43.6) | 709.9 (643.1–782.9) | 416.6 (346.4–488.5) | 307.7 (291.7–324.1) | 0.1 (0.1–0.1) | 115.0 (95.1–134.0) | 7.8 (6.2–9.7) | 17.0 (13.9–20.8) | 90.3 (73.1–107.2) | 2.6 (2.1–3.2) | 1016.1 (799.6–1262.3) | -- | 919.0 (696.0–1183.3) | 5.9 (4.8–7.0) | 892.7 (655.0–1185.5) |
| High-income Asia Pacific | 5694.6 (5380.9–6073.3) | 62.5 (55.9–69.5) | 2268.7 (1972.1–2630.7) | 1026.6 (962.0–1077.6) | 698.2 (641.6–762.2) | 185.7 (170.6–201.7) | 151.6 (135.7–170.4) | 56.3 (42.7–74.1) | 664.3 (614.0–722.7) | 254.7 (235.2–334.9) | 398.7 (364.2–419.9) | 0.1 (0.1–0.2) | 88.7 (80.4–109.3) | 3.0 (2.5–3.7) | 4.9 (4.1–6.0) | 78.6 (66.1–94.2) | 2.6 (2.5–3.7) | 464.1 (366.3–570.0) | -- | 878.1 (662.5–1128.2) | 6.7 (5.5–7.8) | 930.8 (727.0–1186.9) |
| Brunei Darussalam | 6634.4 (6179.0–7129.4) | 28.0 (23.4–32.7) | 3646.6 (3153.9–4158.4) | 1105.3 (1059.6–1151.5) | 729.3 (691.5–768.7) | 243.9 (227.2–259.5) | 142.6 (131.5–152.6) | 55.5 (35.4–79.8) | 650.1 (562.5–743.4) | 250.6 (207.6–307.7) | 407.0 (333.0–492.4) | 0.1 (0.1–0.1) | 85.9 (72.0–102.6) | 9.8 (7.8–12.1) | 5.4 (4.3–7.0) | 70.7 (57.0–86.4) | 2.0 (1.6–2.4) | 463.5 (350.0–580.6) | -- | 945.0 (702.2–1203.8) | 3.6 (3.0–4.3) | 464.8 (321.7–625.5) |
| Japan | 5661.2 (5294.8–6115.2) | 21.1 (17.8–25.3) | 2150.3 (1801.5–2579.8) | 1034.0 (956.0–1122.8) | 693.1 (618.2–773.6) | 184.5 (166.5–203.7) | 165.4 (145.5–189.2) | 44.8 (32.9–58.1) | 710.5 (660.8–767.2) | 300.3 (248.1–353.9) | 420.6 (404.4–441.1) | 0.1 (0.1–0.1) | 97.7 (83.8–115.3) | 9.5 (7.5–11.9) | 7.1 (5.8–8.5) | 81.2 (67.5–98.4) | 3.1 (2.5–3.8) | 400.0 (303.8–505.4) | -- | 894.3 (694.9–1142.9) | 6.2 (5.1–7.3) | 1014.2 (790.6–1296.1) |
| Aichi | 5586.4 (5197.0–6051.9) | 17.8 (14.9–21.7) | 1973.7 (1659.3–2369.8) | 1065.9 (972.3–1154.4) | 713.5 (627.7–798.6) | 189.9 (168.9–210.8) | 172.1 (149.8–195.7) | 45.7 (33.0–59.0) | 737.6 (526.1–627.0) | 244.3 (200.9–293.5) | 315.9 (317.6–357.6) | 0.1 (0.1–0.1) | 9.6 (6.4–9.5) | 9.2 (7.7–12.2) | 7.8 (6.4–9.5) | 92.4 (77.4–110.8) | 2.8 (2.3–3.5) | 412.3 (314.4–513.8) | -- | 894.5 (675.6–1139.4) | 7.2 (5.8–8.6) | 1178.8 (892.6–1544.1) |
| Akita | 5397.6 (5018.6–5836.6) | 18.1 (15.2–21.9) | 1772.7 (1470.7–2139.5) | 952.3 (881.6–1031.1) | 626.7 (558.9–702.6) | 189.4 (170.3–213.1) | 144.2 (126.4–164.0) | 41.4 (29.9–54.0) | 768.7 (710.6–825.2) | 310.0 (256.1–369.2) | 470.2 (448.7–496.1) | 0.1 (0.1–0.1) | 95.7 (82.0–113.7) | 10.4 (8.2–12.8) | 7.4 (6.0–8.9) | 78.0 (64.2–95.1) | 2.7 (2.2–3.2) | 400.6 (304.6–505.6) | -- | 888.9 (663.6–1141.7) | 5.8 (4.6–6.8) | 1115.0 (863.7–1434.3) |
| Aomori | 5554.7 (5171.3–6013.6) | 19.4 (16.2–23.1) | 2090.0 (1734.6–2503.1) | 1181.7 (1097.3–1290.1) | 789.8 (708.6–890.1) | 219.8 (195.5–246.3) | 183.7 (160.0–209.8) | 51.1 (30.4–53.0) | 930.4 (502.5–601.6) | 276.8 (226.4–329.0) | 479.8 (260.1–298.5) | 0.1 (0.1–0.1) | 99.9 (80.2–110.0) | 9.9 (7.9–12.3) | 6.5 (5.3–7.8) | 82.3 (63.7–93.3) | 2.7 (2.2–3.3) | 401.2 (306.3–506.6) | -- | 893.8 (674.6–1131.9) | 5.5 (4.5–6.6) | 949.7 (738.6–1205.1) |
| Chiba | 5825.8 (5438.1–6270.3) | 18.1 (15.2–21.9) | 2412.4 (2000.4–2902.5) | 1082.7 (986.9–1176.6) | 730.6 (641.4–822.0) | 193.5 (173.6–217.6) | 168.3 (147.0–192.2) | 56.4 (42.1–72.3) | 692.8 (643.9–746.2) | 289.5 (239.2–342.9) | 412.9 (392.2–433.6) | 0.1 (0.1–0.1) | 96.7 (81.2–112.1) | 9.1 (7.1–11.2) | 7.5 (6.1–9.0) | 80.1 (64.3–96.0) | 3.1 (2.5–3.8) | 409.7 (312.5–515.2) | -- | 894.1 (665.9–1147.9) | 6.6 (5.3–7.9) | 912.

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Miyazaki | 5751.4 (5374.5–6227.2) | 23.9 (20.3–28.4) | 2169.4 (1820.7–2598.1) | 891.5 (824.1–983.6) | 575.9 (516.3–658.2) | 167.5 (149.6–188.6) | 155.4 (135.2–179.1) | 41.8 (30.6–56.1) | 1039.1 (969.0–1116.7) | 385.8 (319.8–457.0) | 674.4 (642.5–704.3) | 0.1 (0.1–0.1) | 93.1 (79.4–111.4) | 8.9 (7.1–11.0) | 8.1 (6.5–9.9) | 76.1 (62.9–93.5) | 2.9 (2.4–3.6) | 401.1 (306.3–505.2) | -- | 883.0 (663.1–1139.8) | 6.2 (5.0–7.4) | 973.7 (747.0–1263.2) |
| Nagano | 5591.2 (5177.6–6040.6) | 18.4 (15.4–22.3) | 1919.4 (1587.3–2286.5) | 1038.7 (943.1–1135.5) | 697.8 (617.0–789.8) | 179.5 (161.1–198.6) | 170.9 (151.1–195.8) | 47.1 (35.1–61.3) | 768.5 (707.3–831.1) | 329.4 (269.6–391.4) | 451.1 (428.0–476.6) | 0.1 (0.1–0.1) | 103.6 (88.3–120.7) | 10.0 (8.0–12.5) | 7.5 (6.0–9.0) | 86.1 (71.1–102.1) | 3.3 (2.8–4.1) | 409.6 (311.5–520.2) | -- | 885.6 (658.3–1135.5) | 6.8 (5.5–8.1) | 1113.9 (842.4–1415.1) |
| Nagasaki | 5213.4 (4865.0–5656.3) | 17.7 (14.7–21.9) | 1792.6 (1482.2–2187.9) | 961.1 (879.9–1050.9) | 651.4 (582.2–732.0) | 164.5 (147.6–184.3) | 153.1 (134.3–173.4) | 43.1 (31.6–56.6) | 712.3 (663.7–759.0) | 269.0 (219.0–317.9) | 453.1 (433.3–474.8) | 0.1 (0.1–0.1) | 85.3 (72.3–100.0) | 9.8 (7.8–12.0) | 5.2 (4.1–6.6) | 70.4 (57.3–84.6) | 2.9 (2.4–3.6) | 400.5 (302.5–501.7) | -- | 887.4 (662.5–1130.6) | 5.5 (4.4–6.5) | 945.3 (720.5–1244.5) |
| Nara | 5156.9 (4795.9–5553.4) | 17.2 (14.4–20.9) | 1731.7 (1424.5–2081.4) | 927.4 (854.8–1014.3) | 633.0 (571.6–708.9) | 149.4 (135.3–166.1) | 152.2 (134.6–174.8) | 43.2 (31.4–56.7) | 778.1 (725.4–836.1) | 315.9 (258.7–372.2) | 474.2 (455.0–498.5) | 0.1 (0.1–0.1) | 89.5 (76.1–104.8) | 9.2 (7.3–11.5) | 6.5 (5.3–8.0) | 72.8 (60.3–88.9) | 3.4 (2.8–4.1) | 401.7 (301.9–502.0) | -- | 897.0 (669.4–1131.2) | 6.7 (5.3–8.0) | 981.8 (678.9–1173.4) |
| Niigata | 5737.4 (5376.4–6172.1) | 25.7 (21.9–30.6) | 1937.0 (1598.1–2328.0) | 1139.3 (1031.2–1240.1) | 762.0 (673.0–860.4) | 205.8 (185.1–227.6) | 182.7 (161.8–208.3) | 50.3 (36.9–65.1) | 889.4 (821.6–959.5) | 350.3 (287.6–419.5) | 554.3 (530.4–580.9) | 0.1 (0.1–0.1) | 101.7 (77.7–122.2) | 9.8 (6.1–9.2) | 7.5 (6.1–9.2) | 84.4 (69.1–101.1) | 3.3 (2.8–4.1) | 496.0 (380.1–628.4) | -- | 875.0 (652.0–1126.4) | 6.8 (5.5–8.2) | 993.6 (756.5–1278.0) |
| Oita | 5361.0 (5000.3–5822.1) | 17.5 (14.4–21.2) | 2005.6 (1651.4–2399.7) | 922.0 (847.4–1046.9) | 622.3 (554.3–710.7) | 162.7 (145.0–181.3) | 144.3 (126.3–164.2) | 43.0 (31.4–56.7) | 765.0 (719.6–823.6) | 293.5 (245.1–349.3) | 483.0 (458.5–508.1) | 0.1 (0.1–0.1) | 91.9 (77.4–106.7) | 10.7 (8.5–13.3) | 6.5 (5.2–8.0) | 74.6 (60.4–89.4) | 3.2 (2.7–3.9) | 403.9 (307.3–510.4) | -- | 887.7 (656.9–1134.0) | 6.3 (5.1–7.6) | 881.1 (670.0–1155.1) |
| Okayama | 5399.7 (5016.6–5854.5) | 26.2 (22.3–31.2) | 2090.2 (1732.6–2482.3) | 972.5 (888.7–1066.4) | 651.6 (572.6–742.7) | 172.7 (153.1–194.1) | 156.3 (137.3–178.0) | 35.9 (25.6–47.6) | 717.6 (664.7–778.3) | 294.0 (239.2–352.7) | 433.8 (411.0–457.9) | 0.1 (0.1–0.1) | 89.2 (75.5–105.9) | 9.2 (7.4–11.5) | 6.8 (5.4–8.3) | 73.2 (59.9–89.2) | 3.3 (2.7–4.0) | 349.1 (256.8–449.1) | -- | 890.8 (672.0–1153.8) | 5.2 (4.3–6.2) | 881.6 (670.0–1154.8) |
| Okinawa | 5866.1 (5452.9–6415.5) | 23.3 (19.7–27.7) | 2112.7 (1754.6–2534.7) | 946.2 (853.4–1040.6) | 610.0 (526.6–697.7) | 201.7 (179.5–224.5) | 142.3 (124.4–163.4) | 39.4 (28.5–52.2) | 714.9 (654.4–776.3) | 354.6 (295.4–420.9) | 371.0 (352.9–392.1) | 0.1 (0.1–0.2) | 89.0 (76.9–101.6) | 10.7 (8.5–13.2) | 11.7 (9.4–14.3) | 89.0 (74.0–108.0) | 2.8 (2.3–3.5) | 408.6 (314.1–511.3) | -- | 891.4 (663.4–1138.0) | 7.4 (5.9–8.8) | 1340.2 (1060.5–1734.6) |
| Osaka | 5453.0 (5087.0–5906.7) | 24.7 (20.9–29.3) | 2298.9 (1915.4–2789.7) | 967.0 (882.3–1066.9) | 662.3 (587.0–760.7) | 159.5 (144.5–176.9) | 152.7 (133.3–173.8) | 51.5 (38.2–67.7) | 637.2 (590.9–695.6) | 274.6 (228.6–323.6) | 370.9 (353.6–394.2) | 0.1 (0.04–0.1) | 91.8 (77.1–108.2) | 8.4 (6.6–10.5) | 7.1 (5.7–8.6) | 76.3 (62.6–91.4) | 2.8 (2.3–3.3) | 397.9 (301.2–502.6) | -- | 892.5 (656.8–1131.9) | 4.8 (3.9–5.8) | 737.3 (568.5–953.0) |
| Saga | 5311.3 (4976.2–5725.8) | 22.3 (18.9–27.1) | 1761.4 (1453.0–2151.4) | 929.2 (853.5–1012.5) | 620.2 (554.6–698.8) | 166.5 (148.4–185.5) | 149.9 (131.2–172.1) | 52.5 (39.2–68.7) | 769.4 (716.4–832.8) | 303.5 (250.3–363.7) | 477.2 (454.1–502.6) | 0.1 (0.1–0.1) | 85.9 (71.8–103.1) | 10.1 (8.0–12.5) | 6.2 (5.0–7.7) | 69.6 (56.8–86.1) | 3.0 (2.5–3.7) | 403.2 (301.2–513.7) | -- | 887.1 (659.1–1145.6) | 5.5 (4.4–6.5) | 1048.7 (803.4–1356.5) |
| Saitama | 6069.8 (5666.2–6574.0) | 20.8 (17.6–25.0) | 2461.9 (2028.1–2970.5) | 1102.5 (1004.9–1198.0) | 737.6 (647.3–830.5) | 194.3 (171.9–215.7) | 180.9 (158.5–208.2) | 41.8 (29.6–54.2) | 847.3 (789.7–914.8) | 338.6 (283.1–401.0) | 522.9 (491.1–548.3) | 0.1 (0.1–0.1) | 103.0 (86.9–120.0) | 9.5 (7.5–12.0) | 8.7 (5.3–7.9) | 87.0 (71.6–103.5) | 3.2 (2.6–3.9) | 408.7 (311.9–513.9) | -- | 892.0 (665.1–1145.9) | 6.8 (5.5–8.2) | 968.3 (760.7–1292.6) |
| Shiga | 5761.9 (5368.8–6223.7) | 20.5 (17.4–24.5) | 2194.8 (1856.2–2640.0) | 948.3 (857.0–1043.6) | 628.9 (548.4–719.7) | 177.2 (159.0–197.4) | 149.9 (132.2–171.4) | 49.1 (36.2–64.1) | 841.0 (786.5–905.0) | 321.6 (263.6–379.6) | 533.2 (507.3–560.8) | 0.1 (0.1–0.2) | 96.8 (82.2–113.6) | 10.1 (8.1–12.6) | 7.0 (5.7–8.6) | 79.6 (65.3–95.3) | 3.4 (2.8–4.1) | 409.9 (308.4–515.1) | -- | 893.8 (668.0–1134.6) | 7.1 (5.7–8.4) | 1059.7 (806.7–1368.8) |
| Shimane | 5162.1 (4833.6–5548.2) | 16.5 (13.6–20.9) | 1756.3 (1452.1–2121.4) | 983.1 (901.9–1081.8) | 648.5 (589.2–757.8) | 173.7 (151.1–171.5) | 148.5 (131.1–171.5) | 37.3 (26.4–49.0) | 772.0 (720.8–831.1) | 295.6 (245.3–348.0) | 457.9 (465.0–512.5) | 0.1 (0.05–0.1) | 82.2 (74.4–115.5) | 9.3 (5.2–8.0) | 6.5 (5.4–8.1) | 66.4 (54.0–81.4) | 3.3 (2.6–4.0) | 407.2 (311.1–516.0) | -- | 892.5 (666.2–1124.1) | 5.6 (4.5–6.7) | 821.5 (643.4–1113.7) |
| Shizuoka | 5754.6 (5373.2–6202.3) | 19.9 (16.7–24.0) | 2026.0 (1688.4–2470.2) | 1118.7 (1030.0–1212.1) | 743.7 (666.9–828.5) | 217.3 (194.4–243.1) | 168.6 (147.6–190.6) | 52.9 (39.2–69.1) | 721.5 (669.8–781.6) | 310.7 (258.0–368.4) | 421.4 (401.6–444.6) | 0.1 (0.1–0.2) | 112.7 (95.3–129.7) | 10.3 (8.2–12.8) | 8.1 (6.6–9.9) | 94.4 (76.9–111.1) | 3.2 (2.6–3.9) | 411.1 (311.4–514.9) | -- | 893.8 (668.1–1128.1) | 7.4 (5.9–8.9) | 1130.4 (876.2–1468.2) |
| Tochigi | 6152.0 (5740.0–6642.4) | 25.4 (21.6–30.7) | 2557.1 (2134.2–3074.9) | 1132.5 (1036.4–1239.7) | 747.8 (663.9–841.5) | 208.4 (185.3–232.8) | 187.3 (164.1–215.8) | 41.5 (30.2–55.5) | 890.2 (822.2–958.7) | 354.8 (293.7–424.5) | 551.2 (525.6–578.5) | 0.1 (0.05–0.1) | 95.5 (81.8–112.6) | 9.8 (7.8–12.2) | 6.4 (5.1–7.8) | 79.2 (64.2–95.6) | 2.8 (2.3–3.4) | 379.4 (293.7–475.9) | -- | 890.6 (664.8–1157.6) | 7.1 (5.7–8.4) | 960.5 (743.7–1244.7) |
| Tokushima | 5842.4 (5428.0–6319.8) | 22.1 (18.8–26.3) | 2226.4 (1859.9–2637.8) | 1030.4 (938.9–1122.0) | 704.1 (622.0–789.6) | 176.1 (157.7–196.7) | 158.9 (140.4–182.5) | 43.1 (32.1–56.3) | 752.9 (694.7–822.6) | 350.2 (286.5–415.7) | 414.1 (394.8–437.6) | 0.1 (0.1–0.2) | 92.8 (79.1–109.2) | 9.1 (7.3–11.2) | 7.7 (6.4–9.3) | 75.9 (63.1–92.5) | 2.7 (2.2–3.3) | 406.0 (308.8–514.8) | -- | 888.9 (669.9–1131.1) | 6.0 (4.8–7.2) | 1132.9 (878.8–1455.1) |
| Tokyo | 5795.1 (5381.9–6273.5) | 29.0 (24.7–34.7) | 2245.0 (1866.4–2732.4) | 997.3 (923.7–1098.1) | 659.1 (593.7–757.9) | 178.2 (157.8–198.1) | 168.6 (149.7–194.9) | 36.7 (26.8–48.4) | 830.6 (774.9–888.5) | 323.5 (272.9–383.9) | 520.7 (491.7–547.3) | 0.1 (0.1–0.1) | 88.8 (74.2–104.8) | 9.8 (7.8–12.3) | 5.5 (4.5–6.6) | 73.5 (59.5–88.9) | 3.3 (2.7–4.0) | 342.4 (254.5–444.9) | -- | 907.7 (683.4–1147.7) | 6.1 (4.9–7.3) | 1045.5 (794.7–1349.1) |
| Tottori | 5129.2 (4779.4–5498.5) | 17.6 (14.8–21.8) | 1840.7 (1529.2–2209.1) | 958.3 (865.5–1050.4) | 644.5 (560.9–727.4) | 168.3 (152.3–187.0) | 153.5 (135.4–175.2) | 33.1 (23.1–44.2) | 703.7 (646.7–768.7) | 323.8 (267.1–385.5) | 390.2 (371.4–411.9) | 0.1 (0.1–0.1) | 78.2 (65.5–92.1) | 9.9 (7.9–12.5) | 5.7 (4.5–7.0) | 62.6 (50.8–76.9) | 2.9 (2.4–3.6) | 402.3 (301.8–509.4) | -- | 891.2 (662.7–1161.4) | 5.8 (4.6–7.0) | 807.3 (605.5–1067.6) |
| Toyama | 5251.3 (4900.3–5677.5) | 17.9 (15.1–21.7) | 1848.1 (1538.9–2199.8) | 1046.3 (952.9–1135.9) | 715.7 (632.7–797.6) | 178.1 (158.9–200.0) | 161.3 (140.0–186.1) | 42.9 (31.2–55.8) | 516.4 (472.4–567.2) | 240.7 (191.6–288.2) | 281.0 (261.2–300.8) | 0.1 (0.05–0.1) | 91.8 (78.3–107.0) | 10.2 (8.1–12.7) | 6.7 (5.4–8.2) | 74.8 (61.5–89.1) | 3.2 (2.7–3.9) | 402.3 (306.2–508.5) | -- | 889.5 (672.9–1147.8) | 5.0 (4.0–5.9) | 1011.7 (783.5–1307.7) |
| Yamagata | 5425.5 (5041.0–5890.8) | 17.0 (13.9–20.7) | 2121.1 (1756.8–2640.9) | 1004.8 (924.0–1115.7) | 701.6 (624.8–806.6) | 167.6 (150.0–184.8) | 143.7 (125.9–164.9) | 39.3 (28.5–52.3) | 628.9 (571.1–678.1) | 268.4 (216.8–320.7) | 361.5 (343.1–383.2) | 0.1 (0.1–0.1) | 90.5 (82.5–114.2) | 9.4 (7.5–11.9) | 7.8 (6.3–9.5) | 80.5 (66.9–96.0) | 2.8 (2.3–3.4) | 402.7 (309.5–512.1) | -- | 888.5 (659.3–1136.8) | 5.5 (4.5–6.6) | 977.3 (662.6–1122.0) |
| Yamagata | 5796.3 (5414.4–6279.0) | 22.0 (18.5–26.3) | 2164.7 (1781.1–2656.1) | 1120.7 (1025.5–1222.2) | 780.5 (692.6–871.4) | 181.8 (162.7–201.2) | 168.5 (147.6–194.3) | 39.4 (28.1–51.5) | 809.4 (753.3–875.5) | 308.6 (257.0–371.0) | 513.6 (490.6–538.0) | 0.1 (0.1–0.1) | 96.9 (82.5–113.0) | 8.4 (6.7–10.4) | 7.4 (6.0–8.8) | 81.2 (67.1–96.7) | 3.1 (2.6–3.8) | 402.8 (302.1–509.6) | -- | 859.7 (650.0–1088.4) | 5.9 (4.8–6.9) | 1023.3 (798.9–1334.4) |
| Yamaguchi | 5721.7 (5331.0–6169.1) | 18.9 (15.8–22.9) | 2148.8 (1795.7–2519.1) | 1054.4 (965.9–1141.4) | 714.9 (634.6–792.7) | 168.1 (162.9–204.9) | 180.7 (147.3–193.5) | 44.1 (32.4–57.1) | 772.0 (726.1–853.7) | 295.6 (294.8–427.7) | 464.6 (422.4–467.4) | 0.1 (0.1–0.2) | 104.6 (77.4–107.1) | 10.6 (8.6–13.4) | 6.4 (5.2–7.9) | 73.6 (60.3–88.9) | 2.9 (2.4–3.6) | 406.1 (309.9–507.0) | -- | 888.0 (666.8–1149.7) | 6.1 (5.0–7.2) | 1011.3 (771.2–1335.7) |
| Yamanashi | 5163.8 (4801.6–5598.7) | 17.3 (14.2–21.3) | 1827.4 (1513.0–2203.8) | 906.1 (831.0–987.5) | 599.3 (532.0–669.2) | 154.6 (138.3–171.8) | 159.5 (140.2–181.9) | 34.2 (24.6–46.0) | 737.0 (679.3–799.6) | 311.5 (255.4–368.1) | 436.4 (418.1–458.5) | 0.1 (0.05–0.1) | 86.1 (72.6–99.8) | 10.2 (8.2–12.7) | 7.3 (5.9–9.1) | 68.6 (56.1–82.1) | 3.2 (2.6–3.8) | 411.6 (314.0–515.3) | -- | 888.4 (670.7–1130.9) | 6.4 (5.1–7.7) | 873.2 (657.2–1144.1) |
| Yemen | 6419.4 (5993.0–6910.1) | 19.6 (16.7–23.0) | 3581.6 (3113.1–4140.5) | 1189.6 (1162.9–1234.4) | 852.5 (828.2–876.5) | 256.0 (245.9–266.4) | 95.7 (89.1–103.3) | 113.4 (87.4–148.1) | 510.5 (440.2–594.7) | 208.1 (171.1–247.9) | 306.5 (251.2–381.8) | 0.1 (0.1–0.1) | 61.6 (52.4–71.6) | 22.9 (17.9–28.9) | 0.9 (0.7–1.1) | 37.9 (30.0–45.7) | 2.3 (1.8–2.7) | 443.7 (336.1–554.2) | -- | 824.8 (621.2–1043.6) | 5.7 (4.8–6.6) | 497.6 (384.3–638.6) |
| Zambia | 5737.5 (5349.1–6148.4) | 25.9 (22.8–29.2) | 2514.7 (2092.4–2900.6) | 986.3 (945.6–1025.7) | 684.7 (647.1–718.0) | 187.3 (176.4–198.6) | 122.4 (114.3–131.0) | 95.4 (70.9–124.6) | 496.9 (430.1–574.6) | 226.3 (189.8–269.1) | 274.6 (218.4–341.8) | 0.3 (0.2–0.3) | 86.5 (72.2–103.4) | 8.9 (7.0–11.1) | 0.9 (0.7–1.1) | 76.7 (62.8–93.9) | 2.9 (2.4–3.6) | 641.2 (530.1–755.9) | -- | 821.6 (621.2–1056.5) | 7.7 (6.5–9.0) | 787.9 (591.9–1008.0) |
| Republic of Korea | 8632.0 (8252.3–9143.4) | 116.4 (102.5–133.5) | 3044.5 (2714.8–3443.8) | 1438.4 (1313.8–1522.7) | 1211.0 (1131.1–1297.3) | 138.1 (126.9–149.7) | 96.5 (87.4–108.3) | 150.6 (120.1–184.9) | 914.2 (842.7–985.1) | 400.8 (330.2–468.6) | 533.2 (503.3–564.6) | 0.2 (0.2–0.2) | 147.5 (125.0–170.0) | 8.8 (7.2–10.3) | 17.6 (15.0–21.0) | 121.2 (99.5–143.2) | 1.7 (1.4–2.1) | 1153.1 (937.8–1354.4) | -- | 1830.2 (1484.0–2203.9) | 8.5 (6.8–10.4) | 1842.8 (1479.3–2353.2) |
| High-income North America | 8629.0 (7979.7–9286.8) | 122.8 (104.3–146.7) | 2956.5 (2630.7–3573.6) | 1108.6 (1066.3–1143.3) | 865.8 (826.2–898.4) | 132.6 (124.1–141.1) | 116.8 (108.9–125.0) | 93.7 (74.6–117.9) | 735.0 (635.8–839.0) | 332.1 (270.3–393.9) | 415.4 (337.3–506.6) | 0.2 (0.1–0.2) | 118.9 (101.7–135.8) | 9.3 (7.7–10.9) | 23.5 (19.0–28.6) | 86.1 (71.0–100.7) | 1.8 (1.5–2.2) | 796.4 (606.2–1014.1) | -- | 1810.7 (1382.2–2292.5) | 11.0 (9.3–12.8) | 2681.7 (2135.7–3377.3) |
| Canada | 7513.3 (7033.5–8057.4) | 130.9 (106.2–152.1) | 3018.3 (2564.6–3512.3) | 1354.8 (1301.5–1410.9) | 1079.3 (1032.3–1134.0) | 155.7 (144.8–166.7) | 128.8 (119.4–139.6) | 83.0 (64.1–106.5) | 886.6 (778.2–1011.1) | 301.3 (248.0–360.5) | 601.8 (501.2–712.3) | 0.1 (0.05–0.1) | 163.9 (135.7–192.6) | 6.7 (5.5–7.8) | 10.7 (8.4–13.5) | 146.5 (120.4–173.3) | 1.3 (1.1–1.6) | 923.2 (694.3–1169.6) | -- | 1889.2 (1428.4–2430.3) | 3.0 (2.2–3.7) | 648.8 (478.4–862.5) |
| Greenland | 8033.8 (8238.3–9157.3) | 115.5 (100.9–133.3) | 3051.7 (2679.8–3460.4) | 1479.1 (1387.6–1569.7) | 1252.8 (1167.7–1341.6) | 138.6 (127.0–151.0) | 94.0 (84.0–106.2) | 157.4 (123.9–193.8) | 938.2 (864.5–1010.7) | 409.8 (334.9–483.0) | 548.2 (525.1–576.9) | 0.2 (0.1–0.2) | 159.5 (126.5–174.1) | 8.7 (7.2–10.2) | 19.9 (14.2–20.1) | 124.9 (103.1–148.5) | 1.7 (1.4–2.1) | 1199.1 (1062.1–1375.0) | -- | 1631.6 (1496.4–2198.7) | 8.2 (6.4–10.2) | 1741.5 (1367.6–2249.2) |
| United States of America | 9930.7 (9468.4–10498.4) | 100.5 (88.0–115.6) | 3939.8 (3471.4–4507.3) | 2287.4 (2138.4–2442.7) | 2002.0 (1859.4–2156.9) | 185.6 (167.7–203.3) | 113.5 (100.9–127.8) | 185.1 (146.4–226.7) | 838.3 (768.9–907.9) | 373.0 (303.4–442.0) | 481.1 (454.0–515.8) | 0.1 (0.1–0.1) | 160.6 (135.2–189.3) | 8.2 (6.7–9.6) | 20.4 (17.0–24.4) | 132.0 (107.3–158.6) | 1.7 (1.4–2.1) | 1191.3 (1041.3–1356.3) | -- | 1633.7 (1323.8–1990.7) | 7.9 (6.2–10.0) | 1852.5 (1485.5–2390.6) |
| Alabama | 7282.0 (6979.6–7916.0) | 85.8 (74.0–103.9) | 2452.6 (2085.2–2753.4) | 1264.4 (1115.3–1313.0) | 1034.3 (918.9–1125.6) | 154.3 (107.6–132.7) | 82.4 (73.0–95.0) | 120.2 (88.6–154.3) | 721.3 (630.3–810.8) | 399.1 (302.7–491.9) | 533.7 (304.4–367.0) | 0.8 (0.6–1.0) | 124.3 (103.2–147.9) | 10.5 (8.5–12.8) | 87.4 (21.7–31.9) | 106.5 (69.2–107.5) | 1.6 (1.3–2.0) | 1074.7 (935.3–1244.7) | 1.6 (--) | 1469.8 (1095.3–1900.0) | 8.6 (6.8–10.9) | 1602.1 (1244.5–2074.9) |
| Alaska | 8158.4 (7797.4–8638.3) | 106.8 (92.9–122.9) | 2786.2 (2462.1–3179.6) | 1316.2 (1225.7–1429.9) | 1101.4 (1014.9–1213.1) | 129.4 (116.4–143.0) | 91.3 (81.7–104.2) | 138.7 (106.5–173.8) | 978.7 (912.4–1050.9) | 428.5 (353.7–501.2) | 572.6 (542.5–607.3) | 0.1 (0.1–0.2) | 123.7 (101.7–144.0) | 8.2 (6.7–9.9) | 13.0 (10.7–16.0) | 102.5 (80.7–122.7) | 1.9 (1.5–2.3) | 1184.3 (1038.8–1351.6) | -- | 1869.1 (1529.2–2220.1) | 7.5 (5.8–9.3) | 1483.9 (1158.2–1938.4) |
| Arizona | 9122.2 (8681.5–9662.7) | 82.5 (72.9–94.9) | 3509.9 (3126.8–3982.1) | 1915.6 (1786.6–2053.3) | 1644.2 (1522.1–1767.2) | 171.4 (154.9–188.9) | 111.1 (98.8–124.7) | 174.8 (139.8–215.6) | 722.4 (657.8–782.4) | 310.3 (246.6–367.1) | 423.6 (394.3–452.0) | 0.1 (0.1–0.2) | 127.1 (106.2–151.2) | 7.5 (6.1–8.9) | 13.9 (11.5–17.0) | 105.7 (85.9–124.1) | 1.5 (1.2–1.9) | 1117.5 (977.8–1275.6) | -- | 1581.9 (1288.9–1920.2) | 7.5 (6.1–9.4) | 1787.5 (1409.1–2328.7) |
| California | 7522.4 (7135.0–7955.3) | 106.6 (93.0–122.7) | 2684.2 (2348.7–3074.8) | 1278.4 (1199.8–1358.6) | 1064.0 (990.5–1143.9) | 137.1 (125.3–151.0) | 83.4 (74.8–94.2) | 136.7 (106.6–173.0) | 897.3 (822.3–970.5) | 392.4 (319.2–461.2) | 523.9 (497.5–552.4) | 0.1 (0.1–0.2) | 145.1 (121.1–170.7) | 8.6 (7.0–10.3) | 16.9 (14.2–20.3) | 119.7 (97.7–143.5) | 1.9 (1.6–2.4) | 1095.6 (971.8–1247.4) | -- | 1540.6 (1245.2–1837.6) | 5.7 (4.5–7.2) | 1291.9 (992.5–1667.2) |
| Colorado | 7484.3 (7082.6–7993.5) | 98.7 (86.8–113.3) | 2188.4 (1931.8–2482.1) | 1120.7 (1050.9–1188.2) | 903.3 (837.4–973.9) | 126.2 (113.8–139.6) | 96.0 (85.1–110.7) | 127.8 (99.3–161.0) | 780.4 (714.7–853.3) | 360.0 (294.4–426.5) | 434.7 (409.4–467.2) | 0.2 (0.1–0.1) | 103.7 (85.5–122.7) | 9.0 (7.3–10.7) | 12.4 (10.2–14.9) | 82.4 (65.0–100.6) | 1.9 (1.5–2.3) | 1014.4 (884.9–1174.0) | -- | 1283.7 (1036.3–1570.5) | 9.1 (7.1–11.3) | 2284.6 (1839.6–2875.7) |
| Connecticut | 8067.8 (7686.8–8554.3) | 110.3 (96.8–127.4) | 2807.0 (2457.7–3218.1) | 1128.2 (1055.7–1196.2) | 928.0 (861.6–993.7) | 117.0 (105.4–128.6) | 87.8 (77.8–100.9) | 115.9 (88.4–147.6) | 1062.7 (987.6–1145.7) | 445.1 (363.3–519.8) | 644.3 (610.0–682.0) | 0.1 (0.1–0.1) | 143.2 (119.4–170.2) | 8.3 (6.8–9.7) | 15.4 (12.6–18.2) | 119.6 (97.3–146.7) | 1.7 (1.4–2.2) | 1309.3 (1152.2–1481.5) | -- | 1706.5 (1394.9–2041.9) | 7.5 (5.9–9.2) | 1582.2 (1220.7–2028.0) |
| Delaware | 9231.2 (8791.0–9794.4) | 79.1 (68.9–92.6) | 3037.7 (2677.0–3504.0) | 1679.4 (1575.9–1781.3) | 1428.3 (1318.2–1551.9) | 150.0 (135.0–163.9) | 110.8 (98.1–124.8) | 163.0 (129.9–203.5) | 1037.9 (963.0–1123.7) | 461.3 (378.3–540.4) | 601.3 (573.7–636.8) | 0.4 (0.3–0.5) | 169.2 (135.0–197.2) | 8.5 (7.0–9.8) | 21.6 (17.7–25.5) | 139.2 (113.3–166.3) | 1.5 (1.2–1.8) | 1300.7 (1142.7–1472.9) | -- | 2294.2 (1864.0–2737.7) | 8.4 (6.6–10.6) | 1851.3 (1426.0–2399.2) |
| Delaware | 9211.2 (8787.6–9725.1) | 139.5 (121.1–162.0) | 3530.4 (3124.3–3998.7) | 1463.2 (1359.3–1576.8) | 1259.4 (1162.2–1372.5) | 122.6 (111.1–135.3) | 88.0 (79.5–98.3) | 144.1 (112.9–179.4) | 1155.6 (1075.8–1237.7) | 467.2 (382.8–543.5) | 718.8 (682.3–755.9) | 0.1 (0.1–0.2) | 162.6 (137.9–193.1) | 8.4 (7.0–9.8) | 19.5 (15.9–23.5) | 134.8 (112.0–164.3) | 2.0 (1.6–2.5) | 1281.5 (1119.8–1482.3) | -- | 2216.4 (1813.9–2647.8) | 8.4 (6.5–10.7) | 1457.3 (1119.7–1907.4) |
| Georgia | 8611.0 (8214.8–9199.5) | 90.0 (79.3–103.5) | 2839.8 (2540.3–3256.3) | 1652.7 (1523.0–1762.6) | 1429.6 (1307.2–1544.5) | 146.2 (132.9–162.9) | 84.7 (75.5–97.1) | 208.5 (169.0–256.7) | 900.0 (829.3–967.8) | 391.6 (320.8–464.8) | 527.0 (500.4–555.8) | 0.2 (0.1–0.3) | 159.3 (133.1–185.4) | 7.7 (6.4–9.1) | 19.1 (16.0–22.9) | 132.5 (108.0–158.4) | 1.4 (1.2–1.8) | 1163.4 (1014.9–1324.0) | -- | 1711.7 (1389.9–2043.3) | 7.7 (6.0–9.6) | 1762.4 (1379.4–2294.9) |
| Hawaii | 7559.3 (7138.5–8099.8) | 116.0 (98.4–136.4) | 2575.3 (2250.3–2959.4) | 1366.2 (1282.4–1449.4) | 1115.2 (1029.3–1198.8) | 166.1 (152.0–182.7) | 92.1 (82.8–104.1) | 123.8 (90.2–158.4) | 839.0 (768.8–918.2) | 349.0 (275.7–422.5) | 505.9 (479.1–538.6) | 0.1 (0.1–0.2) | 174.2 (143.8–210.4) | 8.1 (6.5–9.7) | 20.4 (22.0–33.5) | 139.8 (114.0–171.9) | 1.9 (1.5–2.3) | 1002.2 (870.9–1148.4) | -- | 1452.7 (1124.2–1836.0) | 6.1 (4.8–7.5) | 1394.5 (1060.0–1813.7) |
| Idaho | 7726.4 (7312.3–8241.0) | 125.2 (107.7–148.1) | 2637.3 (2279.8–3052.8) | 1208.3 (1127.8–1285.5) | 998.5 (921.7–1073.9) | 123.5 (112.1–138.7) | 91.4 (79.9–105.3) | 114.4 (85.6–147.7) | 834.1 (758.5–909.2) | 385.2 (312.2–452.8) | 464.8 (435.9–490.6) | 0.4 (0.3–0.5) | 116.0 (96.9–135.7) | 8.6 (7.0–10.5) | 14.2 (11.7–16.7) | 93.2 (74.5–112.7) | 1.8 (1.4–2.2) | 1122.1 (982.5–1264.2) | -- | 1234.4 (948.5–1603.7) | 9.4 (7.5–11.8) | 1917.2 (1465.0–2454.8) |
| Illinois | 8618.2 (8196.3–9193.6) | 111.5 (97.7–128.4) | 3101.5 (2676.6–3555.1) | 1455.1 (1361.8–1551.5) | 1228.6 (1141.6–1318.5) | 138.5 (126.6–152.9) | 95.1 (84.9–108.7) | 185.6 (136.3–233.5) | 807.1 (738.9–878.0) | 369.2 (302.5–435.9) | 452.8 (427.1–479.9) | 0.1 (0.1–0.2) | 172.7 (145.0–204.3) | 8.1 (6.8–9.5) | 17.6 (14.4–21.0) | 147.0 (120.1–177.5) | 1.6 (1.3–1.9) | 1165.5 (1023.8–1349.1) | -- | 1785.1 (1437.8–2126.1) | 7.5 (5.8–9.4) | 1862.9 (1412.3–2412.4) |
| Indiana | 9214.7 (8744.3–9776.2) | 124.7 (109.6–143.4) | 3311.5 (2895.0–3821.9) | 1628.9 (1518.4–1737.5) | 1410.9 (1310.0–1509.7) | 135.0 (123.3–147.7) | 90.5 (81.2–102.4) | 157.0 (118.9–200.1) | 851.6 (789.6–921.7) | 379.7 (311.9–449.2) | 488.4 (463.5–516.7) | 0.2 (0.2–0.3) | 184.2 (153.9–216.2) | 8.3 (7.0–9.6) | 20.2 (16.8–24.0) | 155.6 (126.2–187.6) | 1.4 (1.2–1.8) | 1218.9 (1073.5–1398.0) | -- | 1838.7 (1503.1–2198.3) | 10.0 (8.0–12.6) | 2110.8 (1647.5–2708.7) |
| Iowa | 7804.5 (7383.5–8268.4) | 68.3 (59.6–80.2) | 2643.3 (2236.7–3089.4) | 1308.9 (1229.8–1395.6) | 1101.7 (1024.8–1186.5) | 127.6 (115.1–139.4) | 85.4 (76.6–96.8) | 105.8 (80.8–133.2) | 693.5 (627.0–761.0) | 341.9 (277.4–401.2) | 362.4 (336.8–389.2) | 0.2 (0.2–0.3) | 111.4 (92.2–131.4) | 10.3 (8.2–12.8) | 88.1 (69.6–107.8) | 1.9 (1.6–2.4) | 1087.7 (929.7–1246.0) | -- | 1699.1 (1382.5–2062.8) | 5.6 (4.4–6.8) | 1611.0 (1240.2–2068.2) |
| Kansas | 8347.2 (7945.8–8898.6) | 86.6 (75.3–100.6) | 2876.5 (2552.0–3279.2) | 1418.7 (1338.7–1503.7) | 1218.0 (1149.9–1317.1) | 125.3 (114.9–137.1) | 81.4 (72.6–91.5) | 129.3 (96.7–164.9) | 795.2 (720.5–873.7) | 384.5 (310.1–460.0) | 425.2 (402.6–453.1) | 0.1 (0.1–0.2) | 135.3 (112.1–158.4) | 8.6 (7.0–10.1) | 16.6 (13.5–20.1) | 110.2 (87.6–132.4) | 2.0 (1.6–2.4) | 1186.4 (1044.1–1350.4) | -- | 1617.6 (1322.4–1994.8) | 9.1 (7.3–11.3) | 1917.7 (1508.4–2427.7) |
| Kentucky | 9727.4 (9246.7–10300.7) | 160.4 (142.0–185.5) | 3605.5 (3159.1–4088.6) | 1926.6 (1802.9–2046.6) | 1668.6 (1552.1–1790.4) | 160.8 (144.6–178.5) | 107.9 (95.7–123.1) | 175.6 (137.2–224.4) | 888.9 (824.0–959.2) | 386.8 (315.2–458.4) | 519.6 (492.0–550.1) | 0.1 (0.1–0.1) | 146.9 (121.7–171.5) | 7.9 (6.6–9.3) | 15.5 (13.1–18.4) | 123.5 (98.1–148.9) | 1.5 (1.2–1.8) | 1309.6 (1157.2–1506.0) | -- | 1847.5 (1500.4–2249.1) | 9.7 (7.5–12.3) | 2067.8 (1592.2–2650

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8439.3 | 99.4 | 2825.8 | 1189.3 | 987.6 | 119.9 | 86.9 | 118.1 | 964.5 | 403.6 | 582.1 | 0.3 | 101.4 | 12.6 | 11.6 | 77.3 | 1.7 | 1232.1 | -- | 2242.9 | 7.1 | 1603.8 |
| | (8010.7–8949.2) | (86.1–117.0) | (2491.3–3239.6) | (1109.6–1271.0) | (900.9–1065.3) | (108.5–132.6) | (77.2–98.3) | (88.7–149.0) | (888.7–1054.1) | (325.6–474.0) | (552.5–612.1) | (0.2–0.4) | (83.9–122.6) | (10.0–15.5) | (9.5–13.8) | (61.2–98.0) | (1.4–2.1) | (1085.3–1418.5) | -- | (1825.0–2698.3) | (5.6–8.7) | (1264.5–2080.3) |
| | 9055.4 | 80.2 | 2894.8 | 1843.8 | 1604.4 | 154.9 | 94.1 | 151.4 | 916.2 | 411.1 | 524.3 | 0.2 | 164.4 | 8.8 | 20.2 | 135.5 | 1.6 | 1178.1 | -- | 1877.9 | 7.3 | 1979.6 |
| | (8611.0–9646.2) | (70.1–93.3) | (2567.4–3299.6) | (1722.5–1958.4) | (1488.1–1713.0) | (140.9–170.6) | (84.0–106.2) | (117.0–191.3) | (840.0–987.9) | (335.8–486.3) | (499.7–551.6) | (0.2–0.3) | (136.6–193.7) | (7.1–10.4) | (16.8–24.3) | (112.3–163.6) | (1.3–2.0) | (1038.7–1346.2) | -- | (1527.7–2238.0) | (5.6–9.0) | (1562.8–2564.8) |
| | 7585.7 | 89.5 | 2573.9 | 1120.9 | 936.4 | 110.6 | 78.0 | 108.9 | 674.1 | 316.4 | 368.1 | 0.2 | 108.7 | 9.5 | 14.2 | 85.1 | 1.4 | 1107.6 | -- | 1486.3 | 8.1 | 1770.8 |
| | (7190.7–8102.3) | (78.1–105.7) | (2262.0–2911.2) | (1037.8–1212.3) | (858.3–1021.0) | (99.3–123.3) | (69.1–89.0) | (80.4–141.5) | (605.7–745.8) | (245.2–392.0) | (337.8–399.4) | (0.1–0.2) | (88.5–131.1) | (7.6–11.5) | (11.5–17.0) | (66.1–104.8) | (1.1–1.8) | (968.6–1286.4) | -- | (1147.1–1887.9) | (6.5–10.0) | (1420.6–2278.6) |
| | 9269.0 | 162.6 | 3498.6 | 1806.8 | 1568.7 | 152.3 | 103.2 | 193.7 | 824.9 | 372.0 | 468.2 | 0.1 | 145.5 | 9.7 | 16.7 | 119.2 | 1.8 | 1176.3 | -- | 1736.2 | 8.0 | 1832.7 |
| | (8796.9–9865.6) | (142.0–186.6) | (3053.8–4058.2) | (1682.2–1955.3) | (1442.2–1703.3) | (135.6–169.2) | (91.2–118.0) | (153.8–234.7) | (757.6–895.8) | (303.4–442.9) | (440.2–497.6) | (0.1–0.1) | (120.6–172.4) | (8.0–11.6) | (13.5–19.6) | (95.8–145.5) | (1.4–2.2) | (1045.1–1351.8) | -- | (1404.5–2078.6) | (6.1–10.1) | (1413.9–2366.8) |
| | 9138.9 | 112.1 | 3490.2 | 1535.6 | 1299.4 | 143.2 | 100.7 | 202.8 | 851.7 | 377.5 | 490.4 | 0.2 | 163.4 | 8.7 | 15.6 | 139.1 | 1.7 | 1147.5 | -- | 1920.9 | 7.9 | 1903.9 |
| | (8690.3–9714.2) | (98.4–130.4) | (3046.4–3976.8) | (1426.6–1640.5) | (1195.9–1398.2) | (130.1–159.6) | (89.7–114.2) | (162.1–251.1) | (783.3–918.4) | (305.4–439.1) | (463.5–517.9) | (0.2–0.3) | (136.6–198.2) | (7.2–10.2) | (12.8–18.8) | (112.3–163.8) | (1.4–2.1) | (1018.9–1324.1) | -- | (1567.6–2299.7) | (6.2–10.3) | (1493.3–2442.2) |
| | 7674.9 | 114.6 | 2463.0 | 1149.4 | 946.4 | 127.5 | 80.5 | 137.5 | 693.0 | 336.6 | 367.8 | 0.2 | 116.5 | 7.6 | 13.0 | 95.9 | 1.8 | 994.0 | -- | 1393.9 | 10.9 | 2147.4 |
| | (7235.3–8220.2) | (99.0–132.3) | (2161.4–2802.1) | (1076.8–1233.0) | (882.8–1029.7) | (115.9–140.1) | (71.6–91.0) | (106.0–171.6) | (628.7–757.4) | (269.3–399.3) | (342.5–397.0) | (0.1–0.2) | (86.3–137.5) | (6.1–8.9) | (10.6–15.7) | (76.1–117.1) | (1.4–2.2) | (873.4–1131.6) | -- | (1144.1–1703.5) | (8.6–13.4) | (1686.2–2789.9) |
| | 7324.3 | 79.9 | 2289.8 | 1144.5 | 954.7 | 111.7 | 82.7 | 115.4 | 810.1 | 395.5 | 429.7 | 0.3 | 106.0 | 9.2 | 14.1 | 82.7 | 1.8 | 1173.4 | -- | 1475.2 | 6.3 | 1539.7 |
| | (6897.2–7830.4) | (67.7–95.8) | (2002.2–2618.0) | (1070.0–1219.8) | (883.7–1030.9) | (100.8–123.6) | (73.4–93.8) | (89.1–146.2) | (719.5–895.2) | (303.7–484.1) | (401.5–460.1) | (0.2–0.4) | (86.8–126.6) | (7.4–11.3) | (11.1–17.1) | (64.8–100.9) | (1.5–2.2) | (1027.2–1337.4) | -- | (1154.0–1865.1) | (5.0–7.7) | (1181.7–1991.1) |
| | 8451.3 | 127.6 | 2959.9 | 1476.9 | 1260.0 | 133.3 | 90.6 | 124.8 | 883.3 | 389.7 | 511.8 | 0.1 | 163.8 | 7.9 | 19.3 | 136.5 | 1.8 | 1152.4 | -- | 1562.2 | 7.7 | 1876.8 |
| | (8039.5–8998.8) | (112.0–147.9) | (2576.8–3399.1) | (1374.3–1569.9) | (1174.1–1357.8) | (122.1–148.1) | (84.8–100.9) | (95.7–157.9) | (811.2–954.6) | (320.6–459.7) | (483.0–542.9) | (0.1–0.2) | (138.5–192.3) | (6.6–9.2) | (15.9–23.0) | (112.8–165.6) | (1.5–2.2) | (1011.6–1296.3) | -- | (1262.1–1895.7) | (6.1–9.6) | (1458.4–2426.5) |
| | 7437.1 | 82.5 | 2227.4 | 1316.0 | 1099.4 | 132.9 | 90.0 | 130.4 | 829.2 | 400.8 | 445.0 | 0.2 | 131.3 | 7.8 | 19.5 | 104.0 | 1.7 | 1187.9 | -- | 1369.0 | 8.8 | 1701.5 |
| | (7062.7–7897.3) | (71.9–95.3) | (1961.0–2547.4) | (1235.2–1401.4) | (1023.4–1177.8) | (120.8–146.0) | (80.9–100.8) | (102.5–166.2) | (754.5–904.4) | (323.5–475.1) | (418.3–474.2) | (0.1–0.3) | (109.8–155.0) | (6.4–9.4) | (16.3–23.3) | (82.6–127.6) | (1.4–2.1) | (1042.2–1364.4) | -- | (1105.8–1685.7) | (7.0–10.8) | (1342.0–2193.7) |
| | 7985.5 | 126.8 | 2601.9 | 1781.8 | 1524.1 | 165.8 | 102.6 | 212.6 | 694.6 | 313.5 | 391.7 | 0.1 | 118.3 | 8.1 | 12.4 | 97.9 | 1.5 | 810.0 | -- | 1891.7 | 5.3 | 1399.0 |
| | (7582.6–8510.8) | (109.4–148.1) | (2281.8–2993.5) | (1655.4–1920.2) | (1405.2–1662.0) | (148.7–185.4) | (90.3–116.9) | (167.1–261.7) | (627.7–764.1) | (244.9–379.9) | (365.0–423.5) | (0.1–0.1) | (96.5–140.6) | (6.5–9.7) | (9.9–15.1) | (77.7–119.7) | (1.2–1.9) | (701.6–926.7) | -- | (1511.5–2314.1) | (4.1–6.5) | (1088.0–1887.5) |
| | 9853.3 | 112.4 | 3975.5 | 1833.6 | 1615.8 | 160.4 | 107.4 | 149.0 | 889.2 | 385.7 | 521.0 | 0.2 | 137.0 | 10.6 | 16.3 | 110.1 | 1.5 | 1299.9 | -- | 2089.4 | 8.1 | 1843.3 |
| | (9383.6–10416.8) | (99.4–128.9) | (3535.6–4474.1) | (1722.2–1952.4) | (1460.4–1693.5) | (145.6–177.1) | (95.5–122.3) | (113.2–192.7) | (818.2–963.6) | (314.2–456.1) | (493.7–550.1) | (0.1–0.2) | (113.9–158.3) | (8.7–12.5) | (13.7–19.6) | (89.2–131.6) | (1.2–1.8) | (1143.8–1501.0) | -- | (1643.1–2375.9) | (6.3–10.1) | (1444.6–2335.3) |
| | 7873.3 | 96.4 | 2572.3 | 1152.2 | 964.2 | 111.2 | 81.5 | 124.3 | 872.1 | 397.0 | 492.8 | 0.1 | 147.9 | 8.1 | 18.5 | 121.3 | 1.8 | 1209.0 | -- | 1587.3 | 9.0 | 1878.9 |
| | (7474.2–8384.1) | (85.0–110.5) | (2258.0–2955.0) | (1069.8–1237.2) | (882.7–1048.9) | (100.5–123.0) | (71.5–93.4) | (94.9–157.3) | (801.0–942.4) | (328.1–461.3) | (466.5–523.2) | (0.1–0.2) | (120.4–169.9) | (6.8–9.6) | (15.1–22.4) | (96.4–144.2) | (1.5–2.2) | (1054.0–1378.8) | -- | (1274.8–1912.7) | (7.2–11.4) | (1462.3–2401.9) |
| | 8087.1 | 117.4 | 2870.2 | 1298.2 | 1058.7 | 119.6 | 85.8 | 125.9 | 1007.3 | 373.1 | 524.4 | 0.3 | 115.9 | 9.7 | 14.7 | 91.5 | 1.5 | 1087.0 | -- | 1506.0 | 11.0 | 1832.7 |
| | Wyoming | (7591.4–8682.5) | (99.7–139.9) | (2141.3–2851.0) | (1165.1–1354.2) | (968.8–1151.9) | (107.1–132.4) | (75.2–98.1) | (93.0–162.6) | (600.1–767.7) | (295.0–454.8) | (298.6–354.7) | (0.2–0.3) | (94.7–138.9) | (7.8–11.8) | (12.1–17.7) | (74.2–110.4) | (1.2–1.8) | (874.6–1161.4) | -- | (1152.7–1903.7) | (8.7–13.7) | (1869.2–3018.2) |
| Southern Latin America | 6686.2 | 23.6 | 2689.4 | 805.3 | 478.2 | 189.5 | 142.0 | 109.0 | 405.0 | 267.3 | 140.6 | 0.03 | 103.5 | 2.8 | 2.6 | 98.1 | 2.8 | 526.9 | -- | 1015.2 | 6.2 | 2032.4 |
| | (6193.0–7306.1) | (20.4–27.5) | (2462.1–3210.1) | (776.2–836.9) | (453.7–504.7) | (178.5–201.4) | (132.5–150.7) | (76.7–144.8) | (347.0–459.9) | (220.9–310.0) | (114.4–171.4) | (0.02–0.04) | (83.4–123.8) | (2.4–3.4) | (2.1–3.2) | (78.0–117.6) | (2.3–3.4) | (396.5–654.0) | -- | (767.1–1296.6) | (5.2–7.3) | (1571.8–2689.5) |
| | 6941.9 | 20.9 | 2739.6 | 710.2 | 408.9 | 173.2 | 131.5 | 98.6 | 396.4 | 268.1 | 131.1 | 0.02 | 116.6 | 2.7 | 1.7 | 112.2 | 2.7 | 515.1 | -- | 998.8 | 6.2 | 2458.2 |
| Argentina | (6379.0–7092.9) | (18.1–24.7) | (2469.8–3419.2) | (682.1–738.7) | (385.4–433.2) | (167.7–184.3) | (122.5–139.3) | (67.6–134.9) | (336.1–456.1) | (217.5–314.0) | (105.4–164.3) | (0.02–0.03) | (94.0–140.7) | (2.2–3.2) | (1.4–2.1) | (89.6–135.7) | (2.3–3.2) | (387.3–645.6) | -- | (744.1–1278.4) | (5.2–7.3) | (1874.4–3257.0) |
| | 6172.5 | 29.7 | 2566.7 | 1016.5 | 627.4 | 231.8 | 164.1 | 138.0 | 403.6 | 249.4 | 157.3 | 0.05 | 76.2 | 3.1 | 3.2 | 69.8 | 3.3 | 556.2 | -- | 1042.8 | 5.1 | 1194.6 |
| Chile | (5784.8–6593.4) | (26.1–34.0) | (2349.6–2817.5) | (980.9–1060.5) | (595.0–664.3) | (219.3–245.2) | (153.0–176.2) | (100.5–180.9) | (356.0–458.8) | (204.3–296.7) | (125.0–188.1) | (0.04–0.1) | (61.9–91.4) | (2.7–3.6) | (2.6–4.0) | (56.2–84.4) | (2.7–4.0) | (420.3–696.4) | -- | (791.0–1324.9) | (4.3–6.1) | (903.2–1556.6) |
| | 6427.3 | 22.6 | 2794.2 | 853.1 | 533.2 | 170.7 | 153.8 | 88.1 | 494.2 | 336.0 | 162.9 | 0.04 | 83.8 | 3.3 | 11.0 | 69.6 | 2.2 | 516.3 | -- | 1055.8 | 11.3 | 1409.4 |
| Uruguay | (6015.3–6911.1) | (18.9–26.9) | (2561.1–3128.8) | (822.9–884.8) | (503.6–560.5) | (160.6–182.8) | (143.6–164.3) | (60.0–123.5) | (434.3–555.2) | (284.6–385.4) | (134.4–200.6) | (0.03–0.05) | (68.9–100.2) | (2.7–3.9) | (8.7–13.3) | (55.6–85.7) | (1.8–2.7) | (387.8–649.5) | -- | (924.6–1359.2) | (9.3–13.6) | (1071.3–1849.1) |
| | 7210.1 | 30.9 | 2354.9 | 874.4 | 679.0 | 107.4 | 92.6 | 99.7 | 711.9 | 418.4 | 306.8 | 0.2 | 104.0 | 5.8 | 7.1 | 13.2 | 83.8 | 3.6 | 802.4 | -- | 1571.7 | 13.3 | 2070.5 |
| Western Europe | (6751.8–7745.3) | (27.0–35.2) | (2173.1–2627.4) | (841.5–908.3) | (649.0–711.2) | (99.8–115.6) | (85.0–100.6) | (75.7–127.4) | (653.3–776.4) | (365.8–477.8) | (283.2–330.5) | (0.2–0.3) | (86.3–118.4) | (5.8–8.3) | (11.0–15.8) | (67.6–96.9) | (2.9–4.3) | (623.9–1008.5) | -- | (1194.8–2041.0) | (11.4–15.2) | (1644.1–2585.8) |
| | 5087.9 | 26.6 | 1578.5 | 753.4 | 553.9 | 109.4 | 93.8 | 84.5 | 422.9 | 290.0 | 136.5 | 0.03 | 124.1 | 10.2 | 16.8 | 97.2 | 3.7 | 809.3 | -- | 1470.6 | 7.2 | 552.6 |
| Andorra | (4746.0–5506.2) | (22.9–31.2) | (1340.7–1833.6) | (717.1–787.4) | (519.5–585.6) | (101.4–118.6) | (86.0–103.1) | (64.6–109.2) | (360.9–493.6) | (237.7–343.6) | (108.7–166.0) | (0.02–0.04) | (105.6–142.9) | (8.4–12.1) | (13.3–20.4) | (80.1–114.5) | (3.0–4.5) | (600.5–1024.7) | -- | (1113.9–1899.3) | (6.1–8.5) | (414.4–730.1) |
| | 7825.7 | 42.9 | 3377.6 | 1114.8 | 797.2 | 164.6 | 163.2 | 103.5 | 1278.1 | 856.6 | 457.8 | 0.7 | 158.3 | 6.7 | 16.3 | 113.8 | 3.6 | 1299.5 | -- | 1361.5 | 4.2 | 1843.3 |
| Austria | (7485.9–8212.3) | (38.1–47.9) | (3191.8–3677.9) | (1074.9–1152.8) | (762.9–832.1) | (156.1–174.0) | (153.2–173.4) | (75.4–129.9) | (1067.3–1603.8) | (678.4–1189.7) | (368.5–710.4) | (0.6–0.8) | (116.1–156.2) | (5.5–8.1) | (13.4–19.0) | (94.9–132.0) | (2.9–4.4) | (1186.9–1550.4) | -- | (1037.7–1767.4) | (3.7–4.7) | (730.3–1194.7) |
| | 5988.5 | 31.6 | 1756.3 | 726.7 | 545.0 | 103.4 | 81.5 | 25.4 | 536.0 | 442.8 | 97.6 | 0.1 | 63.8 | 6.8 | 9.1 | 48.0 | 4.2 | 707.2 | -- | 1431.4 | 15.5 | 1659.0 |
| Belgium | (5532.2–6578.5) | (26.7–37.1) | (1584.7–2292.9) | (700.5–757.9) | (520.6–574.0) | (95.7–112.0) | (75.1–88.3) | (18.1–33.1) | (477.7–602.4) | (388.1–504.9) | (78.5–116.7) | (0.1–0.2) | (53.1–74.5) | (5.5–8.1) | (7.2–11.3) | (38.5–58.4) | (3.5–5.1) | (566.9–872.1) | -- | (1080.0–1859.0) | (12.9–18.4) | (1279.6–2132.1) |
| | 5287.8 | 24.1 | 1617.2 | 696.1 | 467.4 | 137.5 | 93.2 | 66.3 | 445.2 | 373.1 | 74.5 | 0.005 | 52.0 | 4.0 | 3.8 | 44.1 | 4.2 | 704.2 | -- | 1649.2 | 6.3 | 790.9 |
| Cyprus | (4893.7–5755.7) | (20.7–27.9) | (1367.1–1875.9) | (663.4–727.5) | (441.3–494.3) | (128.0–147.7) | (85.1–102.9) | (47.8–91.6) | (392.0–499.7) | (326.2–427.6) | (61.2–87.8) | (0.003–0.006) | (41.7–62.1) | (3.2–5.1) | (3.1–4.7) | (34.5–53.9) | (3.5–5.1) | (534.1–907.8) | -- | (1255.9–2164.2) | (5.3–7.3) | (587.2–1035.5) |
| | 5710.0 | 22.6 | 2336.2 | 796.0 | 575.9 | 113.1 | 111.3 | 27.2 | 576.1 | 452.4 | 129.1 | 0.4 | 38.2 | 7.5 | 8.7 | 22.0 | 4.0 | 846.5 | -- | 1116.3 | 7.8 | 821.2 |
| Denmark | (5365.8–6137.3) | (19.4–26.1) | (2088.4–2678.1) | (765.4–828.3) | (548.2–607.8) | (104.9–123.3) | (104.0–119.1) | (19.5–38.3) | (501.9–669.9) | (382.3–535.5) | (105.1–154.0) | (0.3–0.4) | (31.8–43.8) | (6.0–9.1) | (6.9–10.7) | (16.8–26.5) | (3.3–4.9) | (647.0–1054.8) | -- | (853.0–1454.1) | (6.5–9.2) | (621.2–1105.7) |
| | 7024.7 | 18.8 | 3134.7 | 1021.7 | 723.0 | 162.3 | 144.7 | 105.4 | 861.4 | 556.4 | 320.9 | 1.6 | 84.0 | 14.0 | 29.6 | 40.4 | 3.8 | 774.3 | -- | 1507.9 | 2.5 | 910.4 |
| Finland | (6603.3–7536.6) | (16.1–22.1) | (2729.9–3694.3) | (986.9–1060.9) | (690.3–759.8) | (152.2–173.3) | (135.6–154.5) | (74.6–143.7) | (760.3–976.2) | (466.9–658.6) | (265.8–386.9) | (1.3–2.0) | (71.4–97.1) | (11.1–17.2) | (23.4–36.5) | (32.2–48.1) | (3.2–4.6) | (587.1–985.5) | -- | (1125.3–1940.2) | (2.2–2.9) | (690.0–1202.0) |
| | 9101.2 | 27.8 | 1917.5 | 783.5 | 603.1 | 98.9 | 85.3 | 143.5 | 490.1 | 382.6 | 111.8 | 0.04 | 174.5 | 6.4 | 20.4 | 780.6 | -- | 1333.3 | 33.6 | 5440.9 | | |
| France | (8137.2–10131.7) | (23.7–32.9) | (1719.3–2265.9) | (755.9–814.7) | (578.5–628.3) | (92.1–107.0) | (78.4–92.7) | (108.5–188.1) | (428.0–562.4) | (327.1–460.8) | (89.8–138.2) | (0.03–0.1) | (139.8–206.7) | (5.1–7.4) | (16.0–25.5) | (582.6–992.6) | -- | (1027.0–1722.6) | (27.6–39.9) | (4367.1–6710.7) | | |
| | 8008.6 | 25.7 | 3226.6 | 1206.1 | 1008.1 | 105.9 | 99.2 | 111.0 | 675.8 | 513.9 | 170.4 | 0.6 | 105.5 | 8.6 | 25.4 | 71.5 | 3.6 | 881.6 | -- | 1882.0 | 9.3 | 1645.6 |
| Germany | (7499.5–8549.7) | (22.1–28.0) | (3003.4–3451.0) | (1170.9–1238.4) | (977.2–1038.7) | (98.6–114.3) | (92.3–107.2) | (79.7–149.0) | (592.5–771.3) | (447.7–596.3) | (141.6–217.4) | (0.5–0.8) | (87.4–124.4) | (7.2–10.0) | (20.5–31.5) | (56.2–85.3) | (3.0–4.4) | (672.3–1131.7) | -- | (1449.3–2462.8) | (7.8–11.0) | (1246.2–2143.3) |
| | 5922.3 | 24.9 | 2783.2 | 887.9 | 639.4 | 150.7 | 103.0 | 41.1 | 460.0 | 327.2 | 136.8 | 0.1 | 50.3 | 6.0 | 1.2 | 43.1 | 2.9 | 700.7 | -- | 1467.7 | 3.4 | 326.0 |
| Greece | (5569.4–6469.4) | (21.3–30.0) | (2529.8–3290.2) | (848.9–923.3) | (602.2–671.6) | (141.0–160.5) | (95.1–111.2) | (30.2–53.0) | (409.4–514.4) | (282.8–375.2) | (113.1–180.1) | (0.1–0.1) | (42.1–59.0) | (4.8–7.1) | (1.0–1.5) | (35.3–52.2) | (2.3–3.5) | (525.9–901.2) | -- | (1110.7–1912.1) | (3.0–3.9) | (250.2–428.0) |
| | 5172.3 | 26.2 | 1834.9 | 742.4 | 544.4 | 98.5 | 103.2 | 23.9 | 621.0 | 535.1 | 90.5 | 0.2 | 27.2 | 7.0 | 3.1 | 17.1 | 3.2 | 826.5 | -- | 1376.0 | 3.5 | 432.5 |
| Iceland | (4846.1–5582.1) | (22.5–30.7) | (1612.3–2197.7) | (710.0–775.4) | (512.6–576.4) | (91.1–105.9) | (94.7–111.6) | (16.5–33.6) | (532.5–733.3) | (448.3–641.1) | (73.6–108.2) | (0.2–0.3) | (22.9–31.4) | (5.7–8.3) | (2.4–3.8) | (13.5–21.1) | (2.6–3.9) | (618.7–1050.0) | -- | (1029.6–1761.8) | (3.0–4.1) | (329.5–569.6) |
| | 5714.7 | 27.6 | 1999.3 | 692.2 | 486.4 | 117.8 | 105.7 | 29.2 | 486.4 | 339.8 | 151.6 | 0.2 | 106.4 | 7.6 | 9.7 | 109.8 | 1.9 | 737.7 | 4.6 | 1484.1 | | |
| Ireland | (5248.8–6175.3) | (23.4–32.3) | (1701.5–2275.6) | (630.6–691.7) | (414.6–468.2) | (109.5–126.3) | (97.8–114.1) | (20.6–38.9) | (427.6–550.5) | (287.3–408.1) | (122.4–186.4) | (0.1–0.2) | (72.8–102.8) | (6.3–8.9) | (7.7–12.0) | (57.3–84.9) | (1.5–2.3) | (562.4–953.4) | -- | (1114.5–1912.5) | (3.9–5.3) | (834.0–1453.2) |
| | 5703.7 | 30.2 | 1747.2 | 765.1 | 578.5 | 96.5 | 93.7 | 35.5 | 371.2 | 203.0 | 171.2 | 0.4 | 38.6 | 5.6 | 1.6 | 31.4 | 4.4 | 842.9 | -- | 1628.7 | 7.3 | 1181.7 |
| Israel | (5265.0–6187.7) | (25.5–34.9) | (1589.5–1968.4) | (732.7–798.7) | (545.5–612.4) | (88.6–104.8) | (86.4–101.0) | (25.0–47.4) | (329.4–423.1) | (172.7–234.3) | (142.5–204.6) | (0.3–0.5) | (31.9–45.2) | (4.5–6.7) | (1.3–2.0) | (24.9–38.0) | (3.6–5.4) | (634.3–1076.5) | -- | (1230.5–2125.3) | (6.1–8.6) | (891.6–1511.3) |
| | 6841.9 | 46.8 | 2393.8 | 675.3 | 496.9 | 114.9 | 66.3 | 168.4 | 1336.6 | 1146.9 | 450.4 | 0.1 | 97.4 | 9.0 | 3.9 | 84.5 | 3.9 | 1459.6 | -- | 1459.6 | 10.4 | 1451.8 |
| Italy | (6440.3–7398.5) | (40.6–55.0) | (1976.7–2649.9) | (616.6–737.0) | (441.4–555.6) | (103.7–127.6) | (58.2–76.0) | (127.5–212.6) | (1268.8–1415.0) | (387.1–514.6) | (386.9–970.2) | (0.05–0.1) | (79.7–115.7) | (7.1–10.9) | (3.2–4.7) | (66.9–102.2) | (3.2–4.8) | (410.9–649.7) | -- | (1105.3–1890.3) | (8.6–12.3) | (1132.8–1886.8) |
| | 6859.5 | 40.1 | 1555.6 | 636.2 | 470.2 | 91.2 | 77.2 | 62.4 | 828.8 | 524.6 | 320.3 | 0.1 | 73.2 | 9.2 | 12.6 | 51.5 | 3.4 | 844.2 | -- | 1675.0 | 17.4 | 2468.9 |
| Luxembourg | (6240.8–7497.0) | (34.0–46.1) | (1422.9–1688.8) | (609.6–662.2) | (438.5–502.6) | (83.9–99.2) | (70.3–84.5) | (44.5–83.1) | (725.9–934.1) | (437.1–610.9) | (259.7–400.8) | (0.1–0.1) | (60.4–85.9) | (7.6–11.0) | (10.0–15.6) | (40.3–63.7) | (2.8–4.2) | (642.7–1073.9) | -- | (1256.5–2167.0) | (14.5–20.6) | (1915.1–3141.4) |
| | 5418.0 | 19.9 | 1958.5 | 670.2 | 457.4 | 128.6 | 87.1 | 60.9 | 723.0 | 232.8 | 92.0 | 0.3 | 53.4 | 4.9 | 3.5 | 40.0 | 3.7 | 712.3 | 7.8 | 1569.4 | 7.8 | 783.0 |
| Malta | (5016.3–5898.4) | (17.2–23.2) | (1778.5–2303.7) | (641.9–698.5) | (432.9–483.2) | (120.4–137.2) | (80.5–94.7) | (45.3–83.0) | (672.7–767.4) | (187.2–275.6) | (72.0–109.4) | (0.2–0.3) | (44.7–62.1) | (4.2–5.7) | (2.7–4.2) | (31.8–48.4) | (3.0–4.5) | (544.0–915.5) | -- | (1179.8–2019.7) | (6.7–9.2) | (594.8–1029.8) |
| | 4846.4 | 29.2 | 1355.3 | 821.2 | 629.1 | 111.4 | 84.6 | 79.0 | 378.3 | 261.5 | 119.6 | 0.008 | 119.3 | 5.7 | 24.1 | 89.6 | 3.7 | 785.8 | 8.7 | 1408.6 | 8.7 | 549.9 |
| Monaco | (4478.5–5270.6) | (24.9–35.0) | (1127.5–1622.4) | (780.9–860.2) | (591.0–663.8) | (101.7–121.0) | (78.1–92.2) | (58.6–107.1) | (325.2–438.3) | (216.3–309.0) | (97.3–148.6) | (0.006–0.009) | (99.3–138.8) | (4.7–6.8) | (19.6–29.0) | (72.4–107.8) | (3.0–4.5) | (592.2–1014.6) | -- | (1069.7–1837.7) | (7.1–10.4) | (410.8–734.5) |
| | 5930.4 | 26.8 | 1559.1 | 833.4 | 625.9 | 109.8 | 102.0 | 37.8 | 437.5 | 180.6 | 262.0 | 0.5 | 84.6 | 7.9 | 14.0 | 62.7 | 4.7 | 804.9 | 19.9 | 1601.5 | 19.9 | 1550.4 |
| Netherlands | (5437.5–6486.1) | (22.7–31.8) | (1290.6–1902.1) | (798.5–870.7) | (593.6–660.9) | (102.3–117.2) | (94.1–110.1) | (27.3–51.1) | (386.9–500.1) | (151.7–213.9) | (214.6–315.4) | (0.4–0.7) | (70.6–99.4) | (6.4–9.3) | (11.1–17.2) | (50.3–75.9) | (3.8–5.7) | (712.7–899.6) | (16.5–23.2) | (1216.0–2072.6) | (16.5–23.2) | (1158.1–2037.8) |
| | 7066.3 | 22.6 | 3082.2 | 918.4 | 702.1 | 114.6 | 107.3 | 26.8 | 1239.9 | 397.4 | 876.9 | 0.1 | 89.5 | 6.7 | 6.8 | 76.1 | 4.0 | 859.3 | 6.4 | 1426.6 | 6.4 | 965.7 |
| Norway | (6622.2–7618.5) | (18.5–27.6) | (2559.8–3684.9) | (826.0–1008.0) | (611.6–789.3) | (102.6–127.3) | (94.3–122.8) | (18.1–38.1) | (1168.3–1311.8) | (322.3–478.2) | (834.9–919.3) | (0.1–0.1) | (74.3–106.6) | (5.4–8.0) | (5.5–8.5) | (61.0–93.8) | (3.3–4.9) | (648.9–1085.9) | (4.9–7.7) | (1078.6–1829.6) | (4.9–7.7) | (702.6–1303.3) |
| | 7097.0 | 22.9 | 3156.8 | 907.8 | 697.8 | 110.0 | 105.5 | 31.3 | 1247.8 | 389.8 | 892.1 | 0.1 | 86.8 | 6.4 | 7.1 | 73.4 | 3.8 | 854.9 | 6.7 | 1450.7 | 6.7 | 922.6 |
| Ägder | (6663.2–7708.6) | (18.6–28.3) | (2641.0–3838.8) | (809.5–997.9) | (606.7–787.4) | (98.5–123.7) | (91.6–121.4) | (21.6–44.7) | (1173.6–1329.9) | (314.9–467.4) | (853.8–943.4) | (0.1–0.1) | (70.2–104.3) | (5.1–7.6) | (5.5–8.7) | (57.1–87.1) | (3.1–4.7) | (645.0–1077.1) | (5.1–8.2) | (1104.1–1878.5) | (675.1–1266.4) | |
| | 7228.3 | 21.9 | 3243.9 | 970.0 | 742.3 | 121.7 | 112.4 | 26.8 | 1222.2 | 381.2 | 873.8 | 0.1 | 87.2 | 6.9 | 7.5 | 72.9 | 3.8 | 856.6 | 6.7 | 1451.5 | 5.7 | 979.0 |
| Innlandet | (6747.8–7796.3) | (18.0–27.0) | (2717.1–3891.8) | (854.0–1072.6) | (626.9–841.2) | (108.8–136.3) | (98.8–131.0) | (17.8–38.9) | (1143.1–1301.0) | (311.3–458.8) | (827.7–925.9) | (0.1–0.1) | (72.5–104.5) | (5.5–8.3) | (6.0–9.3) | (59.1–90.2) | (3.1–4.6) | (650.2–1086.3) | (4.4–7.0) | (1104.6–1872.8) | (704.6–1333.6) | |
| | 7279.2 | 23.8 | 3301.5 | 939.5 | 717.3 | 119.3 | 108.9 | 27.9 | 1294.4 | 423.2 | 909.0 | 0.2 | 91.6 | 6.4 | 5.4 | 79.8 | 4.4 | 861.4 | 5.7 | 1442.8 | 5.7 | 954.8 |
| Møre og Romsdal | (6789.8–7873.8) | (19.4–29.1) | (2760.2–3905.2) | (840.1–1056.7) | (623.1–822.7) | (106.7–135.5) | (95.0–126.2) | (18.5–39.8) | (1212.6–1382.1) | (342.6–507.9) | (858.3–960.2) | (0.2–0.3) | (74.8–110.0) | (5.2–7.7) | (4.2–6.7) | (63.7–97.4) | (3.5–5.3) | (649.7–1082.4) | (4.4–7.1) | (1109.9–1866.3) | (699.3–1313.3) | |
| | 7374.9 | 23.1 | 3395.5 | 956.7 | 738.5 | 115.0 | 111.2 | 25.9 | 1277.6 | 407.1 | 907.1 | 0.03 | 86.5 | 6.5 | 6.4 | 74.3 | 3.8 | 863.1 | 5.8 | 1448.8 | 5.8 | 979.8 |
| Nordland | (6870.1–7952.3) | (19.0–28.9) | (2819.7–4003.8) | (863.3–1062.4) | (644.2–841.2) | (102.7–128.7) | (97.6–128.1) | (17.1–37.0) | (1191.5–1372.3) | (326.5–492.2) | (858.4–959.9) | (0.03–0.04) | (68.6–101.5) | (5.3–7.8) | (5.2–7.9) | (55.8–88.1) | (3.1–4.7) | (651.8–1087.2) | (4.5–7.1) | (1098.1–1898.5) | (737.1–1373.2) | |
| | 6976.9 | 22.4 | 2949.3 | 875.2 | 670.2 | 109.4 | 100.8 | 26.3 | 1187.3 | 385.6 | 833.5 | 0.1 | 89.0 | 7.4 | 8.6 | 73.0 | 4.1 | 848.1 | 6.8 | 1385.7 | 6.8 | 1142.4 |
| Oslo | (6549.5–7533.3) | (18.7–27.6) | (2436.8–3564.6) | (789.7–968.7) | (590.1–757.5) | (97.1–122.9) | (87.8–116.2) | (17.3–37.3) | (1111.5–1261.0) | (302.3–458.5) | (790.9–880.5) | (0.1–0.1) | (74.3–106.6) | (5.4–8.0) | (5.5–8.5) | (61.0–93.8) | (3.3–5.0) | (640.5–1088.5) | (5.3–8.3) | (1044.9–1790.6) | (683.2–1552.4) | |
| | 7157.2 | 23.1 | 3188.6 | 888.1 | 677.5 | 110.3 | 105.5 | 24.0 | 1263.1 | 422.7 | 877.2 | 0.1 | 88.5 | 6.8 | 5.5 | 76.3 | 4.1 | 860.0 | 6.7 | 1430.5 | 6.7 | 978.5 |
| Rogaland | (6675.4–7764.2) | (18.9–28.6) | (2637.6–3855.5) | (791.7–983.7) | (588.7–772.6) | (98.5–124.3) | (91.6–121.2) | (15.1–34.7) | (1177.0–1350.8) | (339.0–511.1) | (827.5–927.5) | (0.1–0.1) | (72.4–106.9) | (5.5–8.1) | (4.4–6.8) | (61.6–94.5) | (3.1–4.7) | (661.0–1094.9) | (5.2–8.1) | (1082.7–1836.8) | (714.1–1333.9) | |
| | 7585.8 | 24.6 | 3900.2 | 961.7 | 734.1 | 119.9 | 114.0 | 26.7 | 1215.6 | 423.1 | 828.0 | 0.1 | 87.8 | 8.3 | 6.6 | 73.0 | 3.6 | 855.8 | 6.2 | 1404.5 | 6.2 | 814.6 |
| Troms og Finnmark | (7065.9–8222.0) | (19.9–30.7) | (3267.4–4749.8) | (871.0–1054.0) | (646.0–823.0) | (106.5–133.6) | (100.3–132.4) | (17.2–37.7) | (1134.3–1301.6) | (346.8–508.8

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Andean Latin America | 6322.0 (5938.1–6788.9) | 851.1 (682.8–1041.3) | 1656.1 (1485.6–1848.8) | 1018.0 (982.2–1059.0) | 601.4 (572.4–632.6) | 136.6 (127.5–144.6) | 287.1 (269.3–306.1) | 147.8 (115.7–195.1) | 161.6 (140.5–185.7) | 133.6 (112.6–155.6) | 28.2 (22.4–35.1) | 0.04 (0.03–0.05) | 37.6 (30.3–44.8) | 3.0 (2.3–3.7) | 0.05 (0.03–0.1) | 34.6 (27.2–41.4) | 2.8 (2.2–3.4) | 691.5 (519.8–877.6) | -- | 1157.2 (882.4–1485.0) | 3.0 (2.6–3.6) | 1261.4 (1025.5–1581.8) |
| Bolivia (Plurinational State of) | 6287.3 (5892.9–6764.7) | 897.9 (714.7–1099.9) | 1628.4 (1387.7–1882.5) | 1066.5 (1026.4–1109.7) | 614.2 (585.0–651.1) | 149.8 (140.5–160.3) | 306.1 (287.3–325.0) | 148.4 (116.3–195.9) | 150.6 (125.8–180.8) | 120.8 (96.4–150.2) | 30.0 (23.6–37.0) | 0.02 (0.01–0.02) | 39.0 (31.6–47.1) | 3.0 (2.4–3.8) | 0.1 (0.04–0.1) | 35.9 (28.4–44.1) | 2.5 (2.0–3.0) | 665.8 (503.8–850.0) | -- | 1237.0 (931.4–1582.7) | 2.9 (2.4–3.5) | 1088.5 (866.8–1364.7) |
| Ecuador | 6687.6 (6297.2–7168.7) | 854.0 (688.7–1050.9) | 2174.0 (1869.2–2404.1) | 1040.0 (995.5–1087.9) | 624.1 (586.8–665.5) | 128.5 (119.8–137.8) | 295.1 (279.7–311.4) | 191.4 (147.7–256.6) | 194.7 (176.7–213.2) | 159.6 (142.9–175.4) | 35.5 (28.7–44.0) | 0.1 (0.1–0.1) | 37.2 (29.5–44.6) | 3.0 (2.4–3.7) | 0.03 (0.02–0.04) | 34.3 (26.5–41.5) | 3.0 (2.4–3.7) | 668.7 (501.9–837.0) | -- | 1201.9 (910.3–1547.0) | 2.5 (2.1–2.9) | 1082.9 (864.9–1358.3) |
| Peru | 6155.2 (5739.7–6627.9) | 833.3 (669.8–1018.3) | 1417.8 (1236.6–1624.5) | 992.3 (953.1–1036.6) | 585.0 (553.5–617.5) | 136.4 (127.3–145.6) | 277.5 (258.4–301.7) | 126.1 (96.9–163.8) | 148.1 (123.1–176.5) | 124.1 (100.2–151.2) | 24.2 (18.5–31.1) | 0.02 (0.02–0.03) | 37.3 (30.3–45.3) | 2.9 (2.3–3.7) | 0.1 (0.04–0.1) | 34.3 (27.4–42.0) | 2.8 (2.2–3.4) | 708.6 (534.0–905.1) | -- | 1116.2 (852.1–1425.9) | 3.3 (2.8–4.0) | 1395.4 (1131.5–1751.3) |
| Caribbean | 8883.8 (8445.4–9461.9) | 627.1 (498.2–760.0) | 4750.3 (4368.9–5223.4) | 1160.8 (1123.9–1202.1) | 779.3 (744.9–813.0) | 141.3 (131.6–150.2) | 249.2 (236.9–262.4) | 192.5 (149.2–250.5) | 189.1 (161.5–222.0) | 152.6 (125.6–181.1) | 36.9 (30.1–44.4) | 0.1 (0.1–0.1) | 75.6 (63.1–87.3) | 3.9 (3.2–4.7) | 17.7 (14.5–21.8) | 54.1 (43.6–63.6) | 2.4 (1.9–2.9) | 715.6 (544.9–905.1) | -- | 1297.6 (983.8–1640.2) | 3.3 (2.8–3.8) | 1161.4 (923.4–1468.9) |
| Antigua and Barbuda | 7660.6 (7145.4–8253.9) | 25.5 (21.1–30.1) | 3011.5 (2691.7–3312.1) | 1040.3 (1003.2–1077.6) | 656.1 (625.8–688.3) | 131.6 (122.3–142.0) | 260.6 (247.9–274.0) | 305.1 (243.0–380.8) | 190.4 (163.5–223.7) | 140.8 (114.6–173.6) | 49.8 (40.6–59.6) | 0.4 (0.3–0.5) | 74.0 (62.0–85.8) | 4.6 (3.7–5.5) | 7.9 (6.5–9.6) | 61.5 (50.5–72.2) | 2.7 (2.2–3.3) | 699.0 (523.8–896.4) | -- | 1340.8 (1022.2–1707.6) | 5.7 (4.7–6.8) | 2254.7 (1779.9–2830.1) |
| Barbados | 7647.3 (7106.5–8278.4) | 24.9 (20.8–29.3) | 3278.4 (2859.3–3731.4) | 1074.3 (1035.3–1118.9) | 700.6 (663.9–739.0) | 125.5 (116.3–135.6) | 256.4 (243.1–270.3) | 211.0 (164.2–270.5) | 201.8 (171.0–241.9) | 169.6 (142.1–206.7) | 32.3 (25.9–39.9) | 0.3 (0.2–0.4) | 111.6 (93.2–129.1) | 3.9 (3.1–4.7) | 31.6 (26.0–38.8) | 76.1 (61.9–89.9) | 2.5 (2.0–3.0) | 752.2 (559.7–926.2) | -- | 1285.3 (970.4–1636.3) | 8.6 (7.2–10.1) | 2025.3 (1619.6–2561.9) |
| Belize | 8514.4 (7956.4–9098.2) | 974.0 (770.8–1199.7) | 3766.0 (3328.2–4171.7) | 932.3 (896.1–965.6) | 605.6 (575.6–636.2) | 124.1 (114.4–134.5) | 208.7 (197.3–219.9) | 249.7 (196.2–318.0) | 168.3 (140.9–192.7) | 125.8 (101.7–150.1) | 42.6 (34.5–51.6) | 0.3 (0.2–0.4) | 83.1 (69.2–96.9) | 3.2 (2.6–4.0) | 16.8 (13.7–20.4) | 63.1 (51.9–75.2) | 2.2 (1.8–2.7) | 728.9 (552.6–925.7) | -- | 1281.0 (973.3–1640.4) | 2.0 (1.8–2.3) | 1582.7 (1267.7–1995.8) |
| Bermuda | 8896.8 (8184.8–9636.9) | 28.9 (23.8–34.1) | 3269.6 (2924.7–3680.0) | 905.8 (870.2–947.6) | 552.2 (522.6–585.5) | 113.1 (104.4–123.3) | 246.4 (232.6–260.9) | 158.6 (122.1–204.9) | 436.9 (370.0–499.9) | 393.4 (327.5–455.1) | 44.6 (36.2–54.0) | 0.1 (0.1–0.1) | 139.0 (116.0–161.6) | 3.7 (3.0–4.6) | 28.4 (23.3–34.7) | 106.9 (87.4–126.3) | 2.7 (2.2–3.3) | 730.2 (555.0–926.8) | -- | 1218.9 (912.9–1572.4) | 5.8 (4.8–6.9) | 3657.9 (2923.1–4537.0) |
| Cuba | 8701.4 (8258.9–9362.4) | 25.2 (21.3–29.4) | 5095.2 (4671.2–5885.3) | 1250.3 (1201.4–1306.5) | 881.4 (840.3–934.0) | 126.9 (117.5–137.7) | 238.1 (228.3–264.7) | 171.8 (129.9–225.8) | 211.4 (178.0–250.8) | 174.1 (143.5–210.6) | 37.6 (30.6–44.6) | 0.1 (0.1–0.1) | 106.5 (88.9–124.0) | 5.0 (4.1–6.0) | 38.3 (31.0–46.2) | 63.2 (51.4–77.5) | 2.5 (2.1–3.1) | 708.3 (536.8–899.9) | -- | 1338.9 (1014.7–1727.7) | 3.2 (2.6–3.7) | 1181.3 (926.0–1506.3) |
| Dominica | 8255.3 (7661.6–8887.0) | 995.8 (810.1–1209.9) | 3690.5 (3130.9–4288.5) | 1066.7 (1016.9–1115.8) | 719.0 (674.4–762.7) | 121.7 (112.6–132.4) | 233.9 (221.3–247.4) | 258.1 (201.6–338.9) | 203.4 (173.5–236.7) | 154.9 (127.5–185.7) | 49.1 (40.6–59.2) | 0.2 (0.01–0.02) | 128.1 (106.7–149.5) | 4.2 (3.4–5.0) | 14.5 (4.3–6.6) | 118.6 (97.9–139.5) | 2.2 (1.8–2.7) | 717.7 (545.6–913.5) | -- | 1296.7 (979.3–1653.6) | 3.5 (3.0–4.0) | 1082.3 (831.3–1356.3) |
| Dominican Republic | 8881.2 (8315.5–9629.4) | 961.7 (763.2–1184.3) | 4609.7 (3948.7–5324.5) | 1136.3 (1087.9–1184.3) | 757.0 (713.8–802.8) | 138.1 (128.5–147.9) | 250.4 (236.8–263.9) | 183.6 (140.4–245.4) | 155.5 (132.7–181.1) | 119.1 (97.0–143.3) | 36.6 (28.8–45.1) | 0.02 (0.02–0.03) | 64.8 (52.5–76.2) | 3.0 (2.4–3.8) | 6.6 (5.3–8.1) | 55.2 (43.8–66.5) | 2.6 (2.2–3.3) | 707.6 (538.4–911.2) | -- | 1209.6 (924.0–1524.7) | 2.7 (2.2–3.2) | 979.6 (790.6–1215.0) |
| Grenada | 8590.7 (8028.0–9169.4) | 982.3 (785.8–1197.7) | 3646.2 (3203.1–4114.3) | 1113.8 (1047.0–1153.0) | 781.0 (851.9–951.9) | 131.3 (126.5–146.2) | 209.0 (264.3–290.0) | 251.6 (169.2–287.9) | 198.3 (191.7–262.3) | 150.2 (129.1–192.6) | 48.4 (55.2–76.3) | 0.2 (0.4–0.1) | 59.4 (49.1–69.0) | 3.4 (2.7–4.2) | 11.8 (9.4–14.3) | 44.3 (35.5–52.2) | 2.0 (1.6–2.4) | 710.1 (542.6–902.8) | -- | 1301.7 (980.8–1657.1) | 4.0 (4.8–6.6) | 903.1 (1062.4–1774.3) |
| Guyana | 7935.2 (7404.2–8601.5) | 942.4 (751.7–1137.9) | 3481.7 (2972.3–4125.5) | 1113.8 (1069.3–1162.6) | 781.0 (736.3–829.1) | 131.3 (122.3–142.3) | 209.0 (196.7–222.0) | 251.6 (193.8–330.8) | 198.3 (168.8–233.8) | 150.2 (121.6–183.7) | 48.4 (39.9–57.7) | 0.2 (0.1–0.2) | 59.4 (49.1–69.0) | 3.4 (2.7–4.2) | 11.8 (9.4–14.3) | 44.3 (35.5–52.2) | 2.0 (1.6–2.4) | 710.1 (542.6–902.8) | -- | 1301.7 (980.8–1657.1) | 4.0 (3.4–4.8) | 903.1 (700.2–1148.1) |
| Haiti | 9494.0 (8771.5–10316.3) | 955.6 (748.6–1187.6) | 5233.5 (4671.2–5885.3) | 1307.8 (1201.4–1306.5) | 857.5 (840.3–934.0) | 198.1 (117.5–137.7) | 263.9 (238.3–264.7) | 158.7 (129.9–225.8) | 198.1 (178.0–250.8) | 72.7 (143.5–210.6) | 35.6 (30.6–44.6) | 0.04 (0.1–0.1) | 54.9 (48.9–124.0) | 4.2 (4.1–6.0) | 8.4 (31.0–46.2) | 42.3 (51.4–77.5) | 1.8 (2.1–3.1) | 699.0 (528.6–889.6) | -- | 1223.5 (922.7–1570.5) | 2.2 (1.9–2.5) | 1078.9 (847.0–1392.1) |
| Jamaica | 7823.6 (7302.5–8383.5) | 1011.5 (804.3–1230.6) | 3065.7 (2674.0–3552.7) | 1154.7 (1110.8–1195.7) | 743.2 (702.0–782.1) | 143.0 (133.3–154.1) | 278.4 (264.9–291.9) | 310.2 (246.7–391.2) | 139.8 (118.7–162.6) | 107.9 (87.6–130.9) | 32.0 (25.2–39.8) | 0.1 (0.1–0.1) | 78.5 (65.5–91.4) | 3.6 (3.0–4.4) | 10.9 (8.7–13.4) | 64.0 (52.6–76.4) | 2.6 (2.1–3.2) | 714.0 (546.5–907.0) | -- | 1244.7 (944.1–1583.1) | 7.3 (6.1–8.6) | 1173.1 (924.7–1498.2) |
| Puerto Rico | 8138.3 (7562.9–8641.4) | 26.8 (22.0–32.2) | 4556.8 (3980.9–4947.4) | 849.1 (817.8–880.1) | 525.3 (501.0–553.8) | 106.5 (98.2–115.5) | 222.3 (210.5–233.7) | 210.0 (159.9–277.2) | 259.3 (217.6–305.4) | 223.5 (185.1–267.6) | 36.4 (28.8–45.0) | 0.009 (0.007–0.01) | 65.4 (55.5–77.3) | 3.3 (2.6–4.1) | 8.4 (6.8–10.3) | 53.7 (42.4–64.5) | 2.6 (2.1–3.2) | 745.4 (565.0–961.2) | -- | 1347.0 (1025.2–1693.8) | 5.6 (4.8–6.5) | 1323.3 (1043.2–1678.1) |
| Saint Kitts and Nevis | 7410.4 (6940.7–7976.1) | 25.0 (20.9–29.3) | 3526.1 (3144.3–3923.0) | 1147.6 (1097.8–1192.3) | 800.7 (752.7–844.9) | 127.9 (117.8–138.9) | 227.7 (215.3–241.0) | 206.8 (163.4–266.9) | 194.0 (166.2–227.0) | 145.0 (121.1–174.2) | 49.5 (39.9–59.8) | 0.1 (0.1–0.1) | 125.8 (105.3–146.1) | 2.8 (2.2–3.5) | 15.1 (12.2–18.3) | 107.9 (88.1–127.2) | 2.0 (1.6–2.4) | 702.9 (532.9–884.0) | -- | 1302.5 (981.8–1642.3) | 2.4 (2.1–2.8) | 1349.9 (1041.7–1741.9) |
| Saint Lucia | 7274.3 (6723.3–7861.4) | 25.2 (21.3–29.3) | 2770.4 (2434.2–3180.3) | 1162.4 (1106.6–1214.2) | 785.6 (724.7–852.6) | 135.0 (125.2–145.7) | 250.9 (239.0–263.9) | 250.3 (193.7–330.5) | 180.4 (157.6–216.2) | 147.0 (124.1–184.1) | 33.7 (27.1–42.2) | 0.04 (0.03–0.05) | 118.5 (99.1–136.9) | 4.6 (3.8–5.4) | 36.8 (29.9–44.6) | 77.3 (63.2–90.1) | 2.3 (1.9–2.8) | 719.8 (550.5–909.7) | -- | 1323.4 (1004.0–1712.2) | 6.4 (5.4–7.5) | 1946.8 (1524.1–2480.6) |
| Saint Vincent and the Grenadines | 9244.2 (8692.1–9875.1) | 909.4 (777.8–1180.3) | 3829.0 (3431.4–4461.2) | 1131.0 (1081.2–1179.2) | 787.0 (742.6–836.5) | 153.0 (123.4–142.9) | 291.1 (207.2–231.6) | 303.4 (239.7–385.0) | 191.4 (161.1–218.9) | 203.4 (117.4–173.5) | 44.4 (38.9–57.1) | 0.2 (0.1–0.1) | 129.2 (40.8–57.4) | 4.6 (3.7–5.5) | 25.4 (12.1–18.5) | 103.5 (23.2–35.3) | 2.1 (1.7–2.7) | 715.3 (541.6–907.0) | -- | 1303.3 (992.9–1673.7) | 2.7 (2.3–3.2) | 1145.4 (1796.8–2799.8) |
| Suriname | 8769.9 (8166.5–9526.8) | 955.0 (767.5–1152.1) | 4415.1 (3804.0–5106.1) | 1200.2 (1149.9–1249.9) | 804.5 (756.6–850.9) | 154.7 (145.4–166.0) | 250.8 (237.1–266.3) | 209.7 (145.0–191.9) | 166.2 (162.5–269.5) | 117.2 (96.2–142.8) | 49.3 (41.6–59.5) | 0.1 (0.1–0.1) | 69.1 (57.5–83.0) | 3.0 (2.4–3.8) | 5.3 (4.4–6.5) | 60.8 (50.0–74.3) | 2.5 (2.0–3.1) | 693.6 (526.7–866.5) | -- | 1370.4 (1038.5–1739.4) | 2.4 (2.0–2.8) | 857.1 (659.5– 1089.6) |
| Trinidad and Tobago | 8590.7 (7053.6–8221.0) | 23.8 (19.9–27.9) | 3709.2 (3199.4–4293.4) | 908.1 (871.7–944.3) | 590.7 (555.9–623.4) | 115.6 (106.1–124.5) | 207.9 (198.1–218.9) | 323.4 (257.8–413.1) | 171.3 (146.7–199.3) | 135.1 (112.6–163.5) | 36.4 (29.6–45.4) | 0.1 (0.1–0.1) | 82.7 (68.0–97.5) | 3.4 (2.7–4.2) | 11.4 (9.2–13.6) | 61.9 (50.0–73.7) | 2.1 (1.7–2.6) | 712.2 (540.6–895.5) | -- | 1305.9 (988.2–1684.2) | 4.9 (4.1–5.8) | 1149.3 (1869.5) |
| Trinidad and Tobago | 8351.6 (7680.5–8962.3) | 25.7 (22.1–29.9) | 4705.5 (4140.4–5374.5) | 1153.2 (1108.6–1204.2) | 772.5 (727.9–820.6) | 123.5 (114.1–132.8) | 265.8 (254.2–279.5) | 194.4 (150.5–249.5) | 165.9 (137.7–194.0) | 131.6 (105.2–157.8) | 34.6 (27.6–43.0) | 0.1 (0.05–0.1) | 52.2 (43.7–60.5) | 3.8 (3.1–4.7) | 6.8 (5.3–8.2) | 41.6 (34.1–49.1) | 2.2 (1.8–2.8) | 755.4 (580.5–979.0) | -- | 1352.3 (1032.9–1732.9) | 5.1 (4.3–6.0) | 1200.8 (946.3–1514.7) |
| Central Latin America | 6959.7 (6433.3–7489.2) | 25.2 (22.1–29.7) | 3078.1 (2685.4–3495.6) | 904.6 (872.0–940.9) | 572.4 (543.6–601.5) | 111.9 (101.6–121.4) | 226.0 (214.9–239.4) | 183.1 (137.6–235.3) | 252.9 (255.0–346.0) | 228.5 (190.0–279.3) | 65.0 (52.5–78.4) | 0.3 (0.3–0.4) | 96.5 (81.4–112.3) | 5.4 (4.4–6.6) | 12.6 (10.1–15.6) | 78.6 (64.9–92.9) | 2.4 (2.0–3.0) | 742.7 (560.1–954.0) | -- | 1333.4 (1003.7–1703.9) | 4.7 (3.9–5.5) | 1221.8 (944.7–1544.0) |
| Colombia | 7199.3 (6768.4–7733.3) | 937.3 (747.2–1128.2) | 2171.9 (1952.5–2484.2) | 963.4 (916.0–1017.1) | 568.2 (526.7–611.0) | 153.6 (142.0–166.0) | 248.7 (230.7–271.4) | 118.1 (93.1–154.7) | 200.7 (171.3–231.1) | 163.8 (133.8–194.8) | 37.1 (32.4–41.8) | 0.2 (0.1–0.2) | 45.9 (37.9–53.3) | 3.3 (2.7–4.1) | 3.0 (2.5–3.5) | 39.5 (32.1–47.1) | 3.2 (2.6–3.9) | 743.6 (569.0–940.8) | -- | 1587.6 (1210.3–2017.4) | 3.6 (3.1–4.2) | 1318.2 (1039.2–1627.0) |
| Costa Rica | 7269.1 (6685.2–7997.8) | 1049.0 (830.6–1270.6) | 1650.9 (1319.7–2385.9) | 988.3 (956.7–1022.3) | 564.1 (538.4–596.6) | 142.1 (133.4–151.7) | 290.4 (275.6–313.1) | 131.3 (101.4–174.8) | 255.9 (218.6–296.6) | 199.3 (164.4–239.9) | 56.9 (47.3–67.0) | 0.4 (0.3–0.5) | 59.5 (48.4–71.6) | 3.8 (3.1–4.6) | 1.8 (1.5–2.2) | 53.9 (43.1–65.8) | 3.4 (2.7–4.2) | 693.3 (531.7–881.9) | -- | 1345.3 (1016.4–1731.7) | 6.1 (5.1–7.3) | 1955.9 (1532.8–2417.1) |
| El Salvador | 6025.1 (5571.0–6479.9) | 33.7 (28.7–39.7) | 1294.6 (1161.3–1492.2) | 965.3 (934.4–1003.6) | 540.0 (514.9–570.6) | 167.1 (156.5–179.2) | 265.7 (253.6–279.0) | 155.0 (117.0–206.3) | 269.2 (226.3–316.4) | 235.1 (194.4–281.6) | 34.3 (27.2–43.6) | 0.3 (0.3–0.4) | 79.4 (68.1–90.9) | 4.7 (3.9–5.7) | 7.3 (5.9–8.8) | 67.4 (57.1–78.5) | 3.5 (2.9–4.3) | 756.4 (572.0–976.9) | -- | 1603.2 (1208.2–2040.2) | 7.6 (6.5–8.9) | 1678.5 (1299.6–2070.9) |
| Guatemala | 6096.6 (5638.7–6535.6) | 1056.0 (845.3–1287.3) | 1467.6 (1282.5–1665.8) | 899.0 (866.0–935.3) | 519.6 (492.4–548.9) | 154.3 (143.0–165.2) | 231.5 (219.5–245.1) | 76.4 (58.8–100.1) | 140.0 (116.7–169.4) | 113.6 (90.8–142.1) | 26.6 (20.7–33.4) | 0.03 (0.02–0.03) | 40.7 (33.2–48.7) | 3.0 (2.4–3.8) | 0.5 (0.5–0.7) | 37.2 (29.8–45.3) | 3.6 (2.9–4.4) | 698.3 (528.6–889.4) | -- | 1434.8 (1072.9–1840.1) | 1.4 (1.2–1.6) | 873.5 (686.9– 1097.0) |
| Honduras | 6568.4 (6088.9–7165.9) | 1039.5 (822.7–1255.8) | 1671.2 (1419.1–2035.9) | 822.5 (793.3–854.9) | 468.7 (445.5–495.6) | 170.0 (159.2–179.4) | 188.2 (178.7–198.9) | 63.1 (46.5–86.6) | 118.0 (105.7–147.7) | 98.5 (78.6–118.3) | 27.8 (21.5–35.1) | 0.1 (0.1–0.1) | 40.3 (36.2–54.0) | 3.0 (2.4–3.8) | 1.6 (1.3–2.0) | 40.3 (32.1–49.1) | 2.9 (2.4–3.7) | 683.4 (521.1–871.6) | -- | 1549.9 (1191.5–1976.5) | 2.7 (2.2–3.2) | 1260.7 (996.9–1597.2) |
| Mexico | 6722.2 (6272.6–7237.9) | 1056.1 (840.4–1298.2) | 1838.1 (1620.5–2137.9) | 1222.5 (1177.5–1271.6) | 719.9 (681.1–766.7) | 196.3 (183.3–210.4) | 317.6 (299.9–335.2) | 193.1 (149.3–246.1) | 138.8 (114.9–165.6) | 109.5 (86.9–135.1) | 29.5 (22.9–36.7) | 0.03 (0.02–0.03) | 47.3 (38.5–56.0) | 3.2 (2.6–4.1) | 1.6 (1.3–2.0) | 42.4 (33.7–51.3) | 2.9 (2.4–3.7) | 707.2 (533.7–894.3) | -- | 1560.9 (1193.3–1998.4) | 2.2 (1.8–2.5) | 743.4 (589.4–930.1) |
| Mexico | 7618.6 (7124.2–8194.9) | 860.5 (697.4–1049.6) | 2703.8 (2364.4–3116.6) | 942.9 (867.4–1025.5) | 516.6 (516.6–640.5) | 225.1 (130.9–162.4) | 399.2 (198.8–257.7) | 146.2 (75.2–130.8) | 190.5 (155.0–229.1) | 159.8 (124.2–198.9) | 31.0 (28.4–33.5) | 0.1 (0.04–0.1) | 64.3 (29.0–44.9) | 3.2 (2.6–4.0) | 3.2 (2.8–4.2) | 58.1 (22.9–37.7) | 3.2 (2.6–3.9) | 779.4 (596.9–992.3) | -- | 1779.3 (1323.9–2184.6) | 3.5 (2.5–3.4) | 1279.0 (995.6–1617.3) |
| Aguascalientes | 6916.3 (6393.8–7580.3) | 27.6 (23.4–32.4) | 2427.3 (2121.6–2846.5) | 938.9 (891.7–980.6) | 559.5 (493.7–640.6) | 142.8 (127.8–159.4) | 243.2 (214.9–282.5) | 110.3 (80.0–145.0) | 186.1 (150.7–222.6) | 155.3 (119.9–193.9) | 31.0 (28.4–33.8) | 0.1 (0.1–0.2) | 35.0 (27.7–42.7) | 3.1 (2.5–4.0) | 4.1 (3.4–5.1) | 27.7 (21.1–35.3) | 3.8 (3.1–4.6) | 808.8 (612.0–1021.6) | -- | 1817.7 (1388.7–2326.9) | 3.4 (2.8–3.9) | 1593.1 (1243.2–2039.2) |
| Baja California | 7199.7 (6709.6–7867.6) | 20.5 (17.4–24.6) | 2902.0 (2541.6–3383.7) | 1041.6 (951.6–1152.9) | 657.2 (580.6–733.2) | 157.5 (140.1–176.0) | 234.6 (207.2–264.4) | 200.3 (173.3–312.6) | 208.3 (169.2–246.6) | 177.4 (139.2–215.2) | 51.3 (38.6–64.0) | 0.04 (0.03–0.05) | 41.9 (33.2–52.3) | 3.2 (2.6–4.1) | 2.4 (2.0–2.9) | 36.3 (27.6–46.6) | 3.3 (2.7–4.1) | 800.7 (616.1–1007.7) | -- | 1781.2 (1366.9–2260.4) | 3.6 (3.0–4.2) | 1356.2 (1033.6–1744.9) |
| Baja California Sur | 7180.6 (6716.9–7817.3) | 21.0 (17.4–25.8) | 2988.1 (2614.2–3477.3) | 932.6 (861.5–1021.3) | 565.9 (509.1–645.5) | 142.1 (126.5–159.1) | 230.9 (202.9–265.0) | 103.8 (78.3–137.1) | 241.0 (195.9–293.8) | 210.0 (164.5–261.4) | 31.3 (28.8–34.1) | 0.1 (0.1–0.1) | 48.0 (38.0–57.8) | 3.2 (2.6–4.1) | 4.1 (3.3–4.9) | 40.7 (31.0–50.3) | 3.5 (2.9–4.3) | 821.9 (624.0–1050.4) | -- | 1758.9 (1320.1–2222.0) | 2.4 (2.0–2.8) | 1345.6 (1031.0–1715.8) |
| Campeche | 8258.2 (7751.1–8888.6) | 1116.6 (895.2–1374.4) | 3401.7 (2972.6–3985.1) | 916.4 (836.0–997.8) | 570.4 (505.3–637.1) | 132.2 (117.0–149.8) | 219.7 (192.9–250.9) | 77.5 (57.9–102.5) | 190.5 (156.0–230.8) | 159.5 (125.4–199.6) | 31.2 (29.7–34.0) | 0.1 (0.1–0.1) | 47.0 (37.5–57.5) | 3.3 (2.7–4.2) | 4.9 (3.9–5.9) | 38.7 (30.2–49.3) | 3.3 (2.7–4.1) | 798.0 (619.4–1020.0) | -- | 1674.9 (1274.9–2145.3) | 1.9 (1.6–2.2) | 1136.6 (886.4–1446.0) |
| Chiapas | 7713.9 (7241.1–8311.9) | 1096.6 (866.7–1332.9) | 3061.9 (2682.8–3534.8) | 918.9 (842.4–1010.7) | 567.5 (508.6–649.8) | 140.3 (124.5–157.3) | 217.0 (191.7–248.6) | 96.1 (71.2–128.3) | 154.7 (127.7–183.9) | 124.1 (96.9–154.8) | 30.9 (28.2–33.6) | 0.04 (0.03–0.05) | 34.0 (27.1–42.3) | 3.2 (2.6–4.1) | 2.5 (2.0–3.1) | 28.3 (21.4–36.5) | 3.1 (2.5–3.8) | 746.7 (565.5–945.9) | -- | 1633.4 (1233.1–2083.3) | 2.8 (2.4–3.3) | 910.7 (702.2–1144.1) |
| Chihuahua | 8082.4 (7581.9–8702.1) | 1083.5 (870.0–1315.7) | 2766.2 (2415.5–3175.5) | 927.4 (850.8–1018.9) | 583.1 (515.6–655.6) | 136.5 (123.1–153.7) | 213.7 (189.5–246.1) | 107.1 (80.0–138.6) | 185.5 (150.4–221.6) | 154.7 (120.3–188.9) | 31.0 (28.2–33.7) | 0.04 (0.03–0.1) | 45.1 (36.6–55.8) | 3.4 (2.7–4.2) | 3.0 (2.4–3.7) | 38.7 (30.3–49.0) | 3.0 (2.4–3.7) | 799.4 (609.5–1021.0) | -- | 1814.7 (1372.0–2264.7) | 2.6 (2.2–3.0) | 1453.2 (1138.6–1872.3) |
| Coahuila | 6798.8 (6330.0–7426.6) | 27.8 (23.7–33.1) | 2767.9 (2380.8–3235.8) | 960.2 (883.5–1041.9) | 583.7 (521.8–654.3) | 157.8 (141.3–177.3) | 225.2 (197.5–258.6) | 133.2 (98.6–174.2) | 189.3 (153.4–229.5) | 158.5 (122.5–198.5) | 31.1 (28.4–33.8) | 0.04 (0.03–0.1) | 37.2 (29.5–45.7) | 3.3 (2.7–4.1) | 2.7 (2.2–3.3) | 31.1 (23.6–39.5) | 3.1 (2.5–3.8) | 796.2 (606.0–1012.0) | -- | 1760.9 (1346.8–2238.5) | 2.4 (2.0–2.8) | 1085.6 (844.1–1385.6) |
| Colima | 6818.8 (6293.6–7459.2) | 21.2 (17.7–26.0) | 2601.5 (2274.6–3033.7) | 894.6 (811.4–981.2) | 545.2 (472.6–619.3) | 129.8 (114.7–146.5) | 225.6 (198.4–256.3) | 84.5 (62.2–112.2) | 217.1 (177.3–261.3) | 185.7 (147.6–229.4) | 31.8 (29.2–34.7) | 0.03 (0.02–0.04) | 49.5 (39.6–59.5) | 3.2 (2.6–4.1) | 5.2 (4.1–6.3) | 41.1 (32.3–50.5) | 3.4 (2.8–4.2) | 806.2 (612.6–1015.8) | -- | 1767.6 (1361.3–2232.0) | 2.8 (2.3–3.2) | 1344.4 (1050.6–1719.0) |
| Durango | 8095.6 (8020.9–9281.9) | 1119.1 (890.2–1360.7) | 3366.8 (2935.4–3904.1) | 838.6 (773.3–912.0) | 502.9 (445.0–570.5) | 136.5 (120.8–154.7) | 204.2 (179.6–235.1) | 92.2 (68.2–123.6) | 174.3 (145.2–215.5) | 147.5 (114.5–184.6) | 30.8 (28.1–33.6) | 0.1 (0.05–0.1) | 33.6 (26.4–41.9) | 3.4 (2.7–4.2) | 2.4 (2.4–3.6) | 27.4 (20.8–35.3) | 3.4 (2.7–4.1) | 799.3 (611.3–1023.0) | -- | 1717.1 (1321.2–2199.7) | 2.9 (2.4–3.4) | 1223.8 (933.9–1568.7) |
| Guanajuato | 7675.9 (7178.2–8269.2) | 1099.9 (880.9–1317.4) | 2556.3 (2215.1–2997.8) | 907.3 (830.0–992.7) | 548.0 (481.6–621.6) | 141.2 (125.2–160.1) | 224.0 (196.8–255.8) | 94.7 (80.1–125.2) | 186.2 (150.1–225.1) | 155.6 (119.7–193.9) | 31.0 (28.1–33.6) | 0.04 (0.03–0.1) | 42.0 (33.6–51.6) | 3.1 (2.5–4.0) | 3.8 (3.0–4.6) | 35.1 (27.0–44.1) | 3.3 (2.7–4.1) | 782.4 (602.2–990.2) | -- | 1783.4 (1364.1–2285.8) | 2.8 (2.4–3.3) | 1223.8 (933.9–1568.7) |
| Guerrero | 7399.9 (6916.4–7960.7) | 1105.8 (884.7–1333.2) | 2489.7 (2153.1–2881.5) | 891.9 (811.7–972.3) | 551.6 (479.3–619.6) | 134.3 (119.9–150.7) | 211.5 (186.9–244.6) | 95.3 (71.8–130.1) | 170.5 (141.7–206.1) | 139.7 (110.0–174.4) | 31.1 (28.6–33.8) | 0.03 (0.02–0.04) | 30.2 (24.3–37.3) | 3.2 (2.6–4.0) | 2.0 (1.6–2.5) | 24.9 (19.6–31.8) | 3.2 (2.6–3.9) | 751.7 (575.4–966.7) | -- | 1721.6 (1323.3–2189.7) | 2.7 (2.3–3.2) | 1025.8 (800.9–1297.4) |
| Michoacán de Ocampo | 7776.8 (7297.4–8384.9) | 1113.6 (890.1–1361.3) | 2713.4 (2349.9–3132.0) | 941.5 (865.1–1025.1) | 574.1 (508.7–650.3) | 146.1 (129.9–165.7) | 227.7 (200.3–260.1) | 102.3 (74.3–134.7) | 177.3 (144.3–211.3) | 146.7 (113.3–181.9) | 30.8 (28.2–33.3) | 0.03 (0.02–0.04) | 37.0 (29.5–45.8) | 3.2 (2.6–4.0) | 3.7 (3.0–4.5) | 30.1 (22.9–38.9) | 3.6 (2.9–4.4) | 792.8 (603.3–1001.3) | -- | 1672.7 (1274.5–2113.8) | 3.2 (2.7–3.8) | 1222.2 (948.6–1549.2) |
| Morelos | 7977.2 (7436.3–8623.6) | 1108.2 (887.3–1366.9) | 2529.0 (2195.8–2977.5) | 924.1 (849.6–996.1) | 562.4 (498.2–619.9) | 139.2 (123.2–154.8) | 228.5 (201.6–260.1) | 90.9 (65.8–121.6) | 192.2 (154.1–226.4) | 161.2 (123.2–194.6) | 31.3 (28.1–33.8) | 0.1 (0.1–0.1) | 32.9 (25.4–41.0) | 3.2 (2.6–4.0) | 5.2 (4.1–6.3) | 32.9 (25.6–41.8) | 3.7 (2.9–4.5) | 783.6 (605.2–1005.3) | -- | 1783.6 (1372.1–2274.7) | 4.2 (3.5–4.9) | 1583.2 (1268.5–2014.0) |
| México | 7783.2 (7271.1–8424.3) | 1110.8 (892.0–1358.6) | 2606.8 (2273.6–3029.4) | 919.8 (834.2–1005.8) | 557.4 (487.1–644.8) | 145.5 (128.9–163.1) | 222.8 (195.4–255.5) | 101.7 (75.4–135.5) | 176.9 (143.3–211.9) | 146.3 (113.3–182.6) | 30.9 (28.3–33.5) | 0.05 (0.04–0.1) | 27.8 (21.6–34.1) | 3.1 (2.5–3.9) | 2.4 (1.9–2.9) | 22.3 (16.5–28.7) | 2.8 (2.3–3.5) | 769.7 (585.4–976.4) | -- | 1723.4 (1315.6–2193.6) | 3.0 (2.5–3.4) | 1366.8 (1061.6–1742.6) |
| Mexico City | 6906.8 (6410.1–7548.0) | 64.8 (54.6–77.0) | 2383.6 (2087.1–2794.0) | 1008.7 (926.9–1112.9) | 604.1 (532.5–689.3) | 181.6 (162.0–202.8) | 230.1 (201.7–267.6) | 89.2 (65.9–120.0) | 251.2 (201.9–302.0) | 220.8 (171.9–271.5) | 30.8 (28.3–33.5) | 0.05 (0.04–0.1) | 31.6 (25.6–39.8) | 3.2 (2.5–4.0) | 2.7 (2.2–3.4) | 25.7 (19.6–33.7) | 3.3 (2.7–4.0) | 774.3 (588.7–970.9) | -- | 1736.7 (1330.4–2214.9) | 3.1

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brazil | 6369.1 (5957.6–6897.2) | 628.9 (504.6–755.4) | 1427.6 (1245.7–1658.8) | 1043.3 (964.1–1147.0) | 730.1 (665.3–824.3) | 133.8 (121.1–146.8) | 187.3 (165.8–214.2) | 164.3 (124.8–212.9) | 186.3 (157.2–218.2) | 143.2 (114.1–174.9) | 43.3 (40.1–46.8) | 0.2 (0.2–0.3) | 130.0 (107.3–151.5) | 4.1 (3.4–5.0) | 7.6 (6.3–9.1) | 118.3 (95.6–139.2) | 2.5 (2.0–3.0) | 806.2 (623.0–999.4) | -- | 1350.2 (1030.0–1727.2) | 5.7 (4.8–6.8) | 1453.2 (1095.7–1878.6) |
| Acre | 6438.8 (6026.9–6930.7) | 1102.9 (882.6–1354.1) | 1155.5 (1005.0–1336.4) | 1224.5 (1119.6–1343.5) | 857.0 (762.1–965.8) | 148.7 (134.2–164.2) | 230.6 (201.8–264.1) | 188.0 (144.7–238.4) | 174.9 (145.0–203.0) | 132.1 (102.8–159.9) | 43.0 (39.5–46.7) | 0.2 (0.2–0.3) | 89.5 (71.8–108.9) | 3.9 (3.1–4.7) | 8.3 (6.6–10.1) | 79.7 (60.1–96.5) | 2.1 (1.7–2.6) | 797.7 (611.1–1009.6) | -- | 1336.3 (1019.6–1672.1) | 6.6 (5.4–8.0) | 1136.6 (865.7–1455.6) |
| Alagoas | 7000.7 (6538.7–7493.2) | 1108.5 (887.8–1378.2) | 1538.4 (1305.8–1815.2) | 1356.7 (1237.3–1481.4) | 984.9 (965.0–1107.0) | 163.7 (148.4–181.8) | 220.4 (194.5–252.8) | 192.8 (146.7–248.1) | 160.3 (135.0–187.2) | 117.7 (93.5–144.4) | 42.7 (39.4–46.3) | 0.1 (0.1–0.2) | 129.0 (106.2–153.6) | 3.6 (3.0–4.5) | 6.8 (5.5–8.3) | 118.6 (96.6–142.5) | 2.4 (1.9–2.9) | 804.5 (618.6–1022.1) | -- | 1391.1 (1035.9–1779.4) | 5.5 (4.6–6.7) | 1202.3 (912.6–1566.1) |
| Amapá | 6988.7 (6553.2–7530.6) | 1093.9 (872.3–1334.1) | 1319.2 (1140.2–1539.6) | 1337.9 (1235.2–1471.8) | 943.5 (844.6–1061.7) | 173.0 (154.2–192.0) | 235.0 (205.1–270.3) | 162.9 (124.0–210.3) | 182.9 (153.7–211.4) | 139.5 (112.1–169.2) | 43.5 (40.0–46.9) | 0.3 (0.2–0.4) | 110.9 (89.2–132.7) | 4.8 (4.0–5.7) | 14.7 (12.0–17.5) | 91.5 (70.3–112.6) | 2.0 (1.6–2.5) | 779.4 (590.1–987.9) | -- | 1285.0 (971.4–1622.7) | 6.2 (5.1–7.5) | 1639.4 (1252.5–2067.9) |
| Amazonas | 6438.3 (6059.2–6954.7) | 1108.0 (887.8–1357.6) | 1200.8 (1040.6–1406.8) | 1174.4 (1086.8–1281.2) | 829.9 (751.2–927.6) | 148.7 (132.8–165.3) | 206.1 (183.1–234.1) | 173.0 (135.0–223.1) | 178.7 (150.6–207.8) | 136.1 (106.6–167.4) | 42.7 (39.5–46.3) | 0.2 (0.2–0.3) | 106.6 (86.2–128.1) | 3.9 (3.1–4.7) | 9.9 (8.0–12.0) | 92.9 (73.1–114.5) | 2.2 (1.8–2.7) | 793.8 (604.3–999.6) | -- | 1296.8 (990.0–1645.3) | 5.3 (4.4–6.4) | 1166.6 (894.7–1496.5) |
| Bahia | 6638.7 (6220.5–7154.9) | 1100.4 (873.5–1332.5) | 1190.6 (1039.7–1385.5) | 1138.9 (1043.9–1240.5) | 810.5 (719.7–909.3) | 144.1 (130.5–159.0) | 193.3 (170.2–219.8) | 156.3 (136.3–259.4) | 163.6 (139.3–191.6) | 121.1 (97.2–149.3) | 42.7 (39.1–46.0) | 0.2 (0.2–0.3) | 109.2 (87.6–130.0) | 4.0 (3.3–4.9) | 6.3 (5.1–7.7) | 98.9 (77.1–119.4) | 2.3 (1.8–2.8) | 810.5 (633.6–1015.6) | -- | 1334.8 (1006.8–1692.9) | 5.9 (5.0–7.1) | 1369.8 (1034.3–1763.1) |
| Ceará | 6956.7 (6455.5–7558.0) | 1108.1 (876.5–1341.8) | 1317.8 (1111.1–1566.5) | 1160.8 (1061.2–1270.4) | 815.1 (723.9–927.6) | 138.3 (124.8–154.1) | 217.2 (193.0–248.0) | 158.8 (119.6–208.8) | 166.8 (140.6–197.2) | 124.1 (97.8–154.4) | 42.7 (39.3–46.3) | 0.3 (0.3–0.4) | 140.6 (115.9–167.1) | 3.9 (3.2–4.8) | 10.5 (8.6–12.9) | 126.2 (102.8–151.8) | 2.5 (2.0–3.1) | 777.5 (603.2–980.1) | -- | 1318.2 (1007.7–1696.9) | 5.6 (4.7–6.8) | 1694.8 (1273.4–2143.9) |
| Distrito Federal | 5469.9 (5084.3–5981.4) | 82.3 (69.8–96.3) | 1191.5 (1030.3–1361.3) | 1052.3 (962.9–1144.5) | 752.5 (669.6–845.9) | 112.6 (101.9–125.3) | 196.0 (172.8–222.4) | 165.3 (127.6–217.2) | 230.3 (187.5–271.6) | 186.5 (145.3–227.1) | 44.1 (40.4–47.5) | 0.2 (0.2–0.3) | 145.6 (118.7–172.2) | 3.9 (3.2–4.8) | 9.9 (7.9–12.1) | 131.8 (105.8–159.3) | 2.7 (2.2–3.4) | 794.8 (618.8–1015.0) | -- | 1383.8 (1057.8–1763.3) | 5.4 (4.5–6.4) | 1217.9 (889.1–1635.6) |
| Espírito Santo | 6936.4 (6466.0–7523.3) | 1101.1 (878.1–1348.6) | 1609.8 (1406.0–1869.5) | 1049.1 (951.0–1143.4) | 769.2 (673.7–859.6) | 111.4 (99.7–125.8) | 175.8 (155.2–200.6) | 198.3 (151.8–251.7) | 193.1 (160.2–229.2) | 149.0 (117.1–184.7) | 44.3 (40.9–48.2) | 0.2 (0.2–0.3) | 110.1 (90.1–132.2) | 4.5 (3.7–5.3) | 14.0 (11.3–16.8) | 91.6 (73.5–113.6) | 2.4 (1.9–2.9) | 807.8 (620.6–1033.7) | -- | 1354.2 (1032.8–1715.4) | 5.8 (4.8–7.0) | 1381.6 (1025.7–1811.0) |
| Goiás | 6909.5 (6470.3–7470.9) | 1113.1 (875.0–1341.6) | 1623.2 (1412.4–1877.7) | 1057.4 (977.6–1174.5) | 733.6 (660.7–843.6) | 130.5 (117.6–144.1) | 201.3 (175.8–231.6) | 154.8 (117.8–201.0) | 182.7 (156.6–214.6) | 139.5 (112.6–170.0) | 43.4 (40.0–47.0) | 0.2 (0.1–0.2) | 146.5 (120.9–172.2) | 4.2 (3.5–5.1) | 15.5 (12.5–18.6) | 126.8 (100.9–154.4) | 2.5 (2.0–3.0) | 789.2 (614.4–1000.6) | -- | 1300.4 (959.7–1667.6) | 5.3 (4.5–6.2) | 1420.6 (1076.7–1904.5) |
| Maranhão | 6530.8 (6098.2–7014.7) | 1100.1 (879.4–1346.6) | 1314.6 (1070.7–1567.5) | 1303.2 (1193.1–1429.1) | 910.5 (821.6–1041.6) | 153.8 (134.7–194.6) | 214.3 (188.4–246.0) | 196.9 (154.9–251.5) | 152.7 (130.0–177.9) | 110.5 (87.9–137.1) | 42.2 (38.6–45.9) | 0.2 (0.2–0.3) | 81.9 (73.8–112.5) | 4.0 (3.3–4.9) | 6.7 (5.3–8.1) | 70.1 (63.9–101.5) | 2.3 (1.8–2.8) | 758.7 (582.5–953.1) | -- | 1375.2 (1037.9–1780.8) | 4.3 (3.6–5.2) | 1004.7 (766.9–1306.2) |
| Mato Grosso | 6695.9 (6239.0–7269.9) | 1100.2 (886.8–1336.3) | 1454.3 (1265.0–1683.7) | 990.6 (909.7–1078.9) | 710.5 (636.3–796.0) | 112.6 (101.2–124.4) | 174.2 (153.0–199.3) | 194.4 (150.2–247.8) | 187.4 (156.0–220.2) | 144.0 (111.4–178.3) | 43.6 (40.5–47.4) | 0.2 (0.1–0.2) | 112.7 (92.3–134.5) | 4.8 (4.0–5.7) | 7.1 (5.8–8.7) | 100.8 (80.4–122.8) | 2.5 (2.0–3.1) | 806.7 (624.0–1014.1) | -- | 1290.0 (976.6–1653.0) | 5.4 (4.5–6.6) | 1380.9 (1038.6–1769.7) |
| Mato Grosso do Sul | 6940.2 (6324.8–7274.5) | 1107.4 (880.9–1347.0) | 1556.6 (1346.4–1791.4) | 1156.6 (1047.2–1263.0) | 820.3 (725.6–921.2) | 135.1 (121.7–150.4) | 211.3 (187.4–243.9) | 174.7 (135.0–225.0) | 201.4 (160.9–226.5) | 148.1 (117.2–181.9) | 43.6 (40.3–47.0) | 0.1 (0.1–0.1) | 141.1 (110.6–167.1) | 4.1 (3.4–5.0) | 13.9 (11.0–16.7) | 112.5 (90.4–137.9) | 2.3 (1.9–2.8) | 806.2 (628.9–1008.4) | -- | 1361.2 (1040.9–1730.7) | 5.9 (4.9–7.0) | 1133.1 (824.7–1462.4) |
| Minas Gerais | 6960.7 (6506.0–7535.3) | 1122.9 (901.3–1364.4) | 1439.3 (1253.6–1662.4) | 1004.3 (922.2–1118.2) | 693.5 (621.5–796.4) | 131.2 (117.9–145.4) | 187.0 (162.8–216.5) | 167.0 (128.2–213.7) | 180.3 (150.8–211.3) | 137.4 (107.7–169.6) | 43.0 (39.8–46.9) | 0.2 (0.1–0.2) | 127.6 (102.0–153.9) | 4.1 (3.4–5.1) | 9.4 (7.6–11.4) | 124.1 (100.7–151.2) | 2.8 (2.3–3.4) | 800.0 (612.8–1001.9) | -- | 1331.9 (1020.8–1722.4) | 6.6 (5.5–7.8) | 1648.3 (1236.5–2118.6) |
| Pará | 6348.8 (5913.4–6823.5) | 1104.2 (886.2–1335.0) | 1043.0 (873.0–1237.2) | 1133.8 (1038.8–1247.3) | 822.4 (733.6–932.9) | 133.5 (121.0–148.6) | 186.5 (163.5–214.8) | 170.7 (128.5–221.2) | 167.8 (143.2–195.9) | 124.6 (99.9–152.5) | 43.1 (39.7–46.6) | 0.5 (0.4–0.6) | 102.6 (85.5–122.3) | 4.2 (3.5–5.1) | 6.3 (5.2–7.9) | 92.1 (73.0–112.7) | 2.1 (1.7–2.7) | 786.7 (604.1–996.7) | -- | 1292.0 (977.3–1639.3) | 5.5 (4.5–6.6) | 1258.8 (960.1–1585.5) |
| PB | 6408.4 (5963.0–6971.7) | 1115.6 (892.1–1355.5) | 1267.3 (1082.0–1479.9) | 997.0 (911.0–1084.1) | 656.8 (585.5–740.7) | 146.1 (131.1–161.7) | 201.9 (178.1–229.8) | 175.3 (137.0–225.8) | 155.3 (133.1–181.2) | 114.0 (91.2–141.1) | 41.5 (38.4–45.0) | 0.2 (0.2–0.3) | 143.1 (118.9–171.3) | 3.9 (3.2–4.8) | 8.4 (6.7–10.2) | 130.8 (106.5–159.0) | 2.6 (2.1–3.2) | 789.6 (603.7–998.6) | -- | 1368.2 (1035.7–1748.0) | 4.9 (4.0–5.8) | 1142.0 (837.4–1486.2) |
| Paraíba | 6005.9 (5596.6–6511.4) | 73.3 (62.6–86.7) | 1719.4 (1477.4–1988.6) | 1066.9 (986.7–1164.6) | 777.1 (697.7–876.5) | 113.2 (102.0–125.6) | 184.1 (162.2–214.8) | 162.5 (125.5–209.7) | 201.4 (167.6–238.8) | 157.7 (123.4–195.6) | 43.9 (40.3–47.5) | 0.3 (0.2–0.4) | 111.5 (90.8–132.0) | 5.1 (4.2–6.0) | 7.1 (5.9–8.6) | 99.3 (79.4–119.8) | 2.7 (2.2–3.3) | 816.2 (631.0–1028.6) | -- | 1347.2 (1023.7–1731.8) | 5.4 (4.5–6.4) | 1353.1 (1015.4–1743.6) |
| Pernambuco | 6606.6 (6152.9–7139.1) | 1105.1 (874.4–1327.4) | 1365.9 (1184.0–1592.1) | 1035.6 (950.1–1140.4) | 718.4 (644.3–818.2) | 140.1 (125.2–155.4) | 185.0 (161.4–212.1) | 169.8 (130.0–212.8) | 171.4 (144.9–200.1) | 128.3 (101.8–155.3) | 43.3 (39.9–46.9) | 0.2 (0.2–0.2) | 105.9 (86.7–127.7) | 3.6 (3.0–4.5) | 7.1 (5.7–8.6) | 95.2 (76.5–116.8) | 2.5 (2.0–3.1) | 779.9 (595.1–984.0) | -- | 1357.8 (1025.0–1711.1) | 4.7 (3.9–5.7) | 1308.3 (989.7–1689.2) |
| Piauí | 6308.3 (5901.1–6813.1) | 1117.1 (894.2–1374.6) | 1181.7 (1020.7–1372.7) | 1114.4 (1017.9–1223.5) | 792.1 (705.2–887.8) | 137.9 (123.6–154.3) | 193.1 (168.5–222.1) | 243.0 (194.3–306.1) | 150.7 (127.4–172.1) | 108.6 (86.0–127.9) | 42.2 (39.0–45.7) | 0.2 (0.1–0.2) | 103.9 (83.4–125.2) | 4.0 (3.3–4.9) | 6.4 (5.2–7.9) | 93.5 (73.3–114.8) | 2.0 (1.7–2.5) | 770.0 (588.8–973.6) | -- | 1317.2 (1000.1–1681.1) | 5.5 (4.5–6.6) | 1016.1 (747.1–1309.9) |
| Rio de Janeiro | 5726.4 (5329.0–6289.1) | 50.3 (42.5–59.2) | 1306.9 (1142.9–1522.1) | 1023.8 (955.2–1118.9) | 693.3 (619.9–789.7) | 150.9 (135.4–166.7) | 185.0 (163.5–211.7) | 149.2 (112.7–194.7) | 181.0 (151.4–213.6) | 138.6 (108.5–171.5) | 42.7 (39.3–46.4) | 0.1 (0.1–0.1) | 132.8 (116.9–167.1) | 3.7 (3.0–4.6) | 5.1 (4.1–6.3) | 122.9 (108.6–157.6) | 2.5 (2.0–3.1) | 795.1 (621.0–998.6) | -- | 1354.1 (1032.7–1718.6) | 5.7 (4.8–6.7) | 1486.2 (1110.2–1929.5) |
| Rio Grande do Norte | 6736.2 (6286.8–7274.7) | 1117.9 (882.1–1353.3) | 1490.8 (1295.3–1734.2) | 1016.3 (941.5–1101.8) | 712.0 (644.3–795.4) | 128.7 (115.1–143.6) | 183.2 (160.4–212.3) | 198.3 (152.4–252.1) | 171.3 (143.8–199.0) | 129.1 (100.5–157.1) | 42.2 (38.8–45.6) | 0.3 (0.3–0.4) | 95.9 (78.5–113.9) | 4.2 (3.5–5.1) | 6.6 (5.3–8.1) | 85.1 (68.3–103.2) | 2.6 (2.1–3.2) | 794.8 (608.1–1001.6) | -- | 1358.0 (1033.7–1742.4) | 6.1 (5.0–7.3) | 1294.5 (970.8–1665.6) |
| Rio Grande do Sul | 5997.2 (5588.1–6480.9) | 49.1 (41.5–57.8) | 1648.3 (1439.5–1919.3) | 1103.7 (1008.7–1236.2) | 813.7 (722.1–944.3) | 113.7 (101.6–126.7) | 183.8 (162.1–210.3) | 155.4 (117.1–201.3) | 210.9 (177.1–252.3) | 167.3 (132.8–209.5) | 43.8 (40.2–47.6) | 0.3 (0.2–0.4) | 140.1 (112.2–170.5) | 4.4 (3.6–5.3) | 8.9 (7.2–10.8) | 120.8 (62.4–100.2) | 2.3 (1.9–2.9) | 816.9 (632.5–1032.2) | -- | 1366.5 (1052.6–1752.8) | 5.9 (5.5–8.0) | 1398.5 (1051.6–1769.1) |
| Rondônia | 6529.7 (6121.1–7062.7) | 1098.5 (873.4–1338.8) | 1381.2 (1194.5–1602.2) | 1085.4 (991.4–1219.4) | 780.3 (693.3–913.2) | 128.8 (114.3–143.7) | 184.6 (160.9–212.0) | 197.3 (157.4–251.9) | 184.1 (152.2–216.9) | 140.8 (110.4–172.2) | 43.4 (40.1–46.8) | 0.2 (0.2–0.3) | 101.1 (81.1–123.9) | 4.1 (3.4–4.9) | 6.3 (5.1–7.7) | 90.7 (71.0–112.7) | 2.0 (1.6–2.5) | 806.9 (613.4–1015.3) | -- | 1300.2 (995.8–1672.2) | 5.7 (4.7–6.8) | 1167.8 (858.8–1503.0) |
| Roraima | 6402.2 (5981.8–6908.6) | 1092.0 (866.4–1320.1) | 1139.7 (980.0–1321.4) | 1146.8 (1041.5–1256.3) | 840.1 (741.9–951.8) | 136.5 (119.5–153.0) | 180.3 (159.3–208.3) | 180.6 (150.6–240.7) | 183.1 (152.5–213.1) | 140.3 (109.0–170.8) | 42.8 (39.3–46.4) | 0.4 (0.3–0.5) | 144.6 (119.3–175.5) | 4.1 (3.4–5.0) | 10.9 (8.7–13.2) | 129.6 (105.3–158.1) | 2.1 (1.7–2.6) | 802.8 (620.5–1014.4) | -- | 1354.3 (1012.4–1747.8) | 4.0 (3.3–4.7) | 1152.7 (867.1–1497.9) |
| Santa Catarina | 6049.4 (5607.4–6609.7) | 57.7 (49.3–67.9) | 1714.4 (1492.7–1991.7) | 920.3 (839.2–1031.5) | 689.3 (611.6–796.2) | 105.7 (95.2–117.4) | 130.7 (114.2–152.4) | 155.6 (115.7–199.8) | 215.1 (178.4–254.3) | 171.5 (135.1–211.3) | 44.0 (40.7–47.5) | 0.1 (0.1–0.2) | 119.8 (98.1–142.9) | 5.0 (4.1–5.9) | 7.3 (5.8–8.8) | 107.6 (86.4–130.8) | 2.4 (2.0–3.0) | 823.4 (632.2–1046.1) | -- | 1305.2 (999.6–1665.9) | 6.5 (5.5–7.8) | 1597.7 (1176.7–2108.7) |
| São Paulo | 5944.6 (5464.9–6508.8) | 50.8 (43.0–59.9) | 1458.6 (1261.2–1685.6) | 933.4 (853.9–1035.5) | 625.5 (557.5–720.4) | 134.3 (120.8–149.4) | 180.2 (159.8–206.1) | 139.5 (103.0–185.4) | 201.0 (169.2–238.5) | 157.7 (124.5–195.5) | 43.7 (40.2–47.1) | 0.1 (0.1–0.2) | 164.3 (135.5–197.0) | 3.8 (3.1–4.6) | 5.3 (4.3–6.4) | 155.3 (127.2–187.8) | 2.6 (2.1–3.1) | 830.3 (638.3–1045.5) | -- | 1383.4 (1030.5–1786.9) | 5.6 (4.7–6.6) | 1606.0 (1200.8–2092.7) |
| Sergipe | 6990.9 (6508.6–7541.3) | 1110.7 (898.7–1356.9) | 1346.2 (1165.2–1554.1) | 1206.8 (1109.6–1330.7) | 854.8 (773.8–975.0) | 155.6 (138.6–172.4) | 207.0 (181.4–237.3) | 168.3 (130.1–217.9) | 157.9 (133.1–183.3) | 115.6 (89.2–140.4) | 42.4 (39.0–46.3) | 0.2 (0.1–0.2) | 118.6 (96.9–142.0) | 3.8 (3.2–4.7) | 9.1 (7.4–11.1) | 105.7 (84.6–129.9) | 2.2 (1.8–2.7) | 811.2 (614.7–1029.5) | -- | 1356.8 (1023.6–1724.4) | 6.4 (5.3–7.7) | 1622.9 (1221.5–2072.3) |
| Tocantins | 6755.0 (6305.2–7262.8) | 1105.2 (885.1–1343.1) | 1449.6 (1250.9–1689.9) | 1243.5 (1133.8–1375.6) | 894.5 (796.2–1029.9) | 150.8 (135.6–167.6) | 209.7 (186.1–238.9) | 226.2 (178.3–287.8) | 184.1 (155.2–213.9) | 139.4 (110.8–168.3) | 44.8 (41.3–48.7) | 0.3 (0.3–0.4) | 108.7 (89.0–129.0) | 4.6 (3.8–5.5) | 10.3 (8.4–12.6) | 93.7 (74.3–113.4) | 2.1 (1.7–2.6) | 771.3 (595.7–974.2) | -- | 1323.9 (1010.5–1699.7) | 4.5 (3.8–5.4) | 1203.7 (901.8–1534.8) |
| Paraguay | 6682.0 (6262.4–7203.9) | 1064.0 (856.5–1288.8) | 1776.1 (1546.2–1991.3) | 1112.2 (1065.5–1160.0) | 759.4 (715.2–800.8) | 126.4 (115.6–137.0) | 226.4 (223.4–249.1) | 191.2 (147.0–250.5) | 216.5 (188.8–252.1) | 174.7 (148.8–210.5) | 42.2 (34.8–50.4) | 0.1 (0.1–0.1) | 63.4 (55.4–84.4) | 3.4 (2.7–4.2) | 2.2 (1.7–2.7) | 54.8 (50.1–78.8) | 2.4 (2.0–3.0) | 771.0 (596.2–958.8) | -- | 1349.6 (1043.4–1716.9) | 7.5 (6.3–9.2) | 949.0 (722.7–1188.9) |
| | **8188.3** | **510.1** | **4015.2** | **1135.3** | **703.2** | **201.9** | **145.8** | **238.2** | **119.9** | **56.5** | **63.0** | **0.6** | **41.1** | **3.4** | **0.4** | **37.3** | **2.0** | **439.1** | -- | **1068.6** | **2.8** | **1589.5** |
| **North Africa and Middle East** | **(7715.1–8733.4)** | **(413.5–614.2)** | **(3569.1–4497.3)** | **(1085.0–1191.8)** | **(745.6–848.5)** | **(190.2–214.7)** | **(136.3–157.2)** | **(191.0–301.4)** | **(104.8–136.5)** | **(46.2–67.7)** | **(53.7–72.0)** | **(0.5–0.8)** | **(33.7–49.3)** | **(2.8–4.2)** | **(0.3–0.5)** | **(29.9–45.2)** | **(1.6–2.5)** | **(328.4–560.4)** | -- | **(810.0–1372.7)** | **(2.4–3.1)** | **(1268.3–1969.0)** |
| Afghanistan | 8380.3 (7715.1–8733.4) | 510.3 (413.5–614.2) | 4015.2 (3569.1–4497.3) | 1135.3 (1085.0–1191.8) | 702.7 (745.6–848.5) | 201.9 (190.2–214.7) | 145.8 (136.3–157.2) | 238.2 (191.0–301.4) | 119.9 (104.8–136.5) | 56.5 (46.2–67.7) | 63.0 (53.7–72.0) | 0.6 (0.5–0.8) | 41.1 (33.7–49.3) | 3.4 (2.8–4.2) | 0.4 (0.3–0.5) | 37.3 (29.9–45.2) | 2.0 (1.6–2.5) | 439.1 (328.4–560.4) | -- | 1068.6 (810.0–1372.7) | 2.8 (2.4–3.1) | 1589.5 (1268.3–1969.0) |
| Algeria | 8816.4 (8262.0–9599.5) | 734.3 (570.8–919.1) | 4582.4 (3955.8–5328.8) | 1447.0 (1378.6–1517.0) | 1019.1 (954.0–1089.8) | 294.8 (276.6–314.4) | 141.5 (131.7–152.7) | 251.9 (200.9–325.4) | 78.8 (67.9–92.1) | 26.6 (21.3–32.6) | 51.9 (42.7–63.1) | 0.4 (0.3–0.4) | 19.8 (16.2–23.8) | 3.8 (3.2–4.6) | 0.4 (0.3–0.4) | 15.6 (11.7–19.9) | 1.5 (1.2–1.8) | 406.8 (300.7–515.7) | -- | 976.8 (738.6–1265.8) | 1.5 (1.3–1.8) | 1299.6 (1018.6–1654.3) |
| Afghanistan | 8217.1 (7593.9–8896.5) | 689.6 (562.4–840.9) | 3565.7 (3091.3–4163.1) | 1050.8 (1007.3–1097.8) | 731.6 (691.4–773.2) | 186.6 (174.4–200.5) | 137.8 (128.6–148.0) | 282.4 (219.9–362.9) | 120.0 (102.3–138.6) | 66.3 (46.0–67.5) | 63.0 (51.1–75.8) | 0.8 (0.6–1.0) | 36.6 (29.2–45.3) | 3.2 (2.6–3.9) | 0.7 (0.6–0.9) | 32.7 (25.6–41.3) | 1.9 (1.5–2.3) | 431.8 (316.9–559.8) | -- | 1075.5 (816.9–1370.7) | 2.1 (1.8–2.4) | 1972.1 (1570.8–2467.7) |
| Bahrain | 6830.3 (6300.8–7385.6) | 42.5 (36.1–50.1) | 3334.0 (2844.6–3856.2) | 1033.9 (991.0–1079.2) | 656.6 (614.4–699.7) | 229.8 (215.4–245.8) | 152.4 (143.1–162.8) | 178.1 (138.4–236.4) | 141.1 (121.1–163.9) | 80.9 (66.1–98.1) | 60.4 (48.8–75.6) | 0.02 (0.02–0.03) | 97.0 (81.2–115.3) | 2.8 (2.2–3.6) | 1.8 (1.5–2.2) | 92.3 (76.6–110.4) | 1.8 (1.5–2.2) | 441.3 (326.0–567.7) | -- | 1022.1 (777.9–1301.4) | 3.7 (3.2–4.3) | 1300.3 (1023.9–1632.7) |
| Egypt | 9572.5 (8938.8–10277.3) | 852.5 (681.0–1049.8) | 5119.5 (4538.1–5842.4) | 1346.7 (1269.0–1431.0) | 981.0 (927.2–1033.8) | 230.8 (217.9–245.9) | 141.8 (133.2–151.3) | 217.5 (168.0–282.6) | 127.4 (110.0–145.3) | 60.8 (49.1–72.6) | 66.5 (55.2–79.4) | 0.3 (0.3–0.4) | 30.7 (24.6–38.1) | 2.6 (2.0–3.3) | 0.02 (0.02–0.03) | 28.1 (22.2–34.9) | 1.7 (1.4–2.2) | 439.2 (330.7–558.0) | -- | 1066.9 (805.7–1388.3) | 1.8 (1.5–2.0) | 1545.3 (1250.1–1948.3) |
| Iran (Islamic Republic of) | 8465.1 (7831.6–9296.6) | 389.5 (318.7–467.5) | 3921.8 (3305.0–4645.6) | 1007.7 (916.3–1107.0) | 759.2 (672.1–849.4) | 124.4 (110.3–141.3) | 128.1 (112.1–146.5) | 245.7 (194.0–306.8) | 111.4 (100.1–123.3) | 53.3 (42.4–64.2) | 57.7 (53.4–62.7) | 0.6 (0.5–0.7) | 41.0 (33.1–51.1) | 3.6 (2.9–4.5) | 0.8 (0.6–1.0) | 36.6 (28.8–46.5) | 2.1 (1.7–2.6) | 474.6 (353.8–604.5) | -- | 1092.2 (827.0–1400.9) | 2.5 (2.2–2.9) | 2304.3 (1780.3–2928.9) |
| Iraq | 8066.0 (7420.3–8965.4) | 45.7 (39.2–54.5) | 4323.5 (3606.4–5228.8) | 1020.8 (925.5–1118.8) | 776.1 (687.3–870.0) | 119.0 (104.3–138.3) | 129.8 (113.6–147.5) | 210.6 (160.6–270.9) | 108.3 (95.7–119.8) | 50.9 (41.2–61.6) | 57.1 (52.3–61.9) | 0.5 (0.3–0.6) | 37.4 (29.3–47.2) | 3.5 (2.9–4.4) | 0.4 (0.3–0.5) | 33.5 (25.3–43.8) | 2.2 (1.8–2.8) | 481.9 (358.1–621.0) | -- | 1108.9 (844.4–1420.8) | 2.1 (1.8–2.4) | 1779.5 (1379.9–2263.6) |
| Jordan | 10862.2 (9927.6–12043.5) | 683.8 (551.4–838.3) | 4265.2 (3607.0–5094.8) | 1107.4 (1001.4–1223.7) | 853.7 (745.9–961.4) | 130.7 (115.0–149.0) | 127.6 (111.7–145.7) | 254.0 (202.8–320.3) | 112.5 (101.2–125.0) | 54.5 (43.5–66.1) | 57.6 (53.8–62.3) | 0.5 (0.4–0.7) | 23.6 (18.5–30.9) | 3.4 (2.7–4.2) | 0.4 (0.3–0.5) | 19.9 (14.8–26.9) | 2.0 (1.6–2.5) | 480.8 (358.6–613.0) | -- | 1097.2 (828.7–1412.9) | 1.5 (1.3–1.7) | 4548.7 (3617.8–5859.8) |
| Kuwait | 8210.7 (7530.6–9025.6) | 43.4 (37.4–50.9) | 4067.7 (3424.9–4857.0) | 1230.4 (1113.1–1373.7) | 992.2 (873.8–1125.6) | 118.2 (104.4–135.2) | 125.2 (109.0–144.9) | 230.2 (179.7–293.9) | 107.9 (96.7–120.0) | 50.5 (40.7–61.1) | 56.9 (52.5–61.7) | 0.7 (0.5–0.9) | 27.3 (21.1–34.8) | 3.3 (2.7–4.2) | 0.4 (0.3–0.5) | 23.6 (17.4–30.9) | 2.4 (1.9–2.9) | 461.8 (345.9–586.4) | -- | 1086.7 (818.8–1380.1) | 1.7 (1.5–1.9) | 2066.0 (1605.6–2687.6) |
| Lebanon | 8289.4 (7539.5–9412.9) | 56.1 (48.8–65.8) | 4013.5 (3378.5–4806.0) | 1066.1 (908.4–1101.3) | 756.7 (671.3–850.7) | 113.7 (99.6–130.1) | 132.4 (116.5–152.3) | 248.1 (195.8–310.8) | 129.8 (100.2–122.6) | 56.5 (41.0–62.9) | 58.3 (53.7–63.0) | 0.8 (0.6–1.1) | 34.9 (27.6–43.3) | 3.6 (2.6–4.1) | 0.4 (0.4–0.7) | 31.1 (23.8–39.4) | 2.2 (1.8–2.8) | 463.7 (341.9–586.3) | -- | 1057.4 (791.8–1336.2) | 3.7 (3.2–4.3) | 1871.4 (1826.8–3313.1) |
| Libya | 8694.3 (8027.1–9555.7) | 673.7 (546.0–831.1) | 3837.5 (3246.0–4645.6) | 1000.2 (916.3–1107.0) | 747.1 (658.1–853.8) | 126.1 (110.6–143.4) | 131.2 (115.5–150.5) | 307.2 (252.9–376.5) | 116.8 (104.2–130.4) | 57.6 (45.0–70.0) | 58.9 (54.2–64.1) | 0.6 (0.4–0.7) | 47.0 (37.6–58.6) | 3.6 (2.9–4.5) | 0.8 (0.6–1.0) | 42.6 (33.6–54.2) | 1.8 (1.4–2.2) | 474.5 (352.7–605.8) | -- | 1105.7 (841.9–1429.0) | 2.3 (2.0–2.6) | 2292.8 (1724.5–3004.7) |
| Morocco | 9123.2 (8437.9–10119.4) | 668.2 (540.7–816.8) | 3964.8 (3337.5–4734.7) | 1079.5 (980.6–1209.4) | 836.9 (738.3–950.5) | 126.8 (112.4–144.0) | 120.1 (104.8–137.1) | 262.2 (204.3–326.7) | 112.7 (101.7–124.8) | 54.6 (43.8–65.3) | 57.7 (52.9–62.5) | 0.6 (0.5–0.8) | 26.9 (21.0–35.4) | 3.3 (2.7–4.2) | 0.4 (0.3–0.5) | 23.2 (17.3–31.4) | 2.3 (1.8–2.8) | 563.7 (418.5–731.8) | -- | 1016.1 (776.4–1294.4) | 2.1 (1.9–2.4) | 2670.1 (2091.5–3437.9) |
| Oman | 8778.3 (8015.0–9729.1) | 45.4 (38.8–53.9) | 4181.4 (3537.6–4992.8) | 1104.9 (1002.2–1227.4) | 833.4 (735.2–935.5) | 141.6 (125.8–160.0) | 134.7 (118.5–155.7) | 246.2 (193.6–304.8) | 105.6 (94.5–117.8) | 48.8 (38.8–58.6) | 56.7 (52.2–61.2) | 0.3 (0.3–0.4) | 22.6 (17.3–29.8) | 3.2 (2.6–4.1) | 0.2 (0.2–0.3) | 19.2 (14.0–26.2) | 2.2 (1.8–2.7) | 474.7 (354.5–606.4) | -- | 1087.6 (819.9–1379.7) | 1.9 (1.6–2.1) | 2698.4 (2140.4–3575.3) |
| Qatar | 10461.1 (9574.7–11573.5) | 675.3 (544.9–822.4) | 4883.2 (4104.5–5827.4) | 1223.3 (1101.0–1359.0) | 992.6 (875.3–1121.5) | 121.1 (105.6–140.2) | 114.3 (98.2–133.8) | 220.0 (170.1–278.2) | 105.8 (95.2–117.6) | 48.2 (38.3–58.4) | 57.2 (52.6–61.8) | 0.5 (0.4–0.7) | 24.0 (18.7–31.6) | 3.4 (2.8–4.3) | 0.2 (0.2–0.2) | 20.4 (15.2–27.8) | 2.0 (1.6–2.5) | 475.0 (352.8–611.2) | -- | 1109.5 (844.3–1452.7) | 1.9 (1.7–2.2) | 3264.1 (2557.3–4209.7) |
| Saudi Arabia | 8757.4 (8081.6–9599.7) | 671.7 (537.9–818.7) | 3966.3 (3330.5–4782.7) | 1017.4 (923.5–1120.2) | 784.0 (695.3–880.3) | 115.5 (102.0–132.9) | 121.8 (107.4–139.9) | 206.7 (157.9–265.5) | 109.5 (98.4–120.7) | 51.0 (40.6–61.4) | 57.4 (52.6–61.9) | 1.2 (1.0–1.6) | 37.5 (29.9–47.4) | 4.0 (3.3–4.9) | 0.5 (0.4–0.6) | 33.0 (25.3–43.1) | 1.9 (1.6–2.4) | 461.7 (342.4–593.5) | -- | 1037.0 (777.8–1333.9) | 2.7 (2.3–3.1) | 2323.6 (1792.7–3082.1) |
| Somalia | 9441.7 (8644.0–10427.6) | 671.5 (534.1–839.8) | 4095.8 (3487.4–4955.5) | 1060.1 (964.8–1171.8) | 818.8 (722.8–925.1) | 121.8 (107.2–138.7) | 123.6 (108.6–141.9) | 276.5 (217.9–346.8) | 110.0 (98.6–121.3) | 51.9 (41.1–62.0) | 57.9 (53.4–62.6) | 0

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iraq | 8990.1 (8334.8–9732.2) | 748.9 (604.5–917.8) | 5009.3 (4319.5–5739.8) | 1455.1 (1384.5–1515.2) | 1033.8 (970.2–1096.4) | 274.5 (257.3–290.4) | 155.7 (146.3–166.2) | 191.0 (148.4–247.8) | 89.1 (75.2–104.7) | 40.9 (33.0–49.9) | 47.5 (37.8–59.7) | 0.8 (0.6–0.9) | 66.8 (55.6–78.6) | 5.5 (4.7–6.3) | 0.04 (0.03–0.1) | 61.2 (50.4–72.5) | 1.9 (1.5–2.3) | 453.9 (333.8–579.0) | -- | 1239.6 (940.9–1590.0) | 1.8 (1.6–2.0) | 787.5 (627.7–988.2) |
| Jordan | 6254.9 (5801.3–6813.5) | 38.8 (33.3–45.8) | 2856.1 (2356.8–3390.6) | 1330.7 (1080.2–1175.1) | 773.9 (734.1–822.3) | 217.6 (204.8–231.6) | 139.5 (129.4–149.3) | 335.4 (266.2–430.1) | 104.3 (88.0–123.9) | 58.4 (46.6–72.8) | 45.9 (36.6–56.7) | 0.2 (0.2–0.3) | 17.0 (14.0–20.8) | 2.8 (2.2–3.5) | 0.1 (0.05–0.1) | 14.2 (11.3–18.0) | 2.2 (1.8–2.8) | 449.3 (332.8–577.6) | -- | 1161.4 (875.0–1495.2) | 6.6 (5.6–7.9) | 860.2 (690.0–1073.2) |
| Kuwait | 7378.4 (6874.2–7959.0) | 43.6 (37.3–50.5) | 4315.2 (3779.8–4915.5) | 1194.6 (1143.8–1238.5) | 826.7 (788.0–867.3) | 226.3 (214.0–239.8) | 147.6 (137.6–158.9) | 278.7 (214.3–361.7) | 144.7 (123.8–169.1) | 90.0 (71.9–108.2) | 54.7 (43.2–67.4) | 0.3 (0.2–0.4) | 30.6 (25.4–36.0) | 5.2 (4.4–6.1) | 1.3 (1.0–1.6) | 24.2 (19.1–29.5) | 2.1 (1.7–2.6) | 453.4 (337.5–578.2) | -- | 1051.0 (802.6–1341.7) | 4.1 (3.6–4.7) | 636.0 (508.8–797.4) |
| Lebanon | 7225.6 (6597.2–7848.3) | 43.8 (38.0–49.8) | 2906.9 (2483.5–3270.1) | 932.5 (893.0–975.6) | 579.7 (546.8–614.3) | 197.2 (185.2–210.5) | 160.0 (150.1–171.1) | 183.3 (142.8–242.4) | 124.2 (106.3–144.1) | 66.3 (53.3–80.0) | 57.6 (46.3–69.6) | 0.5 (0.4–0.6) | 38.3 (32.6–44.5) | 5.1 (4.3–5.9) | 0.1 (0.1–0.1) | 33.2 (27.3–38.8) | 2.1 (1.7–2.6) | 441.8 (329.8–567.3) | -- | 1186.1 (883.8–1537.3) | 4.4 (3.8–5.1) | 2304.6 (1861.2–2839.3) |
| Libya | 9254.5 (8630.5–10005.8) | 745.7 (600.2–903.9) | 4136.6 (3628.4–4730.5) | 1491.7 (1431.0–1556.7) | 1083.7 (1024.0–1146.0) | 282.1 (265.7–300.2) | 133.1 (124.0–142.9) | 250.8 (199.7–327.0) | 108.9 (93.6–126.6) | 53.2 (43.1–63.5) | 55.1 (45.3–68.0) | 0.8 (0.6–1.0) | 40.4 (32.4–50.8) | 2.9 (2.3–3.7) | 0.5 (0.4–0.6) | 37.0 (29.1–47.6) | 2.1 (1.7–2.6) | 455.9 (337.4–589.0) | -- | 1087.0 (813.3–1405.7) | 2.6 (2.2–3.0) | 1973.0 (1577.8–2461.8) |
| Morocco | 6803.7 (6321.4–7385.7) | 758.4 (610.6–936.5) | 3124.2 (2651.1–3710.3) | 1089.2 (1035.5–1141.4) | 746.8 (699.4–794.4) | 206.9 (195.1–221.2) | 141.0 (131.9–151.1) | 230.1 (180.3–296.3) | 105.3 (95.5–126.8) | 49.5 (40.2–59.1) | 60.3 (48.8–72.6) | 0.6 (0.5–0.8) | 43.4 (33.9–53.5) | 3.6 (3.0–4.3) | 0.6 (0.5–0.7) | 39.2 (30.0–49.1) | 1.8 (1.5–2.3) | 446.3 (324.8–571.9) | -- | 1062.2 (800.6–1378.3) | 1.8 (1.6–2.1) | 618.0 (499.2–783.7) |
| Oman | 8563.7 (7820.0–9405.3) | 33.0 (28.5–38.3) | 3450.8 (2972.6–4026.3) | 1079.7 (1034.3–1130.3) | 696.4 (651.3–743.9) | 190.5 (177.2–203.2) | 198.8 (185.8–211.5) | 253.3 (201.3–322.1) | 115.6 (98.6–135.2) | 60.3 (48.9–73.5) | 55.4 (44.6–67.9) | 0.1 (0.1–0.1) | 81.7 (66.8–96.3) | 5.0 (4.3–5.9) | 0.1 (0.1–0.2) | 76.5 (62.2–91.3) | 2.0 (1.6–2.5) | 422.6 (308.1–539.8) | -- | 1003.5 (762.9–1279.6) | 1.6 (1.4–1.7) | 3287.4 (2626.5–4080.7) |
| Palestine | 7872.5 (7356.2–8435.1) | 805.1 (649.5–980.8) | 3963.6 (3477.7–4382.7) | 1270.3 (1093.7–1455.7) | 863.8 (703.0–1063.2) | 279.4 (225.9–339.0) | 133.7 (112.2–164.1) | 230.9 (182.4–299.6) | 84.3 (71.8–98.1) | 38.6 (31.0–47.4) | 45.6 (36.2–55.7) | 0.1 (0.1–0.1) | 62.4 (52.3–73.8) | 3.4 (2.8–4.2) | 0.4 (0.3–0.4) | 58.7 (48.5–70.1) | 1.9 (1.5–2.3) | 408.4 (300.6–520.6) | -- | 1108.9 (835.0–1422.4) | 1.3 (1.2–1.5) | 751.6 (602.3–938.7) |
| Qatar | 6996.3 (6440.7–7561.7) | 46.5 (39.9–54.7) | 3157.3 (2699.4–3624.9) | 1121.7 (1076.1–1170.3) | 688.6 (649.9–731.9) | 273.9 (257.1–291.7) | 165.3 (155.2–175.7) | 171.7 (130.8–225.3) | 162.8 (139.0–188.2) | 99.4 (79.9–118.1) | 63.5 (50.9–78.7) | 0.2 (0.2–0.3) | 86.2 (72.0–102.3) | 3.9 (3.3–4.7) | 1.0 (0.8–1.2) | 81.4 (67.5–97.7) | 1.9 (1.5–2.3) | 456.7 (347.4–589.6) | -- | 1009.8 (756.3–1295.2) | 2.9 (2.5–3.3) | 1583.7 (1238.7–1981.1) |
| Saudi Arabia | 6968.8 (6441.8–7680.4) | 43.0 (37.1–50.8) | 3521.7 (3025.8–4171.0) | 1006.5 (963.4–1051.7) | 709.6 (668.8–751.5) | 162.1 (152.8–172.8) | 139.2 (130.5–149.6) | 283.1 (226.7–361.4) | 139.7 (121.4–162.2) | 66.5 (54.4–81.0) | 73.4 (60.9–89.0) | 0.1 (0.1–0.1) | 69.5 (58.9–84.2) | 3.5 (2.9–4.3) | 0.4 (0.3–0.5) | 65.6 (54.8–80.2) | 1.9 (1.5–2.3) | 448.3 (332.9–577.4) | -- | 1033.3 (780.1–1318.6) | 2.2 (1.9–2.5) | 1238.8 (978.1–1554.6) |
| Sudan | 9106.1 (8468.8–9915.9) | 629.3 (501.1–754.6) | 4919.2 (4235.4–5754.6) | 1418.6 (1351.5–1491.2) | 1035.6 (971.3–1098.5) | 260.5 (235.5–267.0) | 140.4 (131.2–150.4) | 432.6 (180.6–303.5) | 91.5 (77.9–107.1) | 39.5 (31.3–49.0) | 51.6 (41.1–63.6) | 0.5 (0.4–0.7) | 21.5 (20.3–30.9) | 3.5 (2.9–4.3) | 0.4 (0.3–0.5) | 21.5 (16.5–26.9) | 1.7 (1.4–2.1) | 449.6 (336.2–572.9) | -- | 1032.9 (777.8–1339.3) | 1.9 (1.7–2.2) | 1396.8 (1099.9–1769.0) |
| Syrian Arab Republic | 9200.5 (8536.2–10072.3) | 780.9 (617.5–961.7) | 4839.7 (4288.5–5691.2) | 1156.6 (1110.3–1211.3) | 777.7 (734.1–826.8) | 243.5 (228.4–259.2) | 141.4 (132.3–151.7) | 175.7 (135.4–232.8) | 159.0 (136.2–181.7) | 75.4 (60.0–90.6) | 80.4 (62.2–98.7) | 3.6 (2.9–4.3) | 38.1 (30.1–46.5) | 3.6 (3.0–4.3) | 0.5 (0.4–0.7) | 34.0 (26.2–42.6) | 2.0 (1.6–2.5) | 429.1 (316.6–546.1) | -- | 1041.3 (790.4–1354.8) | 1.3 (1.1–1.5) | 1650.7 (1306.7–2026.6) |
| Tunisia | 6010.8–7146.3) | 41.7 (35.7–48.4) | 2311.0 (1959.5–2718.8) | 995.4 (896.6–976.4) | 558.4 (558.4–632.5) | 192.5 (180.4–205.1) | 151.7 (142.3–163.4) | 280.5 (219.6–361.8) | 118.7 (100.6–136.6) | 59.5 (48.1–71.0) | 59.4 (47.4–72.5) | 1.0 (0.8–1.3) | 40.7 (32.8–49.5) | 3.6 (3.0–4.4) | 0.9 (0.7–1.1) | 36.1 (28.4–44.9) | 2.3 (1.9–2.9) | 422.4 (316.1–548.9) | -- | 1128.8 (837.3–1452.0) | 5.9 (5.1–6.9) | 2016.8 (1631.5–2509.4) |
| Türkiye | 7242.2 (6640.9–7787.0) | 66.6 (56.9–76.7) | 3605.5 (3086.1–4103.9) | 906.3 (865.2–947.8) | 577.7 (543.2–615.3) | 166.7 (155.7–177.9) | 166.5 (156.0–177.3) | 228.9 (180.6–291.8) | 139.7 (123.0–158.9) | 65.2 (52.7–78.4) | 74.2 (61.0–87.0) | 0.6 (0.5–0.8) | 52.0 (41.4–64.1) | 2.4 (1.9–3.1) | 0.3 (0.2–0.3) | 49.3 (38.8–61.7) | 2.6 (2.1–3.2) | 416.7 (309.3–530.1) | -- | 1029.1 (784.7–1318.3) | 5.4 (4.7–6.4) | 1655.9 (1283.8–2064.7) |
| United Arab Emirates | 6474.7 (5938.7–6993.2) | 48.7 (42.3–56.7) | 2783.2 (2282.2–3282.6) | 1087.7 (1044.9–1136.6) | 701.7 (666.0–744.0) | 234.8 (220.7–249.2) | 156.9 (146.5–167.9) | 239.0 (184.9–314.0) | 153.5 (133.3–178.9) | 83.0 (65.7–101.9) | 70.6 (57.3–88.7) | 0.2 (0.1–0.2) | 108.0 (90.0–125.8) | 3.5 (2.9–4.2) | 1.1 (0.9–1.3) | 103.4 (85.4–121.5) | 1.7 (1.4–2.1) | 472.7 (351.6–604.0) | -- | 994.3 (749.8–1275.8) | 2.9 (2.6–3.4) | 3335.9 (2703.6–4165.5) |
| Yemen | 8617.8 (7947.9–9385.8) | 946.6 (757.0–1165.6) | 4287.1 (3676.9–4988.7) | 1158.9 (1101.7–1219.5) | 806.4 (759.1–864.3) | 209.3 (195.5–224.1) | 149.5 (139.3–161.0) | 252.3 (198.3–322.6) | 82.0 (70.7–96.2) | 29.7 (23.8–35.6) | 51.9 (41.7–63.9) | 0.5 (0.4–0.6) | 26.3 (21.4–31.8) | 3.9 (3.2–4.6) | 0.5 (0.4–0.6) | 21.9 (17.2–27.2) | 2.2 (1.7–2.7) | 399.7 (299.6–513.1) | -- | 985.3 (742.1–1272.2) | 1.9 (1.7–2.2) | 1457.2 (1165.1–1832.3) |
| **South Asia** | **5973.7 (5579.8–6509.1)** | **724.6 (575.5–889.5)** | **1614.0 (1386.6–1922.0)** | **1027.4 (937.8–1130.0)** | **743.6 (653.7–834.8)** | **216.2 (193.5–242.0)** | **72.6 (62.6–82.9)** | **108.6 (84.4–139.6)** | **60.8 (54.5–67.0)** | **25.2 (19.5–31.0)** | **35.6 (32.8–38.9)** | **0.05 (0.04–0.1)** | **49.7 (40.7–58.7)** | **4.3 (3.5–5.2)** | **0.7 (0.5–0.8)** | **44.8 (35.4–53.3)** | **1.7 (1.4–2.1)** | **600.0 (452.0–770.5)** | -- | **1706.8 (1308.1–2219.8)** | **2.0 (1.7–2.3)** | **691.4 (526.6–913.9)** |
| South Asia | 5973.7 (5579.8–6509.1) | 724.6 (575.5–889.5) | 1614.0 (1386.6–1922.0) | 1027.4 (937.8–1130.0) | 743.6 (653.5–834.8) | 216.2 (193.5–242.0) | 72.6 (62.6–82.9) | 108.6 (84.4–139.6) | 60.8 (54.5–67.0) | 25.2 (19.5–31.0) | 35.6 (32.8–38.9) | 0.05 (0.04–0.1) | 49.7 (40.7–58.7) | 4.3 (3.5–5.2) | 0.7 (0.5–0.8) | 44.8 (35.4–53.3) | 1.7 (1.4–2.1) | 600.0 (452.0–770.5) | -- | 1706.8 (1308.1–2219.8) | 2.0 (1.7–2.3) | 691.4 (526.6–913.9) |
| Bangladesh | 5767.6 (5330.9–6261.3) | 741.4 (584.6–897.2) | 1285.2 (1117.6–1475.7) | 1056.0 (1001.4–1113.6) | 745.4 (694.7–798.7) | 223.4 (205.8–241.6) | 92.8 (84.7–102.1) | 134.3 (107.0–173.5) | 62.7 (52.7–74.8) | 27.4 (21.7–33.6) | 35.3 (27.8–43.3) | 0.05 (0.04–0.1) | 55.9 (45.6–66.5) | 3.7 (3.0–4.5) | 0.9 (0.8–1.1) | 51.3 (41.3–61.5) | 1.8 (1.4–2.2) | 562.4 (423.5–717.9) | -- | 1541.3 (1183.2–1988.7) | 2.1 (1.8–2.5) | 942.0 (731.5–1228.8) |
| Bhutan | 5485.4 (5066.0–6012.8) | 745.4 (598.0–919.8) | 1128.0 (978.4–1299.4) | 900.9 (864.8–960.5) | 662.5 (619.2–709.2) | 181.7 (166.9–198.0) | 69.6 (63.2–76.6) | 131.2 (100.5–172.6) | 70.7 (59.7–82.7) | 32.2 (25.1–39.9) | 38.5 (30.7–47.6) | 0.6 (0.03–0.04) | 58.3 (48.7–67.4) | 3.7 (3.0–4.5) | 0.8 (0.6–1.0) | 53.3 (44.5–62.7) | 1.7 (1.3–2.1) | 558.7 (419.5–714.7) | -- | 1575.2 (1215.1–2028.6) | 2.0 (1.7–2.3) | 884.7 (679.1–1089.7) |
| Bhutan | 6016.7 (5612.9–6563.9) | 715.0 (567.8–880.8) | 1678.8 (1433.5–2007.3) | 1014.4 (918.5–1119.1) | 734.8 (639.9–827.1) | 214.7 (190.8–241.8) | 69.8 (60.6–80.9) | 104.3 (80.3–135.7) | 60.1 (54.0–66.0) | 24.7 (19.0–30.4) | 35.5 (32.7–38.4) | 0.05 (0.04–0.1) | 49.4 (40.4–58.4) | 4.3 (3.5–5.3) | 0.6 (0.5–0.8) | 44.4 (35.0–52.9) | 1.7 (1.4–2.2) | 602.2 (453.6–772.9) | -- | 1722.7 (1319.5–2239.1) | 2.0 (1.7–2.3) | 684.0 (514.1–913.8) |
| India | 6500.6 (5995.6–7098.2) | 736.9 (1022.3–1546.7) | 1824.5 (1545.7–2148.4) | 817.2 (734.5–906.1) | 581.1 (504.6–659.7) | 172.2 (151.3–195.8) | 60.1 (58.1–78.1) | 204.6 (80.7–138.5) | 64.6 (54.1–66.5) | 24.6 (19.1–30.2) | 35.5 (32.9–38.5) | 0.05 (0.04–0.1) | 49.3 (39.9–58.0) | 4.3 (3.4–5.2) | 0.6 (0.5–0.7) | 44.5 (34.5–53.3) | 1.7 (1.3–2.1) | 617.4 (462.5–797.4) | -- | 1763.8 (1341.6–2244.8) | 2.1 (1.8–2.5) | 696.2 (452.0–826.2) |
| Andhra Pradesh | 5741.9 (5279.8–6273.9) | 727.6 (573.4–887.0) | 1182.9 (1013.7–1428.5) | 862.6 (774.0–950.6) | 608.5 (524.9–691.0) | 190.2 (167.5–214.6) | 67.5 (58.5–77.7) | 132.1 (99.7–170.1) | 62.3 (55.7–68.9) | 26.7 (20.6–32.9) | 35.6 (32.5–38.6) | 0.1 (0.05–0.1) | 58.6 (47.0–70.2) | 4.3 (3.5–5.2) | 1.0 (0.8–1.2) | 53.4 (41.9–64.8) | 1.7 (1.4–2.1) | 629.0 (472.5–803.3) | -- | 1781.6 (1368.6–2327.7) | 2.1 (1.8–2.5) | 901.7 (677.9–1210.3) |
| Arunachal Pradesh | 5988.2 (5575.5–6535.5) | 716.6 (575.1–873.0) | 1295.0 (1095.9–1557.3) | 1179.9 (1059.6–1306.4) | 837.0 (721.4–956.5) | 272.9 (239.7–308.4) | 76.9 (66.9–88.0) | 132.1 (101.5–171.4) | 59.5 (53.4–65.6) | 24.0 (18.9–30.2) | 35.5 (32.7–38.4) | 0.05 (0.04–0.1) | 54.8 (44.3–66.9) | 4.4 (3.6–5.4) | 0.8 (0.7–1.0) | 49.6 (39.0–61.6) | 1.6 (1.3–2.0) | 612.3 (462.9–789.8) | -- | 1745.8 (1337.4–2281.3) | 2.0 (1.7–2.4) | 824.1 (618.7–1089.1) |
| Assam | 5712.0 (5272.8–6244.7) | 717.3 (577.3–880.4) | 1514.0 (1284.1–1814.0) | 828.3 (749.1–918.1) | 612.1 (533.3–694.6) | 159.6 (139.8–180.3) | 59.5 (50.5–70.2) | 112.2 (87.6–147.6) | 57.5 (51.9–63.0) | 22.4 (17.5–27.7) | 35.2 (32.1–38.2) | 0.04 (0.03–0.05) | 54.3 (43.4–65.3) | 4.3 (3.5–5.2) | 0.9 (0.7–1.1) | 49.1 (38.1–60.1) | 1.7 (1.4–2.1) | 592.9 (441.5–758.6) | -- | 1599.6 (1228.1–2095.7) | 2.1 (1.8–2.4) | 831.9 (618.7–1120.4) |
| Bihar | 6028.9 (5624.6–6573.7) | 715.4 (571.8–874.4) | 1518.2 (1293.7–1818.8) | 1146.5 (1021.7–1263.5) | 835.0 (717.5–952.6) | 249.0 (220.0–283.9) | 68.9 (59.5–79.2) | 126.3 (97.4–164.3) | 58.5 (52.2–64.6) | 22.7 (17.4–28.7) | 35.7 (32.9–38.6) | 0.04 (0.03–0.1) | 47.1 (38.0–56.7) | 4.5 (3.6–5.4) | 0.7 (0.5–0.9) | 42.0 (33.0–51.5) | 1.6 (1.3–2.0) | 580.4 (440.4–752.1) | -- | 1739.4 (1331.4–2254.8) | 1.8 (1.5–2.1) | 715.8 (537.4–945.3) |
| Chhattisgarh | 6065.0 (5640.5–6636.1) | 732.2 (593.3–904.0) | 1824.3 (1556.0–2187.6) | 869.9 (782.6–968.8) | 660.2 (579.5–750.9) | 148.0 (130.5–168.6) | 64.6 (54.3–75.6) | 91.0 (68.9–120.8) | 65.5 (58.2–72.1) | 29.5 (22.4–36.8) | 35.9 (33.1–39.0) | 0.1 (0.05–0.1) | 55.5 (45.1–65.5) | 4.6 (3.7–5.6) | 0.6 (0.5–0.7) | 50.3 (39.3–60.3) | 1.9 (1.5–2.4) | 605.4 (453.9–780.8) | -- | 1740.5 (1319.0–2233.0) | 2.1 (1.7–2.4) | 699.5 (529.2–918.8) |
| Delhi | 5958.1 (5517.6–6513.3) | 738.6 (589.7–895.0) | 1682.3 (1413.0–2000.2) | 891.0 (803.3–976.7) | 637.1 (554.7–717.4) | 188.4 (166.6–213.8) | 69.4 (60.2–79.7) | 98.7 (75.0–129.9) | 68.8 (61.2–76.7) | 32.8 (25.7–40.5) | 36.0 (33.3–39.0) | 0.1 (0.1–0.1) | 55.1 (44.9–64.6) | 4.4 (3.6–5.3) | 0.6 (0.5–0.7) | 50.2 (40.4–59.8) | 2.0 (1.7–2.5) | 626.1 (470.6–799.7) | -- | 1723.7 (1321.8–2218.2) | 2.2 (1.9–2.6) | 680.0 (514.6–886.5) |
| Goa | 5948.7 (5520.1–6471.9) | 725.7 (572.2–877.5) | 1507.8 (1358.9–1893.0) | 1063.4 (963.8–1170.1) | 768.7 (673.5–872.5) | 227.8 (201.9–256.9) | 72.3 (63.1–83.7) | 97.8 (75.9–127.8) | 61.8 (55.1–68.1) | 25.9 (19.9–32.3) | 35.8 (32.9–38.7) | 0.05 (0.04–0.1) | 52.1 (38.6–56.0) | 4.4 (3.6–5.4) | 0.6 (0.4–0.6) | 42.7 (33.4–50.9) | 1.8 (1.5–2.3) | 602.8 (451.7–769.8) | -- | 1723.1 (1323.6–2227.9) | 1.9 (1.6–2.2) | 618.4 (468.3–837.3) |
| Gujarat | 6087.3 (5633.5–6636.1) | 722.6 (572.4–890.8) | 1574.7 (1332.0–1873.4) | 1100.0 (987.5–1219.7) | 814.7 (708.4–933.1) | 220.3 (192.6–249.0) | 70.1 (59.7–82.1) | 97.5 (74.7–126.4) | 61.2 (54.9–67.7) | 25.7 (20.2–32.3) | 35.5 (32.7–38.4) | 0.05 (0.04–0.1) | 52.1 (42.4–62.0) | 4.4 (3.6–5.3) | 0.6 (0.5–0.7) | 47.2 (37.3–57.0) | 1.8 (1.5–2.3) | 611.8 (465.7–786.6) | -- | 1816.9 (1384.6–2338.5) | 1.9 (1.6–2.2) | 665.9 (499.9–891.0) |
| Haryana | 5886.0 (5460.3–6437.0) | 693.4 (541.6–841.7) | 1631.9 (1382.4–1951.9) | 778.1 (705.1–856.8) | 557.4 (491.2–624.6) | 157.4 (137.3–175.3) | 65.7 (56.4–77.5) | 100.3 (77.0–130.7) | 62.9 (56.2–70.0) | 27.2 (21.2–33.7) | 35.7 (32.8–38.5) | 0.05 (0.04–0.1) | 54.3 (44.3–64.1) | 4.4 (3.6–5.4) | 0.7 (0.5–0.8) | 49.2 (39.4–59.0) | 1.7 (1.4–2.1) | 640.5 (475.5–821.4) | -- | 1809.8 (1373.4–2358.6) | 2.1 (1.7–2.4) | 701.1 (530.4–978.7) |
| Himachal Pradesh | 5967.7 (5540.5–6525.1) | 735.2 (585.3–897.9) | 1792.8 (1539.3–2110.1) | 765.2 (688.4–849.2) | 537.2 (461.7–613.9) | 166.5 (144.9–188.7) | 64.1 (54.2–75.8) | 89.5 (67.3–118.4) | 63.7 (57.0–70.2) | 28.1 (21.8–34.6) | 35.6 (32.9–38.5) | 0.05 (0.04–0.1) | 53.8 (44.0–62.9) | 4.4 (3.6–5.3) | 0.7 (0.6–0.8) | 48.7 (38.9–57.8) | 1.7 (1.4–2.2) | 594.7 (446.0–761.9) | -- | 1791.9 (1368.2–2311.7) | 2.3 (2.0–2.6) | 652.9 (495.6–863.1) |
| Jharkhand | 5782.6 (5001.0–5861.8) | 721.7 (575.4–876.4) | 1028.7 (864.9–1226.4) | 994.8 (900.2–1027.6) | 726.8 (634.0–828.2) | 204.5 (178.9–230.8) | 68.2 (58.3–78.8) | 108.2 (82.9–140.0) | 56.9 (51.2–62.4) | 21.9 (16.9–26.9) | 35.0 (32.2–37.9) | 0.05 (0.04–0.1) | 46.8 (37.5–56.3) | 4.2 (3.4–5.1) | 0.7 (0.6–0.8) | 42.0 (32.9–51.2) | 1.7 (1.4–2.1) | 596.6 (447.4–772.0) | -- | 1581.9 (1218.7–2058.8) | 2.7 (2.3–3.2) | 770.4 (569.0–1031.9) |
| Karnataka | 6044.2 (5604.6–6576.7) | 726.2 (575.2–883.8) | 1844.3 (1580.1–2163.7) | 861.5 (775.4–949.9) | 608.3 (527.8–689.0) | 191.9 (170.8–217.3) | 64.8 (56.4–75.7) | 94.6 (72.2–123.8) | 60.5 (54.4–66.7) | 24.8 (19.3–30.8) | 35.7 (32.8–38.5) | 0.04 (0.03–0.1) | 47.1 (38.7–55.3) | 4.3 (3.4–5.2) | 0.5 (0.4–0.6) | 42.3 (34.0–50.3) | 1.8 (1.5–2.2) | 617.1 (462.6–798.5) | -- | 1784.0 (1367.8–2284.8) | 1.8 (1.5–2.0) | 607.6 (455.8–804.8) |
| Kerala | 6490.2 (6039.3–7048.5) | 763.5 (608.2–951.4) | 1949.5 (1645.4–2333.2) | 1193.5 (1092.8–1315.2) | 850.9 (744.4–964.0) | 258.3 (230.0–289.3) | 91.4 (79.8–105.5) | 106.7 (81.1–138.1) | 65.7 (58.5–72.8) | 30.1 (23.4–37.6) | 35.6 (32.6–38.5) | 0.1 (0.1–0.1) | 55.1 (44.5–66.1) | 4.4 (3.6–5.4) | 0.6 (0.5–0.8) | 50.1 (39.2–61.0) | 2.1 (1.7–2.6) | 625.9 (469.5–821.8) | -- | 1807.7 (1394.4–2325.4) | 2.6 (2.1–3.0) | 630.7 (478.4–830.7) |
| Madhya Pradesh | 5825.8 (5394.5–6399.4) | 656.4 (521.8–812.9) | 1665.1 (1407.2–1984.7) | 913.0 (830.8–1008.0) | 660.2 (576.6–750.4) | 195.4 (172.0–219.6) | 61.2 (52.9–70.5) | 109.6 (86.4–142.8) | 56.1 (50.7–61.4) | 20.8 (16.1–25.8) | 35.3 (32.4–38.1) | 0.04 (0.03–0.1) | 48.3 (38.2–57.5) | 4.3 (3.5–5.2) | 0.7 (0.5–0.8) | 43.4 (33.6–52.3) | 1.7 (1.4–2.1) | 581.3 (432.2–755.4) | -- | 1685.9 (1285.9–2186.1) | 2.0 (1.7–2.3) | 679.5 (514.4–915.0) |
| Maharashtra | 5598.9 (5198.6–6132.6) | 663.8 (507.4–841.4) | 1350.4 (1135.8–1694.6) | 1018.9 (931.1–1114.6) | 709.5 (620.5–795.2) | 240.0 (211.2–270.9) | 74.9 (64.7–86.8) | 105.1 (74.8–136.3) | 61.0 (54.3–67.1) | 25.3 (19.4–31.1) | 35.7 (32.9–38.7) | 0.1 (0.05–0.1) | 53.5 (43.7–63.7) | 4.5 (3.7–5.5) | 0.6 (0.5–0.7) | 48.4 (38.5–58.5) | 1.8 (1.4–2.2) | 594.6 (446.0–753.2) | -- | 1634.8 (1251.5–2108.4) | 2.3 (1.9–2.7) | 649.4 (495.9–856.8) |
| Manipur | 5951.6 (5527.8–6498.5) | 735.4 (589.7–905.9) | 1288.7 (1085.2–1531.6) | 976.5 (882.6–1078.8) | 698.5 (609.9–797.2) | 208.5 (184.5–235.5) | 74.1 (64.0–85.4) | 125.6 (95.2–160.9) | 61.7 (54.9–68.7) | 26.2 (20.1–32.8) | 35.5 (32.6–38.1) | 0.1 (0.04–0.1) | 60.1 (48.7–71.4) | 4.6 (3.7–5.5) | 1.0 (0.8–1.3) | 54.5 (43.3–65.3) | 1.7 (1.4–2.1) | 604.7 (455.7–770.4) | -- | 1909.6 (1464.3–2494.2) | 2.8 (2.4–3.2) | 829.3 (623.5–1084.4) |
| Meghalaya | 5844.2 (5409.6–6419.4) | 732.0 (580.8–898.8) | 1186.6 (998.3–1419.0) | 870.1 (788.0–966.1) | 616.1 (533.7–705.4) | 187.4 (166.3–213.2) | 70.1 (61.0–80.9) | 143.8 (111.7–184.0) | 60.3 (54.4–66.3) | 24.7 (19.2–30.6) | 35.6 (32.7–38.6) | 0.1 (0.1–0.1) | 64.9 (52.6–77.9) | 4.4 (3.5–5.3) | 1.1 (0.9–1.4) | 59.4 (47.4–72.3) | 1.7 (1.4–2.1) | 622.1 (473.8–801.0) | -- | 1853.4 (1429.3–2430.2) | 2.4 (2.0–2.8) | 932.8 (707.4–1228.6) |
| Mizoram | 5619.7 (5170.1–6190.1) | 752.8 (582.0–887.9) | 993.4 (838.9–1182.2) | 767.2 (692.5–843.6) | 544.0 (473.6–612.8) | 157.3 (138.0–178.1) | 68.5 (58.9–79.5) | 134.1 (100.0–171.2) | 64.2 (57.1–70.9) | 28.4 (21.9–35.0) | 35.8 (33.0–38.7) | 0.1 (0.1–0.1) | 66.2 (52.3–80.4) | 4.2 (3.5–5.1) | 1.3 (1.0–1.6) | 60.7 (47.6–74.4) | 1.9 (1.6–2.4) | 606.0 (454.0–769.2) | -- | 1826.3 (1394.2–2378.1) | 2.3 (1.9–2.6) | 707.1 (547.1–1353.3) |
| Nagaland | 6079.5 (5659.6–6625.6) | 731.0 (586.8–886.6) | 1323.1 (1125.1–1584.9) | 1104.1 (991.4–1214.1) | 808.7 (705.6–905.8) | 226.8 (197.2–256.2) | 74.3 (64.9–86.1) | 126.1 (96.4–162.6) | 62.5 (55.6–68.8) | 26.7 (20.9–32.9) | 35.8 (32.8–38.7) | 0.1 (0.1–0.1) | 76.4 (63.8–90.4) | 4.5 (3.6–5.3) | 1.1 (0.9–1.4) | 70.8 (57.8–84.7) | 1.8 (1.5–2.3) | 648.5 (486.2–834.3) | -- | 1667.2 (1281.2–2158.8) | 3.4 (2.9–3.8) | 1026.6 (787.6–1339.9) |
| Odisha | 5754.9 (5363.8–6285.4) | 715.5 (560.5–874.7) | 1163.5 (976.3–1387.0) | 1051.2 (947.2–1164.1) | 739.6 (642.7–840.5) | 246.8 (219.0–277.8) | 70.6 (61.9–81.2) | 148.0 (113.6–192.5) | 57.7 (51.8–63.1) | 22.3 (17.2–27.4) | 35.4 (32.4–38.4) | 0.04 (0.04–0.1) | 55.8 (45.3–67.9) | 4.3 (3.5–5.3) | 0.9 (0.7–1.1) | 50.6 (40.5–62.6) | 1.7 (1.3–2.1) | 585.7 (440.3–758.7) | -- | 1613.6 (1231.9–2101.3) | 2.3 (1.9–2.6) | 957.3 (713.4–1240.3) |
| Puducherry | 5766.6 (5351.4–6311.7) | 732.6 (578.4–896.9) | 1612.7 (1375.3–1909.9) | 769.5 (696.0–850.0) | 548.5 (474.1–622.4) | 162.2 (142.7–183.7) | 61.5 (52.9–71.8) | 96.6 (73.0–127.9) | 63.9 (57.1–70.7) | 28.2 (22.0–34.8) | 35.8 (33.0–38.8) | 0.05 (0.04–0.1) | 53.2 (43.3–61.6) | 4.7 (3.8–5.6) | 0.6 (0.5–0.7) | 47.9 (37.9–56.5) | 2.0 (1.6–2.5) | 573.8 (431.7–727.5) | -- | 1747.9 (1333.0–2257.1) | 2.1 (1.8–2.4) | 674.8 (503.1–890.0) |
| Punjab | 6209.6 (5776.4–6757.5) | 727.4 (578.2–885.6) | 2110.5 (1820.1–2467.2) | 826.2 (747.1–913.3) | 604.5 (524.9–685.3) | 162.1 (142.9–182.3) | 62.3 (52.6–73.0) | 82.1 (61.8–109.2) | 64.6 (57.7–71.6) | 29.0 (22.8–35.7) | 35.6 (32.8–38.7) | 0.04 (0.03–0.1) | 56.7 (46.1–67.1) | 4.6 (3.7–5.5) | 0.5 (0.4–0.6) | 51.7 (41.6–61.9) | 1.7 (1.4–2.2) | 659.1 (499.2–854.8) | -- | 1666.7 (1277.1–2159.3) | 1.8 (1.6–2.1) | 621.3 (480.4–825.1) |
| Rajasthan | 6317.5 (5883.3–6949.8) | 838.7 (656.7–1021.0) | 1981.8 (1692.6–2371.1) | 822.6 (738.1–903.9) | 600.4 (521.8–678.8) | 161.3 (140.3–183.0) | 63.8 (54.6–74.9) | 99.5 (73.9–131.0) | 59.2 (53.1–64.9) | 23.8 (18.6–29.6) | 35.4 (32.6–38.6) | 0.04 (0.04–0.1) | 47.3 (37.6–57.3) | 4.2 (3.4–5.1) | 0.7 (0.5–0.8) | 42.4 (33.0–52.0) | 1.8 (1.4–2.3) | 598.1 (452.4–763.7) | -- | 1781.3 (1362.0–2293.1) | 2.1 (1.8–2.4) | 709.2 (529.8–976.5) |
| Sikkim | 5799.8 (5349.5–6336.0) | 729.0 (1110.6–1572.8) | 1306.6 (819.6–1390.0) | 902.3 (572.4–743.2) | 657.1 (536.1–767.3) | 178.7 (156.6–201.7) | 69.9 (59.5–80.9) | 108.3 (81.6–140.4) | 67.2 (60.1–74.6) | 31.2 (24.3–38.5) | 36.0 (33.1–39.0) | 0.1 (0.05–0.1) | 52.7 (46.7–60.3) | 4.3 (3.5–5.2) | 0.8 (0.7–1.0) | 52.6 (41.6–63.9) | 2.0 (1.6–2.5) | 665.1 (501.9–856.5) | -- | 1719.0 (1321.4–2246.6) | 1.9 (1.6–2.2) | 865.7 (648.0–1150.3) |
| Tamil Nadu | 6023.8 (5558.7–6595.4) | 615.9 (473.2–773.0) | 1902.5 (1602.9–2261.1) | 968.2 (877.8–1059.5) | 690.0 (601.5

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| American Samoa | 7579.6 (7088.7–8084.8) | 752.3 (594.0–916.3) | 3701.3 (3310.1–4205.8) | 1281.1 (1232.9–1331.6) | 755.8 (714.6–802.8) | 308.7 (289.3–328.8) | 228.3 (215.4–242.1) | 89.5 (67.2–120.6) | 142.6 (122.8–166.4) | 54.0 (42.6–67.8) | 88.6 (70.1–110.8) | 0.4 (0.3–0.5) | 62.4 (49.7–75.6) | 3.4 (2.7–4.4) | 0.6 (0.4–0.7) | 58.4 (46.3–71.5) | 2.0 (1.6–2.5) | 61.7 (458.7–763.0) | -- | 1051.7 (802.7–1343.3) | 6.7 (5.6–7.9) | 777.7 (592.3–1035.7) |
| Cook Islands | 5741.5 (5391.7–6205.9) | 142.0 (120.7–164.9) | 2607.3 (2240.1–3058.2) | 1556.4 (1310.8–1401.9) | 827.6 (785.8–867.0) | 314.0 (296.7–333.6) | 226.3 (215.6–240.4) | 312.1 (250.9–396.6) | 118.6 (99.0–137.4) | 45.2 (34.4–55.9) | 73.5 (57.5–90.0) | 0.2 (0.1–0.3) | 11.7 (9.3–15.0) | 3.3 (2.6–4.3) | 0.007 (0.005–0.009) | 8.4 (6.0–11.1) | 2.1 (1.7–2.6) | 617.8 (470.4–788.9) | -- | 1054.8 (808.7–1365.4) | 10.8 (8.7–13.3) | 105.9 (82.5–134.3) |
| Micronesia (Federated States of) | 8079.3 (7484.4–8739.0) | 736.5 (581.9–902.3) | 4386.3 (3688.0–5018.5) | 1594.6 (1539.1–1662.4) | 992.6 (934.2–1052.9) | 360.3 (337.3–386.1) | 258.2 (244.1–273.9) | 127.2 (99.6–166.0) | 111.9 (96.0–132.8) | 38.7 (30.4–48.2) | 73.3 (58.7–90.8) | 0.1 (0.1–0.1) | 28.7 (22.6–34.8) | 3.4 (2.6–4.3) | 0.2 (0.2–0.2) | 25.2 (19.3–31.0) | 1.6 (1.4–2.0) | 553.5 (418.2–701.6) | -- | 1084.3 (815.3–1402.7) | 2.5 (2.2–3.0) | 360.3 (272.7–480.0) |
| Fiji | 7806.5 (7214.9–8429.9) | 587.6 (463.9–722.2) | 4465.0 (3860.3–5158.0) | 1303.7 (1257.2–1355.1) | 781.6 (741.0–825.8) | 297.3 (278.9–316.9) | 236.0 (222.8–248.4) | 114.5 (87.1–153.9) | 105.2 (89.9–125.8) | 31.2 (24.4–37.7) | 74.2 (58.9–90.8) | 0.04 (0.03–0.1) | 22.8 (18.4–27.9) | 3.6 (2.8–4.6) | 0.05 (0.04–0.1) | 19.1 (15.1–24.1) | 1.9 (1.6–2.3) | 615.1 (465.4–792.0) | -- | 993.8 (756.4–1283.9) | 4.7 (3.9–5.6) | 416.0 (321.0–560.4) |
| Guam | 7644.8 (7132.2–8182.5) | 150.8 (129.7–171.2) | 4594.6 (4068.7–5123.6) | 1302.6 (1259.5–1351.1) | 759.6 (724.6–799.9) | 305.3 (287.5–323.1) | 250.6 (237.7–265.9) | 118.5 (85.9–158.2) | 140.2 (120.3–165.5) | 56.1 (43.1–69.4) | 84.4 (66.2–104.8) | 0.01 (0.007–0.01) | 44.7 (36.1–53.9) | 3.7 (2.9–4.8) | 0.5 (0.4–0.6) | 40.5 (31.5–49.2) | 2.0 (1.7–2.5) | 613.0 (459.8–781.0) | -- | 1058.3 (794.3–1358.6) | 5.0 (4.2–5.9) | 496.8 (387.1–654.5) |
| Kiribati | 7542.9 (7058.3–8196.6) | 727.7 (579.7–886.3) | 3579.3 (3072.6–4120.4) | 1679.4 (1614.5–1757.1) | 1013.9 (954.2–1080.4) | 444.6 (413.1–477.3) | 238.3 (223.7–254.9) | 74.1 (59.8–92.2) | 105.7 (89.8–124.3) | 28.3 (21.8–34.2) | 77.4 (61.8–93.2) | 0.1 (0.1–0.2) | 24.1 (19.7–29.0) | 4.5 (3.6–5.6) | 0.4 (0.3–0.5) | 19.1 (15.1–23.5) | 1.6 (1.3–2.0) | 562.7 (424.0–725.7) | -- | 1149.8 (865.6–1508.0) | 3.3 (2.8–3.9) | 443.8 (335.7–579.5) |
| Marshall Islands | 7740.4 (7221.6–8417.7) | 721.0 (575.3–880.9) | 3994.1 (3408.5–4735.5) | 1499.6 (1442.3–1563.5) | 897.1 (846.9–954.4) | 379.1 (354.4–410.8) | 238.5 (223.4–253.4) | 120.8 (93.0–158.7) | 108.8 (91.4–129.0) | 32.2 (25.0–39.7) | 76.8 (61.5–94.1) | 0.1 (0.1–0.1) | 26.9 (21.7–32.4) | 3.7 (2.8–4.7) | 0.2 (0.1–0.2) | 23.1 (18.2–28.5) | 1.6 (1.3–1.9) | 550.0 (414.7–704.3) | -- | 1241.2 (927.3–1623.6) | 3.1 (2.6–3.6) | 355.3 (265.7–473.9) |
| Nauru | 8076.5 (7482.6–8801.2) | 704.0 (556.3–853.4) | 4311.8 (3718.6–5055.2) | 1684.1 (1620.1–1761.6) | 980.6 (919.1–1049.9) | 444.9 (412.2–478.9) | 276.9 (260.0–295.2) | 91.9 (70.4–125.2) | 116.1 (96.2–139.2) | 36.5 (28.0–46.1) | 79.8 (62.5–99.1) | 0.1 (0.05–0.1) | 27.9 (22.3–33.7) | 3.6 (2.8–4.6) | 0.2 (0.1–0.2) | 24.1 (18.8–29.5) | 1.6 (1.3–2.0) | 609.1 (452.5–771.9) | -- | 1085.6 (833.9–1412.5) | 2.7 (2.3–3.2) | 310.4 (237.3–418.0) |
| Niue | 7215.7 (6764.8–7791.0) | 715.4 (570.8–876.0) | 3477.9 (3034.1–4107.7) | 1487.9 (1430.7–1541.6) | 916.5 (861.5–971.5) | 358.0 (337.0–381.9) | 227.7 (214.5–242.3) | 117.7 (89.9–153.8) | 117.8 (100.3–141.2) | 44.6 (35.1–55.2) | 73.3 (58.0–90.2) | 0.1 (0.1–0.1) | 33.0 (26.1–39.2) | 3.6 (2.8–4.6) | 0.2 (0.2–0.2) | 29.2 (22.7–35.3) | 2.0 (1.6–2.4) | 613.0 (468.5–770.9) | -- | 1025.4 (783.0–1313.5) | 4.6 (3.8–5.5) | 381.6 (287.2–492.2) |
| Northern Mariana Islands | 7150.6 (6620.2–7736.8) | 171.6 (147.7–195.4) | 3538.4 (2966.8–4189.8) | 1293.6 (1244.4–1341.3) | 716.4 (683.0–758.7) | 306.3 (285.3–326.1) | 283.7 (269.4–300.3) | 62.9 (48.2–84.1) | 152.6 (129.1–177.3) | 69.9 (55.2–85.0) | 83.0 (65.7–102.9) | 0.3 (0.2–0.3) | 52.5 (42.3–64.4) | 4.1 (3.2–5.2) | 0.6 (0.5–0.8) | 47.8 (38.0–59.5) | 2.1 (1.7–2.6) | 606.0 (455.2–765.4) | -- | 1075.7 (803.8–1384.7) | 3.9 (3.4–4.5) | 1129.2 (864.7–1487.8) |
| Palau | 7694.2 (7145.7–8323.3) | 704.2 (557.2–843.6) | 4028.1 (3462.7–4684.4) | 1567.3 (1506.9–1628.3) | 1005.8 (954.1–1058.2) | 347.2 (326.6–371.3) | 229.4 (216.3–242.4) | 52.3 (41.1–70.4) | 118.6 (112.1–155.8) | 44.0 (37.6–60.4) | 84.9 (67.8–104.8) | 0.1 (0.1–0.1) | 24.6 (22.7–34.0) | 3.6 (2.8–4.6) | 0.1 (0.1–0.2) | 24.6 (18.9–30.1) | 1.8 (1.5–2.3) | 594.0 (450.1–747.7) | -- | 1024.0 (772.9–1322.6) | 2.8 (2.4–3.3) | 404.1 (304.9–534.5) |
| Papua New Guinea | 5576.0 (5199.6–6042.0) | 719.8 (568.1–874.9) | 2192.3 (1838.5–2570.1) | 1073.0 (1025.8–1124.5) | 707.9 (663.2–752.1) | 231.0 (216.5–249.0) | 141.7 (132.3–151.7) | 103.5 (81.4–135.8) | 91.6 (77.5–112.2) | 22.0 (17.0–27.1) | 69.7 (55.0–87.9) | 0.05 (0.04–0.1) | 28.5 (22.6–34.3) | 3.9 (3.0–4.9) | 0.2 (0.2–0.3) | 24.4 (18.7–29.9) | 1.7 (1.4–2.2) | 525.2 (396.8–669.2) | -- | 972.5 (729.7–1265.3) | 6.2 (5.2–7.3) | 395.6 (296.2–535.9) |
| Samoa | 7808.1 (7247.2–8511.6) | 734.9 (581.2–882.9) | 4004.4 (3499.2–4740.8) | 1530.4 (1474.7–1592.3) | 996.8 (949.0–949.4) | 382.4 (359.2–409.9) | 267.4 (253.3–282.7) | 131.2 (102.7–172.8) | 134.1 (99.2–138.1) | 41.3 (32.1–50.8) | 75.1 (60.2–94.1) | 0.1 (0.1–0.1) | 30.6 (27.8–41.4) | 3.7 (2.8–4.7) | 0.2 (0.2–0.2) | 26.1 (24.3–37.4) | 2.1 (1.7–2.6) | 584.7 (447.4–746.9) | -- | 1065.5 (805.7–1370.1) | 3.2 (2.7–3.8) | 418.9 (323.0–554.1) |
| Solomon Islands | 8023.2 (7425.8–8742.0) | 733.1 (581.9–887.2) | 4629.1 (3997.1–5366.9) | 1465.1 (1410.5–1528.6) | 866.6 (811.4–922.9) | 367.1 (343.4–395.0) | 247.9 (232.7–264.4) | 86.3 (66.6–112.6) | 97.2 (81.9–116.2) | 27.6 (21.6–33.5) | 69.7 (55.9–86.0) | 0.04 (0.03–0.05) | 22.6 (18.1–27.4) | 3.6 (2.8–4.6) | 0.2 (0.1–0.2) | 18.9 (14.6–23.3) | 1.6 (1.3–2.0) | 542.5 (404.4–683.7) | -- | 1013.0 (768.3–1323.2) | 2.6 (2.2–3.1) | 294.0 (220.3–402.5) |
| Tokelau | 7178.3 (6698.0–7769.0) | 719.0 (570.2–884.2) | 3450.5 (3004.2–4038.2) | 1392.1 (1337.3–1445.4) | 858.4 (807.6–910.2) | 316.1 (285.3–326.1) | 230.6 (216.8–245.6) | 118.6 (92.1–159.2) | 111.5 (95.5–133.3) | 38.3 (30.2–47.6) | 73.4 (57.4–90.5) | 0.1 (0.1–0.1) | 39.7 (31.7–47.2) | 3.7 (2.8–4.7) | 0.2 (0.2–0.3) | 35.8 (27.7–43.1) | 1.9 (1.6–2.4) | 581.3 (441.9–748.0) | -- | 1138.8 (853.2–1454.4) | 4.4 (3.6–5.1) | 426.8 (328.3–564.1) |
| Tonga | 7179.2 (6675.7–7749.9) | 923.2 (718.4–1131.9) | 3306.1 (2861.9–3792.6) | 1178.4 (1132.5–1228.9) | 726.9 (681.5–773.2) | 269.5 (251.2–288.0) | 192.0 (180.9–205.0) | 73.7 (55.3–96.4) | 112.7 (96.3–135.3) | 43.4 (33.5–53.2) | 69.5 (54.7–87.8) | 0.1 (0.1–0.2) | 42.1 (33.9–50.9) | 3.7 (2.8–4.7) | 0.3 (0.2–0.3) | 38.2 (30.2–47.0) | 2.1 (1.7–2.6) | 599.2 (451.8–763.4) | -- | 1114.5 (840.8–1457.2) | 5.2 (4.3–6.1) | 618.4 (465.7–811.2) |
| Tuvalu | 8060.0 (7519.9–8691.6) | 739.2 (578.9–901.1) | 4184.0 (3653.8–4888.9) | 1737.1 (1620.1–1761.6) | 1037.1 (978.8–1093.1) | 458.2 (427.5–490.4) | 270.6 (252.9–288.6) | 118.1 (90.0–157.7) | 104.0 (88.9–123.0) | 34.7 (26.8–41.9) | 69.4 (55.5–84.7) | 0.1 (0.1–0.1) | 29.0 (22.9–34.6) | 3.7 (2.9–4.7) | 0.2 (0.1–0.2) | 25.1 (19.4–30.5) | 1.7 (1.3–2.0) | 569.7 (428.6–731.3) | -- | 1040.0 (783.7–1344.1) | 3.4 (2.9–3.9) | 356.4 (274.0–476.5) |
| Vanuatu | 8678.8 (8090.9–9475.4) | 734.8 (595.6–900.4) | 4980.0 (4339.6–5778.6) | 1822.8 (1748.9–1898.7) | 1109.1 (1040.7–1177.0) | 466.2 (434.5–499.3) | 269.4 (254.2–285.5) | 93.1 (72.6–123.0) | 99.0 (83.5–119.0) | 29.1 (22.5–35.9) | 70.0 (56.1–87.8) | 0.04 (0.03–0.1) | 25.5 (20.6–30.5) | 3.6 (2.8–4.6) | 0.2 (0.1–0.2) | 21.8 (17.1–26.4) | 1.5 (1.2–1.9) | 603.0 (451.4–771.0) | -- | 984.1 (733.0–1277.3) | 2.8 (2.3–3.2) | 332.1 (254.5–445.5) |
| Southeast Asia | 5395.9 (5100.3–5776.5) | 434.1 (345.6–528.5) | 1615.2 (1403.1–1850.5) | 1476.9 (1388.6–1571.9) | 987.3 (910.9–1072.5) | 325.1 (296.8–355.5) | 176.9 (159.5–195.7) | 162.3 (129.8–205.2) | 109.9 (97.3–125.0) | 25.6 (19.7–31.1) | 84.5 (73.4–97.3) | 0.04 (0.03–0.05) | 31.1 (25.4–36.9) | 3.6 (2.9–4.5) | 0.4 (0.4–0.5) | 27.0 (21.7–32.6) | 1.9 (1.5–2.3) | 610.3 (464.2–781.5) | -- | 1068.9 (807.2–1368.2) | 5.3 (4.5–6.1) | 391.7 (312.2–492.2) |
| Cambodia | 4843.4 (4557.6–5205.8) | 397.3 (312.9–486.8) | 1552.5 (1332.4–1856.5) | 1171.2 (1111.0–1229.6) | 784.5 (734.7–832.8) | 247.9 (230.1–268.2) | 146.7 (133.5–160.5) | 193.6 (152.9–249.1) | 91.3 (74.0–110.4) | 17.7 (13.6–22.3) | 73.7 (58.2–90.4) | 0.1 (0.01–0.01) | 24.6 (17.3–25.4) | 3.6 (2.9–4.4) | 0.4 (0.3–0.4) | 17.2 (13.7–21.2) | 1.6 (1.3–2.0) | 549.4 (410.8–701.5) | -- | 1051.4 (799.9–1370.5) | 2.5 (2.1–2.9) | 251.7 (196.2–322.3) |
| Indonesia | 5754.9 (5407.4–6198.5) | 443.6 (351.3–537.8) | 1820.8 (1531.1–2173.3) | 1653.7 (1505.0–1814.5) | 1109.7 (965.2–1259.7) | 383.4 (341.6–432.7) | 175.5 (154.2–203.5) | 187.9 (150.1–236.2) | 104.1 (96.3–112.8) | 21.7 (16.5–26.6) | 82.5 (76.4–88.6) | 0.02 (0.01–0.03) | 30.3 (24.2–36.8) | 3.8 (3.1–4.8) | 0.3 (0.3–0.4) | 26.2 (20.3–32.4) | 1.7 (1.4–2.1) | 661.5 (505.2–847.5) | -- | 1113.6 (843.6–1429.8) | 2.6 (2.2–3.1) | 306.3 (241.6–391.3) |
| Aceh | 5711.2 (5346.7–6167.6) | 442.9 (354.9–542.1) | 1773.3 (1468.6–2116.6) | 1630.1 (1476.0–1783.1) | 1079.4 (930.5–1231.2) | 389.7 (343.6–437.8) | 175.7 (152.4–205.7) | 187.2 (149.5–235.0) | 116.2 (94.6–111.5) | 21.7 (16.7–26.8) | 80.9 (74.8–87.6) | 0.02 (0.01–0.02) | 30.3 (24.2–36.3) | 3.9 (3.1–4.8) | 0.3 (0.3–0.4) | 26.1 (20.4–31.9) | 1.4 (1.1–1.7) | 654.8 (492.1–834.2) | -- | 1149.0 (871.3–1477.0) | 2.5 (2.1–3.0) | 299.3 (232.7–384.0) |
| Bali | 5256.1 (4925.4–5682.1) | 444.7 (352.2–541.8) | 1557.8 (1307.0–1848.7) | 1448.6 (1358.1–1539.6) | 953.3 (824.6–1075.6) | 341.9 (303.8–383.1) | 165.4 (144.2–192.5) | 188.0 (148.4–238.5) | 103.3 (95.1–111.7) | 21.7 (16.2–26.8) | 81.7 (75.4–89.0) | 0.02 (0.02–0.03) | 30.1 (23.7–36.5) | 3.8 (3.0–4.7) | 0.3 (0.3–0.4) | 26.0 (20.1–32.4) | 1.7 (1.4–2.1) | 607.8 (454.6–776.1) | -- | 1035.7 (777.2–1333.2) | 2.9 (2.4–3.4) | 320.3 (255.1–406.7) |
| Bangka-Belitung Islands | 6105.5 (5710.7–6577.3) | 442.0 (349.4–548.5) | 1985.1 (1656.9–2389.9) | 1883.9 (1771.7–2000.3) | 1268.0 (1105.7–1434.3) | 451.9 (396.7–514.8) | 182.0 (159.3–210.0) | 176.1 (136.7–223.1) | 109.5 (97.3–114.8) | 22.4 (16.9–27.6) | 83.3 (76.1–89.1) | 0.02 (0.01–0.02) | 26.7 (20.9–32.2) | 3.8 (3.1–4.8) | 0.3 (0.2–0.3) | 22.6 (16.8–28.4) | 1.4 (1.1–1.7) | 675.9 (505.8–868.9) | -- | 1128.0 (865.1–1467.5) | 2.2 (1.9–2.6) | 273.7 (212.9–350.4) |
| Banten | 5821.1 (5461.9–6275.7) | 441.6 (353.6–529.2) | 1893.0 (1601.3–2240.3) | 1685.3 (1531.3–1842.4) | 1128.8 (982.3–1277.9) | 392.9 (344.0–443.0) | 179.1 (156.0–208.6) | 182.8 (146.0–231.1) | 103.8 (95.8–112.9) | 20.7 (15.7–25.5) | 83.3 (76.3–90.1) | 0.02 (0.01–0.02) | 29.3 (23.5–35.0) | 3.8 (3.1–4.8) | 0.3 (0.3–0.4) | 25.2 (19.3–31.0) | 1.6 (1.3–2.0) | 649.9 (497.3–824.6) | -- | 1118.9 (849.8–1457.9) | 2.4 (2.0–2.9) | 289.8 (226.0–373.1) |
| Bengkulu | 5778.7 (5416.8–6236.5) | 443.5 (351.7–544.0) | 1822.2 (1523.2–2148.4) | 1661.2 (1513.1–1815.3) | 1113.7 (964.5–1242.9) | 390.7 (342.5–441.0) | 171.6 (148.6–199.9) | 183.5 (144.8–232.9) | 102.4 (94.0–111.1) | 20.0 (15.1–25.2) | 82.6 (76.5–89.5) | 0.02 (0.01–0.02) | 29.0 (23.7–35.6) | 3.8 (3.0–4.7) | 0.3 (0.3–0.4) | 24.9 (19.8–31.3) | 1.4 (1.1–1.7) | 650.7 (496.2–840.1) | -- | 1134.9 (852.9–1436.8) | 2.3 (1.9–2.8) | 297.0 (232.9–386.9) |
| Central Java | 5452.1 (5108.6–5878.7) | 444.4 (348.3–540.3) | 1458.5 (1219.0–1779.3) | 1647.0 (1497.9–1795.0) | 1054.9 (917.7–1199.5) | 422.3 (368.0–476.8) | 185.3 (160.2–216.7) | 209.4 (162.2–264.8) | 99.4 (91.4–107.7) | 18.0 (13.7–22.2) | 81.5 (74.9–88.6) | 0.02 (0.01–0.02) | 28.8 (22.9–35.4) | 3.8 (3.1–4.8) | 0.4 (0.3–0.5) | 24.5 (18.9–31.2) | 1.5 (1.2–1.9) | 642.1 (486.2–815.6) | -- | 1128.1 (850.1–1459.7) | 2.5 (2.1–3.0) | 312.4 (237.6–409.8) |
| Gorontalo | 6675.2 (6230.6–7246.0) | 435.9 (348.7–530.8) | 2759.4 (2281.4–3243.0) | 1802.8 (1638.1–1986.6) | 1288.2 (1132.6–1459.6) | 354.6 (313.5–396.2) | 175.9 (153.8–205.5) | 169.2 (131.5–217.0) | 112.3 (102.6–122.8) | 29.0 (22.3–36.2) | 83.6 (76.3–91.8) | 0.02 (0.02–0.03) | 31.2 (25.0–38.0) | 3.7 (3.0–4.7) | 0.3 (0.3–0.4) | 27.2 (21.2–33.4) | 1.8 (1.4–2.2) | 678.0 (516.1–877.4) | -- | 1102.5 (842.5–1432.6) | 2.6 (2.1–3.1) | 327.5 (258.1–433.3) |
| Jakarta | 5754.8 (5410.1–6204.5) | 443.6 (354.2–536.7) | 1777.6 (1481.6–2142.6) | 1661.6 (1530.0–1863.9) | 1141.7 (973.5–1322.8) | 395.2 (347.3–444.5) | 172.2 (150.1–199.5) | 198.1 (155.3–248.8) | 102.2 (97.3–114.6) | 22.0 (17.0–27.1) | 84.1 (77.6–90.9) | 0.02 (0.01–0.02) | 31.2 (24.5–38.0) | 3.6 (3.1–4.8) | 0.3 (0.3–0.4) | 27.1 (20.6–33.9) | 1.6 (1.2–1.8) | 706.2 (491.7–844.9) | -- | 1103.9 (830.5–1421.3) | 2.5 (2.1–3.0) | 306.9 (243.0–393.6) |
| Jambi | 5908.0 (5520.3–6368.2) | 443.6 (351.9–548.6) | 1972.6 (1663.7–2341.4) | 1690.6 (1541.0–1839.1) | 1170.0 (1023.9–1319.7) | 362.7 (321.0–405.2) | 172.8 (151.7–201.5) | 175.0 (135.2–223.5) | 105.3 (97.5–113.1) | 21.9 (16.7–27.6) | 83.5 (77.2–89.8) | 0.02 (0.01–0.03) | 29.4 (23.5–35.9) | 3.7 (3.0–4.7) | 0.3 (0.3–0.4) | 25.3 (19.4–31.7) | 1.8 (1.4–2.2) | 678.0 (513.9–861.0) | -- | 1124.0 (850.6–1451.5) | 2.6 (2.1–3.1) | 292.3 (225.5–373.6) |
| West Java | 5642.5 (5335.5–6085.7) | 449.2 (357.6–547.1) | 1675.5 (1405.0–1993.9) | 1703.1 (1546.9–1867.2) | 1125.4 (971.2–1299.9) | 403.5 (359.0–453.3) | 189.1 (165.9–219.6) | 188.3 (151.8–238.8) | 103.0 (95.6–112.1) | 21.0 (16.0–26.7) | 82.1 (75.7–88.7) | 0.02 (0.01–0.03) | 32.4 (26.1–39.7) | 3.8 (3.0–4.8) | 0.4 (0.3–0.5) | 28.2 (21.8–35.2) | 1.8 (1.5–2.2) | 669.0 (505.9–854.7) | 0.4 (0.3–0.5) | 1103.0 (838.6–1412.4) | 2.8 (2.3–3.3) | 314.0 (249.7–405.8) |
| Central Java | 5642.5 (5301.4–6062.9) | 443.6 (350.3–538.9) | 1733.8 (1446.2–2070.6) | 1590.5 (1442.0–1757.7) | 1052.5 (920.2–1201.8) | 378.1 (338.1–422.0) | 174.0 (150.6–203.3) | 195.2 (155.2–250.1) | 102.5 (94.2–110.9) | 21.2 (15.9–26.2) | 81.5 (74.9–87.6) | 0.02 (0.01–0.03) | 32.7 (26.1–39.6) | 3.9 (3.1–4.8) | 0.3 (0.3–0.4) | 28.4 (21.7–35.1) | 1.8 (1.4–2.2) | 656.4 (498.9–840.2) | -- | 1114.7 (842.5–1432.6) | 2.7 (2.2–3.2) | 323.2 (254.3–412.1) |
| East Java | 5750.6 (5392.1–6181.1) | 441.1 (350.5–540.0) | 1842.2 (1536.0–2197.5) | 1637.7 (1483.7–1790.9) | 1090.4 (948.0–1237.4) | 392.1 (345.6–445.4) | 169.9 (147.3–197.6) | 185.7 (143.3–234.4) | 103.7 (95.1–112.6) | 20.9 (15.7–25.8) | 82.9 (75.7–90.0) | 0.02 (0.01–0.02) | 30.3 (24.2–36.4) | 3.8 (3.1–4.8) | 0.3 (0.3–0.4) | 26.1 (20.1–32.3) | 1.9 (1.5–2.3) | 650.0 (493.3–826.5) | -- | 1108.1 (835.1–1420.6) | 2.6 (2.1–3.0) | 312.8 (246.0–403.0) |
| West Kalimantan | 5947.0 (5577.8–6389.1) | 440.2 (348.4–541.2) | 1856.9 (1551.9–2215.8) | 1811.7 (1641.5–2012.5) | 1226.5 (1060.8–1405.1) | 432.0 (379.7–489.9) | 170.4 (148.0–197.7) | 195.7 (156.1–247.2) | 104.0 (96.0–113.3) | 21.5 (16.2–27.1) | 82.7 (76.3–89.9) | 0.02 (0.01–0.02) | 26.7 (20.9–32.1) | 3.9 (3.2–4.9) | 0.3 (0.2–0.3) | 22.6 (16.9–28.1) | 1.5 (1.2–1.8) | 675.3 (506.4–865.9) | -- | 1130.3 (853.1–1447.0) | 2.3 (1.9–2.7) | 287.9 (220.0–374.2) |
| South Kalimantan | 5611.1 (5253.8–6059.1) | 441.7 (353.8–535.8) | 1894.8 (1578.9–2239.9) | 1425.8 (1295.7–1541.6) | 973.9 (849.2–1104.5) | 315.2 (277.7–354.7) | 147.8 (129.1–171.1) | 181.0 (141.3–230.8) | 109.0 (100.9–118.7) | 24.1 (18.1–29.8) | 85.1 (78.5–92.8) | 0.02 (0.01–0.02) | 28.1 (22.4–34.3) | 3.8 (3.0–4.7) | 0.3 (0.3–0.4) | 24.0 (18.6–29.6) | 1.9 (1.5–2.3) | 655.8 (492.0–829.9) | -- | 1140.6 (861.6–1484.9) | 2.5 (2.1–3.0) | 282.8 (218.1–367.6) |
| Central Kalimantan | 6066.5 (5701.2–6489.0) | 431.5 (345.7–528.5) | 1809.3 (1527.6–2164.0) | 1992.0 (1790.8–2191.0) | 1378.7 (1190.5–1565.9) | 448.5 (394.5–504.5) | 184.5 (159.0–213.6) | 193.5 (151.9–244.4) | 118.4 (108.7–128.6) | 31.2 (23.5–39.4) | 87.4 (80.3–94.4) | 0.02 (0.02–0.03) | 27.4 (21.7–33.1) | 3.8 (3.0–4.8) | 0.3 (0.2–0.3) | 23.4 (17.7–28.8) | 1.6 (1.3–2.0) | 695.7 (530.5–890.7) | -- | 1080.9 (809.5–1399.6) | 2.5 (2.1–2.9) | 324.3 (255.5–421.3) |
| East Kalimantan | 5571.5 (5230.7–6013.8) | 442.7 (352.9–540.4) | 1192.1 (991.8–1454.4) | 1665.0 (1526.1–1812.3) | 1121.6 (983.9–1270.2) | 363.6 (322.1–411.6) | 196.0 (170.7–227.8) | 229.8 (180.8–289.9) | 119.2 (108.4–130.1) | 33.2 (25.2–41.0) | 86.2 (78.5–94.2) | 0.03 (0.02–0.04) | 36.9 (29.3–45.2) | 3.7 (3.0–4.7) | 0.6 (0.4–0.7) | 32.6 (24.9–40.8) | 1.9 (1.5–2.4) | 706.2 (541.0–892.6) | -- | 1175.7 (892.4–1526.9) | 3.9 (3.2–4.7) | 579.0 (457.4–728.8) |
| North Kalimantan | 5562.8 (5203.9–5989.7) | 438.3 (347.4–532.5) | 1665.4 (1399.6–2005.7) | 1572.7 (1424.5–1715.9) | 1051.2 (911.1–1193.0) | 363.6 (322.9–408.0) | 171.4 (149.2–199.4) | 188.9 (150.9–237.9) | 112.6 (103.0–122.7) | 27.3 (21.0–34.2) | 85.5 (78.5–93.1) | 0.02 (0.01–0.03) | 33.8 (26.6–40.7) | 3.8 (3.0–4.7) | 0.3 (0.3–0.4) | 29.6 (22.4–36.6) | 1.7 (1.4–2.1) | 670.4 (505.7–857.8) | -- | 1087.9 (827.4–1395.2) | 2.5 (2.0–2.9) | 329.3 (255.3–423.4) |
| Riau Islands | 5608.0 (5246.4–6008.3) | 446.9 (356.7–552.0) | 1622.0 (1366.0–1943.7) | 1673.0 (1516.4–1835.4) | 1103.6 (959.2–1249.4) | 402.7 (355.4–454.1) | 182.8 (159.8–212.4) | 193.4 (150.9–242.8) | 105.2 (96.8–114.0) | 21.0 (16.1–25.5) | 84.3 (76.9–91.9) | 0.02 (0.01–0.02) | 34.5 (26.8–42.6) | 3.8 (3.0–4.8) | 0.4 (0.3–0.5) | 30.4 (23.1–38.1) | 1.9 (1.6–2.4) | 656.9 (500.4–848.0) | -- | 1109.1 (841.2–1429.5) | 2.7 (2.2–3.2) | 312.1 (243.6–400.5) |
| Lampung | 5766.5 (5402.7–6189.8) | 444.4 (346.8–535.6) | 1646.1 (1363.4–1993.8) | 1844.3 (1668.4–2043.0) | 1224.1 (1066.3–1385.3) | 452.9 (398.2–509.5) | 186.3 (164.4–216.3) | 215.2 (172.0–268.9) | 96.8 (90.8–107.3) | 16.8 (12.6–20.4) | 81.7 (75.0–88.2) | 0.01 (0.01–0.02) | 30.1 (23.6–37.1) | 3.9 (3.1–4.8) | 0.3 (0.3–0.5) | 25.8 (19.6–32.6) | 1.4 (1.2–1.8) | 654.3 (502.5–837.4) | 0.4 (0.3–0.5) | 1090.0 (824.7–1404.4) | 2.6 (2.2–3.1) | 306.6 (243.3–390.5) |
| Maluku | 5947.9 (5540.7–6422.3) | 443.5 (350.2–548.9) | 2140.3 (1792.4–2534.5) | 1542.9 (1400.7–1688.1) | 1042.5 (899.3–1188.7) | 358.9 (317.0–401.5) | 154.2 (134.4–181.2) | 187.5 (148.7–238.9) | 101.0 (93.1–108.6) | 17.9 (13.4–22.3) | 83.2 (76.7–89.6) | 0.01 (0.009–0.02) | 28.3 (22.6–34.6) | 3.8 (3.0–4.7) | 0.4 (0.3–0.4) | 24.2 (18.6–30.4) | 1.5 (1.2–1.8) | 658.4 (497.0–834.9) | -- | 1132.1 (852.7–1475.7) | 2.3 (1.9–2.7) | 306.4 (237.5–403.7) |
| North Maluku | 5695.9 (5325.7–6112.3) | 443.7 (348.3–531.5) | 1709.6 (1419.7–2055.2) | 1702.3 (1545.3–1883.8) | 1127.1 (980.4–1295.6) | 411.3 (364.1–466.0) | 179.9 (157.2–209.9) | 204.4 (156.8–251.6) | 101.4 (93.5–109.6) | 18.9 (14.3–23.2) | 82.7 (76.4–89.6) | 0.02 (0.01–0.02) | 29.2 (22.9–35.4) | 3.8 (3.1–4.8) | 0.4 (0.3–0.5) | 24.9 (18.8–31.3) | 1.4 (1.2–1.7) | 651.9 (494.1–827.6) | -- | 1127.0 (848.8–1440.5) | 2.5 (2.1–2.9) | 283.5 (217.0–367.9) |
| West Nusa Tenggara | 5422.5 (5061.0–5842.7) | 448.0 (350.5–543.9) | 1660.2 (1374.3–1984.9) | 1519.0 (1375.2–1662.8) | 993.1 (857.6–1150.6) | 371.5 (327.8–415.8) | 167.5 (145.0–193.2) | 197.3 (155.9–248.8) | 100.4 (93.2–109.4) | 18.4 (14.0–22.9) | 82.1 (75.7–89.8) | 0.02 (0.01–0.02) | 26.8 (21.3–32.8) | 3.7 (3.0–4.7) | 0.4 (0.3–0.4) | 22.7 (17.3–28.8) | 1.4 (1.2–1.8) | 625.6 (476.5–807.3) | -- | 1067.7 (812.1–1386.9) | 2.8 (2.3–3.4) | 288.5 (218.0–378.5) |
| Papua | 5468.9 (5099.0–5898.7) | 432.6 (343.0–523.7) | 1778.2 (1486.0–2099.4) | 1489.3 (1346.0–1626.8) | 995.9 (863.1–1130.4) | 363.0 (317.0–411.1) | 142.9 (124.4–166.2) | 186.9 (147.1–236.0) | 109.2 (100.5–118.7) | 21.0 (15.6–26.2) | 88.3 (80.8–96.0) | 0.02 (0.01–0.02) | 24.6 (19.4–30.6) | 3.7 (3.0–4.7) | 0.3 (0.2–0.4) | 20.6 (15.2–26.2) | 1.5 (1.2–1.8) | 637.4 (483.8–819.8) | -- | 1064.8 (816.4–1372.4) | 2.2 (1.8–2.6) | 265.2 (204.4–342.9) |
| West Papua | 5749.0 (5356.7–6212.7) | 437.1 (345.7–536.3) | 1759.3 (1475.2–2103.0) | 1706.8 (1546.0–1870.7) | 1132.3 (978.9–1288.7) | 418.4 (365.1–468.5) | 171.7 (151.1–197.9) | 194.4 (147.9–248.5) | 109.3 (100.4–118.8) | 23.0 (17.2–28.7) | 86.4 (78.9–93.5) | 0.02 (0.01–0.03) | 29.5 (23.7–35.8) | 3.8 (3.0–4.7) | 0.4 (0.3–0.5) | 25.3 (19.5–31.6) | 1.4 (1.1–1.7) | 662.9 (496.2–855.2) | -- | 1113.2 (850.9–1424.3) | 2.6 (2.1–3.0) | 296.4 (231.4–375.9) |
| Riau | 5566.2 (5208.5–6001.1) | 436.1 (352.5–538.1) | 1648.2 (1386.7–1988.0) | 1591.0 (1434.4–1751.8) | 1057.4 (910.0–1200.5) | 375.9 (330.6–422.1) | 171.7 (149.3–198.4) | 188.4 (143.8–237.8) | 113.2 (103.4–123.8) | 27.8 (21.1–35.3) | 85.6 (78.6–94.6) | 0.02 (0.02–0.03) | 27.7 (22.4–33.6) | 3.8 (3.1–4.8) | 0.3 (0.2–0.3) | 23.6 (18.4–29.6) | 1.7 (1.4–2.1) | 651.9 (491.7–825.1) | -- | 1108.1 (842.9–1416.3) | 2.6 (2.2–3.0) | 325.4 (256.1–414.4) |
| Sulawesi | 5659.

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apayao | 5210.7 (4865.9–5610.9) | 400.8 (321.0–491.8) | 1674.3 (1412.9–1986.3) | 1247.7 (1146.1–1365.0) | 800.3 (699.2–901.7) | 299.3 (266.2–331.2) | 156.8 (136.7–183.5) | 254.9 (207.2–308.9) | 96.7 (88.9–105.1) | 22.6 (17.3–28.1) | 74.2 (68.7–80.1) | 0.03 (0.02–0.04) | 23.7 (18.5–28.8) | 3.2 (2.5–4.1) | 1.0 (0.8–1.2) | 19.6 (14.8–24.6) | 2.4 (1.9–3.0) | 613.9 (471.0–773.9) | -- | 1048.9 (799.0–1352.8) | 4.7 (3.9–5.7) | 326.7 (255.2–440.0) |
| Aurora | 5562.8 (5214.8–5997.3) | 401.2 (319.3–493.4) | 1957.9 (1638.0–2341.5) | 1448.7 (1326.0–1601.7) | 972.1 (865.4–1100.6) | 334.7 (288.5–371.5) | 153.2 (133.1–177.9) | 216.6 (170.6–270.4) | 89.7 (82.3–98.1) | 18.4 (13.9–23.1) | 71.4 (65.2–77.4) | 0.01 (0.009–0.02) | 37.0 (29.6–44.6) | 3.7 (3.0–4.6) | 3.2 (0.4–0.6) | 32.8 (25.6–40.5) | 2.2 (1.8–2.7) | 609.7 (461.4–772.6) | -- | 1070.8 (806.8–1388.3) | 3.0 (2.5–3.5) | 261.6 (204.6–350.3) |
| Basilan | 5880.8 (5429.5–6328.1) | 416.7 (334.4–503.0) | 2523.3 (2105.1–3013.2) | 1414.5 (1289.0–1546.2) | 962.1 (836.4–1098.9) | 315.3 (277.1–354.5) | 148.3 (128.6–172.2) | 179.3 (142.2–225.3) | 94.7 (86.8–102.8) | 20.7 (15.5–25.5) | 74.1 (68.1–80.5) | 0.03 (0.02–0.04) | 23.5 (18.3–28.9) | 3.9 (3.2–4.8) | 0.6 (0.5–0.8) | 19.0 (14.0–24.5) | 2.1 (1.8–2.7) | 607.6 (458.5–768.9) | -- | 1026.8 (782.9–1346.7) | 1.7 (1.4–2.0) | 193.9 (151.2–253.2) |
| Batanes | 5587.8 (5188.2–6072.5) | 404.0 (317.8–497.5) | 2223.5 (1877.0–2622.5) | 1235.0 (1138.0–1365.6) | 833.3 (742.6–946.2) | 256.9 (225.0–287.0) | 152.8 (133.6–177.8) | 165.7 (127.5–213.2) | 89.4 (82.4–98.0) | 19.5 (14.7–24.0) | 70.0 (64.4–76.0) | 0.004 (0.003–0.005) | 25.8 (19.8–31.5) | 3.3 (2.6–4.1) | 0.4 (0.3–0.4) | 22.1 (16.4–27.9) | 2.3 (1.9–2.9) | 614.7 (465.4–771.4) | -- | 1107.0 (833.6–1417.4) | 2.5 (2.1–3.0) | 244.7 (193.0–316.7) |
| Batanes | 5659.2 (5303.3–6149.3) | 406.0 (323.9–490.8) | 1749.7 (1453.6–2081.9) | 1263.3 (1149.7–1385.1) | 813.0 (707.9–921.7) | 311.6 (275.0–348.6) | 147.5 (125.7–171.8) | 213.9 (168.3–265.7) | 100.8 (92.0–110.5) | 29.5 (22.3–38.1) | 71.4 (66.2–77.5) | 0.03 (0.02–0.04) | 16.0 (12.9–19.3) | 3.2 (2.5–4.1) | 1.5 (1.2–1.9) | 11.3 (8.4–14.5) | 2.3 (1.8–2.8) | 633.0 (482.1–814.7) | -- | 1105.8 (838.8–1453.7) | 2.4 (2.0–2.8) | 724.1 (556.7–943.3) |
| Batangas | 5687.9 (5303.6–6146.0) | 401.8 (316.8–491.6) | 2194.5 (1834.3–2631.6) | 1322.2 (1218.0–1445.4) | 878.3 (772.8–988.8) | 292.6 (258.1–328.5) | 160.8 (141.1–184.7) | 155.7 (118.3–200.2) | 89.8 (82.9–97.9) | 21.4 (16.4–26.1) | 68.5 (63.1–74.2) | 0.005 (0.004–0.006) | 45.9 (36.9–55.4) | 3.2 (2.6–4.1) | 0.4 (0.3–0.5) | 42.3 (33.5–51.7) | 2.2 (1.8–2.7) | 620.7 (467.5–779.8) | -- | 1107.4 (842.2–1420.0) | 3.2 (2.7–3.9) | 282.6 (218.3–373.0) |
| Benguet | 5262.1 (4927.5–5684.8) | 404.9 (321.1–499.1) | 1815.9 (1529.6–2174.3) | 1234.2 (1125.4–1355.5) | 818.7 (716.7–925.0) | 259.2 (228.8–290.2) | 164.4 (141.6–191.5) | 191.3 (152.3–243.5) | 91.2 (84.2–98.7) | 20.8 (16.0–25.4) | 70.5 (64.2–76.6) | 0.004 (0.003–0.005) | 25.8 (20.4–31.3) | 3.3 (2.7–4.2) | 0.5 (0.4–0.6) | 22.0 (16.8–27.7) | 2.2 (1.8–2.7) | 614.4 (474.8–781.3) | -- | 1089.7 (826.2–1397.6) | 3.3 (2.7–3.9) | 274.3 (215.1–356.3) |
| Biliran | 5045.0 (4692.0–5446.6) | 404.5 (319.2–494.9) | 1654.3 (1392.3–1979.5) | 1233.3 (1130.4–1354.5) | 824.5 (728.4–931.6) | 277.6 (248.9–310.7) | 139.1 (121.2–163.0) | 277.3 (229.1–335.5) | 91.0 (84.1–98.2) | 19.1 (14.5–23.3) | 71.9 (66.4–77.4) | 0.03 (0.02–0.03) | 13.8 (10.9–16.9) | 3.4 (2.7–4.2) | 0.5 (0.4–0.6) | 9.9 (7.0–12.9) | 2.2 (1.8–2.7) | 618.1 (469.5–781.2) | -- | 1086.6 (819.0–1414.1) | 2.5 (2.1–3.0) | 116.7 (92.5–149.3) |
| Bohol | 5367.8 (5024.6–5782.8) | 403.5 (320.1–493.6) | 1815.1 (1536.6–2183.8) | 1383.3 (1269.0–1527.3) | 937.8 (825.0–1072.6) | 296.9 (263.4–335.9) | 158.8 (136.3–186.0) | 189.3 (147.9–237.5) | 87.8 (80.8–94.1) | 17.8 (13.5–22.1) | 70.0 (64.1–75.1) | 0.009 (0.006–0.01) | 67.1 (52.9–82.8) | 3.4 (2.7–4.3) | 1.0 (0.8–1.2) | 62.7 (48.8–78.8) | 2.3 (1.9–2.9) | 609.9 (468.0–780.4) | -- | 1063.1 (798.6–1370.5) | 2.7 (2.2–3.1) | 250.4 (191.9–335.2) |
| Bukidnon | 5544.4 (5166.4–5987.6) | 401.4 (314.3–487.8) | 2078.9 (1744.0–2487.0) | 1434.7 (1309.4–1565.0) | 967.5 (843.3–1085.8) | 325.0 (285.8–361.1) | 153.0 (132.2–177.6) | 246.6 (198.7–306.8) | 88.4 (80.9–96.1) | 17.0 (12.9–21.1) | 71.5 (65.1–77.0) | 0.004 (0.003–0.006) | 20.6 (15.8–25.3) | 3.3 (2.6–4.1) | 0.6 (0.5–0.8) | 16.7 (12.3–21.4) | 2.0 (1.6–2.5) | 602.7 (458.1–759.5) | -- | 1032.3 (779.5–1344.9) | 2.3 (1.9–2.7) | 157.0 (125.6–202.3) |
| Bulacan | 5888.0 (5502.8–6400.9) | 407.0 (316.9–483.6) | 2463.2 (2084.4–2940.5) | 1377.3 (1263.7–1509.3) | 919.2 (809.3–1037.1) | 318.5 (283.6–358.2) | 148.5 (129.6–171.3) | 186.4 (145.0–238.0) | 88.5 (81.7–96.3) | 18.9 (14.2–23.5) | 69.8 (64.0–75.8) | 0.002 (0.002–0.003) | 18.3 (14.7–22.4) | 3.3 (2.6–4.1) | 0.3 (0.2–0.4) | 14.8 (10.9–19.0) | 2.3 (1.9–2.8) | 616.7 (461.7–788.5) | -- | 1105.6 (852.0–1415.0) | 2.8 (2.4–3.4) | 188.5 (145.8–248.9) |
| Cagayan | 5354.2 (4984.9–5793.4) | 402.2 (319.9–490.7) | 1954.6 (1644.3–2326.6) | 1255.5 (1157.1–1373.1) | 811.5 (713.0–905.8) | 295.5 (258.6–331.5) | 157.0 (137.5–183.1) | 217.0 (172.7–265.9) | 88.0 (80.1–95.8) | 18.3 (13.9–22.6) | 69.7 (63.6–75.4) | 0.006 (0.004–0.008) | 15.6 (12.3–19.0) | 3.3 (2.6–4.2) | 0.3 (0.2–0.4) | 11.9 (8.6–15.3) | 2.5 (2.0–3.0) | 620.0 (465.1–797.2) | -- | 1043.5 (786.4–1349.0) | 3.2 (2.7–3.8) | 232.1 (178.3–308.2) |
| Camarines Norte | 5779.4 (5380.2–6235.8) | 404.0 (315.3–485.1) | 2322.6 (1944.0–2741.2) | 1411.4 (1292.2–1546.6) | 940.8 (831.6–1080.4) | 330.7 (292.4–373.6) | 146.7 (127.6–170.7) | 151.6 (111.8–192.3) | 87.5 (80.8–95.3) | 18.2 (13.6–22.6) | 69.4 (63.5–74.8) | 0.004 (0.003–0.006) | 73.4 (58.9–90.2) | 3.8 (3.1–4.7) | 0.4 (0.3–0.5) | 69.7 (54.7–86.0) | 1.9 (1.5–2.4) | 605.5 (460.5–770.3) | -- | 1073.7 (809.4–1380.1) | 2.4 (2.0–2.8) | 165.3 (125.7–227.2) |
| Camarines Sur | 5627.8 (5235.0–6099.8) | 400.8 (320.6–488.9) | 2194.0 (1859.2–2593.5) | 1377.8 (1266.4–1502.5) | 899.0 (787.9–1008.7) | 337.5 (292.7–379.3) | 151.6 (132.8–175.7) | 174.7 (133.8–225.7) | 94.2 (86.5–101.6) | 20.3 (15.4–25.0) | 74.0 (68.6–80.6) | 0.009 (0.006–0.01) | 24.5 (19.4–29.7) | 3.3 (2.6–4.2) | 0.5 (0.4–0.6) | 20.8 (15.7–25.6) | 1.9 (1.5–2.4) | 608.7 (459.8–777.7) | -- | 1070.6 (811.1–1397.9) | 3.4 (2.9–4.1) | 194.5 (151.5–257.0) |
| Camiguin | 5411.6 (5058.1–5881.7) | 407.9 (323.6–497.3) | 1881.8 (1590.4–2239.5) | 1314.1 (1198.0–1440.3) | 862.2 (748.2–968.6) | 298.0 (264.6–333.4) | 163.2 (142.8–191.4) | 241.9 (199.7–299.7) | 87.9 (81.0–95.6) | 18.2 (13.8–23.1) | 69.7 (63.8–75.9) | 0.005 (0.004–0.008) | 27.6 (22.0–33.4) | 3.2 (2.5–4.1) | 0.6 (0.4–0.7) | 23.8 (18.5–29.6) | 2.3 (1.9–2.8) | 607.8 (457.6–769.6) | -- | 1067.7 (814.0–1377.6) | 4.0 (3.3–4.8) | 271.1 (211.0–361.7) |
| Capiz | 5511.3 (5117.7–5986.3) | 402.8 (317.7–485.8) | 2110.3 (1782.1–2510.5) | 1274.2 (1173.1–1396.1) | 849.2 (754.3–954.9) | 275.9 (243.3–310.8) | 157.7 (138.1–182.1) | 196.4 (154.6–246.0) | 88.0 (80.6–95.6) | 19.2 (14.3–23.6) | 69.0 (63.2–74.2) | 0.003 (0.003–0.005) | 80.9 (63.0–99.3) | 3.7 (3.0–4.6) | 0.6 (0.5–0.8) | 76.6 (59.1–95.2) | 2.0 (1.6–2.5) | 606.2 (456.7–771.9) | -- | 1059.9 (803.7–1362.6) | 2.2 (1.8–2.6) | 209.9 (161.0–291.6) |
| Catanduanes | 5479.7 (5108.9–5942.3) | 400.7 (323.6–486.6) | 2023.4 (1690.4–2418.6) | 1408.0 (1275.5–1546.2) | 920.6 (792.8–1047.6) | 355.6 (311.3–395.4) | 142.3 (123.1–167.4) | 187.6 (148.7–239.2) | 87.0 (80.3–94.2) | 17.6 (13.2–21.8) | 69.5 (63.8–75.8) | 0.006 (0.004–0.009) | 24.1 (18.9–29.3) | 3.4 (2.7–4.2) | 0.6 (0.5–0.7) | 20.1 (15.1–25.6) | 2.0 (1.6–2.4) | 619.3 (463.7–790.3) | -- | 1060.2 (798.2–1363.7) | 1.9 (1.6–2.3) | 152.5 (118.2–199.5) |
| Cavite | 5631.5 (5248.2–6153.5) | 401.9 (320.6–489.7) | 2276.5 (1930.0–2705.2) | 1217.9 (1109.5–1343.3) | 809.3 (716.5–920.0) | 264.3 (230.4–295.3) | 152.1 (132.5–175.2) | 196.7 (156.5–244.7) | 89.1 (81.7–96.4) | 20.0 (15.1–24.6) | 69.2 (63.6–74.8) | 0.005 (0.003–0.006) | 29.8 (23.5–36.4) | 3.3 (2.6–4.1) | 0.4 (0.3–0.4) | 26.2 (19.7–33.0) | 2.3 (1.8–2.8) | 618.5 (463.8–780.7) | -- | 1116.9 (832.7–1454.4) | 2.8 (2.4–3.4) | 205.4 (160.4–274.0) |
| Cebu | 5194.1 (4852.6–5620.3) | 402.5 (315.9–497.6) | 1810.9 (1513.1–2140.8) | 1232.3 (1128.3–1351.7) | 829.5 (727.5–926.6) | 266.7 (235.8–301.4) | 144.1 (124.6–169.8) | 231.4 (185.3–285.9) | 88.1 (80.8–95.8) | 17.9 (13.5–22.7) | 70.2 (64.1–76.7) | 0.003 (0.003–0.005) | 39.6 (31.4–48.2) | 3.3 (2.6–4.2) | 0.5 (0.4–0.6) | 35.8 (27.4–44.8) | 2.0 (1.6–2.5) | 606.4 (453.8–763.4) | -- | 1088.9 (824.7–1424.2) | 2.5 (2.1–3.0) | 173.2 (133.4–227.9) |
| Davao de Oro | 5590.0 (5207.1–6011.4) | 407.5 (322.7–498.1) | 2066.4 (1745.9–2495.0) | 1409.9 (1351.3–1612.6) | 954.6 (835.8–1086.6) | 319.2 (283.6–358.2) | 148.5 (129.6–171.3) | 185.4 (145.0–238.0) | 88.5 (81.7–96.3) | 18.9 (14.2–23.5) | 69.8 (64.0–75.8) | 0.002 (0.002–0.003) | 18.3 (14.7–22.4) | 3.3 (2.6–4.1) | 0.3 (0.2–0.4) | 14.8 (10.9–19.0) | 2.3 (1.9–2.8) | 616.7 (461.7–788.5) | -- | 1105.6 (852.0–1415.0) | 2.8 (2.4–3.4) | 188.5 (145.8–248.9) |
| Davao de Oro | 5397.1 (5061.5–5784.2) | 405.7 (322.2–501.7) | 1905.1 (1614.8–2263.9) | 1420.7 (1303.6–1570.7) | 950.8 (832.5–1100.6) | 334.4 (295.7–373.3) | 146.2 (125.6–173.0) | 238.8 (192.5–292.0) | 89.0 (82.2–95.9) | 17.3 (13.2–21.3) | 71.7 (65.5–77.1) | 0.005 (0.004–0.007) | 20.6 (16.5–25.9) | 3.3 (2.6–4.2) | 0.3 (0.2–0.4) | 17.0 (12.8–22.3) | 2.3 (1.9–2.9) | 601.8 (451.0–765.8) | -- | 1050.8 (792.6–1369.9) | 2.2 (1.8–2.6) | 163.4 (128.7–211.5) |
| Davao del Norte | 5598.9 (5213.9–6068.8) | 404.0 (322.5–491.7) | 2232.6 (1885.5–2697.6) | 1334.1 (1220.4–1479.0) | 880.0 (777.8–998.9) | 324.1 (283.1–360.5) | 146.7 (122.0–163.1) | 186.2 (148.1–234.8) | 88.2 (81.6–95.2) | 16.6 (12.5–20.6) | 71.7 (65.7–77.5) | 0.003 (0.002–0.004) | 28.3 (22.2–34.6) | 3.6 (2.9–4.5) | 0.4 (0.3–0.5) | 24.2 (18.5–30.7) | 2.0 (1.6–2.5) | 604.4 (458.5–765.5) | -- | 1076.5 (810.3–1381.3) | 2.2 (1.8–2.6) | 179.1 (140.6–233.2) |
| Davao del Sur | 4888.0 (4585.0–5275.4) | 402.1 (320.0–493.9) | 1394.6 (1165.9–1652.9) | 1303.4 (1198.5–1429.6) | 894.2 (793.2–1007.0) | 270.8 (240.1–303.6) | 146.9 (122.1–171.9) | 182.3 (143.0–228.7) | 86.9 (80.3–94.2) | 16.2 (12.2–19.9) | 70.8 (65.1–77.1) | 0.004 (0.003–0.005) | 18.0 (14.2–22.0) | 3.3 (2.6–4.2) | 0.5 (0.4–0.7) | 14.1 (10.2–18.4) | 2.0 (1.6–2.4) | 594.6 (449.2–752.8) | -- | 1076.0 (823.5–1398.0) | 2.3 (1.9–2.8) | 251.5 (197.6–324.6) |
| Davao Occidental | 5774.1 (5379.8–6229.2) | 406.0 (320.1–505.3) | 2033.3 (1680.1–2443.5) | 1512.4 (1391.8–1668.5) | 967.0 (850.2–1110.0) | 410.7 (363.0–461.9) | 147.6 (128.8–171.2) | 275.8 (226.6–343.3) | 91.4 (84.0–99.4) | 18.5 (14.1–22.7) | 72.9 (67.0–78.8) | 0.02 (0.02–0.03) | 11.0 (8.6–13.5) | 3.4 (2.7–4.3) | 0.3 (0.2–0.4) | 7.3 (5.2–9.7) | 2.0 (1.6–2.5) | 609.6 (460.8–778.0) | -- | 1061.0 (803.3–1393.9) | 2.3 (2.0–2.7) | 326.3 (253.9–419.7) |
| Davao Oriental | 5525.7 (5160.5–5942.6) | 403.7 (320.3–494.4) | 2025.4 (1706.1–2382.3) | 1514.7 (1380.6–1667.7) | 1009.8 (879.3–1156.5) | 371.2 (322.6–414.2) | 145.8 (126.8–169.4) | 212.0 (165.4–263.8) | 86.6 (80.1–93.3) | 15.8 (12.0–19.5) | 70.9 (65.3–76.4) | 0.006 (0.004–0.008) | 13.7 (10.9–16.8) | 3.2 (2.5–4.1) | 0.6 (0.5–0.8) | 9.8 (7.1–12.7) | 2.1 (1.7–2.6) | 598.1 (459.1–760.9) | -- | 1064.1 (797.6–1393.4) | 2.4 (2.0–2.9) | 115.8 (89.9–152.8) |
| Dinagat Islands | 5389.4 (5038.0–5825.4) | 404.2 (319.1–494.1) | 1775.3 (1492.1–2091.0) | 1405.4 (1284.6–1551.1) | 964.8 (845.6–1084.4) | 303.0 (267.9–338.5) | 147.6 (127.8–171.6) | 280.5 (232.7–342.5) | 86.5 (80.7–92.5) | 16.3 (12.0–20.5) | 70.3 (65.3–76.4) | 0.02 (0.01–0.03) | 26.0 (20.4–31.6) | 3.8 (3.1–4.7) | 0.5 (0.4–0.7) | 21.7 (16.0–27.3) | 2.3 (1.9–2.9) | 620.6 (467.4–797.2) | -- | 1078.5 (803.8–1401.1) | 3.1 (2.5–3.7) | 210.0 (163.7–275.9) |
| Eastern Samar | 5446.4 (5102.4–5897.5) | 402.6 (316.9–498.8) | 2037.7 (1720.1–2419.9) | 1301.8 (1182.9–1429.2) | 886.1 (779.4–997.0) | 286.9 (254.5–322.8) | 137.7 (120.5–160.7) | 256.0 (206.6–312.9) | 87.0 (79.9–93.6) | 16.2 (12.3–19.8) | 70.9 (65.1–76.6) | 0.005 (0.004–0.007) | 18.7 (14.8–23.0) | 3.4 (2.7–4.2) | 0.4 (0.3–0.5) | 14.9 (11.2–19.3) | 2.0 (1.7–2.5) | 608.8 (455.9–779.8) | -- | 1067.4 (802.4–1411.0) | 2.3 (1.9–2.7) | 178.0 (141.2–236.0) |
| Guimaras | 5203.8 (4858.6–5654.7) | 406.0 (328.4–497.7) | 1750.5 (1459.7–2063.4) | 1251.4 (1148.5–1375.8) | 819.5 (721.6–934.9) | 279.7 (246.2–315.1) | 160.7 (140.6–188.0) | 273.1 (222.3–336.8) | 92.4 (85.1–100.4) | 20.4 (15.5–25.3) | 72.1 (66.0–79.2) | 0.01 (0.008–0.02) | 108.4 (88.6–130.9) | 4.2 (3.4–5.0) | 1.4 (1.1–1.7) | 102.9 (83.2–125.4) | 2.3 (1.9–2.9) | 615.5 (469.6–783.9) | -- | 1061.4 (794.2–1371.4) | 5.0 (4.2–6.0) | 124.4 (91.4–175.2) |
| Ifugao | 5119.0 (4797.0–5530.2) | 404.2 (317.3–494.1) | 1695.1 (1413.2–2045.6) | 1247.1 (1141.5–1368.2) | 833.9 (726.7–945.6) | 275.0 (242.5–308.8) | 144.3 (125.7–169.3) | 175.4 (136.0–224.8) | 82.1 (84.3–99.7) | 20.6 (15.7–25.9) | 71.6 (64.8–77.0) | 0.02 (0.02–0.03) | 31.5 (16.4–25.8) | 3.5 (2.8–4.3) | 0.5 (0.4–0.6) | 17.2 (12.7–21.9) | 2.1 (1.8–2.8) | 615.6 (462.0–775.4) | -- | 1020.8 (770.1–1319.7) | 3.4 (2.8–4.0) | 315.6 (240.4–407.4) |
| Ilocos Norte | 5335.4 (4991.7–5750.5) | 402.2 (318.0–487.1) | 1786.3 (1512.6–2130.1) | 1293.1 (1184.2–1418.5) | 843.3 (732.5–951.2) | 293.4 (258.6–332.5) | 165.3 (143.0–191.0) | 238.7 (191.1–296.8) | 91.3 (83.5–99.5) | 21.8 (16.5–26.8) | 69.6 (63.0–75.1) | 0.003 (0.002–0.004) | 29.8 (23.5–37.2) | 3.2 (2.5–4.1) | 0.9 (0.7–1.1) | 25.7 (19.4–32.9) | 2.2 (1.8–2.8) | 620.2 (467.3–789.9) | -- | 1080.2 (813.2–1402.0) | 3.8 (3.2–4.6) | 283.7 (222.5–367.5) |
| Ilocos Sur | 5406.2 (5049.5–5846.9) | 401.2 (317.5–487.5) | 1769.2 (1474.6–2073.1) | 1302.1 (1196.9–1434.2) | 850.6 (754.2–980.8) | 298.0 (260.3–335.5) | 163.1 (141.0–189.6) | 243.2 (196.8–298.4) | 88.8 (81.4–95.7) | 18.8 (14.2–23.1) | 70.2 (64.8–75.8) | 0.004 (0.003–0.005) | 22.6 (17.7–27.8) | 3.3 (2.6–4.1) | 0.4 (0.3–0.5) | 18.8 (14.0–24.0) | 2.3 (1.9–2.9) | 619.8 (469.0–791.9) | 0.6 (0.5–0.7) | 1070.9 (816.9–1389.7) | 3.7 (3.1–4.3) | 403.8 (312.1–538.7) |
| Iloilo | 5119.0 (4781.3–5543.8) | 402.5 (316.2–496.4) | 1686.0 (1430.8–2017.2) | 1175.1 (1077.1–1293.3) | 774.1 (677.1–870.3) | 252.6 (222.6–283.8) | 155.7 (134.2–181.8) | 235.0 (188.6–294.5) | 88.0 (81.4–95.4) | 18.4 (13.9–23.1) | 69.8 (63.5–75.4) | 0.002 (0.002–0.003) | 93.3 (73.4–111.7) | 3.6 (2.9–4.4) | 0.4 (0.3–0.5) | 89.4 (69.5–108.0) | 2.1 (1.7–2.7) | 610.7 (466.9–782.5) | -- | 1086.0 (821.4–1392.2) | 3.2 (2.7–3.8) | 204.7 (154.9–285.9) |
| Isabela | 5284.7 (5016.4–5850.0) | 401.9 (320.1–490.8) | 1972.6 (1664.7–2345.1) | 1245.7 (1144.8–1370.0) | 801.4 (700.0–906.2) | 294.7 (256.1–330.3) | 157.9 (136.7–182.5) | 207.7 (165.9–259.8) | 89.8 (82.7–98.2) | 20.2 (15.1–25.6) | 69.8 (63.4–75.5) | 0.004 (0.003–0.006) | 38.0 (30.1–46.3) | 3.6 (2.9–4.4) | 0.3 (0.3–0.4) | 34.1 (26.7–42.5) | 2.3 (1.8–2.8) | 619.1 (471.4–791.4) | -- | 1056.4 (797.4–1366.0) | 3.0 (2.5–3.5) | 255.3 (178.9–308.1) |
| Kalinga | 5180.3 (4860.4–5606.0) | 405.7 (319.5–498.1) | 1593.3 (1345.3–1899.2) | 1323.5 (1212.2–1461.2) | 878.3 (770.2–1008.8) | 288.5 (257.6–326.6) | 166.3 (143.5–194.8) | 244.6 (197.7–302.1) | 93.7 (85.9–102.0) | 22.3 (17.0–26.9) | 71.5 (65.5–77.3) | 0.02 (0.01–0.02) | 28.7 (22.7–35.5) | 3.2 (2.5–4.1) | 1.1 (0.8–1.3) | 24.4 (19.0–31.1) | 2.3 (1.9–2.9) | 607.3 (450.2–778.7) | -- | 1033.4 (784.3–1346.0) | 5.3 (4.4–6.3) | 325.2 (252.3–426.4) |
| La Union | 5371.3 (5024.2–5810.5) | 400.1 (317.2–485.9) | 1844.3 (1529.5–2194.9) | 1309.0 (1210.7–1427.7) | 846.8 (761.5–954.1) | 305.7 (270.8–342.7) | 166.0 (144.9–191.4) | 177.6 (136.5–224.3) | 90.6 (83.0–98.4) | 21.4 (16.1–26.0) | 69.4 (64.0–75.4) | 0.0007 (0.0004–0.0009) | 121.2 (98.5–143.8) | 3.9 (3.2–4.7) | 0.7 (0.5–0.8) | 116.7 (94.6–145.3) | 2.2 (1.8–2.7) | 618.0 (471.7–787.1) | -- | 1073.7 (825.6–1376.3) | 3.2 (2.7–3.8) | 239.3 (175.9–331.9) |
| Laguna | 5709.2 (5305.0–6199.5) | 403.5 (322.1–490.2) | 2314.8 (1967.0–2720.3) | 1306.5 (1211.5–1432.4) | 872.5 (775.6–992.1) | 294.8 (261.0–331.3) | 148.3 (132.0–222.6) | 172.9 (130.0–221.6) | 88.0 (80.5–95.9) | 19.0 (14.2–23.3) | 69.0 (63.8–75.3) | 0.004 (0.003–0.005) | 39.5 (31.5–48.3) | 3.4 (2.7–4.2) | 0.3 (0.2–0.3) | 35.9 (28.2–44.8) | 2.2 (1.8–2.8) | 617.6 (462.1–793.2) | -- | 1122.5 (836.7–1435.2) | 3.0 (2.5–3.6) | 184.8 (144.7–246.3) |
| Lanao Del Norte | 5319.1 (4980.4–5752.6) | 408.9 (325.3–496.8) | 1905.1 (1607.2–2344.8) | 1235.3 (1131.7–1356.5) | 813.3 (711.7–922.3) | 276.7 (244.8–307.0) | 153.8 (134.3–180.2) | 185.6 (144.7–233.9) | 88.0 (81.8–95.6) | 17.6 (13.4–21.5) | 70.5 (64.6–76.3) | 0.003 (0.003–0.004) | 23.3 (18.5–28.6) | 3.5 (2.8–4.3) | 0.4 (0.3–0.5) | 19.5 (14.9–25.0) | 2.4 (1.9–2.9) | 598.5 (451.9–764.6) | -- | 1063.3 (803.9–1363.5) | 2.9 (2.3–3.5) | 284.8 (224.7–374.7) |
| Lanao Del Sur | 5113.0 (4779.5–5532.8) | 420.1 (336.3–512.4) | 1699.4 (1414.7–2032.4) | 1307.2 (1184.5–1445.1) | 871.3 (752.2–982.4) | 296.8 (264.1–335.1) | 149.2 (130.0–175.9) | 211.9 (170.1–265.3) | 90.9 (83.4–99.5) | 16.7 (12.7–20.5) | 74.3 (67.7–81.3) | 0.006 (0.004–0.008) | 25.8 (19.7–31.4) | 3.2 (2.6–4.1) | 0.4 (0.4–0.6) | 22.2 (16.4–27.8) | 2.0 (1.6–2.5) | 597.3 (448.1–755.3) | -- | 1037.8 (789.7–1371.2) | 3.0 (2.5–3.5) | 222.6 (173.9–293.5) |
| Leyte | 5201.0 (4854.3–5606.0) | 400.2 (320.4–487.1) | 1827.1 (1525.8–2176.5) | 1204.9 (1102.6–1314.1) | 813.1 (715.2–914.4) | 258.4 (228.6–291.3) | 140.9 (121.8–163.7) | 233.1 (190.2–286.1) | 86.1 (79.2–93.3) | 16.5 (12.5–20.1) | 69.7 (64.0–75.4) | 0.004 (0.003–0.005) | 33.9 (26.7–41.6) | 3.2 (2.5–4.1) | 0.3 (0.2–0.3) | 30.4 (23.1–38.1) | 2.0 (1.6–2.5) | 606.5 (469.1–769.1) | -- | 1073.1 (801.2–1365.6) | 2.3 (2.0–2.8) | 203.9 (158.6–270.3) |
| Maguindanao | 5505.0 (5113.6–5993.2) | 404.0 (326.1–511.6) | 2002.2 (1669.1–2433.7) | 1452.2 (1314.7–1603.9) | 976.1 (848.3–1108.3) | 334.3 (294.7–377.6) | 154.0 (134.2–179.9) | 216.7 (175.8–273.3) | 89.5 (82.4–96.7) | 16.5 (12.8–20.5) | 71.1 (67.2–79.4) | 0.006 (0.004–0.008) | 27.7 (21.6–33.7) | 3.3 (2.6–4.2) | 0.5 (0.4–0.7) | 23.8 (18.1–30.1) | 2.0 (1.6–2.5) | 605.1 (448.7–754.1) | 0.5 (0.4–0.6) | 1025.1 (775.7–1346.8) | 2.8 (2.4–3.3) | 225.9 (177.1–295.7) |
| Marinduque | 5594.4 (5216.1–6019.2) | 406.1 (319.4–496.1) | 1872.6 (1574.9–2214.6) | 1507.8 (1373.9–1655.0) | 1020.4 (898.8–1151.9) | 349.5 (309.4–387.0) | 149.7 (130.6–174.4) | 179.8 (140.2–227.3) | 86.6 (80.1–93.4) | 17.1 (13.1–21.2) | 69.6 (64.0–75.1) | 0.01 (0.008–0.02) | 41.0 (32.3–49.7) | 3.8 (3.1–4.7) | 1.0 (0.8–1.3) | 36.2 (27.9–44.7) | 2.0 (1.7–2.5) | 607.9 (458.4–765.5) | -- | 1072.9 (804.2–1395.3) | 2.5 (2.1–3.0) | 342.2 (265.6–443.8) |
| Maubate | 5642.8 (5270.1–6080.1) | 403.3 (317.1–490.7) | 2081.4 (1741.5–2479.7) | 1524.1 (1380.5–1676.6) | 1020.6 (892.6–1148.7) | 362.6 (325.6–414.6) | 147.8 (129.2–172.2) | 211.9 (169.1–263.4) | 84.2 (77.8–92.2) | 15.3 (11.7–19.3) | 68.9 (62.7–74.8) | 0.04 (0.03–0.1) | 56.3 (44.2–68.8) | 3.4 (2.7–4.3) | 0.4 (0.3–0.5) | 52.5 (40.4–65.2) | 2.1 (1.7–2.6) | 600.6 (447.8–763.5) | -- | 1059.3 (808.3–1389.9) | 2.1 (1.7–2.4) | 148.5 (113.5–200.7) |
| Masbate | 5393.9 (5049.9–5845.5) | 405.1 (315.7–491.5) | 1980.2 (1666.7–2350.3) | 1270.3 (1158.8–1400.9) | 864.2 (756.7–989.2) | 269.6 (237.0–302.6) | 144.7 (125.8–168.7) | 211.8 (168.1–265.2) | 85.9 (78.8–92.9) | 16.0 (12.2–19.4) | 69.9 (64.2–75.5) | 0.01 (0.009–0.02) | 20.4 (15.9–25.1) | 3.3 (2.6–4.1) | 0.2 (0.2–0.3) | 16.9 (12.9–21.7) | 2.0 (1.6–2.5) | 612.5 (462.0–777.3) | -- | 1082.9 (817.9–1420.7) | 2.5 (2.1–3.0) | 219.7 (174.2–286.4) |
| Misamis Occidental | 5341.7 (4975.1–5779.1) | 403.4 (317.7–493.5) | 1954.6 (1655.7–2315.3) | 1199.0 (1095.7–1317.1) | 809.4 (712.9–921.3) | 248.2 (216.6–277.2) | 148.7 (128.5–175.7) | 222.1 (179.2–274.9) | 89.2 (82.1–96.9) | 19.0 (14.4–23.6) | 70.3 (64.5–75.7) | 0.005 (0.004–0.007) | 31.1 (23.7–38.9) | 3.4 (2.7–4.2) | 0.5 (0.4–0.6) | 27.2 (20.1–34.8) | 2.0 (1.6–2.5) | 607.8 (464.4–771.8) | -- | 1089.5 (817.3–1404.9) | 1.8 (1.5–2.1) | 236.6 (184.7–314.6) |
| Misamis Oriental | 5389.0 (5040.9–5848.5) | 402.9 (319.2–487.6) | 1738.6 (1467.5–2060.8) | 1438.8 (1314.3–1591.2) | 973.2 (850.6–1116.7) | 323.9 (288.4–362.2) | 152.9 (131.9–178.6) | 257.2 (205.0–318.6) | 91.1 (84.0–98.3) | 19.3 (14.6–24.0) | 71.9 (66.2–77.7) | 0.01 (0.01–0.02) | 17.6 (14.0–21.7) | 3.2 (2.5–4.0) | 0.6 (0.5–0.8) | 13.8 (10.4–17.9) | 2.2 (1.8–2.7) | 616.6 (468.0–784.2) | -- | 1043.7 (792.8–1336.5) | 3.3 (2.7–3.9) | 284.8 (224.2–372.9) |
| National Capital Region | 5798.8 (5411.0–6283.8) | 400.3 (316.3–488.9) | 2353.9 (1981.4–2797.8) | 1286.3 (1174.4–1414.5) | 875.9 (767.7–999.9) | 261.0 (230.5–294.4) | 157.7 (137.4–182.4) | 174.6 (139.1–221.5) | 91.6 (84.1–99.1) | 22.8 (17.2–27.7) | 68.9 (63.7–74.0) | 0.005 (0.004–0.007) | 31.2 (24.6–38.7) | 3.3 (2.6–4.2) | 0.5 (0.4–0.6) | 27.4 (21.0–34.9) | 2.3 (1.9–2.9) | 618.6 (464.2–782.9) | -- | 1133.1 (857.7–1457.6) | 2.9 (2.4–3.4) | 268.1 (207.3–357.5) |
| Negros Occidental | 5248.2 (4877.5–5669.7) | 404.1 (321.2–494.3) | 1838.8 

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulu | 5523.0 (5140.6–5958.2) | 412.9 (324.1–505.8) | 2026.4 (1668.1–2448.4) | 1523.1 (1383.1–1686.8) | 1036.5 (887.0–1191.6) | 354.3 (310.6–398.1) | 146.1 (126.9–170.4) | 213.5 (167.9–267.6) | 88.3 (81.4–95.6) | 15.4 (11.4–19.0) | 73.0 (67.2–78.5) | 0.005 (0.004–0.007) | 24.0 (18.7–29.2) | 3.4 (2.7–4.2) | 0.5 (0.4–0.6) | 20.2 (15.0–25.4) | 2.0 (1.6–2.4) | 586.8 (440.9–742.5) | -- | 1000.6 (756.9–1316.1) | 2.2 (1.8–2.5) | 216.3 (169.2–285.1) |
| Surigao Del Norte | 5342.8 (4982.4–5770.4) | 401.1 (318.7–486.3) | 1861.1 (1571.1–2188.0) | 1330.1 (1213.4–1457.3) | 888.9 (775.1–1007.8) | 309.5 (277.3–349.5) | 141.0 (121.4–165.7) | 196.7 (156.3–246.1) | 87.1 (79.9–94.6) | 17.4 (13.3–21.3) | 69.8 (63.6–75.4) | 0.0008 (0.0006–0.001) | 54.6 (43.0–65.6) | 3.5 (2.9–4.4) | 0.6 (0.5–0.7) | 50.5 (39.3–61.4) | 2.0 (1.6–2.5) | 598.8 (455.4–759.6) | -- | 1082.6 (815.6–1391.9) | 2.1 (1.8–2.5) | 211.7 (164.2–279.2) |
| Surigao Del Sur | 5511.6 (5156.3–5963.0) | 400.3 (316.6–480.0) | 1874.6 (1557.7–2229.7) | 1490.5 (1366.5–1640.9) | 1007.8 (887.3–1135.1) | 341.8 (304.1–384.4) | 152.4 (131.8–176.6) | 205.6 (165.0–259.3) | 86.5 (79.9–93.8) | 16.2 (12.2–20.3) | 70.4 (64.8–76.5) | 0.005 (0.003–0.007) | 20.3 (15.9–24.8) | 3.4 (2.7–4.2) | 0.3 (0.3–0.4) | 16.6 (12.6–21.1) | 1.9 (1.6–2.4) | 607.5 (463.7–783.8) | -- | 1068.7 (804.5–1385.2) | 2.7 (2.2–3.2) | 267.1 (210.3–350.7) |
| Tarlac | 5665.5 (5299.1–6130.1) | 403.6 (322.6–496.8) | 2167.3 (1809.1–2617.2) | 1400.2 (1290.8–1521.8) | 899.6 (797.4–1024.2) | 356.0 (312.1–399.1) | 155.4 (134.6–179.7) | 168.6 (130.6–216.3) | 92.8 (85.0–100.0) | 21.1 (16.0–25.8) | 71.8 (66.0–77.0) | 0.02 (0.02–0.03) | 29.4 (22.4–34.7) | 3.3 (2.6–4.1) | 0.4 (0.3–0.5) | 24.8 (19.1–31.1) | 2.3 (1.8–2.8) | 616.0 (467.7–786.4) | -- | 1087.9 (829.1–1384.8) | 3.2 (2.7–3.8) | 219.4 (169.7–288.0) |
| Tawi-Tawi | 5713.7 (5341.9–6146.4) | 419.5 (329.5–510.3) | 2164.5 (1801.3–2580.8) | 1562.7 (1416.8–1730.3) | 1047.7 (910.3–1197.6) | 358.9 (317.3–407.2) | 171.0 (150.1–200.5) | 217.5 (173.5–265.7) | 92.0 (85.0–99.9) | 17.5 (13.2–21.7) | 74.6 (69.4–80.9) | 0.006 (0.005–0.008) | 31.0 (24.0–37.7) | 3.4 (2.7–4.2) | 0.6 (0.5–0.7) | 27.0 (20.2–33.5) | 2.0 (1.6–2.5) | 590.6 (445.0–749.8) | -- | 998.3 (758.4–1301.2) | 2.7 (2.3–3.3) | 251.9 (196.7–341.4) |
| Zambales | 5353.1 (4963.4–5790.9) | 402.5 (317.2–498.2) | 1995.3 (1666.0–2363.5) | 1190.7 (1089.7–1328.0) | 787.7 (693.9–909.4) | 262.6 (232.2–296.1) | 147.8 (128.6–172.8) | 157.5 (127.5–251.8) | 82.6 (82.0–97.7) | 19.3 (14.5–23.8) | 70.1 (64.3–76.5) | 0.004 (0.003–0.005) | 23.6 (18.7–29.1) | 3.3 (2.6–4.2) | 0.4 (0.3–0.5) | 19.9 (15.1–25.4) | 1.7 (1.4–2.1) | 607.7 (460.4–774.2) | -- | 1097.9 (817.9–1419.6) | 3.1 (2.5–3.6) | 226.8 (174.9–297.7) |
| Zamboanga Del Norte | 5742.4 (5357.1–6203.5) | 406.8 (322.1–495.7) | 2151.5 (1798.0–2553.3) | 1446.2 (1331.4–1589.4) | 984.3 (867.8–1128.0) | 316.2 (278.9–354.1) | 156.7 (135.1–185.1) | 170.8 (133.8–216.7) | 86.7 (80.0–94.1) | 16.1 (12.1–19.7) | 70.7 (64.9–76.3) | 0.01 (0.01–0.02) | 19.5 (15.0–24.2) | 3.2 (2.6–4.1) | 0.3 (0.2–0.3) | 16.0 (12.0–20.8) | 1.8 (1.5–2.2) | 601.5 (455.8–767.4) | -- | 1044.2 (787.7–1360.0) | 3.2 (2.6–3.9) | 365.0 (280.9–479.7) |
| Zamboanga Del Sur | 5576.3 (5181.7–6088.4) | 405.6 (317.1–489.4) | 2201.7 (1813.1–2629.5) | 1266.4 (1143.1–1389.7) | 848.5 (746.1–970.2) | 274.8 (239.1–307.0) | 151.3 (130.3–179.0) | 188.5 (147.6–238.8) | 86.7 (79.9–94.4) | 16.0 (12.2–19.9) | 70.9 (64.4–77.2) | 0.007 (0.005–0.01) | 30.7 (24.9–37.4) | 3.4 (2.7–4.3) | 1.1 (0.9–1.4) | 26.1 (20.5–32.6) | 2.0 (1.6–2.5) | 599.9 (456.2–774.3) | -- | 1078.9 (812.2–1392.3) | 2.7 (2.2–3.2) | 235.9 (187.5–307.0) |
| Zamboanga Sibugay | 5445.4 (5066.2–5854.3) | 410.9 (322.4–501.1) | 2002.6 (1699.1–2365.1) | 1359.2 (1249.1–1498.7) | 912.7 (803.7–1038.7) | 308.4 (272.8–345.1) | 148.1 (127.7–172.6) | 216.6 (173.3–268.9) | 89.1 (82.2–97.0) | 18.7 (14.3–22.9) | 70.5 (64.6–76.4) | 0.002 (0.001–0.002) | 30.8 (23.9–37.8) | 3.5 (2.8–4.4) | 0.5 (0.4–0.6) | 26.8 (20.3–33.7) | 2.1 (1.7–2.5) | 598.7 (458.3–748.8) | -- | 1049.2 (796.2–1370.3) | 2.6 (2.1–3.0) | 199.4 (157.7–259.0) |
| Seychelles | 5269.5 (4947.8–5635.2) | 417.5 (338.2–512.0) | 1486.1 (1304.7–1719.1) | 1292.6 (1238.5–1349.7) | 894.9 (842.0–951.1) | 262.6 (245.5–281.2) | 143.4 (132.6–155.2) | 279.6 (213.4–363.5) | 158.9 (133.8–185.9) | 42.7 (33.9–51.8) | 116.5 (94.4–140.6) | 0.1 (0.1–0.1) | 43.2 (35.9–50.8) | 5.1 (4.2–6.0) | 0.3 (0.2–0.3) | 37.8 (30.6–45.3) | 1.8 (1.5–2.2) | 596.1 (446.2–767.9) | -- | 1131.8 (847.5–1459.2) | 2.6 (2.1–3.1) | 387.1 (302.3–486.7) |
| Thailand | 5273.4 (4993.3–5622.1) | 413.1 (346.4–529.7) | 1637.5 (1421.4–1846.4) | 1278.5 (1224.9–1333.3) | 1065.1 (827.2–930.5) | 256.1 (235.1–269.7) | 156.3 (142.7–169.7) | 163.7 (126.1–215.5) | 103.2 (139.7–195.5) | 45.2 (36.4–54.9) | 118.1 (97.4–150.9) | 0.2 (0.2–0.3) | 39.5 (32.5–46.7) | 4.4 (3.6–5.2) | 0.3 (0.7–1.0) | 34.3 (27.8–41.2) | 2.5 (2.0–3.1) | 580.8 (431.9–734.9) | -- | 1028.5 (771.5–1313.2) | 2.5 (4.0–5.6) | 474.9 (370.5–597.8) |
| Sri Lanka | 4818.0 (4500.5–5161.8) | 419.9 (334.6–514.4) | 1042.4 (896.5–1207.0) | 1272.5 (1221.4–1324.0) | 803.0 (762.5–847.8) | 266.9 (249.0–284.5) | 213.0 (196.9–231.5) | 81.4 (64.4–105.3) | 125.5 (106.6–149.1) | 33.7 (26.0–40.8) | 92.0 (74.3–113.1) | 0.1 (0.1–0.1) | 19.1 (15.7–22.8) | 3.8 (3.1–4.6) | 0.5 (0.4–0.6) | 14.8 (11.6–18.2) | 2.0 (1.6–2.6) | 563.6 (424.5–720.1) | -- | 1062.7 (802.7–1383.3) | 18.7 (15.7–22.0) | 628.5 (492.6–781.8) |
| Timor-Leste | 5312.4 (4996.8–5674.9) | 351.2 (437.4–668.2) | 1756.7 (1493.0–2000.0) | 1436.1 (1370.3–1508.1) | 1014.1 (872.9–1001.6) | 334.8 (310.9–362.7) | 174.7 (159.9–190.1) | 176.2 (139.3–227.0) | 97.9 (81.0–118.1) | 16.4 (12.5–20.5) | 81.5 (63.9–98.5) | 0.01 (0.009–0.01) | 26.0 (21.0–31.3) | 3.4 (2.9–4.4) | 0.4 (0.3–0.5) | 22.0 (17.3–27.0) | 1.8 (1.4–2.2) | 570.0 (426.6–720.4) | -- | 998.3 (753.1–1303.0) | 2.5 (2.1–3.0) | 245.2 (192.8–309.7) |
| Viet Nam | 5017.9 (4742.6–5339.7) | 439.1 (346.6–533.9) | 1278.6 (1086.6–1492.7) | 1447.4 (1370.3–1508.1) | 1016.3 (963.4–1071.4) | 261.1 (243.0–279.8) | 182.2 (168.5–197.7) | 202.6 (159.4–263.1) | 102.7 (84.8–124.9) | 23.7 (18.5–29.8) | 79.1 (63.3–98.1) | 0.03 (0.03–0.04) | 41.0 (33.6–49.0) | 3.5 (2.8–4.3) | 0.7 (0.6–0.9) | 36.9 (29.7–44.5) | 1.8 (1.5–2.3) | 593.3 (450.3–754.9) | -- | 1002.4 (762.8–1291.1) | 4.5 (3.8–5.4) | 393.2 (317.2–496.8) |
| **Sub-Saharan Africa** | **7348.2 (6741.5–8024.6)** | **1942.0 (1544.2–2361.0)** | **1442.4 (1235.2–1687.6)** | **1207.4 (1112.2–1308.8)** | **892.1 (820.2–969.0)** | **231.0 (212.8–249.8)** | **91.8 (83.5–101.0)** | **260.0 (199.8–334.3)** | **27.1 (22.2–30.7)** | **14.0 (10.8–16.8)** | **13.1 (11.2–15.2)** | **0.05 (0.04–0.1)** | **98.6 (75.4–124.8)** | **4.3 (3.5–5.2)** | **2.3 (1.8–3.0)** | **92.0 (69.2–117.8)** | **2.4 (2.0–3.0)** | **446.4 (335.1–570.5)** | -- | **924.9 (700.1–1184.5)** | **4.8 (3.5–6.3)** | **1744.9 (1291.8–2358.9)** |
| Central Sub-Saharan Africa | 7738.7 (7046.1–8502.2) | 2709.4 (2140.3–3316.0) | 1411.2 (1215.5–1659.9) | 1156.8 (1095.2–1220.2) | 872.7 (811.4–935.9) | 197.2 (182.3–213.9) | 93.7 (85.7–102.7) | 233.4 (172.3–309.9) | 28.2 (23.7–33.1) | 14.4 (11.3–17.7) | 13.8 (11.0–16.8) | 0.03 (0.02–0.1) | 85.7 (63.8–110.4) | 4.5 (3.6–5.4) | 1.6 (1.3–2.1) | 79.6 (58.5–103.8) | 1.8 (1.5–2.2) | 442.0 (327.6–566.9) | -- | 970.3 (736.6–1238.9) | 2.6 (1.9–3.5) | 1389.6 (944.4–1975.6) |
| Angola | 7858.7 (7164.3–8647.7) | 2667.0 (2131.1–3300.2) | 1483.2 (1254.5–1748.9) | 1058.9 (1001.0–1112.7) | 791.5 (736.2–845.9) | 187.3 (173.8–202.5) | 85.8 (78.3–95.1) | 234.6 (175.3–318.4) | 31.4 (26.5–37.4) | 15.1 (11.6–18.2) | 16.3 (13.1–20.4) | 0.04 (0.02–0.1) | 85.2 (64.2–111.4) | 3.5 (2.8–4.3) | 1.6 (1.2–2.0) | 80.2 (59.1–106.5) | 1.6 (1.3–1.9) | 460.9 (344.9–590.6) | -- | 1048.7 (793.3–1335.1) | 2.7 (1.9–3.6) | 1528.7 (1052.8–2160.6) |
| Central African Republic | 7630.2 (6935.0–8351.2) | 2629.3 (2069.5–3210.0) | 1624.1 (1394.7–1933.8) | 1249.1 (1177.1–1325.2) | 959.1 (888.5–1034.3) | 217.1 (198.1–237.7) | 80.0 (72.6–87.7) | 205.9 (154.0–280.5) | 23.4 (19.5–27.5) | 10.7 (8.2–13.5) | 12.7 (9.9–15.8) | 0.02 (0.01–0.03) | 74.6 (55.7–95.3) | 4.8 (3.9–5.7) | 1.5 (1.2–2.0) | 68.3 (49.9–89.3) | 1.7 (1.3–2.0) | 439.4 (332.3–558.2) | -- | 878.2 (665.8–1104.6) | 2.0 (1.4–2.6) | 1151.1 (786.7–1653.5) |
| Congo | 8047.0 (7367.4–8794.3) | 2656.9 (2112.3–3231.0) | 1581.3 (1354.6–1855.8) | 1222.6 (1160.6–1293.5) | 941.9 (879.6–1005.6) | 199.8 (185.5–215.2) | 87.7 (79.7–97.7) | 230.8 (172.1–307.7) | 33.4 (28.1–39.8) | 17.3 (13.8–21.1) | 16.1 (12.8–19.6) | 0.05 (0.03–0.1) | 87.2 (65.1–112.1) | 3.6 (2.9–4.4) | 1.1 (0.8–1.4) | 82.5 (60.9–106.9) | 2.1 (1.7–2.6) | 469.9 (353.1–602.5) | -- | 1135.3 (867.1–1419.4) | 3.5 (2.5–4.7) | 1411.4 (968.8–1986.7) |
| Democratic Republic of the Congo | 7689.0 (6980.1–8480.0) | 2738.1 (2152.0–3369.0) | 1384.1 (1163.9–1615.8) | 1162.5 (1120.6–1253.8) | 893.6 (827.2–961.4) | 201.0 (185.2–219.0) | 98.4 (89.6–108.1) | 254.1 (172.3–308.9) | 26.5 (22.1–31.2) | 13.8 (10.7–17.2) | 12.6 (10.0–15.5) | 0.04 (0.02–0.05) | 84.2 (63.6–110.7) | 5.0 (4.0–6.1) | 1.7 (1.3–2.3) | 79.7 (57.7–103.5) | 1.6 (1.5–2.3) | 432.3 (322.2–556.4) | -- | 936.1 (715.8–1205.2) | 2.6 (1.8–3.5) | 1350.0 (932.9–1919.6) |
| Equatorial Guinea | 7574.0 (6918.3–8327.2) | 2595.5 (2080.6–3218.4) | 1271.7 (1071.5–1523.8) | 936.9 (884.1–989.9) | 725.1 (677.5–775.3) | 140.0 (128.8–153.9) | 76.0 (68.9–83.9) | 236.9 (170.9–311.4) | 41.4 (34.8–48.7) | 22.7 (17.8–27.4) | 18.7 (14.6–22.6) | 0.1 (0.04–0.1) | 88.4 (64.9–115.8) | 3.1 (2.5–4.0) | 0.8 (0.6–1.0) | 84.5 (61.0–111.7) | 1.9 (1.5–2.3) | 481.9 (362.2–613.8) | -- | 1049.8 (800.4–1321.8) | 2.9 (2.1–4.0) | 1588.1 (1087.8–2226.6) |
| Gabon | 7721.3 (7008.8–8533.7) | 2659.1 (2132.7–3288.4) | 1356.8 (1148.3–1578.9) | 1047.1 (986.2–1108.1) | 812.2 (749.8–870.3) | 161.1 (149.0–175.6) | 79.5 (71.8–88.3) | 252.0 (185.6–335.9) | 42.2 (35.3–48.7) | 23.2 (18.5–28.1) | 19.0 (15.3–23.6) | 0.1 (0.04–0.1) | 97.5 (70.0–119.3) | 3.3 (2.7–4.1) | 0.9 (0.7–1.2) | 88.6 (66.1–114.8) | 2.0 (1.6–2.5) | 472.2 (352.6–612.8) | -- | 1020.8 (772.0–1314.8) | 3.4 (2.5–4.6) | 1497.5 (1022.3–2147.1) |
| Eastern Sub-Saharan Africa | 6638.9 (6093.3–7258.2) | 2068.1 (1637.7–2528.2) | 1064.5 (918.1–1226.3) | 1099.2 (1030.8–1167.7) | 799.7 (734.3–863.3) | 208.4 (193.7–224.6) | 97.5 (88.9–107.0) | 284.9 (222.0–362.7) | 26.8 (22.9–30.6) | 13.8 (10.6–16.5) | 13.0 (10.9–15.2) | 0.1 (0.04–0.1) | 133.0 (103.4–167.8) | 5.1 (4.2–6.0) | 2.5 (1.9–3.4) | 125.3 (96.7–160.2) | 2.1 (1.7–2.5) | 400.4 (301.8–508.0) | -- | 854.5 (646.6–1100.0) | 6.3 (4.5–8.5) | 1233.0 (896.3–1704.6) |
| Burundi | 6724.6 (6134.1–7339.6) | 2076.6 (1641.2–2538.2) | 1223.8 (1040.3–1433.8) | 1161.9 (1101.8–1222.3) | 849.9 (788.8–909.7) | 222.4 (208.4–238.8) | 96.3 (88.7–105.5) | 283.7 (209.6–371.6) | 26.9 (18.7–26.7) | 10.8 (8.1–13.5) | 11.4 (8.9–14.3) | 0.04 (0.02–0.1) | 117.2 (88.1–150.6) | 5.9 (4.9–7.1) | 2.7 (2.0–3.7) | 108.6 (80.2–142.4) | 1.7 (1.4–2.1) | 388.0 (287.7–494.2) | -- | 892.0 (604.9–1035.2) | 5.5 (3.8–7.6) | 1175.1 (830.0–1617.0) |
| Comoros | 7043.5 (6445.9–7692.7) | 2138.4 (1695.0–2644.3) | 1279.2 (1100.8–1475.8) | 1252.0 (1194.6–1312.4) | 900.2 (844.3–959.4) | 246.7 (233.1–266.0) | 112.7 (105.3–122.2) | 299.8 (223.3–392.1) | 27.6 (23.0–32.5) | 14.2 (10.8–17.6) | 13.4 (10.2–16.8) | 0.1 (0.04–0.1) | 128.0 (96.4–165.4) | 4.5 (3.6–5.4) | 2.4 (1.7–3.2) | 121.1 (90.3–158.9) | 1.7 (1.4–2.1) | 382.5 (288.0–485.3) | -- | 878.4 (658.2–1106.7) | 7.3 (5.0–9.9) | 1234.6 (873.5–1724.1) |
| Burundi | 6826.8 (6232.0–7491.8) | 2067.2 (1647.1–2538.7) | 1212.5 (1035.7–1425.1) | 1152.3 (1094.9–1215.8) | 857.2 (798.6–914.4) | 199.7 (184.4–215.2) | 101.6 (94.7–109.5) | 297.1 (229.7–399.4) | 29.5 (25.1–34.9) | 14.8 (11.5–18.4) | 14.7 (11.5–18.2) | 0.1 (0.04–0.1) | 127.1 (94.3–165.2) | 4.0 (3.4–4.9) | 2.6 (1.9–3.5) | 120.5 (87.8–158.8) | 1.9 (1.6–2.4) | 394.3 (295.1–506.5) | -- | 891.4 (668.0–1133.4) | 6.2 (4.2–8.7) | 1213.4 (853.8–1686.6) |
| Djibouti | 6685.0 (6127.0–7305.9) | 2178.1 (1721.1–2657.6) | 1178.6 (1008.1–1381.7) | 1124.6 (1061.6–1185.1) | 819.2 (756.7–874.9) | 212.7 (199.2–227.9) | 98.5 (90.5–106.9) | 290.9 (219.8–384.4) | 24.2 (20.0–28.5) | 10.8 (8.4–13.5) | 13.3 (10.4–16.5) | 0.04 (0.03–0.1) | 117.5 (87.4–150.3) | 5.2 (4.3–6.3) | 2.3 (1.6–3.1) | 110.1 (80.0–143.3) | 1.7 (1.4–2.1) | 366.0 (275.5–464.2) | -- | 821.6 (625.5–1062.9) | 5.8 (3.9–8.1) | 1072.5 (754.5–1473.9) |
| Eritrea | 6136.9 (5617.7–6740.4) | 2082.8 (1633.8–2567.3) | 791.7 (662.0–959.2) | 788.0 (715.2–867.1) | 553.4 (483.9–621.9) | 157.2 (139.5–177.1) | 80.7 (70.5–92.9) | 295.8 (234.0–376.1) | 23.1 (19.9–25.8) | 11.4 (8.5–13.9) | 11.7 (10.6–12.9) | 0.03 (0.02–0.04) | 192.6 (152.1–236.8) | 6.7 (5.7–7.8) | 3.0 (2.4–3.9) | 182.9 (142.7–226.8) | 2.6 (2.1–3.1) | 392.7 (295.4–496.5) | -- | 835.7 (634.6–1070.9) | 3.6 (2.6–4.7) | 1167.5 (840.7–1585.1) |
| Ethiopia | 6185.3 (5662.3–6765.6) | 1691.3 (1262.6–2138.2) | 1056.7 (883.1–1267.7) | 956.1 (945.0–1176.2) | 756.1 (659.4–861.5) | 185.1 (185.1–233.9) | 80.0 (80.0–107.2) | 292.4 (215.2–361.6) | 29.7 (25.7–33.9) | 17.4 (13.5–21.6) | 11.9 (10.7–13.1) | 0.04 (0.03–0.5) | 92.4 (120.7–197.0) | 4.1 (3.4–5.0) | 1.9 (1.5–2.6) | 152.3 (115.1–191.6) | 1.8 (1.4–2.2) | 398.2 (318.9–540.4) | -- | 1137.1 (670.2–1118.0) | 19.4 (15.7–23.7) | 1137.1 (796.2–1604.5) |
| Addis Ababa | 6221.3 (5669.9–6817.8) | 2028.9 (1609.5–2464.9) | 932.1 (769.2–1120.6) | 865.7 (777.1–958.4) | 610.6 (528.6–695.5) | 183.5 (163.0–205.8) | 75.5 (65.0–86.4) | 291.5 (229.1–368.5) | 22.3 (19.6–25.5) | 9.9 (7.4–12.3) | 12.4 (11.2–13.7) | 0.01 (0.008–0.02) | 187.8 (146.4–232.2) | 7.9 (6.6–9.3) | 3.2 (2.6–4.1) | 176.7 (135.8–220.8) | 1.5 (1.3–1.9) | 399.0 (293.6–503.9) | -- | 825.0 (619.8–1056.1) | 2.2 (1.5–3.0) | 1127.1 (785.2–1529.3) |
| Afar | 6140.1 (5626.6–6749.3) | 2114.2 (1678.8–2641.9) | 741.6 (616.1–908.7) | 777.1 (704.9–847.9) | 555.3 (474.9–614.8) | 180.4 (137.5–175.9) | 89.6 (69.7–93.1) | 289.6 (236.2–379.0) | 23.0 (19.8–25.8) | 11.3 (8.7–13.9) | 11.7 (9.5–13.0) | 0.02 (0.01–0.02) | 184.0 (152.6–239.3) | 6.9 (5.7–8.1) | 3.2 (2.5–4.1) | 194.1 (143.3–229.4) | 2.9 (2.3–3.5) | 387.3 (290.5–487.7) | -- | 815.1 (613.3–1052.5) | 3.0 (2.1–4.0) | 1218.1 (865.5–1678.5) |
| Amhara | 6215.0 (5707.8–6809.2) | 2048.1 (1589.0–2515.5) | 897.7 (746.5–1087.3) | 873.4 (782.5–962.9) | 627.1 (543.9–710.8) | 177.7 (156.7–201.9) | 72.3 (62.7–83.2) | 292.5 (228.8–370.9) | 21.9 (19.1–24.8) | 10.2 (7.7–12.8) | 11.7 (10.7–13.0) | 0.01 (0.009–0.02) | 186.1 (146.5–233.1) | 7.1 (6.0–8.2) | 3.2 (2.5–4.1) | 175.8 (136.3–222.5) | 1.6 (1.3–2.0) | 393.0 (291.5–496.5) | -- | 834.9 (633.6–1059.1) | 2.6 (1.8–3.6) | 1124.7 (793.6–1547.7) |
| Benishangul-Gumuz | 6244.7 (5693.7–6903.8) | 2096.5 (1667.6–2567.6) | 790.2 (657.3–956.5) | 752.2 (680.0–817.9) | 526.0 (459.1–597.6) | 146.6 (128.2–165.4) | 82.7 (71.4–95.8) | 294.5 (233.6–374.6) | 25.6 (22.0–28.8) | 13.9 (10.6–17.1) | 11.7 (10.6–13.0) | 0.02 (0.02–0.04) | 195.5 (153.3–243.2) | 6.9 (5.1–8.9) | 2.7 (2.0–3.6) | 186.8 (145.1–233.8) | 2.3 (1.7–2.9) | 400.0 (297.7–502.8) | -- | 911.9 (685.4–1170.8) | 3.0 (2.0–4.2) | 1233.8 (894.5–1675.5) |
| Dire Dawa | 6187.6 (5639.4–6777.2) | 2085.3 (1654.7–2526.5) | 807.4 (669.1–981.1) | 840.9 (754.5–929.1) | 600.5 (518.8–682.3) | 158.0 (138.1–177.2) | 86.3 (75.2–99.5) | 291.3 (229.0–367.1) | 24.7 (21.2–27.8) | 12.8 (9.7–15.7) | 11.9 (10.8–13.1) | 0.02 (0.01–0.03) | 190.1 (149.5–236.4) | 6.7 (5.6–7.8) | 2.6 (2.0–3.5) | 180.8 (139.8–226.4) | 2.0 (1.6–2.6) | 400.9 (301.4–507.0) | -- | 878.5 (663.8–1116.4) | 2.8 (1.9–4.0) | 1123.5 (802.0–1542.7) |
| Gambella | 6267.8 (5711.2–6962.8) | 2077.0 (1644.4–2591.0) | 879.5 (731.0–1046.2) | 769.1 (694.8–851.1) | 531.9 (466.5–605.1) | 158.7 (140.0–179.2) | 81.6 (70.9–93.7) | 286.1 (227.4–365.7) | 25.4 (21.9–28.6) | 13.8 (10.6–17.2) | 11.5 (10.4–12.7) | 0.02 (0.01–0.04) | 192.9 (151.7–240.2) | 6.2 (5.1–7.2) | 2.7 (2.1–3.6) | 184.1 (144.4–231.4) | 1.9 (1.5–2.3) | 405.1 (302.3–519.5) | -- | 934.2 (706.7–1181.1) | 1.8 (1.3–2.3) | 1153.2 (836.5–1603.3) |
| Harari | 6127.6 (5570.9–6744.3) | 2114.5 (1664.5–2591.7) | 749.9 (624.6–912.3) | 754.4 (685.7–832.5) | 529.0 (462.5–593.7) | 147.7 (129.4–166.2) | 80.6 (70.4–93.4) | 292.0 (230.2–361.8) | 22.9 (19.6–25.9) | 11.3 (8.5–13.8) | 11.6 (10.5–12.7) | 0.02 (0.01–0.03) | 194.7 (153.9–238.6) | 6.6 (5.6–7.7) | 3.1 (2.4–4.0) | 185.0 (144.1–228.4) | 2.8 (2.3–3.4) | 394.0 (294.8–496.8) | -- | 850.0 (645.9–1090.2) | 3.1 (2.1–4.2) | 1181.6 (847.7–1628.1) |
| Oromia | 6281.7 (5761.0–6897.4) | 2087.3 (1654.5–2585.4) | 917.9 (762.6–1116.2) | 927.0 (840.9–1012.2) | 660.1 (574.1–760.8) | 181.2 (158.6–204.2) | 90.3 (78.1–104.1) | 302.4 (242.0–383.8) | 22.2 (19.2–24.9) | 10.4 (7.7–12.9) | 11.9 (10.7–13.1) | 0.02 (0.01–0.03) | 192.0 (151.4–237.0) | 7.0 (5.9–8.2) | 3.0 (2.3–3.9) | 182.0 (142.1–226.6) | 2.2 (1.8–2.7) | 399.1 (300.6–502.8) | -- | 822.3 (614.0–1042.9) | 2.8 (1.9–3.9) | 1068.6 (765.0–1477.7) |
| Sidama | 6246.0 (5711.9–6906.7) | 2103.0 (1654.5–2550.9) | 825.6 (694.6–990.9) | 805.3 (727.4–878.9) | 563.4 (491.7–631.7) | 164.0 (145.4–184.1) | 81.5 (71.0–93.1) | 305.2 (242.2–389.3) | 22.8 (19.8–25.4) | 10.2 (7.6–12.9) | 12.6 (11.3–13.9) | 0.01 (0.008–0.02) | 195.3 (153.6–240.1) | 7.3 (6.1–8.4) | 3.6 (2.8–4.5) | 184.5 (143.4–229.1) | 1.7 (1.4–2.1) | 397.3 (292.5–507.7) | -- | 820.6 (620.1–1063.4) | 2.6 (1.8–3.6) | 1235.8 (890.5–1677.2) |
| Somali | 6122.5 (5610.0–6721.5) | 2070.1 (1654.2–2529.6) | 837.6 (697.8–1019.8) | 847.0 (766.7–942.0) | 606.0 (527.2–695.6) | 160.3 (141.2–178.8) | 84.5 (73.5–96.6) | 302.3 (241.9–383.8) | 22.2 (19.2–24.8) | 10.3 (7.7–12.8) | 11.9 (10.7–13.1) | 0.02 (0.01–0.03) | 191.4 (151.0–236.5) | 6.9 (5.7–8.0) | 3.0 (2.3–3.9) | 181.5 (141.8–226.1) | 2.2 (1.8–2.7) | 400.3 (303.9–512.7) | -- | 823.1 (628.0–1046.0) | 2.6 (1.8–3.6) | 1068.0 (765.2–1476.6) |
| South West Southern Nations, Nationalities, and Peoples | 6014.3 (5509.4–6607.8) | 2068.7 (1622.3–2535.5) | 820.1 (685.1–999.7) | 748.9 (675.5–816.8) | 514.7 (450.1–587.5) | 153.3 (135.9–172.4) | 75.5 (65.1–87.3) | 296.8 (236.3–376.3) | 21.9 (18.9–24.5) | 10.3 (7.7–12.8) | 11.6 (10.4–12.7) | 0.02 (0.01–0.03) | 189.7 (149.6–234.8) | 6.8 (5.7–7.9) | 2.9 (2.2–3.8) | 180.1 (140.7–225.1) | 2.2 (1.8–2.8) | 387.9 (293.5–496.7) | -- | 841.4 (635.5–1070.6) | 2.9 (1.9–3.9) | 1098.2 (750.2–1449.4) |
| Tigray | 6170.2 (5637.2–6792.4) | 2103.0 (1657.1–2550.7) | 765.9 (629.7–943.0) | 778.8 (705.0–857.6) | 547.1 (480.1–615.8) | 154.4 (136.6–174.1) | 80.6 (70.4–93.3) | 297.7 (233.9–383.6) | 23.8 (20.4–26.8) | 12.1 (9.1–14.8) | 11.7 (10.6–12.9) | 0.02 (0.01–0.03) | 195.8 (153.6–241.2) | 6.8 (5.7–8.0) | 3.0 (2.3–3.7) | 186.1 (144.9–232.4) | 3.1 (2.6–3.9) | 389.5 (287.2–495.7) | -- | 826.2 (630.4–1059.0) | 3.1 (2.1–4.2) | 1222.2 (850.9–1682.0) |
| Kenya | 6561.9 (6072.5–7177.9) | 2087.2 (1657.1–2550.7) | 1138.8 (961.8–1334.4) | 1138.3 (1028.7–1248.9) | 813.4 (712.2–921.2) | 229.0 (203.3–256.9) | 102.7 (89.7–118.6) | 294.1 (233.6–370.2) | 28.7 (24.8–32.4) | 15.4 (11.8–19.1) | 13.2 (12.0–14.4) | 0.1 (0.04–0.1) | 124.4 (93.8–157.6) | 4.3 (3.5–5.2) | 2.3 (1.7–3.0) | 117.7 (87.5–150.6) | 2.6 (2.1–3.2) | 426.0 (322.5–538.1) | -- | 910.8 (691.8–1159.5) | 11.4 (8.6–14.8) | 919.9 (658.2–1278.9) |
| Baringo | 6665.6 (6145.6–7225.0) | 2120.2 (1710.1–2629.2) | 1200.9 (1008.7–1453.0) | 1198.6 (1081.3–1315.9) | 845.7 (737.9–969.8) | 258.1 (228.1–289.4) | 102.0 (88.5–117.1) | 292.2 (230.4–367.6) | 26.1 (23.0–29.3) | 12.9 (9.7–15.8) | 13.1 (11.9–14.3) | 0.1 (0.1–0.2) | 119.9 (88.4–152.5) | 4.9 (4.0–5.8) | 2.4 (1.7–3.3) | 112.7 (82.0–145.6) | 2.1 (1.7–2.6) | 423.0 (323.4–535.9) | -- | 878.1 (673.0–1116.2) | 11.5 (8.5–14.8) | 908.6 (646.5–1268.3) |
| Bomet | 6581.2 (6090.4–7150.9) | 2184.6 (1739.0–2718.0) | 1007.2 (849.8–1212.0) | 1070.6 (970.4–1174.4) | 745.6 (658.6–843.0) | 218.5 (193.3–245.2) | 113.0 (98.5–130.3) | 307.1 (241.2–388.9) | 29.3 (25.5–33.0) | 15.9 (12.3–19.8) | 13.3 (12.1–14.5) | 0.1 (0.1–0.2) | 131.4 (97.2–167.2) | 4.6 (3.6–5.6) | 2.6 (1.9–3.4) | 124.2 (94.0–159.3) | 2.4 (2.0–3.0) | 418.5 (314.9–530.2) | -- | 892.1 (662.7–1156.5) | 13.6 (10.1–18.0) | 1042.1 (732.5–1448.0) |
| Kericho | 6711.2 (6207.6–7348.1) | 2148.0 (1709.9–2628.8) | 1155.7 (977.9–1398.9) | 1193.6 (1071.6–1321.9) | 851.8 (738.2–967.9) | 242.3 (215.4–272.3) | 106.9 (92.8–124.3) | 297.5 (227.0–375.0) | 27.4 (23.6–30.9) | 14.4 (11.0–17.8) | 13.0 (11.8–14.3) | 0.1 (0.1–0.2) | 124.5 (92.5–159.6) | 4.4 (3.6–5.3) | 2.5 (1.8–3.3) | 117.6 (86.1–151.3) | 3.0 (2.4–3.7) | 419.2 (316.2–534.9) | -- | 885.6 (676.2–1147.4) | 11.7 (8.7–15.3) | 976.7 (683.1–1367.0) |
| Bungoma | 6486.4 (5996.4–7091.3) | 2080.0 (1642.4–2528.3) | 1131.4 (951.2–1375.4) | 1094.3 (986.1–1201.2) | 777.6 (677.1–878.3) | 227.2 (198.2–256.8) | 95.7 (83.0–110.6) | 294.6 (231.5–364.2) | 26.0 (22.5–28.8) | 13.0 (9.9–16.0) | 12.8 (11.6–14.1) | 0.1 (0.1–0.2) | 118.2 (90.3–152.6) | 4.5 (3.7–5.4) | 2.3 (1.7–3.0) | 111.4 (83.9–140.6) | 2.9 (2.4–3.6) | 415.3 (313.0–525.5) | -- | 890.8 (676.4–1152.8

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Meru | 6636.4 (6135.6–7289.4) | 2137.4 (1712.8–2616.6) | 1085.9 (904.8–1324.1) | 1145.0 (1042.4–1261.7) | 809.4 (707.5–918.9) | 237.8 (210.5–267.6) | 104.9 (91.3–121.5) | 297.3 (230.2–373.7) | 28.5 (24.5–32.3) | 15.2 (11.7–18.7) | 13.2 (12.0–14.4) | 0.1 (0.1–0.2) | 124.4 (92.1–157.7) | 4.3 (3.5–5.2) | 2.6 (1.9–3.4) | 117.5 (85.7–149.9) | 2.6 (2.1–3.1) | 424.6 (322.1–542.7) | -- | 920.3 (699.8–1172.9) | 11.5 (8.6–14.9) | 990.3 (705.2–1386.8) |
| Migori | 6336.4 (5837.4–6912.2) | 2028.2 (1601.0–2455.1) | 1133.9 (949.6–1383.3) | 1100.2 (986.7–1219.2) | 794.9 (680.7–905.1) | 222.7 (196.6–251.2) | 88.9 (77.5–102.3) | 280.1 (218.6–361.0) | 25.5 (22.1–28.8) | 12.6 (9.6–15.5) | 12.8 (11.7–14.1) | 0.1 (0.1–0.1) | 111.0 (83.3–143.5) | 4.3 (3.5–5.2) | 2.1 (1.6–2.8) | 104.6 (77.4–136.0) | 2.5 (2.0–3.0) | 417.2 (318.7–527.9) | -- | 897.4 (673.4–1156.8) | 10.8 (8.0–14.2) | 814.0 (588.6–1143.8) |
| Mombasa | 6517.1 (6009.9–7167.5) | 2076.9 (1630.0–2587.3) | 1065.5 (898.2–1294.7) | 1006.4 (897.1–1109.2) | 727.8 (627.4–825.0) | 193.6 (171.2–217.2) | 90.2 (78.1–103.7) | 310.7 (245.6–392.3) | 31.3 (26.9–35.6) | 17.5 (13.7–21.7) | 13.6 (12.4–14.9) | 0.1 (0.1–0.2) | 128.2 (94.9–164.8) | 3.9 (3.1–4.8) | 2.5 (1.9–3.4) | 121.8 (88.8–158.5) | 2.5 (2.0–3.1) | 435.9 (328.4–562.5) | -- | 901.5 (695.5–1147.0) | 10.2 (7.7–13.4) | 1074.0 (749.0–1492.2) |
| Murang'a | 6680.0 (6166.4–7308.5) | 2147.6 (1717.6–2613.1) | 1116.6 (932.7–1351.6) | 1146.9 (1034.9–1255.9) | 815.6 (710.0–920.6) | 223.3 (197.3–251.0) | 114.9 (99.7–133.5) | 299.2 (233.4–376.6) | 29.9 (25.9–34.0) | 16.5 (12.6–20.5) | 13.2 (12.0–14.6) | 0.1 (0.1–0.2) | 126.4 (94.5–162.6) | 4.2 (3.4–5.1) | 2.5 (1.8–3.2) | 119.7 (88.1–155.5) | 4.6 (3.7–5.9) | 424.9 (316.7–534.4) | -- | 909.9 (686.3–1151.9) | 13.8 (10.3–17.7) | 994.4 (703.6–1385.5) |
| Nairobi | 6347.8 (5853.4–6896.1) | 2054.6 (1623.2–2565.7) | 1132.9 (954.3–1352.8) | 1044.4 (941.9–1154.2) | 752.1 (657.5–852.1) | 193.0 (170.5–217.8) | 105.0 (91.9–122.3) | 308.2 (250.8–383.2) | 35.1 (29.8–40.3) | 20.6 (15.9–25.5) | 14.3 (13.0–15.5) | 0.2 (0.2–0.3) | 151.9 (116.3–190.3) | 3.7 (3.0–4.5) | 1.6 (1.2–2.2) | 146.6 (111.5–185.1) | 2.5 (2.0–3.0) | 456.6 (339.3–577.1) | -- | 946.2 (720.9–1216.8) | 13.1 (10.1–16.3) | 696.7 (466.0–996.5) |
| Nakuru | 6679.4 (6176.7–7319.7) | 2099.5 (1664.6–2564.5) | 1130.0 (954.7–1352.3) | 1168.9 (1050.5–1291.2) | 838.5 (734.2–946.3) | 248.7 (227.8–264.2) | 103.4 (90.3–119.4) | 298.5 (236.8–376.5) | 30.3 (26.2–34.5) | 16.8 (13.0–20.8) | 13.3 (12.2–14.6) | 0.1 (0.1–0.2) | 125.6 (97.5–159.3) | 4.0 (3.3–5.0) | 2.5 (1.8–3.3) | 119.1 (87.5–152.3) | 2.2 (1.8–2.8) | 425.4 (317.7–538.9) | -- | 930.1 (704.5–1184.3) | 11.5 (8.5–15.1) | 1000.3 (717.8–1378.3) |
| Nandi | 6699.5 (6157.8–7319.9) | 2138.4 (1715.1–2618.4) | 1150.9 (970.4–1390.8) | 1196.6 (1077.9–1321.3) | 846.1 (738.4–961.2) | 249.0 (219.4–280.2) | 109.2 (95.1–127.1) | 292.8 (229.5–373.5) | 28.2 (24.3–32.0) | 14.8 (11.3–18.3) | 13.2 (12.0–14.5) | 0.1 (0.1–0.2) | 127.1 (95.7–160.6) | 4.6 (3.7–5.5) | 2.3 (1.7–3.1) | 120.2 (89.1–153.5) | 2.3 (1.9–2.9) | 423.2 (319.3–541.3) | -- | 895.6 (676.6–1137.8) | 12.3 (9.1–16.2) | 966.8 (690.7–1366.8) |
| Narok | 6582.2 (6067.7–7178.1) | 2097.5 (1652.2–2539.0) | 1143.6 (963.9–1374.5) | 1184.2 (1069.3–1302.3) | 837.8 (729.5–951.0) | 248.5 (220.5–280.4) | 105.1 (91.2–120.9) | 281.7 (223.8–358.2) | 26.9 (23.1–30.2) | 13.6 (10.3–16.6) | 13.2 (12.0–14.5) | 0.1 (0.1–0.2) | 122.0 (92.1–155.7) | 4.7 (3.8–5.6) | 2.4 (1.8–3.2) | 114.9 (85.0–148.6) | 1.9 (1.6–2.4) | 420.5 (311.6–533.6) | -- | 905.6 (682.5–1144.7) | 11.6 (8.6–14.8) | 900.7 (649.6–1262.3) |
| Nyamira | 6931.2 (6398.6–7586.7) | 2062.5 (1624.6–2516.1) | 1503.2 (1278.1–1796.0) | 1339.7 (1195.9–1471.8) | 916.0 (785.4–1048.4) | 324.2 (285.2–364.1) | 108.9 (94.6–126.6) | 273.9 (217.1–348.2) | 28.5 (24.7–32.5) | 15.0 (11.3–18.9) | 13.3 (12.0–14.5) | 0.1 (0.1–0.2) | 119.8 (88.7–153.7) | 4.3 (3.5–5.2) | 2.0 (1.4–2.6) | 113.5 (82.7–146.5) | 2.3 (1.8–2.8) | 430.9 (321.6–547.2) | -- | 913.7 (691.5–1171.0) | 12.1 (9.1–15.4) | 799.4 (561.2–1146.3) |
| Nyandarua | 6823.3 (6289.6–7422.6) | 2107.7 (1673.3–2575.4) | 1320.9 (1118.9–1600.6) | 1330.6 (1196.8–1463.8) | 938.2 (804.3–1070.3) | 283.7 (250.2–321.3) | 117.8 (102.1–137.4) | 279.2 (213.2–360.8) | 28.6 (24.8–32.4) | 15.3 (11.7–19.0) | 13.2 (12.0–14.5) | 0.1 (0.1–0.2) | 118.8 (88.8–150.7) | 4.3 (3.5–5.2) | 2.1 (1.5–2.7) | 112.4 (83.3–144.3) | 1.8 (1.5–2.3) | 430.5 (320.6–546.2) | -- | 928.9 (709.2–1182.0) | 12.4 (9.3–16.0) | 807.1 (581.4–1130.1) |
| Nyeri | 6834.9 (6321.0–7426.8) | 2109.4 (1681.7–2584.4) | 1284.1 (1072.6–1547.1) | 1255.4 (1127.7–1383.8) | 906.6 (786.2–1030.0) | 263.5 (214.2–272.9) | 113.2 (97.4–130.9) | 272.4 (227.1–365.7) | 26.9 (25.9–34.2) | 16.5 (12.6–20.6) | 13.2 (12.0–14.5) | 0.1 (0.1–0.2) | 122.4 (91.9–155.2) | 4.0 (3.2–4.9) | 2.4 (1.7–3.2) | 116.0 (85.7–148.4) | 2.9 (2.3–3.6) | 430.5 (325.0–546.5) | -- | 950.2 (724.6–1206.9) | 12.6 (9.3–16.4) | 906.0 (643.7–1255.2) |
| Samburu | 6411.4 (5893.9–7008.2) | 2107.0 (1676.7–2591.4) | 1034.7 (866.1–1248.2) | 1081.7 (976.1–1181.0) | 755.1 (653.5–857.4) | 230.7 (202.6–259.9) | 102.2 (88.8–118.6) | 293.0 (234.7–371.6) | 23.6 (20.7–26.4) | 10.8 (8.2–13.4) | 12.8 (11.6–14.0) | 0.1 (0.1–0.1) | 120.1 (88.7–153.7) | 5.1 (4.2–6.1) | 2.7 (2.1–3.5) | 112.3 (80.9–145.0) | 1.6 (1.3–2.0) | 413.7 (312.2–518.5) | -- | 900.5 (679.7–1146.8) | 10.1 (7.5–13.3) | 905.1 (651.1–1267.7) |
| Siaya | 5819.4 (5312.7–6388.9) | 2097.5 (1635.4–2498.0) | 833.5 (698.7–1015.5) | 796.1 (715.4–883.8) | 577.5 (500.9–650.3) | 136.4 (119.2–155.4) | 86.3 (74.2–99.3) | 283.9 (222.2–358.5) | 26.0 (22.6–29.4) | 13.5 (10.3–16.7) | 12.4 (11.3–13.6) | 0.1 (0.1–0.2) | 112.4 (86.2–142.4) | 4.3 (3.5–5.3) | 2.2 (1.6–2.9) | 105.9 (79.6–134.8) | 3.1 (2.5–3.8) | 417.7 (315.9–528.4) | -- | 939.7 (708.1–1211.5) | 8.2 (6.1–10.7) | 753.2 (529.8–1052.1) |
| Taita Taveta | 6587.4 (6084.0–7168.3) | 2081.6 (1641.1–2579.7) | 1215.1 (1018.5–1458.2) | 1086.6 (978.0–1196.8) | 744.6 (639.8–854.6) | 245.6 (217.4–274.9) | 103.1 (89.1–119.2) | 291.7 (225.2–371.8) | 29.0 (25.1–32.6) | 15.7 (11.9–19.3) | 13.2 (12.0–14.5) | 0.1 (0.1–0.2) | 122.9 (95.0–156.9) | 4.3 (3.5–5.2) | 2.5 (1.8–3.3) | 116.1 (88.0–149.3) | 2.5 (2.0–3.1) | 429.4 (321.2–545.2) | -- | 933.9 (705.6–1187.3) | 11.0 (8.3–14.2) | 904.8 (641.2–1243.1) |
| Tana River | 6565.5 (6029.5–7153.1) | 2064.7 (1626.5–2532.9) | 1242.2 (1044.6–1505.4) | 1204.6 (1084.7–1325.1) | 851.9 (744.9–966.3) | 266.2 (234.3–299.4) | 93.9 (81.7–108.9) | 283.4 (219.0–361.9) | 24.3 (21.1–27.1) | 11.1 (8.2–13.6) | 13.1 (12.0–14.5) | 0.1 (0.1–0.1) | 115.6 (86.6–145.8) | 4.7 (3.9–5.7) | 2.5 (1.8–3.1) | 108.4 (78.8–139.0) | 2.4 (2.0–3.0) | 420.3 (312.2–537.9) | -- | 884.2 (674.5–1108.2) | 9.3 (6.9–12.0) | 818.6 (579.5–1150.5) |
| Taraka Nithi | 6678.5 (6148.2–7247.1) | 2116.2 (1688.8–2638.4) | 1217.1 (1031.7–1451.1) | 1213.2 (1092.9–1332.5) | 857.0 (747.4–977.8) | 258.6 (229.1–290.3) | 105.2 (91.0–122.5) | 284.2 (220.2–356.1) | 28.6 (24.4–32.3) | 15.4 (11.7–19.0) | 13.1 (11.9–14.5) | 0.1 (0.1–0.2) | 122.3 (90.9–156.0) | 4.6 (3.7–5.6) | 2.3 (1.7–3.0) | 115.3 (84.7–148.5) | 3.2 (2.6–3.9) | 430.7 (319.2–544.9) | -- | 916.4 (691.6–1166.3) | 11.7 (8.9–15.4) | 860.9 (602.4–1225.6) |
| Trans Nzoia | 6724.3 (6234.9–7349.6) | 2119.2 (1708.0–2597.7) | 1240.6 (1114.1–1362.1) | 1243.8 (1092.3–1396.6) | 905.0 (787.8–1023.0) | 239.5 (210.4–270.4) | 107.5 (93.5–124.1) | 298.8 (230.2–380.9) | 29.3 (25.7–33.5) | 15.9 (12.4–19.6) | 13.3 (12.1–14.6) | 0.1 (0.1–0.2) | 126.6 (93.7–160.7) | 4.3 (3.4–5.1) | 2.4 (1.8–3.1) | 120.0 (87.1–153.7) | 2.3 (1.8–2.8) | 423.1 (315.9–532.6) | -- | 895.2 (686.7–1130.6) | 11.9 (9.0–15.2) | 985.2 (685.4–1404.2) |
| Turkana | 6188.9 (5696.5–6815.2) | 2072.6 (1633.6–2528.2) | 1005.1 (847.2–1220.0) | 952.5 (855.6–1049.9) | 667.1 (573.6–745.9) | 195.9 (174.2–219.7) | 94.4 (81.6–108.6) | 293.3 (232.9–372.9) | 23.3 (20.4–26.3) | 10.4 (7.8–12.8) | 12.9 (11.7–14.0) | 0.1 (0.1–0.1) | 119.3 (89.5–151.5) | 5.1 (4.2–6.2) | 2.7 (2.1–3.6) | 111.5 (82.4–143.0) | 1.5 (1.2–1.8) | 412.5 (309.0–521.4) | -- | 874.7 (657.7–1124.0) | 10.0 (7.5–13.0) | 878.9 (617.6–1233.9) |
| Uasin Gishu | 6282.1 (5714.6–6952.7) | 1709.7 (1261.1–2255.5) | 1132.1 (952.8–1374.5) | 1141.0 (1032.6–1264.5) | 803.3 (699.4–922.8) | 237.2 (209.5–267.2) | 107.5 (93.8–124.2) | 302.0 (233.6–380.6) | 31.1 (27.1–35.4) | 17.6 (13.6–21.5) | 13.4 (12.2–14.7) | 0.1 (0.1–0.2) | 129.5 (97.4–166.4) | 4.2 (3.5–5.1) | 2.5 (1.9–3.4) | 122.8 (91.6–159.1) | 2.2 (1.8–2.7) | 429.8 (324.4–540.2) | -- | 905.7 (690.3–1148.9) | 12.6 (9.4–16.6) | 1014.4 (722.0–1390.2) |
| Vihiga | 6552.0 (6045.4–7160.9) | 2079.4 (1632.2–2564.8) | 1221.8 (978.7–1413.2) | 1123.5 (1010.4–1227.1) | 785.7 (683.7–897.9) | 237.4 (210.4–266.7) | 104.5 (89.9–120.1) | 281.4 (217.0–355.7) | 26.8 (23.2–30.3) | 13.8 (10.3–16.8) | 12.9 (11.8–14.2) | 0.1 (0.1–0.2) | 109.9 (86.6–149.7) | 4.5 (3.7–5.4) | 2.3 (1.7–3.0) | 103.9 (80.2–143.2) | 2.3 (1.8–2.9) | 420.3 (313.3–531.4) | -- | 938.4 (711.3–1207.1) | 10.9 (8.1–14.1) | 907.9 (637.8–1222.5) |
| Wajir | 6121.2 (5616.2–6735.0) | 2093.1 (1663.7–2556.9) | 879.9 (731.0–1059.5) | 954.5 (861.1–1049.2) | 666.3 (574.5–757.3) | 212.5 (189.2–240.2) | 80.6 (69.9–93.0) | 303.2 (233.9–387.8) | 23.9 (20.7–26.7) | 10.0 (7.5–12.6) | 13.8 (12.6–15.2) | 0.1 (0.04–0.1) | 121.1 (91.1–153.0) | 5.9 (4.8–7.0) | 3.2 (2.5–4.1) | 112.0 (82.9–143.9) | 1.8 (1.5–2.3) | 418.8 (315.4–532.8) | -- | 818.0 (615.5–1026.2) | 8.2 (6.0–10.7) | 935.6 (657.4–1292.0) |
| West Pokot | 6387.4 (5887.0–6959.8) | 2109.5 (1671.5–2576.0) | 1023.8 (860.5–1233.5) | 1040.3 (940.7–1153.6) | 727.1 (631.7–823.5) | 230.7 (203.7–259.3) | 96.6 (82.6–112.3) | 290.6 (227.0–367.2) | 25.0 (21.6–28.0) | 12.1 (9.1–14.9) | 12.7 (11.5–14.1) | 0.1 (0.1–0.1) | 121.7 (89.1–154.1) | 5.0 (4.1–6.0) | 2.5 (1.9–3.3) | 114.2 (81.9–144.9) | 1.8 (1.5–2.3) | 416.9 (312.3–530.9) | -- | 890.8 (669.0–1141.6) | 11.2 (8.4–14.5) | 933.0 (654.4–1290.4) |
| Madagascar | 7647.9 (7038.1–8398.8) | 2077.5 (1662.4–2585.8) | 1360.4 (1174.4–1571.6) | 1591.8 (1426.2–1758.0) | 1139.3 (1069.1–1210.2) | 330.5 (309.7–352.5) | 134.1 (124.4–143.8) | 289.7 (216.8–383.4) | 28.9 (24.1–34.3) | 13.9 (10.9–17.0) | 14.9 (11.8–18.1) | 0.1 (0.04–0.1) | 122.5 (91.2–157.3) | 4.8 (3.9–5.7) | 2.6 (1.9–3.5) | 115.0 (84.6–150.6) | 2.0 (1.6–2.4) | 385.8 (285.9–491.5) | -- | 801.0 (607.2–1023.2) | 8.3 (5.8–11.3) | 1641.4 (1186.1–2253.3) |
| Malawi | 6451.3 (5901.6–7000.6) | 2051.0 (1609.2–2500.0) | 1055.8 (905.2–1237.2) | 1115.9 (1058.4–1174.1) | 820.2 (763.8–878.1) | 204.5 (191.2–219.1) | 97.5 (90.1–105.7) | 292.1 (192.9–351.7) | 26.4 (24.1–28.3) | 14.3 (11.1–17.3) | 12.1 (9.1–15.3) | 0.05 (0.03–0.1) | 113.5 (85.1–145.3) | 4.7 (3.8–5.7) | 2.1 (1.6–2.8) | 106.7 (79.5–139.0) | 1.6 (1.3–2.0) | 397.5 (296.2–506.0) | -- | 866.5 (653.8–1101.0) | 6.3 (4.2–8.8) | 1047.6 (727.6–1454.3) |
| Mandera | 7830.3 (7186.1–8555.6) | 2122.9 (1681.7–2622.8) | 1403.1 (1208.2–1625.4) | 1426.7 (1358.4–1498.4) | 1049.4 (981.3–1113.2) | 275.5 (258.2–293.5) | 111.9 (103.5–120.6) | 236.2 (169.1–312.0) | 28.0 (23.4–32.5) | 14.5 (11.4–17.5) | 13.5 (10.7–16.8) | 0.04 (0.03–0.1) | 92.1 (67.1–119.6) | 4.4 (3.6–5.4) | 2.2 (1.7–3.0) | 85.4 (60.7–113.2) | 1.7 (1.4–2.2) | 387.9 (292.5–494.1) | -- | 865.0 (655.6–1108.8) | 4.0 (2.7–5.5) | 2028.5 (1499.9–2700.2) |
| Mozambique | 6313.2 (5764.4–6912.0) | 1838.8 (1462.2–2246.5) | 1063.1 (900.2–1244.9) | 1050.0 (1001.7–1105.0) | 739.8 (690.3–788.9) | 214.9 (201.7–229.9) | 101.2 (92.5–110.3) | 289.0 (221.1–379.0) | 28.6 (24.0–33.1) | 15.1 (11.6–18.6) | 13.4 (10.6–16.7) | 0.1 (0.03–0.1) | 118.2 (87.9–153.7) | 4.4 (3.6–5.4) | 2.5 (1.8–3.2) | 111.3 (81.5–145.7) | 1.7 (1.4–2.1) | 386.6 (291.9–492.8) | -- | 928.7 (702.9–1187.3) | 6.0 (4.2–8.7) | 1108.1 (795.1–1548.5) |
| Rwanda | 6219.7 (5697.1–6787.1) | 2077.1 (1655.3–2543.4) | 1016.1 (860.0–1199.0) | 1086.9 (1027.1–1145.7) | 794.7 (736.3–854.3) | 203.4 (191.3–218.5) | 94.4 (86.6–102.6) | 246.6 (180.4–330.9) | 18.7 (15.6–21.9) | 9.6 (7.2–11.8) | 9.1 (6.9–11.4) | 0.02 (0.01–0.04) | 104.1 (79.4–134.5) | 7.0 (5.7–8.5) | 2.2 (1.7–3.0) | 95.0 (70.5–125.5) | 1.7 (1.4–2.1) | 366.4 (276.3–464.3) | -- | 834.4 (630.5–1076.6) | 4.8 (3.3–6.6) | 895.5 (631.9–1280.8) |
| South Sudan | 6519.2 (5924.9–7178.2) | 2104.7 (1658.6–2589.8) | 1022.5 (869.1–1225.3) | 1124.5 (1064.3–1184.8) | 824.6 (770.8–884.9) | 207.6 (195.2–222.8) | 98.5 (90.7–107.5) | 295.8 (218.5–387.9) | 25.5 (21.2–30.3) | 12.9 (9.6–15.9) | 12.5 (9.6–15.5) | 0.04 (0.03–0.1) | 115.7 (85.7–154.4) | 5.1 (4.2–6.1) | 2.4 (1.8–3.2) | 108.2 (78.5–147.8) | 1.9 (1.5–2.3) | 392.8 (292.7–502.9) | -- | 814.7 (619.0–1071.5) | 6.5 (4.3–9.3) | 1120.1 (793.3–1551.9) |
| Uganda | 6385.5 (5847.8–6983.1) | 1929.1 (1493.3–2376.2) | 1004.4 (906.6–1240.1) | 992.8 (1052.9–1167.1) | 820.3 (768.9–877.8) | 199.5 (185.9–215.1) | 92.8 (85.2–101.1) | 311.2 (242.2–407.7) | 28.2 (23.1–32.0) | 14.3 (10.8–17.7) | 12.9 (9.9–16.1) | 0.1 (0.05–0.1) | 94.5 (64.7–119.6) | 3.9 (3.1–4.8) | 2.0 (1.8–3.3) | 84.5 (59.3–113.7) | 2.0 (1.6–2.4) | 398.4 (299.2–508.8) | -- | 872.2 (657.8–1105.5) | 8.0 (5.6–11.0) | 1096.9 (776.5–1521.4) |
| United Republic of Tanzania | 6879.7 (6231.9–7620.8) | 2099.9 (1639.7–2549.0) | 1126.9 (967.7–1335.7) | 1161.1 (1105.8–1226.5) | 883.4 (824.7–941.8) | 186.0 (173.6–200.6) | 98.6 (91.0–107.0) | 277.2 (209.2–368.3) | 31.3 (25.8–36.4) | 16.4 (12.8–20.0) | 14.8 (11.7–18.2) | 0.1 (0.03–0.1) | 120.8 (91.2–158.1) | 4.2 (3.4–5.1) | 2.3 (1.8–3.2) | 114.2 (85.6–151.3) | 1.8 (1.4–2.1) | 428.1 (322.3–541.2) | -- | 832.1 (630.7–1059.6) | 6.4 (4.4–9.0) | 1388.7 (966.9–1947.2) |
| Zambia | 6859.9 (6270.5–7537.6) | 2161.5 (1699.6–2649.3) | 1091.2 (929.0–1277.3) | 1225.2 (1175.9–1298.1) | 955.6 (855.0–974.4) | 226.4 (212.9–241.9) | 100.4 (92.7–109.2) | 295.5 (222.3–386.4) | 33.2 (27.9–39.1) | 16.9 (13.4–20.9) | 16.2 (12.8–20.6) | 0.1 (0.04–0.1) | 109.0 (85.6–150.1) | 4.0 (3.2–4.8) | 2.3 (1.7–3.1) | 104.1 (79.8–144.2) | 1.6 (1.3–2.0) | 374.1 (279.4–477.3) | -- | 904.5 (679.1–1150.1) | 6.2 (4.4–8.7) | 1245.0 (869.6–1758.8) |
| Southern Sub-Saharan Africa | 7761.1 (7200.2–8475.2) | 1498.0 (1195.4–1810.7) | 2670.8 (2278.9–3144.9) | 883.2 (810.2–964.0) | 651.4 (583.3–722.4) | 148.4 (134.0–163.4) | 87.4 (77.7–97.5) | 208.8 (154.5–268.8) | 35.1 (29.9–40.5) | 22.6 (17.5–27.4) | 12.5 (11.2–13.9) | 0.05 (0.03–0.1) | 84.4 (64.4–107.7) | 3.8 (3.0–4.7) | 0.6 (0.4–0.8) | 80.1 (61.0–103.0) | 2.3 (1.9–2.8) | 510.7 (385.1–655.8) | -- | 1095.5 (835.3–1389.7) | 5.4 (3.8–7.2) | 1698.6 (1245.4–2318.4) |
| Botswana | 7295.4 (6706.7–8039.8) | 1728.5 (1366.8–2090.1) | 2059.4 (1783.8–2441.4) | 771.3 (727.4–2.1) | 575.7 (535.4–620.9) | 118.9 (104.1–129.4) | 79.6 (73.3–87.5) | 207.5 (152.5–277.0) | 36.4 (30.6–42.8) | 20.7 (16.1–26.0) | 15.7 (12.4–19.4) | 0.05 (0.03–0.1) | 93.2 (70.8–121.6) | 3.3 (2.7–4.1) | 1.3 (0.9–1.8) | 88.6 (66.7–117.0) | 1.9 (1.6–2.3) | 475.6 (350.7–599.0) | -- | 1052.6 (803.8–1338.7) | 6.6 (4.5–9.0) | 1678.5 (1170.1–2392.4) |
| Eswatini | 7303.8 (6664.8–7973.2) | 1492.5 (1181.4–1839.3) | 2453.0 (2097.8–2879.4) | 888.2 (839.9–941.2) | 647.4 (602.6–698.0) | 166.8 (154.4–179.3) | 77.9 (71.4–85.6) | 207.9 (150.5–274.9) | 34.5 (28.7–40.0) | 20.8 (16.0–25.7) | 13.7 (10.8–17.2) | 0.04 (0.03–0.1) | 90.7 (68.3–117.8) | 3.4 (2.8–4.2) | 1.1 (0.7–1.5) | 86.1 (64.5–113.1) | 1.7 (1.4–2.1) | 475.9 (352.1–604.6) | -- | 982.7 (747.1–1254.7) | 5.6 (3.9–7.6) | 1472.4 (1015.1–2059.5) |
| Lesotho | 7370.8 (6761.3–8040.7) | 1514.0 (1196.1–1873.8) | 2520.2 (2141.0–2977.2) | 983.7 (926.5–1046.3) | 686.3 (629.3–745.7) | 206.7 (189.7–224.0) | 96.1 (87.0–105.2) | 204.1 (145.9–273.8) | 31.0 (25.1–36.5) | 17.3 (12.9–21.4) | 13.6 (10.7–17.3) | 0.03 (0.02–0.04) | 85.7 (63.6–109.9) | 3.9 (3.1–4.7) | 1.3 (0.9–1.7) | 80.6 (59.5–106.5) | 1.7 (1.4–2.1) | 441.2 (333.2–564.7) | -- | 1025.1 (774.2–1239.8) | 4.3 (3.1–5.8) | 1353.6 (952.9–1935.5) |
| Namibia | 7470.7 (6858.5–8175.6) | 1329.0 (1069.7–1617.6) | 2525.0 (2160.7–2928.7) | 932.1 (879.9–988.8) | 693.5 (642.4–747.4) | 156.6 (146.1–169.9) | 86.3 (79.1–94.9) | 224.8 (161.1–307.6) | 33.9 (28.4–39.5) | 19.2 (14.9–23.5) | 14.7 (11.3–17.9) | 0.1 (0.04–0.1) | 97.4 (73.6–125.4) | 3.4 (2.7–4.2) | 1.4 (0.9–1.8) | 92.6 (69.0–119.9) | 2.7 (2.2–3.3) | 454.0 (338.1–578.0) | -- | 987.2 (742.7–1265.9) | 6.1 (4.3–8.4) | 1741.3 (1241.6–2453.7) |
| South Africa | 7654.4 (7099.0–8368.2) | 1496.6 (1190.1–1820.0) | 2694.7 (2263.7–3210.4) | 831.5 (748.9–912.1) | 630.6 (571.2–708.1) | 132.6 (118.1–148.8) | 71.7 (59.9–84.9) | 210.9 (150.9–271.5) | 36.2 (30.6–41.7) | 24.0 (18.4–29.1) | 12.1 (11.2–13.2) | 0.05 (0.04–0.1) | 78.4 (59.0–100.9) | 3.4 (2.6–4.3) | 0.4 (0.3–0.6) | 74.6 (55.7–97.2) | 2.4 (1.9–2.9) | 525.3 (395.5–671.9) | -- | 1113.9 (851.5–1409.3) | 6.2 (4.4–8.2) | 1560.5 (1131.2–2121.1) |
| Eastern Cape | 7469.1 (6941.6–8190.7) | 1465.2 (1168.7–1784.5) | 2606.1 (2217.2–3138.3) | 867.2 (783.1–964.2) | 660.1 (573.1–742.7) | 140.3 (124.0–157.5) | 70.4 (58.7–82.5) | 205.0 (153.7–263.8) | 32.0 (27.2–36.8) | 20.0 (15.1–24.8) | 12.0 (10.9–13.1) | 0.1 (0.04–0.1) | 75.8 (55.9–98.3) | 3.3 (2.7–4.1) | 0.3 (0.2–0.4) | 72.2 (53.1–94.6) | 2.1 (1.7–2.5) | 526.6 (397.8–665.1) | -- | 1111.0 (845.7–1399.1) | 5.1 (3.7–6.8) | 1423.3 (1033.1–1958.8) |
| Free State | 8427.3 (7800.1–9237.9) | 1478.2 (1174.4–1798.0) | 3513.7 (2976.5–4235.9) | 865.7 (775.4–969.1) | 658.7 (577.9–755.2) | 139.7 (122.6–156.9) | 70.9 (60.1–82.7) | 194.1 (144.4–252.3) | 34.4 (29.3–39.1) | 22.0 (16.8–26.8) | 12.4 (11.3–13.5) | 0.1 (0.04–0.1) | 74.2 (56.3–97.4) | 3.4 (2.7–4.3) | 0.5 (0.3–0.7) | 70.3 (53.2–93.6) | 1.8 (1.5–2.3) | 538.2 (405.6–692.8) | -- | 1149.4 (874.8–1463.8) | 7.0 (5.1–9.2) | 1636.7 (1181.0–2228.6) |
| Gauteng | 7664.1 (7053.1–8419.1) | 1514.4 (1200.3–1860.6) | 2737.0 (2385.2–2818.2) | 871.5 (680.8–844.4) | 717.5 (498.7–650.1) | 117.5 (104.9–133.3) | 71.7 (60.4–83.7) | 219.0 (165.4–285.1) | 41.3 (34.9–48.0) | 29.0 (22.5–35.6) | 12.3 (11.3–13.4) | 0.1 (0.03–0.1) | 80.7 (60.0–103.7) | 3.4 (2.8–4.3) | 0.4 (0.2–0.5) | 76.9 (56.4–100.0) | 2.4 (1.9–2.9) | 522.3 (387.9–664.3) | -- | 1083.3 (830.2–1385.1) | 5.9 (4.1–8.0) | 1469.9 (1469.9–2708.0) |
| KwaZulu-Natal | 7479.4 (6955.4–8172.4) | 1470.1 (1164.3–1788.9) | 2623.8 (2213.9–3127.0) | 837.6 (784.5–891.9) | 643.8 (555.9–726.8) | 127.0 (112.0–143.0) | 70.1 (57.9–82.8) | 206.2 (153.2–267.0) | 34.3 (28.8–39.8) | 22.3 (17.1–27.6) | 12.0 (10.9–13.1) | 0.04 (0.03–0.1) | 76.5 (59.0–98.5) | 3.4 (2.8–4.3) | 0.3 (0.2–0.5) | 72.8 (55.0–95.3) | 3.3 (2.7–4.2) | 525.5 (397.7–672.7) | -- | 1121.9 (851.5–1430.4) | 6.8 (4.8–9.1) | 1437.6 (1028.9–1995.4) |
| Limpopo | 7099.5 (6565.9–7751.4) | 1504.5 (1216.5–1857.5) | 2046.5 (1705.0–2451.3) | 876.8 (783.4–973.8) | 668.8 (581.0–757.5) | 140.6 (124.2–158.2) | 71.2 (59.0–84.3) | 225.7 (167.9–291.3) | 29.2 (25.3–33.5) | 17.1 (12.9–20.9) | 12.1 (11.1–13.1) | 0.05 (0.03–0.1) | 79.1 (58.2–102.9) | 3.5 (2.8–4.4) | 0.3 (0.2–0.4) | 75.3 (54.6–99.2) | 2.2 (1.7–2.7) | 502.1 (377.1–634.5) | -- | 1104.7 (847.9–1396.5) | 6.2 (4.4–8.2) | 1506.1 (1099.0–2068.0) |
| Mpumalanga | 7242.2 (6701.0–7884.9) | 1491.5 (1189.8–1810.2) | 2366.0 (1982.8–2852.1) | 856.2 (768.5–941.8) | 651.3 (564.6–724.6) | 138.8 (121.9–154.8) | 69.6 (58.2–81.6) | 217.9 (162.8–283.6) | 32.0 (27.2–36.9) | 19.8 (15.1–24.4) | 12.1 (11.1–13.2) | 0.1 (0.1–0.1) | 77.9 (58.7–101.2) | 3.5 (2.8–4.4) | 0.3 (0.2–0.4) | 74.1 (55.6–97.6) | 2.1 (1.7–2.6) | 516.0 (382.5–662.5) | -- | 1091.8 (818.4–1410.9) | 6.4 (4.7–8.3) | 1375.5 (987.8–1889.2) |
| North-West | 7650.5 (7074.2–8400.4) | 1477.4 (1189.7–1800.3) | 2886.8 (2410.8–3451.2) | 999.0 (862.2–866.2) | 757.2 (754.8–800.2) | 177.0 (161.4–193.6) | 69.7 (60.1–81.6) | 204.9 (150.3–265.2) | 32.3 (27.5–37.4) | 20.1 (15.2–24.6) | 12.2 (11.1–13.2) | 0.04 (0.03–0.1) | 77.2 (58.4–101.5) | 3.6 (2.9–4.5) | 0.4 (0.3–0.6) | 73.2 (54.7–97.5) | 1.9 (1.5–2.3) | 531.2 (400.6–674.1) | -- | 1090.9 (828.0–1372.2) | 6.2 (4.5–8.1) | 1232.9 (893.8–1706.3) |
| Northern Cape | 8579.0 (7915.9–9416.1) | 1485.0 (1193.4–1811.6) | 3692.4 (3150.9–4367.3) | 906.4 (819.6–1000.1) | 682.0 (593.1–765.9) | 157.1 (139.1–178.7) | 71.2 (60.0–84.0) | 195.1 (144.1–255.3) | 33.8 (28.9–38.6) | 21.6 (16.5–26.2) | 12.2 (11.2–13.2) | 0.1 (0.04–0.1) | 75.1 (56.0–96.4) | 3.5 (2.8–4.4) | 0.8 (0.6–1.2) | 70.8 (51.9–92.1) | 2.1 (1.7–2.6) | 533.0 (402.2–678.3) | -- | 1171.8 (897.7–1491.2) | 6.0 (4.2–7.8) | 1547.9 (1099.3–2126.8) |
| Western Cape | 8357.1 (7722.2–9129.5) | 1549.1 (1235.1–1920.0) | 3610.6 (3041.1–4242.9) | 766.2 (693.3–849.2) | 566.3 (494.2–634.6) | 124.8 (111.1–139.6) | 78.0 (65.2–92.0) | 207.2 (153.6–269.0) | 35.5 (27.7–43.1) | 33.2 (25.6–40.3) | 12.3 (11.2–13.4) | 0.1 (0.04–0.1) | 82.2 (62.1–107.6) | 3.5 (2.8–4.3) | 0.8 (0.5–1.1) | 77.9 (58.3–103.4) | 2.2 (1.8–2.7) | 544.2 (409.5–694.5) | -- | 1157.5 (875.0–1449.9) | 6.4 (4.7–8.5) | 1404.5 (1003.2

**Age-standardised prevalence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7309.1 | 1666.9 | 1388.4 | 1227.7 | 916.4 | 237.6 | 80.9 | 256.4 | 25.1 | 12.4 | 12.6 | 0.1 | 95.6 | 3.7 | 2.8 | 89.1 | 2.8 | 496.6 | | 985.6 | 4.3 | 1981.3 |
| | (6691.7–8014.1) | (1338.5–2080.7) | (1163.2–1666.5) | (1107.7–1355.7) | (796.8–1038.6) | (210.6–268.2) | (68.3–94.3) | (197.8–326.4) | (22.1–28.0) | (9.6–15.2) | (11.5–13.7) | (0.04–0.1) | (73.1–122.5) | (3.0–4.6) | (2.2–3.5) | (67.0–116.0) | (2.2–3.4) | (374.8–637.9) | -- | (744.0–1251.6) | (3.1–5.5) | (1462.7–2581.6) |
| | 7228.0 | 1650.0 | 1415.1 | 1309.3 | 993.5 | 246.8 | 77.1 | 247.1 | 23.5 | 10.6 | 12.8 | 0.04 | 89.1 | 3.7 | 2.5 | 82.8 | 2.9 | 491.3 | | 986.0 | 4.0 | 1830.8 |
| | (6666.3–7843.2) | (1309.8–1998.8) | (1198.5–1728.4) | (1178.2–1450.8) | (864.1–1122.2) | (219.3–278.4) | (65.9–90.1) | (190.1–312.0) | (20.7–26.2) | (8.2–13.0) | (11.8–14.0) | (0.03–0.1) | (68.4–113.5) | (3.0–4.6) | (2.0–3.2) | (62.5–107.1) | (2.4–3.6) | (366.9–627.4) | -- | (745.4–1278.3) | (3.0–5.2) | (1367.3–2391.7) |
| | 7294.4 | 1613.6 | 1350.7 | 1386.3 | 1054.5 | 265.6 | 75.1 | 255.4 | 21.5 | 8.3 | 13.2 | 0.03 | 90.5 | 3.7 | 2.7 | 84.1 | 2.5 | 488.0 | | 900.4 | 3.4 | 2010.2 |
| Borno | (6698.8–7914.2) | (1278.5–1962.2) | (1137.5–1633.4) | (1248.1–1534.1) | (921.1–1208.8) | (235.2–302.6) | (64.5–88.5) | (201.9–325.3) | (19.2–23.9) | (6.2–10.2) | (12.1–14.4) | (0.02–0.04) | (69.5–115.2) | (3.0–4.6) | (2.2–3.5) | (63.6–108.4) | (2.0–3.1) | (366.4–626.8) | -- | (678.7–1141.8) | (2.5–4.4) | (1503.2–2622.6) |
| | 7183.0 | 1692.0 | 1377.9 | 1258.2 | 940.8 | 240.1 | 84.9 | 247.1 | 24.5 | 12.1 | 12.3 | 0.1 | 93.7 | 3.6 | 2.6 | 87.5 | 4.5 | 498.2 | | 999.5 | 4.3 | 1774.2 |
| Cross River | (6645.9–7833.5) | (1332.7–2066.4) | (1162.6–1682.3) | (1133.4–1393.3) | (823.6–1068.4) | (215.8–271.9) | (72.8–99.6) | (197.7–314.8) | (21.5–27.7) | (9.3–15.0) | (11.2–13.4) | (0.04–0.1) | (71.9–120.1) | (2.9–4.6) | (2.1–3.3) | (65.6–113.5) | (3.7–5.5) | (374.4–631.0) | -- | (764.1–1277.0) | (3.2–5.6) | (1320.1–2317.0) |
| | 7277.2 | 1659.5 | 1380.7 | 1224.6 | 916.9 | 237.0 | 77.9 | 255.5 | 25.9 | 13.0 | 12.9 | 0.1 | 95.1 | 3.6 | 2.8 | 88.7 | 4.6 | 505.4 | | 992.7 | 3.9 | 1948.6 |
| Delta | (6702.9–7949.5) | (1304.8–2050.2) | (1157.5–1662.5) | (1106.3–1354.3) | (806.9–1033.3) | (207.4–266.1) | (65.7–90.3) | (201.8–328.5) | (22.8–29.2) | (10.3–15.7) | (11.9–14.0) | (0.04–0.1) | (73.7–120.4) | (3.0–4.6) | (2.2–3.5) | (68.0–113.9) | (3.7–5.7) | (382.5–641.1) | -- | (754.1–1273.4) | (2.8–5.0) | (1436.1–2533.7) |
| | 7199.1 | 1669.0 | 1412.5 | 1233.6 | 904.4 | 258.4 | 78.5 | 246.1 | 23.6 | 11.1 | 12.6 | 0.04 | 91.2 | 3.8 | 2.7 | 84.7 | 4.2 | 492.7 | | 976.7 | 4.0 | 1844.9 |
| Ebonyi | (6616.1–7855.7) | (1331.9–2041.8) | (1187.0–1693.3) | (1109.6–1365.0) | (787.7–1028.3) | (231.8–291.5) | (66.8–92.7) | (193.6–311.4) | (20.9–26.7) | (8.5–13.4) | (11.5–13.7) | (0.03–0.1) | (69.2–115.4) | (3.1–4.7) | (2.1–3.3) | (63.3–109.3) | (3.4–5.1) | (366.6–626.2) | -- | (742.8–1266.2) | (2.9–5.2) | (1381.8–2404.8) |
| | 7294.8 | 1665.6 | 1402.1 | 1231.9 | 926.9 | 232.6 | 79.6 | 257.3 | 26.1 | 13.1 | 13.0 | 0.1 | 96.4 | 3.6 | 2.8 | 90.0 | 3.9 | 504.6 | | 998.4 | 4.0 | 1926.5 |
| Edo | (6758.3–7940.1) | (1339.8–2016.6) | (1180.3–1672.1) | (1103.7–1369.4) | (807.0–1062.2) | (205.1–264.1) | (67.2–94.0) | (201.5–322.3) | (22.9–29.3) | (10.0–16.2) | (11.8–14.1) | (0.04–0.1) | (72.6–121.7) | (3.0–4.6) | (2.2–3.6) | (67.0–115.4) | (3.2–4.8) | (373.7–645.8) | -- | (758.5–1277.6) | (2.9–5.1) | (1416.0–2496.0) |
| | 7228.1 | 1687.7 | 1398.5 | 1117.9 | 817.1 | 237.6 | 69.3 | 259.8 | 26.3 | 13.4 | 12.8 | 0.1 | 96.8 | 3.7 | 2.9 | 90.2 | 3.5 | 505.2 | | 993.6 | 4.3 | 1931.9 |
| Ekiti | (6675.5–7872.5) | (1339.8–2048.6) | (1181.4–1689.0) | (1011.6–1245.0) | (710.3–927.6) | (211.4–268.8) | (58.6–80.8) | (203.6–329.3) | (23.1–29.8) | (10.7–16.5) | (11.7–14.1) | (0.05–0.1) | (74.4–122.6) | (3.0–4.6) | (2.3–3.7) | (68.0–115.9) | (2.8–4.4) | (376.9–646.2) | -- | (762.6–1280.9) | (3.1–5.5) | (1459.9–2522.7) |
| | 7482.5 | 1648.6 | 1552.5 | 1335.1 | 1010.0 | 250.8 | 82.6 | 241.9 | 25.2 | 12.4 | 12.8 | 0.1 | 94.2 | 3.6 | 2.7 | 87.9 | 4.2 | 521.6 | | 1006.4 | 4.2 | 1926.1 |
| Enugu | (6872.0–8156.4) | (1318.2–2011.1) | (1302.4–1849.8) | (1206.2–1468.9) | (876.8–1134.9) | (225.2–281.0) | (69.9–95.9) | (187.2–308.3) | (22.2–28.3) | (9.8–15.2) | (11.6–13.9) | (0.04–0.1) | (74.1–119.3) | (2.9–4.5) | (2.1–3.4) | (67.9–113.1) | (3.5–5.2) | (389.5–663.5) | -- | (764.9–1258.4) | (3.1–5.6) | (1426.1–2515.3) |
| | 7268.7 | 1704.2 | 1434.3 | 1185.0 | 876.0 | 233.7 | 82.3 | 264.3 | 25.4 | 12.1 | 13.2 | 0.1 | 95.9 | 3.6 | 2.7 | 89.6 | 4.2 | 502.7 | | 965.9 | 4.0 | 1901.9 |
| FCT (Abuja) | (6676.7–7876.4) | (1372.0–2078.4) | (1217.5–1696.8) | (1069.4–1304.5) | (760.8–989.5) | (209.8–265.6) | (68.2–95.0) | (208.5–333.8) | (22.3–28.5) | (9.4–14.9) | (12.1–14.3) | (0.04–0.1) | (72.7–121.3) | (3.0–4.5) | (2.1–3.4) | (66.7–114.8) | (3.5–5.3) | (372.7–635.4) | -- | (730.4–1225.2) | (2.9–5.2) | (1413.1–2442.9) |
| | 7278.8 | 1626.2 | 1449.5 | 1397.9 | 1078.2 | 257.0 | 71.2 | 244.9 | 21.4 | 8.4 | 13.0 | 0.03 | 86.6 | 3.8 | 2.5 | 80.4 | 2.5 | 482.3 | | 953.2 | 3.3 | 1829.1 |
| Gombe | (6718.1–7855.0) | (1287.7–2021.1) | (1206.9–1745.3) | (1253.9–1559.0) | (943.0–1220.6) | (229.4–292.2) | (61.4–84.1) | (193.5–311.0) | (19.2–23.9) | (6.3–10.4) | (11.9–14.3) | (0.02–0.04) | (66.6–111.0) | (3.1–4.7) | (2.0–3.1) | (60.8–104.6) | (2.1–3.2) | (359.9–618.4) | -- | (718.0–1199.4) | (2.4–4.3) | (1333.1–2422.7) |
| | 7498.2 | 1694.1 | 1460.8 | 1291.4 | 966.1 | 245.5 | 87.8 | 250.1 | 25.1 | 12.4 | 12.6 | 0.1 | 97.3 | 3.6 | 2.7 | 91.1 | 3.3 | 510.1 | | 999.6 | 4.1 | 2032.0 |
| Imo | (6933.1–8140.3) | (1372.7–2087.2) | (1232.4–1761.6) | (1156.0–1416.1) | (840.1–1092.6) | (216.3–276.0) | (74.2–101.6) | (196.4–313.4) | (22.3–28.4) | (9.8–15.1) | (11.5–13.7) | (0.05–0.1) | (73.5–123.3) | (2.9–4.5) | (2.1–3.4) | (67.7–115.7) | (2.7–4.1) | (385.9–658.7) | -- | (742.4–1261.1) | (3.0–5.4) | (1509.2–2651.7) |
| | 7458.9 | 1601.0 | 1537.6 | 1590.7 | 1247.1 | 286.1 | 67.7 | 245.5 | 20.8 | 7.4 | 13.3 | 0.02 | 85.1 | 3.9 | 2.8 | 78.4 | 2.8 | 485.6 | | 928.8 | 3.0 | 1803.4 |
| Jigawa | (6933.4–8134.9) | (1285.5–1947.3) | (1282.3–1828.2) | (1421.0–1787.3) | (1077.9–1428.8) | (253.8–323.1) | (58.2–79.6) | (191.9–309.4) | (18.6–23.3) | (5.6–9.3) | (12.1–14.7) | (0.01–0.03) | (64.5–108.6) | (3.2–4.8) | (2.2–3.5) | (58.4–102.0) | (2.3–3.5) | (362.9–623.6) | -- | (704.4–1208.1) | (2.2–3.9) | (1328.2–2355.7) |
| | 7310.8 | 1642.1 | 1431.6 | 1370.4 | 1050.3 | 254.3 | 74.3 | 255.1 | 23.1 | 9.9 | 13.2 | 0.03 | 91.6 | 3.7 | 2.7 | 85.2 | 2.7 | 494.0 | | 951.0 | 3.5 | 1868.6 |
| Kaduna | (6742.3–7992.9) | (1320.1–2027.9) | (1202.5–1722.2) | (1233.9–1531.8) | (913.7–1197.7) | (224.0–287.0) | (62.9–86.2) | (201.8–317.0) | (20.5–25.7) | (7.8–12.1) | (12.0–14.4) | (0.02–0.1) | (69.1–116.7) | (3.1–4.6) | (2.1–3.5) | (63.1–109.9) | (2.2–3.4) | (367.0–633.5) | -- | (723.3–1224.5) | (2.6–4.5) | (1350.6–2423.1) |
| | 7361.6 | 1622.3 | 1470.5 | 1443.7 | 1125.0 | 259.2 | 68.2 | 250.8 | 21.3 | 8.0 | 13.3 | 0.02 | 88.2 | 3.8 | 2.7 | 81.8 | 3.2 | 489.9 | | 936.3 | 3.2 | 1865.3 |
| Kano | (6785.7–8037.0) | (1282.6–1998.9) | (1250.8–1778.6) | (1288.5–1624.2) | (969.7–1283.5) | (231.1–295.0) | (58.0–80.2) | (195.4–314.8) | (19.0–23.6) | (6.1–9.7) | (12.0–14.5) | (0.02–0.04) | (68.8–113.5) | (3.1–4.7) | (2.2–3.4) | (62.7–107.6) | (2.6–4.0) | (369.7–627.4) | -- | (708.3–1187.5) | (2.3–4.2) | (1370.7–2441.2) |
| | 8118.3 | 1607.2 | 1409.9 | 1426.8 | 1108.1 | 259.1 | 68.2 | 163.0 | 20.8 | 7.6 | 13.2 | 0.02 | 80.5 | 3.6 | 3.0 | 73.9 | 2.6 | 484.4 | | 931.9 | 2.7 | 2956.7 |
| Katsina | (7425.8–8875.2) | (1275.4–1949.0) | (1173.3–1708.4) | (1273.5–1598.3) | (958.8–1275.4) | (230.7–289.6) | (58.1–80.1) | (101.7–227.9) | (18.7–23.2) | (5.8–9.4) | (12.1–14.5) | (0.01–0.03) | (57.4–106.3) | (2.9–4.6) | (2.3–3.8) | (51.1–99.2) | (2.1–3.2) | (365.2–624.6) | -- | (696.4–1172.2) | (1.9–3.6) | (2251.7–3672.8) |
| | 7263.4 | 1607.9 | 1427.7 | 1414.7 | 1084.3 | 268.3 | 70.9 | 244.2 | 20.9 | 7.8 | 13.1 | 0.02 | 85.7 | 3.8 | 2.6 | 79.3 | 3.2 | 479.6 | | 944.2 | 3.2 | 1844.9 |
| Kebbi | (6680.4–7929.3) | (1296.6–1948.1) | (1208.1–1710.1) | (1257.2–1590.4) | (934.0–1241.9) | (237.8–300.9) | (61.6–83.1) | (193.5–310.5) | (18.7–23.4) | (5.9–9.7) | (11.9–14.4) | (0.01–0.03) | (65.9–109.4) | (3.1–4.8) | (2.1–3.3) | (59.4–103.1) | (2.5–3.9) | (360.1–621.0) | -- | (719.0–1197.5) | (2.4–4.2) | (1332.7–2417.3) |
| | 7375.6 | 1685.3 | 1432.2 | 1312.2 | 990.6 | 245.5 | 84.3 | 255.8 | 25.2 | 12.3 | 12.9 | 0.1 | 94.9 | 3.7 | 2.7 | 88.6 | 2.9 | 501.2 | | 984.2 | 4.3 | 1918.6 |
| Kogi | (6782.8–8056.1) | (1341.7–2055.5) | (1213.1–1718.6) | (1175.2–1448.2) | (853.9–1118.8) | (218.5–279.5) | (70.9–98.7) | (202.0–323.0) | (22.5–28.5) | (9.6–14.9) | (11.7–14.0) | (0.04–0.1) | (73.1–120.3) | (3.0–4.6) | (2.2–3.5) | (67.6–113.0) | (2.4–3.6) | (374.6–642.1) | -- | (749.4–1255.4) | (3.1–5.7) | (1425.0–2486.0) |
| | 7400.8 | 1681.2 | 1436.6 | 1294.3 | 974.5 | 244.2 | 83.6 | 259.5 | 25.6 | 12.5 | 13.0 | 0.1 | 96.4 | 3.7 | 2.8 | 89.9 | 3.4 | 497.1 | | 982.0 | 4.2 | 1972.9 |
| Kwara | (6823.1–8065.8) | (1337.3–2074.5) | (1200.3–1726.9) | (1154.0–1426.5) | (835.0–1117.8) | (215.7–276.9) | (70.5–97.4) | (202.9–325.9) | (22.4–28.7) | (9.6–15.6) | (11.9–14.3) | (0.04–0.1) | (74.2–122.3) | (3.0–4.6) | (2.2–3.6) | (68.1–114.9) | (2.8–4.2) | (370.9–629.5) | -- | (746.3–1243.1) | (3.1–5.4) | (1465.8–2553.3) |
| | 7355.5 | 1711.9 | 1346.1 | 1169.1 | 876.9 | 217.4 | 81.4 | 269.3 | 27.1 | 13.9 | 13.1 | 0.1 | 100.6 | 3.6 | 2.9 | 94.1 | 3.1 | 509.2 | | 993.8 | 3.8 | 2063.4 |
| Lagos | (6750.9–8046.5) | (1366.3–2134.8) | (1136.5–1636.6) | (1053.6–1289.4) | (759.0–998.1) | (193.1–246.3) | (68.9–94.9) | (208.5–337.3) | (24.0–30.4) | (11.0–16.9) | (12.1–14.4) | (0.1–0.1) | (78.2–128.4) | (2.9–4.5) | (2.3–3.6) | (71.8–121.4) | (2.5–3.8) | (379.5–653.0) | -- | (742.4–1268.3) | (2.9–5.0) | (1501.1–2693.0) |
| | 7321.8 | 1640.1 | 1463.3 | 1361.7 | 1041.8 | 251.4 | 76.9 | 254.4 | 24.2 | 11.0 | 13.2 | 0.04 | 91.3 | 3.7 | 2.7 | 84.9 | 3.0 | 497.9 | | 962.4 | 3.9 | 1852.2 |
| Nasarawa | (6803.0–7992.1) | (1304.5–1998.2) | (1236.3–1760.8) | (1221.3–1509.3) | (902.1–1177.4) | (220.8–285.9) | (66.0–91.0) | (199.5–318.8) | (21.5–27.1) | (8.7–13.6) | (12.1–14.4) | (0.03–0.1) | (71.2–116.9) | (3.0–4.7) | (2.1–3.4) | (65.3–110.2) | (2.4–3.7) | (370.1–630.1) | -- | (723.2–1222.3) | (2.8–5.0) | (1379.7–2379.4) |
| | 7281.4 | 1654.4 | 1369.5 | 1352.8 | 1024.8 | 259.8 | 77.0 | 258.1 | 22.5 | 9.0 | 13.4 | 0.03 | 90.3 | 3.8 | 2.7 | 83.9 | 2.9 | 486.8 | | 955.7 | 3.6 | 1933.4 |
| Niger | (6703.3–7923.5) | (1289.9–2002.5) | (1151.3–1629.6) | (1222.4–1490.3) | (892.3–1158.1) | (229.1–293.4) | (65.9–90.1) | (203.3–324.7) | (20.2–25.0) | (7.0–11.1) | (12.3–14.7) | (0.02–0.04) | (68.6–114.3) | (3.1–4.7) | (2.1–3.4) | (62.8–107.7) | (2.4–3.6) | (368.0–627.1) | -- | (716.1–1176.0) | (2.7–4.7) | (1419.2–2536.4) |
| | 7176.1 | 1654.0 | 1311.7 | 1189.4 | 889.8 | 228.7 | 77.7 | 252.8 | 24.6 | 11.8 | 12.7 | 0.05 | 94.1 | 3.6 | 2.7 | 87.8 | 6.0 | 489.0 | | 1000.4 | 3.6 | 1953.7 |
| Ogun | (6564.8–7828.0) | (1312.1–2031.1) | (1096.3–1604.4) | (1075.5–1331.1) | (776.3–1025.9) | (205.2–257.5) | (64.8–90.3) | (199.0–316.2) | (21.9–27.4) | (9.3–14.4) | (11.6–13.9) | (0.04–0.1) | (72.7–118.9) | (3.0–4.6) | (2.1–3.4) | (66.5–112.5) | (4.7–7.6) | (362.1–628.8) | -- | (776.2–1283.7) | (2.6–4.7) | (1440.0–2529.6) |
| | 7278.5 | 1672.6 | 1379.7 | 1240.9 | 929.0 | 239.0 | 80.2 | 253.4 | 26.0 | 13.1 | 12.8 | 0.1 | 95.6 | 3.7 | 2.8 | 89.2 | 4.9 | 501.4 | | 993.7 | 4.2 | 1922.7 |
| Ondo | (6680.7–7913.7) | (1344.5–2072.0) | (1157.8–1653.9) | (1113.5–1373.7) | (803.1–1062.2) | (213.6–271.4) | (68.1–93.0) | (197.7–317.3) | (22.7–29.4) | (10.2–16.0) | (11.7–14.0) | (0.04–0.1) | (72.9–121.4) | (3.0–4.6) | (2.2–3.6) | (66.9–114.6) | (4.0–6.1) | (379.6–649.2) | -- | (756.2–1259.9) | (3.1–5.6) | (1367.7–2511.4) |
| | 6975.7 | 1708.7 | 1119.5 | 1083.9 | 793.6 | 214.2 | 82.2 | 273.3 | 26.3 | 13.5 | 12.7 | 0.1 | 98.7 | 3.7 | 2.9 | 92.1 | 6.4 | 494.3 | | 984.1 | 4.4 | 1928.7 |
| Osun | (6410.6–7618.3) | (1355.2–2096.2) | (942.4–1349.3) | (974.4–1192.6) | (689.4–891.0) | (191.0–241.9) | (69.7–95.4) | (210.1–344.2) | (23.2–29.7) | (10.4–16.5) | (11.6–13.9) | (0.05–0.1) | (76.6–124.1) | (3.0–4.6) | (2.2–3.6) | (70.2–116.8) | (5.2–7.8) | (371.7–626.0) | -- | (746.8–1247.5) | (3.2–5.8) | (1409.4–2541.2) |
| | 7552.5 | 1678.0 | 1395.4 | 1163.2 | 872.6 | 217.8 | 79.4 | 274.9 | 26.5 | 13.5 | 13.0 | 0.1 | 96.2 | 3.7 | 3.1 | 89.4 | 3.6 | 469.0 | | 955.4 | 4.1 | 2370.8 |
| Oyo | (6922.0–8284.8) | (1332.6–2048.9) | (1177.8–1691.2) | (1046.5–1286.4) | (762.7–990.9) | (194.1–249.2) | (67.2–91.7) | (216.9–348.7) | (23.4–29.9) | (10.7–16.5) | (11.9–14.2) | (0.05–0.1) | (72.7–123.2) | (3.0–4.6) | (2.4–4.0) | (66.1–115.6) | (2.9–4.3) | (350.7–594.4) | -- | (727.1–1225.6) | (3.1–5.4) | (1703.2–3107.6) |
| | 7366.3 | 1637.4 | 1472.4 | 1389.5 | 1062.2 | 258.2 | 77.9 | 254.7 | 24.4 | 11.3 | 13.1 | 0.04 | 93.2 | 3.8 | 2.9 | 86.6 | 3.3 | 497.3 | | 962.7 | 4.1 | 1864.4 |
| Plateau | (6785.8–8005.3) | (1322.5–1989.6) | (1243.4–1762.9) | (1251.9–1535.5) | (920.1–1193.7) | (229.9–291.1) | (66.3–91.4) | (201.7–319.5) | (21.3–27.2) | (8.8–13.6) | (11.9–14.3) | (0.03–0.1) | (71.5–117.8) | (3.1–4.7) | (2.3–3.6) | (65.5–111.1) | (2.7–4.1) | (376.0–642.6) | -- | (731.8–1224.3) | (2.9–5.3) | (1387.5–2414.0) |
| | 7057.4 | 1643.5 | 1331.0 | 1142.6 | 853.0 | 219.0 | 76.9 | 264.3 | 25.7 | 13.0 | 12.7 | 0.1 | 93.1 | 3.7 | 2.8 | 86.7 | 6.2 | 486.7 | | 983.1 | 3.9 | 1850.1 |
| Rivers | (6456.8–7648.9) | (1300.6–1990.5) | (1114.1–1601.7) | (1030.8–1266.4) | (743.9–978.1) | (195.8–247.1) | (65.0–90.4) | (204.6–330.1) | (22.4–28.7) | (10.3–15.9) | (11.6–13.8) | (0.04–0.1) | (72.4–117.1) | (3.0–4.6) | (2.2–3.6) | (66.5–110.5) | (4.9–7.7) | (366.0–614.9) | -- | (749.8–1239.9) | (2.8–5.1) | (1335.5–2401.6) |
| | 7375.0 | 1595.2 | 1528.6 | 1502.8 | 1173.7 | 270.9 | 67.4 | 255.9 | 21.0 | 7.6 | 13.4 | 0.02 | 84.0 | 3.8 | 2.6 | 77.5 | 3.2 | 503.4 | | 950.8 | 3.1 | 1788.8 |
| Sokoto | (6849.8–8013.5) | (1268.4–1952.4) | (1271.3–1835.3) | (1342.0–1661.6) | (1017.3–1333.5) | (240.1–304.9) | (57.9–79.9) | (183.5–300.0) | (18.8–23.4) | (5.8–9.6) | (12.2–14.7) | (0.01–0.02) | (63.8–108.8) | (3.1–4.8) | (2.1–3.3) | (58.3–102.1) | (2.6–4.0) | (370.5–650.8) | -- | (716.0–1219.5) | (2.3–4.0) | (1298.8–2372.5) |
| | 7174.4 | 1630.7 | 1413.8 | 1323.4 | 1006.7 | 252.1 | 72.4 | 243.5 | 22.3 | 9.5 | 12.8 | 0.03 | 87.2 | 3.8 | 2.5 | 80.9 | 2.8 | 488.6 | | 968.6 | 3.7 | 1775.4 |
| Taraba | (6592.4–7779.6) | (1301.2–1997.2) | (1187.0–1701.9) | (1192.5–1475.8) | (880.7–1146.6) | (224.6–283.3) | (61.8–85.8) | (190.7–306.8) | (20.0–25.2) | (7.3–12.0) | (11.7–14.0) | (0.02–0.04) | (66.5–112.2) | (3.1–4.7) | (2.0–3.2) | (60.0–105.2) | (2.3–3.5) | (364.3–623.0) | -- | (738.3–1250.2) | (2.7–4.7) | (1313.0–2325.3) |
| | 7327.8 | 1642.6 | 1416.7 | 1464.2 | 1136.7 | 263.9 | 72.9 | 248.0 | 21.0 | 7.7 | 13.3 | 0.02 | 86.8 | 3.9 | 2.7 | 80.2 | 2.6 | 486.6 | | 921.9 | 3.5 | 1864.2 |
| Yobe | (6776.4–7994.0) | (1326.5–2015.2) | (1179.6–1695.6) | (1314.0–1639.6) | (992.5–1305.3) | (234.1–296.6) | (63.1–85.8) | (194.7–311.9) | (18.8–23.2) | (6.0–9.5) | (12.1–14.5) | (0.01–0.03) | (65.7–111.4) | (3.2–4.8) | (2.1–3.3) | (59.9–104.5) | (2.1–3.2) | (358.8–622.8) | -- | (698.6–1191.6) | (2.5–4.4) | (1380.9–2467.4) |
| | 7007.8 | 1612.3 | 1321.9 | 1328.4 | 1024.4 | 245.7 | 66.0 | 243.6 | 20.4 | 7.3 | 13.2 | 0.02 | 84.0 | 3.9 | 2.6 | 77.5 | 3.5 | 481.8 | | 937.2 | 3.2 | 1731.0 |
| Zamfara | (6472.5–7596.8) | (1281.0–1965.2) | (1107.6–1614.0) | (1183.3–1478.0) | (884.3–1161.6) | (217.4–276.7) | (56.0–78.3) | (186.5–306.9) | (18.4–22.7) | (5.6–9.1) | (12.0–14.4) | (0.01–0.02) | (65.0–109.3) | (3.1–4.8) | (2.0–3.3) | (59.2–102.0) | (2.8–4.2) | (360.3–616.1) | -- | (708.4–1181.0) | (2.4–4.1) | (1257.1–2277.2) |
| | 9147.9 | 1803.3 | 1466.7 | 1610.9 | 1134.7 | 375.2 | 114.5 | 285.7 | 27.3 | 13.9 | 13.3 | 0.05 | 73.0 | 3.4 | 2.7 | 66.9 | 2.4 | 461.3 | | 886.6 | 3.8 | 3768.7 |
| Sao Tome and Principe | (8204.1–10180.2) | (1443.4–2186.7) | (1266.6–1729.2) | (1535.2–1689.1) | (1067.8–1209.3) | (350.2–405.0) | (104.3–125.7) | (218.5–378.0) | (23.3–32.2) | (11.1–17.1) | (10.5–16.6) | (0.03–0.1) | (54.2–95.3) | (2.7–4.2) | (2.1–3.6) | (48.7–88.7) | (2.0–3.1) | (345.6–587.6) | -- | (668.5–1140.6) | (2.7–5.1) | (2777.4–5001.8) |
| | 8649.5 | 1580.1 | 1588.0 | 1777.0 | 1333.7 | 348.0 | 112.0 | 258.7 | 23.2 | 10.6 | 12.5 | 0.1 | 44.2 | 3.2 | 2.6 | 38.5 | 2.3 | 451.4 | | 917.9 | 4.5 | 3182.4 |
| Senegal | (7833.9–9559.8) | (1243.0–1912.7) | (1367.0–1852.6) | (1691.2–1865.0) | (1250.4–1418.0) | (325.0–376.3) | (102.5–122.4) | (194.7–336.3) | (19.6–27.3) | (8.4–13.1) | (9.7–15.7) | (0.05–0.1) | (31.4–57.5) | (2.5–4.0) | (2.0–3.4) | (26.1–51.7) | (1.9–2.9) | (340.7–569.5) | -- | (688.7–1161.4) | (3.3–5.9) | (2333.3–4198.2) |
| | 8190.0 | 1742.7 | 1504.8 | 1481.9 | 1107.1 | 291.3 | 94.6 | 260.2 | 21.8 | 10.0 | 11.8 | 0.04 | 63.8 | 3.4 | 2.9 | 57.5 | 2.2 | 469.3 | | 887.7 | 3.5 | 2765.6 |
| Sierra Leone | (7430.7–9026.4) | (1387.3–2130.2) | (1296.0–1751.3) | (1406.3–1557.6) | (1015.3–1180.4) | (269.4–317.6) | (85.9–104.8) | (191.9–348.3) | (18.3–26.4) | (7.8–12.1) | (9.3–15.2) | (0.03–0.1) | (46.9–83.3) | (2.7–4.3) | (2.2–3.7) | (40.6–76.7) | (1.8–2.7) | (351.6–603.8) | -- | (676.0–1160.0) | (2.6–4.7) | (1992.7–3718.8) |
| | 8527.4 | 1748.9 | 1668.1 | 1728.5 | 1282.9 | 353.5 | 106.3 | 262.0 | 24.9 | 12.0 | 12.9 | 0.1 | 64.6 | 3.4 | 2.8 | 58.4 | 2.0 | 449.0 | | 899.1 | 4.2 | 2766.9 |
| Gambia | (7730.6–9451.7) | (1413.7–2134.3) | (1406.0–1950.6) | (1651.6–1805.7) | (1209.1–1355.2) | (330.9–378.9) | (97.3–115.9) | (195.5–348.7) | (21.0–29.8) | (9.6–14.6) | (10.1–16.4) | (0.03–0.1) | (46.2–84.7) | (2.7–4.2) | (2.1–3.6) | (40.9–77.7) | (1.6–2.5) | (336.9–580.3) | -- | (668.9–1152.7) | (3.1–5.7) | (1950.1–3766.2) |
| | 8337.0 | 1731.6 | 1616.8 | 1594.0 | 1180.7 | 321.6 | 104.1 | 263.5 | 23.5 | 11.2 | 12.2 | 0.05 | 62.6 | 3.4 | 2.7 | 56.5 | 2.0 | 446.2 | | 865.7 | 4.4 | 2773.0 |
| Togo | (7593.1–9320.3) | (1381.0–2122.7) | (1379.9–1911.8) | (1525.3–1668.2) | (1107.5–1258.3) | (302.6–345.7) | (94.5–113.9) | (195.4–347.7) | (19.6–27.7) | (9.0–13.7) | (9.8–15.7) | (0.03–0.1) | (45.4–82.9) | (2.7–4.3) | (2.1–3.5) | (40.1–76.1) | (1.7–2.5) | (332.0–577.6) | -- | (658.0–1098.4) | (3.2–5.9) | (2034.4–3764.6) |

**Table S5. Cardiovascular disease mortality rates by sex**

| | Deaths count (millions) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|
| **Cause Names** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| Cardiovascular diseases | 10.1 (9.21–10.8) | 9.11 (7.85–10.1) | 19.2 (17.4–20.4) | 253.1 (230.1–272.2) | 181.8 (157.2–201.2) | 215.2 (194.3–229.8) |
| Rheumatic heart disease | 0.155 (0.102–0.255) | 0.233 (0.130–0.358) | 0.389 (0.261–0.554) | 3.8 (2.5–6.1) | 5.0 (2.7–7.6) | 4.4 (3.0–6.3) |
| Ischemic heart disease | 4.97 (4.49–5.45) | 3.94 (3.41–4.38) | 8.91 (8.04–9.66) | 124.6 (112.9–137.1) | 78.3 (67.5–87.3) | 99.8 (89.9–108.4) |
| Stroke | 3.50 (3.09–3.97) | 3.29 (2.81–3.87) | 6.79 (6.06–7.47) | 87.5 (76.9–98.6) | 65.9 (56.4–77.7) | 75.9 (67.8–83.5) |
| Ischemic stroke | 1.60 (1.39–1.83) | 1.68 (1.37–1.99) | 3.28 (2.87–3.69) | 41.6 (36.0–47.6) | 33.1 (26.9–39.3) | 37.0 (32.4–41.7) |
| Intracerebral hemorrhage | 1.73 (1.45–2.05) | 1.43 (1.18–1.75) | 3.16 (2.75–3.55) | 41.6 (35.2–49.5) | 29.1 (24.1–35.6) | 34.9 (30.4–39.3) |
| Subarachnoid hemorrhage | 0.177 (0.145–0.222) | 0.180 (0.145–0.244) | 0.357 (0.304–0.430) | 4.3 (3.5–5.4) | 3.7 (3.0–5.1) | 4.0 (3.4–4.8) |
| Hypertensive heart disease | 0.637 (0.510–0.822) | 0.848 (0.642–1.11) | 1.49 (1.18–1.83) | 16.4 (13.2–21.1) | 16.7 (12.6–21.9) | 16.8 (13.4–20.7) |
| Non-rheumatic valvular heart disease | 0.0814 (0.0702–0.0929) | 0.110 (0.0856–0.127) | 0.191 (0.157–0.215) | 2.3 (1.9–2.6) | 2.1 (1.7–2.5) | 2.2 (1.8–2.5) |
| Non-rheumatic calcific aortic valve disease | 0.0653 (0.0547–0.0740) | 0.0841 (0.0643–0.0966) | 0.149 (0.120–0.166) | 1.8 (1.6–2.1) | 1.6 (1.2–1.9) | 1.7 (1.4–1.9) |
| Non-rheumatic degenerative mitral valve disease | 0.0154 (0.0117–0.0217) | 0.0244 (0.0179–0.0332) | 0.0397 (0.0324–0.0507) | 0.4 (0.3–0.6) | 0.5 (0.4–0.7) | 0.5 (0.4–0.6) |
| Other non-rheumatic valve diseases | 0.000828 (0.000454–0.00147) | 0.00130 (0.000636–0.00264) | 0.00213 (0.00131–0.00333) | 0.02 (0.01–0.04) | 0.03 (0.01–0.1) | 0.02 (0.01–0.04) |
| Cardiomyopathy and myocarditis | 0.241 (0.198–0.300) | 0.158 (0.122–0.211) | 0.400 (0.338–0.465) | 5.9 (4.9–7.4) | 3.3 (2.5–4.4) | 4.6 (3.9–5.3) |
| Myocarditis | 0.00921 (0.00603–0.0142) | 0.00774 (0.00419–0.0135) | 0.0169 (0.0113–0.0241) | 0.2 (0.2–0.4) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| Alcoholic cardiomyopathy | 0.0505 (0.0440–0.0595) | 0.0118 (0.0100–0.0141) | 0.0623 (0.0560–0.0716) | 1.2 (1.0–1.4) | 0.3 (0.2–0.3) | 0.7 (0.6–0.8) |
| Other cardiomyopathy | 0.182 (0.141–0.235) | 0.139 (0.105–0.192) | 0.321 (0.260–0.381) | 4.5 (3.5–5.9) | 2.9 (2.1–4.0) | 3.7 (3.0–4.4) |
| Pulmonary Arterial Hypertension | 0.00990 (0.00699–0.0137) | 0.0129 (0.00920–0.0184) | 0.0228 (0.0175–0.0298) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) |
| Atrial fibrillation and flutter | 0.148 (0.132–0.164) | 0.230 (0.184–0.268) | 0.378 (0.319–0.424) | 4.3 (3.8–4.8) | 4.4 (3.6–5.2) | 4.4 (3.7–5.0) |
| Aortic aneurysm | 0.104 (0.0915–0.118) | 0.0637 (0.0522–0.0722) | 0.167 (0.147–0.187) | 2.6 (2.3–3.0) | 1.3 (1.0–1.4) | 1.9 (1.6–2.1) |
| Lower extremity peripheral arterial disease | 0.0389 (0.0343–0.0456) | 0.0360 (0.0300–0.0414) | 0.0749 (0.0661–0.0831) | 1.0 (0.9–1.2) | 0.7 (0.6–0.8) | 0.9 (0.7–0.9) |
| Endocarditis | 0.0429 (0.0354–0.0535) | 0.0433 (0.0350–0.0541) | 0.0862 (0.0742–0.101) | 1.1 (0.9–1.4) | 0.9 (0.7–1.1) | 1.0 (0.9–1.2) |
| Other cardiovascular and circulatory diseases | 0.127 (0.101–0.158) | 0.139 (0.107–0.184) | 0.266 (0.217–0.318) | 3.2 (2.5–4.0) | 2.9 (2.2–3.9) | 3.0 (2.5–3.6) |

**Table S6. Cardiovascular disease prevalence rates by sex**

| | Prevalence count (millions) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|
| **Cause Names** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| Cardiovascular diseases | 323 (305–346) | 303 (285–325) | 626 (591–672) | 7618.3 (7211.3–8140.5) | 6410.9 (6039.8–6897.0) | 6988.8 (6609.6–7472.4) |
| Rheumatic heart disease | 25.7 (20.6–30.8) | 29.1 (23.4–34.7) | 54.9 (44.0–65.5) | 625.3 (500.9–746.8) | 714.3 (570.6–852.7) | 669.6 (535.7–798.9) |
| Ischemic heart disease | 137 (121–156) | 102 (89.7–117) | 239 (211–272) | 3206.8 (2834.7–3623.4) | 2117.1 (1863.7–2427.2) | 2637.3 (2329.7–2997.9) |
| Stroke | 56.4 (52.8–60.5) | 48.4 (45.3–52.0) | 105 (98.3–113) | 1325.1 (1241.4–1419.9) | 1034.7 (971.1–1109.4) | 1169.8 (1097.4–1256.7) |
| Ischemic stroke | 43.4 (40.0–47.1) | 34.4 (31.5–37.7) | 77.8 (71.4–84.6) | 1021.2 (943.6–1109.3) | 723.4 (661.7–788.8) | 862.0 (793.1–935.2) |
| Intracerebral hemorrhage | 9.30 (8.47–10.2) | 7.96 (7.30–8.67) | 17.3 (15.8–18.8) | 218.3 (199.3–237.9) | 179.6 (165.3–195.9) | 198.6 (182.9–216.2) |
| Subarachnoid hemorrhage | 4.05 (3.63–4.51) | 6.31 (5.71–7.01) | 10.4 (9.33–11.5) | 93.9 (84.1–104.9) | 137.8 (124.7–153.3) | 116.4 (104.8–129.6) |
| Hypertensive heart disease | 6.11 (4.75–7.88) | 7.25 (5.80–9.21) | 13.4 (10.6–16.9) | 148.8 (116.0–188.9) | 146.0 (116.9–184.9) | 147.8 (116.9–187.2) |
| Non-rheumatic valvular heart disease | 17.6 (16.3–19.0) | 11.9 (10.9–13.1) | 29.5 (27.3–32.0) | 425.9 (395.1–459.8) | 238.0 (217.8–260.7) | 323.4 (298.8–350.8) |
| Non-rheumatic calcific aortic valve disease | 7.65 (6.46–8.90) | 6.21 (5.16–7.21) | 13.9 (11.6–16.0) | 186.2 (157.4–215.7) | 123.9 (103.1–143.6) | 152.7 (128.2–176.4) |
| Non-rheumatic degenerative mitral valve disease | 10.2 (9.53–11.0) | 5.85 (5.44–6.23) | 16.1 (15.0–17.3) | 247.4 (230.3–265.6) | 116.5 (108.4–124.1) | 175.4 (163.3–188.0) |
| Other non-rheumatic valve diseases | 0.00450 (0.00365–0.00538) | 0.00781 (0.00644–0.00927) | 0.0123 (0.0101–0.0147) | 0.1 (0.1–0.1) | 0.2 (0.1–0.2) | 0.1 (0.1–0.2) |
| Cardiomyopathy and myocarditis | 3.11 (2.55–3.60) | 2.24 (1.82–2.62) | 5.35 (4.39–6.23) | 77.1 (64.1–89.0) | 52.7 (42.7–61.4) | 64.7 (53.2–75.2) |
| Myocarditis | 0.227 (0.185–0.273) | 0.163 (0.135–0.195) | 0.390 (0.321–0.467) | 5.7 (4.6–6.8) | 4.0 (3.3–4.8) | 4.8 (4.0–5.8) |
| Alcoholic cardiomyopathy | 0.422 (0.350–0.502) | 0.123 (0.103–0.145) | 0.544 (0.453–0.647) | 9.7 (8.1–11.4) | 2.7 (2.3–3.2) | 6.1 (5.1–7.2) |
| Other cardiomyopathy | 2.46 (1.97–2.91) | 1.96 (1.54–2.31) | 4.42 (3.51–5.28) | 61.7 (49.3–73.2) | 46.0 (36.3–54.4) | 53.7 (42.6–64.1) |
| Pulmonary Arterial Hypertension | 0.0754 (0.0611–0.0946) | 0.122 (0.0986–0.151) | 0.198 (0.160–0.246) | 1.8 (1.4–2.2) | 2.7 (2.2–3.4) | 2.3 (1.8–2.8) |
| Atrial fibrillation and flutter | 32.0 (25.2–39.5) | 27.0 (21.0–33.5) | 59.0 (46.5–72.8) | 776.3 (615.3–949.3) | 541.9 (421.1–671.1) | 649.4 (510.9–796.4) |
| Aortic aneurysm | -- | -- | -- | -- | -- | -- |
| Lower extremity peripheral arterial disease | 47.2 (36.1–60.8) | 74.8 (57.6–95.8) | 122 (93.9–157) | 1143.6 (880.7–1459.2) | 1498.6 (1153.9–1926.8) | 1337.4 (1030.1–1715.6) |
| Endocarditis | 0.215 (0.186–0.248) | 0.209 (0.179–0.240) | 0.425 (0.365–0.489) | 5.4 (4.7–6.3) | 4.7 (4.1–5.4) | 5.1 (4.4–5.9) |
| Other cardiovascular and circulatory diseases | 46.1 (35.4–59.2) | 40.9 (31.6–51.0) | 87.0 (66.9–110) | 1105.1 (854.3–1400.2) | 871.7 (682.4–1078.6) | 976.5 (756.7–1221.9) |

**Table S7. Cardiovascular disease risk factor DALY rates**

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| Global | | | | | | |
| | | 250 | 349 | 6440.8 | 3842.8 | -1.6 |
| | All risk factors | (226–269) | (318–377) | (5879.8–6925.4) | (3496.8–4153.1) | (-1.8–-1.2) |
| | | 202 | 295 | 5255.2 | 3245.9 | -1.5 |
| | Metabolic risks | (173–230) | (258–327) | (4534.1–5970.3) | (2838.7–3600.8) | (-1.8–-1.0) |
| | | 21.2 | 37.3 | 577.0 | 410.1 | -1.0 |
| | High fasting plasma glucose | (16.0–30.0) | (30.4–47.3) | (440.2–803.0) | (333.4–519.8) | (-2.0–-0.2) |
| | | 65.3 | 91.1 | 1653.0 | 1005.9 | -1.5 |
| | High LDL cholesterol | (41.1–91.9) | (60.0–124) | (1021.9–2357.4) | (662.0–1366.1) | (-2.1–-0.9) |
| | | 154 | 224 | 4037.9 | 2458.4 | -1.5 |
| | High systolic blood pressure | (117–189) | (183–261) | (3111.1–4919.9) | (2004.9–2875.0) | (-2.1–-0.8) |
| | | 21.5 | 46.1 | 536.0 | 507.7 | -0.2 |
| | High body-mass index | (11.3–33.0) | (25.3–66.6) | (282.8–822.1) | (279.0–734.0) | (-0.7–0.5) |
| | | 29.5 | 44.8 | 787.7 | 492.6 | -1.4 |
| | Kidney dysfunction | (22.3–36.9) | (33.4–57.8) | (588.9–994.9) | (366.3–636.4) | (-1.7–-1.1) |
| | | 151 | 197 | 3782.2 | 2165.4 | -1.7 |
| | Behavioral risks | (101–182) | (129–244) | (2493.0–4592.6) | (1418.9–2682.1) | (-2.1–-1.3) |
| | | 67.7 | 78.4 | 1647.1 | 859.1 | -2.0 |
| | Tobacco | (58.5–78.4) | (67.5–90.0) | (1415.4–1910.7) | (739.6–985.8) | (-2.4–-1.5) |
| | | 53.8 | 59.6 | 1290.3 | 651.5 | -2.1 |
| | Smoking | (45.9–64.0) | (50.2–69.6) | (1098.1–1545.8) | (548.5–761.4) | (-2.5–-1.5) |
| | | 1.92 | 3.72 | 47.2 | 40.6 | -0.5 |
| | Chewing tobacco | (0.927–3.50) | (1.88–6.20) | (22.8–85.7) | (20.6–67.6) | (-2.2–1.6) |
| | | 15.3 | 18.6 | 388.3 | 205.0 | -1.9 |
| | Secondhand smoke | (11.1–19.9) | (14.0–23.4) | (281.0–503.0) | (153.6–257.5) | (-2.5–-1.4) |
| | | 2.85 | 3.84 | 75.1 | 41.8 | -1.8 |
| | High alcohol use | (0.0187–9.43) | (0.375–11.0) | (8.3–229.6) | (4.0–120.9) | (-4.1–0.2) |
| | | 107 | 142 | 2689.2 | 1564.8 | -1.6 |
| | Dietary risks | (42.6–146) | (56.0–199) | (1057.6–3681.4) | (617.3–2192.5) | (-2.1–-1.1) |
| | | 28.3 | 38.0 | 680.9 | 421.1 | -1.5 |
| | Diet low in fruits | (9.03–44.6) | (14.1–60.1) | (225.3–1078.3) | (157.4–664.1) | (-2.2–-0.5) |
| | | 13.0 | 17.9 | 321.4 | 199.0 | -1.5 |
| | Diet low in vegetables | (7.04–19.6) | (10.7–26.3) | (176.9–486.7) | (119.3–291.4) | (-2.3–-0.5) |
| | | 11.2 | 14.4 | 280.2 | 159.2 | -1.7 |
| | Diet low in legumes | (-10.1–29.0) | (-12.2–37.7) | (-249.0–727.7) | (-135.8–416.8) | (-2.7–-1.0) |
| | | 16.4 | 23.2 | 405.7 | 256.4 | -1.4 |
| | Diet low in whole grains | (6.48–25.9) | (9.95–36.1) | (161.8–644.3) | (109.9–399.1) | (-2.6–-0.1) |
| | | 18.8 | 22.8 | 463.7 | 252.3 | -1.8 |
| | Diet low in nuts and seeds | (5.55–30.1) | (6.69–38.7) | (134.9–744.0) | (74.7–428.3) | (-2.8–-0.9) |
| | | -0.283 | 0.247 | -0.4 | 2.4 | |
| | Diet high in red meat | (-12.6–6.57) | (-10.3–7.22) | (-280.6–152.1) | (-115.5–79.8) | -- |
| | | 3.71 | 3.53 | 93.1 | 38.9 | -2.6 |
| | Diet high in processed meat | (-0.473–7.96) | (-0.307–7.56) | (-10.7–200.7) | (-3.4–83.3) | (-3.8–-1.4) |
| | | 1.11 | 2.20 | 26.9 | 24.6 | -0.3 |
| | Diet high in sugar-sweetened beverages | (0.328–2.60) | (0.861–3.87) | (8.0–63.4) | (9.6–43.2) | (-2.4–2.9) |
| | | 11.2 | 11.6 | 270.7 | 130.2 | -2.2 |
| | Diet low in fiber | (2.91–24.1) | (2.83–25.3) | (74.8–584.7) | (31.8–282.8) | (-5.0–0.5) |
| | | 13.2 | 13.2 | 322.9 | 147.1 | -2.4 |
| | Diet low in seafood omega-3 fatty acids | (3.47–24.3) | (3.38–25.6) | (83.6–598.8) | (37.8–283.3) | (-4.1–-0.8) |
| | | 10.5 | 13.8 | 256.5 | 153.0 | -1.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-33.9–39.5) | (-40.5–52.6) | (-824.0–971.6) | (-449.9–580.1) | (-2.3–-0.8) |
| | | 10.4 | 10.5 | 255.6 | 115.8 | -2.4 |
| | Diet high in trans fatty acids | (0.483–20.3) | (0.583–20.4) | (11.8–503.2) | (6.5–226.0) | (-3.6–-1.3) |
| | | 29.0 | 35.3 | 733.1 | 385.1 | -2.0 |
| | Diet high in sodium | (6.60–60.1) | (6.24–83.9) | (159.1–1537.2) | (67.1–914.7) | (-4.4–-0.4) |
| | | 4.93 | 7.13 | 132.9 | 78.3 | -1.6 |
| | Low physical activity | (1.94–7.86) | (2.81–11.4) | (49.1–218.6) | (30.6–126.4) | (-2.0–-1.0) |
| | | 122 | 157 | 3111.5 | 1733.0 | -1.8 |
| | Environmental/occupational risks | (99.7–140) | (133–183) | (2572.7–3578.5) | (1460.8–2012.9) | (-2.1–-1.4) |
| | | 81.6 | 91.2 | 2074.3 | 1002.5 | -2.2 |
| | Air pollution | (61.0–102) | (72.1–112) | (1550.5–2599.2) | (793.2–1231.1) | (-2.6–-1.8) |
| | | 81.6 | 91.2 | 2074.3 | 1002.5 | -2.2 |
| | Particulate matter pollution | (61.0–102) | (72.1–112) | (1550.5–2599.2) | (793.2–1231.1) | (-2.6–-1.8) |
| | | 33.2 | 60.8 | 870.6 | 668.6 | -0.8 |
| | Ambient particulate matter pollution | (23.5–42.8) | (47.6–76.3) | (617.1–1114.8) | (523.6–840.2) | (-1.4–-0.2) |
| | | 48.5 | 30.6 | 1203.7 | 336.2 | -3.9 |
| | Household air pollution from solid fuels | (35.1–62.9) | (20.7–43.5) | (868.7–1565.7) | (227.5–478.7) | (-4.8–-2.9) |
| | | 19.0 | 23.1 | 488.5 | 256.3 | -2.0 |
| | Non-optimal temperature | (16.6–22.5) | (19.6–28.7) | (428.0–576.6) | (217.3–318.9) | (-2.3–-1.6) |
| | | 1.87 | 5.52 | 45.0 | 61.3 | 0.9 |
| | High temperature | (0.669–3.74) | (2.74–9.43) | (15.6–91.3) | (30.5–104.6) | (0.2–2.3) |
| | | 17.2 | 17.9 | 446.3 | 198.0 | -2.5 |
| | Low temperature | (15.6–19.2) | (16.2–20.1) | (404.5–496.3) | (179.4–222.3) | (-2.7–-2.1) |
| | | 41.2 | 70.6 | 1067.8 | 775.8 | -1.0 |
| | Other environmental risks | (30.6–53.5) | (52.6–88.0) | (798.6–1384.6) | (577.8–968.0) | (-1.3–-0.6) |
| | | 41.2 | 70.6 | 1067.8 | 775.8 | -1.0 |
| | Lead exposure | (30.6–53.5) | (52.6–88.0) | (798.6–1384.6) | (577.8–968.0) | (-1.3–-0.6) |
| Central Europe, Eastern Europe, and Central Asia | | | | | | |
| | | 44.7 | 38.8 | 9844.4 | 5873.8 | -1.6 |
| | All risk factors | (42.0–46.5) | (36.6–40.8) | (9256.8–10256.8) | (5546.7–6164.2) | (-1.7–-1.5) |
| | | 38.0 | 33.1 | 8368.1 | 4956.8 | -1.6 |
| | Metabolic risks | (34.5–41.1) | (30.1–35.8) | (7583.3–9064.0) | (4498.6–5360.5) | (-1.8–-1.4) |
| | | 3.65 | 3.97 | 825.7 | 580.8 | -1.1 |
| | High fasting plasma glucose | (2.61–5.23) | (3.06–5.35) | (597.6–1172.9) | (448.8–785.4) | (-2.1–0.0) |
| | | 15.7 | 12.1 | 3404.7 | 1853.5 | -1.8 |
| | High LDL cholesterol | (9.92–21.8) | (7.92–16.6) | (2143.5–4738.8) | (1225.1–2516.3) | (-2.3–-1.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 29.2 | 25.5 | 6411.0 | 3800.3 | -1.6 |
| | High systolic blood pressure | (24.1–33.8) | (20.6–29.3) | (5289.8–7447.7) | (3058.2–4371.0) | (-2.1–-1.1) |
| | | 5.77 | 6.68 | 1221.1 | 1008.8 | -0.6 |
| | High body-mass index | (2.53–9.50) | (3.30–10.1) | (538.1–2016.8) | (497.4–1525.3) | (-1.2–0.1) |
| | | 5.37 | 4.97 | 1229.1 | 744.1 | -1.5 |
| | Kidney dysfunction | (4.00–6.81) | (3.74–6.40) | (910.5–1562.7) | (559.5–961.8) | (-1.6–-1.4) |
| | | 26.8 | 22.7 | 5798.5 | 3494.5 | -1.5 |
| | Behavioral risks | (15.1–32.2) | (12.8–27.9) | (3231.2–7019.0) | (2000.8–4259.7) | (-1.7–-1.3) |
| | | 11.5 | 8.85 | 2421.8 | 1368.7 | -1.7 |
| | Tobacco | (9.89–13.1) | (7.72–9.87) | (2095.5–2759.8) | (1201.3–1520.7) | (-2.1–-1.4) |
| | | 9.30 | 7.38 | 1935.7 | 1147.5 | -1.6 |
| | Smoking | (7.87–11.0) | (6.37–8.57) | (1632.7–2273.0) | (989.0–1327.7) | (-2.1–-1.2) |
| | | 0.0228 | 0.0210 | 5.0 | 3.3 | -1.3 |
| | Chewing tobacco | (0.00732–0.0516) | (0.00687–0.0482) | (1.6–11.4) | (1.1–7.5) | (-4.3–-2.1) |
| | | 2.64 | 1.78 | 585.5 | 271.1 | -2.3 |
| | Secondhand smoke | (1.90–3.41) | (1.29–2.28) | (424.0–757.0) | (196.6–346.3) | (-3.0–-1.7) |
| | | 1.11 | 1.63 | 235.3 | 277.1 | 0.5 |
| | High alcohol use | (0.516–3.03) | (1.20–3.22) | (110.0–647.3) | (204.7–529.0) | (-0.6–2.3) |
| | | 19.1 | 15.7 | 4160.5 | 2382.2 | -1.7 |
| | Dietary risks | (3.99–26.2) | (3.29–22.5) | (859.0–5719.1) | (511.1–3373.3) | (-2.1–-1.3) |
| | | 3.80 | 2.71 | 822.6 | 425.8 | -2.0 |
| | Diet low in fruits | (1.02–6.35) | (0.883–4.62) | (220.7–1371.6) | (137.3–720.9) | (-3.1–-0.7) |
| | | 1.40 | 1.09 | 305.7 | 167.5 | -1.8 |
| | Diet low in vegetables | (0.693–2.28) | (0.570–1.83) | (149.4–497.3) | (87.5–279.8) | (-3.5–-0.4) |
| | | 3.07 | 2.63 | 669.8 | 404.9 | -1.5 |
| | Diet low in legumes | (-2.60–7.70) | (-2.35–6.60) | (-567.6–1686.1) | (-371.8–1007.8) | (-2.0–-1.1) |
| | | 2.87 | 2.61 | 622.4 | 403.3 | -1.3 |
| | Diet low in whole grains | (1.19–4.68) | (1.16–4.19) | (259.6–1022.2) | (181.8–644.7) | (-3.0–0.4) |
| | | 4.84 | 3.81 | 1055.0 | 588.2 | -1.8 |
| | Diet low in nuts and seeds | (1.52–7.62) | (1.03–6.22) | (330.4–1658.8) | (161.3–956.9) | (-2.4–-1.4) |
| | | 0.840 (0.00000000000000000927 | 0.573 (-0.00000000000000000129–0 | 179.1 | 86.8 | |
| | Diet high in red meat | –1.42) | .968) | (0.0–306.0) | (0.0–146.1) | -- |
| | | 1.61 | 1.04 | 345.8 | 164.2 | -2.3 |
| | Diet high in processed meat | (-0.216–3.30) | (-0.0799–2.25) | (-45.2–707.9) | (-14.2–357.3) | (-3.4–-1.2) |
| | | 0.257 | 0.269 | 55.8 | 43.6 | -0.8 |
| | Diet high in sugar-sweetened beverages | (0.0774–0.595) | (0.106–0.468) | (16.8–129.0) | (17.1–76.5) | (-2.9–2.5) |
| | | 0.860 | 0.667 | 193.6 | 106.1 | -1.8 |
| | Diet low in fiber | (0.210–2.00) | (0.125–1.71) | (48.4–446.0) | (20.0–270.6) | (-6.3–2.3) |
| | | 2.39 | 1.66 | 527.1 | 258.0 | -2.2 |
| | Diet low in seafood omega-3 fatty acids | (0.578–4.62) | (0.415–3.29) | (128.2–1022.7) | (65.1–507.5) | (-3.9–-0.7) |
| | | 2.56 | 2.03 | 557.7 | 312.4 | -1.8 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-7.84–9.80) | (-5.51–7.75) | (-1714.1–2140.9) | (-855.5–1185.0) | (-2.3–-1.4) |
| | | 1.65 | 0.887 | 359.5 | 138.1 | -2.9 |
| | Diet high in trans fatty acids | (0.0718–3.35) | (0.0455–1.81) | (15.6–728.0) | (7.1–281.7) | (-4.2–-1.8) |
| | | 4.13 | 3.27 | 891.2 | 491.1 | -1.8 |
| | Diet high in sodium | (0.723–9.51) | (0.414–7.99) | (155.4–2063.9) | (61.7–1190.4) | (-4.9–0.2) |
| | | 0.849 | 0.713 | 193.0 | 104.8 | -1.9 |
| | Low physical activity | (0.264–1.41) | (0.221–1.16) | (57.9–326.2) | (32.2–172.2) | (-2.3–-1.3) |
| | | 19.2 | 13.4 | 4259.9 | 2013.7 | -2.3 |
| | Environmental/occupational risks | (15.6–22.5) | (11.7–15.1) | (3467.6–4996.9) | (1750.3–2263.0) | (-2.7–-1.9) |
| | | 12.1 | 5.09 | 2669.6 | 765.2 | -3.8 |
| | Air pollution | (8.14–15.8) | (3.70–6.52) | (1803.8–3496.4) | (556.7–980.1) | (-4.6–-3.0) |
| | | 12.1 | 5.09 | 2669.6 | 765.2 | -3.8 |
| | Particulate matter pollution | (8.14–15.8) | (3.70–6.52) | (1803.8–3496.4) | (556.7–980.1) | (-4.6–-3.0) |
| | | 9.88 | 4.69 | 2185.9 | 704.9 | -3.4 |
| | Ambient particulate matter pollution | (6.14–13.6) | (3.43–6.00) | (1359.9–3001.9) | (515.3–901.4) | (-4.4–-2.4) |
| | | 2.18 | 0.414 | 483.7 | 62.3 | -6.2 |
| | Household air pollution from solid fuels | (1.17–3.73) | (0.176–0.899) | (260.2–828.3) | (26.5–135.0) | (-7.8–-4.9) |
| | | 3.64 | 2.93 | 807.6 | 447.4 | -1.8 |
| | Non-optimal temperature | (3.42–4.01) | (2.72–3.33) | (756.9–892.4) | (414.3–507.0) | (-2.0–-1.6) |
| | | 0.0454 | 0.127 | 10.2 | 19.5 | 2.0 |
| | High temperature | (0.000149–0.173) | (0.0338–0.360) | (0.1–38.5) | (5.5–54.4) | (0.9–14.7) |
| | | 3.60 | 2.82 | 798.4 | 429.3 | -1.9 |
| | Low temperature | (3.40–3.89) | (2.63–3.03) | (753.7–865.0) | (401.2–460.0) | (-2.0–-1.8) |
| | | 6.48 | 7.12 | 1447.3 | 1055.5 | -1.0 |
| | Other environmental risks | (5.38–7.59) | (6.06–8.27) | (1202.4–1688.9) | (895.5–1227.3) | (-1.1–-0.8) |
| | | 6.48 | 7.12 | 1447.3 | 1055.5 | -1.0 |
| | Lead exposure | (5.38–7.59) | (6.06–8.27) | (1202.4–1688.9) | (895.5–1227.3) | (-1.1–-0.8) |
| **Central Asia** | | | | | | |
| | | 4.52 | 5.93 | 10345.1 | 7032.6 | -1.2 |
| | All risk factors | (4.23–4.73) | (5.59–6.22) | (9665.5–10841.7) | (6612.4–7401.1) | (-1.3–-1.0) |
| | | 3.85 | 5.12 | 8860.6 | 6105.5 | -1.1 |
| | Metabolic risks | (3.45–4.21) | (4.66–5.53) | (7962.8–9679.0) | (5572.0–6563.7) | (-1.4–-0.8) |
| | | 0.398 | 0.645 | 982.3 | 813.1 | -0.6 |
| | High fasting plasma glucose | (0.301–0.511) | (0.530–0.814) | (751.2–1253.3) | (671.5–1023.4) | (-1.4–0.2) |
| | | 1.33 | 1.76 | 2889.8 | 1964.8 | -1.2 |
| | High LDL cholesterol | (0.850–1.82) | (1.19–2.40) | (1811.1–4039.9) | (1283.5–2722.2) | (-1.8–-0.5) |
| | | 2.93 | 3.90 | 6804.8 | 4697.8 | -1.1 |
| | High systolic blood pressure | (2.28–3.49) | (3.16–4.50) | (5372.7–8127.1) | (3805.4–5426.5) | (-1.7–-0.4) |
| | | 0.656 | 1.11 | 1393.6 | 1215.5 | -0.4 |
| | High body-mass index | (0.293–1.07) | (0.540–1.69) | (629.9–2286.5) | (596.3–1871.8) | (-1.3–0.4) |
| | | 0.677 | 0.921 | 1640.0 | 1155.6 | -1.1 |
| | Kidney dysfunction | (0.533–0.814) | (0.723–1.14) | (1287.5–1984.4) | (894.5–1425.7) | (-1.2–-0.9) |
| | | 2.75 | 3.36 | 6088.7 | 3837.5 | -1.4 |
| | Behavioral risks | (1.26–3.38) | (1.58–4.22) | (2749.7–7572.6) | (1704.3–4882.4) | (-1.7–-1.1) |
| | | 1.11 | 1.27 | 2325.1 | 1358.5 | -1.6 |
| | Tobacco | (0.941–1.29) | (1.08–1.47) | (1954.0–2694.1) | (1149.5–1576.2) | (-2.1–-1.1) |
| | | 0.862 | 0.952 | 1726.0 | 972.2 | -1.7 |
| | Smoking | (0.700–1.05) | (0.774–1.16) | (1387.6–2120.2) | (790.2–1185.5) | (-2.5–-1.0) |
| | | 0.00626 | 0.00774 | 12.9 | 8.2 | -1.4 |
| | Chewing tobacco | (0.00219–0.0132) | (0.00267–0.0171) | (4.5–27.4) | (2.8–18.2) | (-4.4–1.7) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.295 | 0.357 | 682.5 | 430.7 | -1.4 |
| | Secondhand smoke | (0.215–0.377) | (0.268–0.449) | (499.4–872.9) | (322.2–544.2) | (-1.9–-0.9) |
| | | 0.00167 | 0.0875 | 11.4 | 88.2 | |
| | High alcohol use | (-0.0377–0.139) | (0.0431–0.231) | (-65.5–286.0) | (44.9–236.0) | -- |
| | | 2.16 | 2.55 | 4818.7 | 2944.4 | -1.5 |
| | Dietary risks | (0.281–2.96) | (0.323–3.61) | (641.8–6697.1) | (376.1–4237.9) | (-2.1–-1.1) |
| | | 0.450 | 0.374 | 953.3 | 410.0 | -2.6 |
| | Diet low in fruits | (0.121–0.752) | (0.115–0.678) | (262.6–1611.6) | (128.9–745.9) | (-4.1–-1.0) |
| | | 0.168 | 0.0938 | 367.8 | 111.8 | -3.6 |
| | Diet low in vegetables | (0.0830–0.265) | (0.0316–0.200) | (185.2–584.4) | (39.4–230.2) | (-7.0–-1.7) |
| | | 0.415 | 0.507 | 900.3 | 569.5 | -1.4 |
| | Diet low in legumes | (-0.399–1.02) | (-0.468–1.28) | (-846.3–2239.8) | (-509.6–1455.1) | (-1.7–-1.2) |
| | | 0.337 | 0.457 | 724.2 | 508.4 | -1.1 |
| | Diet low in whole grains | (0.149–0.539) | (0.211–0.723) | (326.8–1164.2) | (235.2–799.1) | (-2.7–0.7) |
| | | 0.541 | 0.656 | 1175.2 | 739.1 | -1.4 |
| | Diet low in nuts and seeds | (0.172–0.851) | (0.180–1.07) | (362.9–1857.5) | (202.1–1203.3) | (-2.0–-0.9) |
| | | | 0.121 (-0.00000000000000174–0.220) | | | |
| | Diet high in red meat | 0.0490 (-0.0658–0.125) | | 106.3 (-93.8–259.9) | 130.7 (0.0–240.4) | -- |
| | | 0.0656 | 0.102 | 133.3 | 106.8 | -0.7 |
| | Diet high in processed meat | (-0.00827–0.162) | (-0.0146–0.274) | (-15.8–329.7) | (-14.4–286.9) | (-3.4–2.2) |
| | | 0.0235 | 0.0446 | 46.9 | 46.4 | 0.0 |
| | Diet high in sugar-sweetened beverages | (0.00480–0.0628) | (0.00788–0.137) | (9.7–124.8) | (8.3–142.8) | (-4.5–4.9) |
| | | 0.197 | 0.0934 | 428.8 | 108.0 | -4.2 |
| | Diet low in fiber | (0.0586–0.425) | (0.0158–0.254) | (132.7–922.0) | (18.5–291.8) | (-8.8–-0.4) |
| | | 0.474 | 0.576 | 1033.0 | 649.8 | -1.4 |
| | Diet low in seafood omega-3 fatty acids | (0.114–0.815) | (0.137–0.982) | (248.4–1806.8) | (152.7–1114.5) | (-2.1–-0.9) |
| | | 0.298 | 0.361 | 650.5 | 406.2 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.935–1.13) | (-1.06–1.37) | (-2004.4–2493.3) | (-1159.7–1549.1) | (-2.0–-1.1) |
| | | 0.206 | 0.209 | 441.4 | 232.6 | -1.9 |
| | Diet high in trans fatty acids | (0.00948–0.405) | (0.0110–0.413) | (20.1–873.4) | (12.1–463.1) | (-3.2–-1.0) |
| | | 0.432 | 0.378 | 998.0 | 466.9 | -2.3 |
| | Diet high in sodium | (0.0254–1.06) | (0.00783–1.11) | (59.6–2482.8) | (10.4–1348.8) | (-9.4–0.4) |
| | | 0.0596 | 0.0723 | 148.9 | 94.7 | -1.4 |
| | Low physical activity | (0.0237–0.0941) | (0.0274–0.117) | (55.2–239.1) | (34.5–158.1) | (-2.0–-0.9) |
| | | 2.11 | 2.69 | 4896.9 | 3252.3 | -1.2 |
| | Environmental/occupational risks | (1.69–2.49) | (2.36–2.99) | (3941.7–5747.2) | (2838.1–3618.8) | (-1.6–-0.8) |
| | | 1.30 | 1.47 | 2987.1 | 1748.0 | -1.6 |
| | Air pollution | (0.792–1.75) | (1.15–1.77) | (1823.2–4027.8) | (1362.7–2103.7) | (-2.4–-0.6) |
| | | 1.30 | 1.47 | 2987.1 | 1748.0 | -1.6 |
| | Particulate matter pollution | (0.792–1.75) | (1.15–1.77) | (1823.2–4027.8) | (1362.7–2103.7) | (-2.4–-0.6) |
| | | 0.710 | 1.22 | 1628.4 | 1451.8 | -0.3 |
| | Ambient particulate matter pollution | (0.324–1.22) | (0.946–1.49) | (741.4–2777.4) | (1128.0–1781.6) | (-1.9–1.8) |
| | | 0.586 | 0.253 | 1358.7 | 300.6 | -4.6 |
| | Household air pollution from solid fuels | (0.367–0.880) | (0.138–0.433) | (847.8–2046.5) | (161.4–516.6) | (-5.9–-3.4) |
| | | 0.409 | 0.504 | 936.2 | 601.5 | -1.3 |
| | Non-optimal temperature | (0.368–0.501) | (0.452–0.638) | (840.0–1149.4) | (538.0–761.1) | (-1.5–-1.2) |
| | | 0.0208 | 0.0636 | 47.3 | 75.2 | 1.4 |
| | High temperature | (0.00349–0.0626) | (0.0234–0.153) | (7.1–144.5) | (26.6–182.2) | (0.6–4.2) |
| | | 0.390 | 0.445 | 893.3 | 532.1 | -1.6 |
| | Low temperature | (0.363–0.446) | (0.419–0.494) | (829.5–1021.9) | (498.2–593.9) | (-1.7–-1.4) |
| | | 0.779 | 1.21 | 1849.9 | 1504.7 | -0.6 |
| | Other environmental risks | (0.644–0.913) | (1.01–1.42) | (1525.7–2159.7) | (1268.8–1755.9) | (-0.9–-0.4) |
| | | 0.779 | 1.21 | 1849.9 | 1504.7 | -0.6 |
| | Lead exposure | (0.644–0.913) | (1.01–1.42) | (1525.7–2159.7) | (1268.8–1755.9) | (-0.9–-0.4) |
| **Central Europe** | | | | | | |
| | | 12.7 | 8.94 | 8860.2 | 3982.8 | -2.4 |
| | All risk factors | (12.1–13.2) | (8.32–9.42) | (8397.7–9192.1) | (3709.4–4197.3) | (-2.5–-2.3) |
| | | 11.0 | 7.90 | 7697.3 | 3499.5 | -2.4 |
| | Metabolic risks | (10.1–11.8) | (7.24–8.47) | (7037.9–8261.5) | (3212.0–3761.2) | (-2.5–-2.2) |
| | | 1.38 | 1.30 | 976.1 | 554.3 | -1.7 |
| | High fasting plasma glucose | (0.973–2.15) | (0.977–1.81) | (698.1–1508.8) | (413.7–780.3) | (-3.0–-0.5) |
| | | 4.21 | 2.41 | 2907.5 | 1127.1 | -2.9 |
| | High LDL cholesterol | (2.68–5.85) | (1.52–3.44) | (1841.9–4038.5) | (732.4–1573.8) | (-3.3–-2.5) |
| | | 8.80 | 6.30 | 6127.7 | 2768.2 | -2.4 |
| | High systolic blood pressure | (7.38–10.0) | (5.32–7.13) | (5131.6–6986.4) | (2325.8–3131.4) | (-2.7–-2.1) |
| | | 1.67 | 1.68 | 1124.1 | 766.9 | -1.2 |
| | High body-mass index | (0.793–2.69) | (0.949–2.34) | (536.6–1811.9) | (433.6–1066.3) | (-2.0–-0.3) |
| | | 1.09 | 0.825 | 793.1 | 358.1 | -2.4 |
| | Kidney dysfunction | (0.805–1.40) | (0.598–1.07) | (581.5–1016.6) | (260.7–462.6) | (-2.5–-2.3) |
| | | 8.08 | 5.18 | 5552.2 | 2372.6 | -2.6 |
| | Behavioral risks | (5.53–9.49) | (3.42–6.41) | (3778.6–6550.0) | (1596.0–2894.2) | (-2.9–-2.3) |
| | | 3.76 | 1.84 | 2530.0 | 894.8 | -3.1 |
| | Tobacco | (3.22–4.29) | (1.56–2.10) | (2165.1–2874.5) | (769.8–1007.2) | (-3.6–-2.8) |
| | | 3.17 | 1.50 | 2106.1 | 742.9 | -3.2 |
| | Smoking | (2.67–3.74) | (1.24–1.77) | (1776.1–2480.4) | (616.1–873.1) | (-3.7–-2.7) |
| | | 0.00585 | 0.00544 | 4.1 | 2.5 | -1.5 |
| | Chewing tobacco | (0.00186–0.0136) | (0.00175–0.0127) | (1.3–9.6) | (0.8–5.8) | (-4.6–1.9) |
| | | 0.801 | 0.417 | 562.9 | 191.4 | -3.3 |
| | Secondhand smoke | (0.582–1.03) | (0.302–0.535) | (409.0–724.6) | (139.0–245.1) | (-3.9–-2.7) |
| | | 0.182 | 0.197 | 119.5 | 85.0 | |
| | High alcohol use | (-0.00933–0.761) | (0.0792–0.585) | (-8.0–516.2) | (20.3–279.5) | -- |
| | | 5.86 | 3.83 | 4047.0 | 1736.9 | -2.6 |
| | Dietary risks | (2.11–7.81) | (1.63–5.47) | (1457.7–5414.9) | (750.4–2446.3) | (-3.0–-2.2) |
| | | 0.991 | 0.612 | 683.3 | 292.4 | -2.6 |
| | Diet low in fruits | (0.333–1.66) | (0.282–1.00) | (232.0–1146.0) | (132.5–477.0) | (-3.7–-1.1) |
| | | 0.399 | 0.318 | 277.5 | 144.8 | -2.0 |
| | Diet low in vegetables | (0.203–0.630) | (0.182–0.502) | (142.1–434.2) | (82.4–229.3) | (-3.7–-0.5) |
| | | 0.755 | 0.454 | 522.0 | 213.5 | -2.7 |
| | Diet low in legumes | (-0.634–1.93) | (-0.375–1.18) | (-438.9–1338.7) | (-182.6–545.8) | (-3.5–-2.2) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.735 | 0.489 | 506.6 | 230.9 | -2.4 |
| | Diet low in whole grains | (0.311–1.20) | (0.197–0.803) | (216.6–830.8) | (94.4–375.0) | (-3.9–-0.7) |
| | | 1.26 | 0.655 | 873.5 | 309.0 | -3.1 |
| | Diet low in nuts and seeds | (0.398–1.98) | (0.175–1.10) | (276.1–1371.7) | (83.6–512.6) | (-3.8–-2.7) |
| | | 0.182 | 0.105 | 123.7 | 48.0 | |
| | Diet high in red meat | (-0.0542–0.328) | (-0.00892–0.209) | (-35.9–223.0) | (-23.6–96.9) | -- |
| | | 0.154 | 0.162 | 105.3 | 80.5 | -0.8 |
| | Diet high in processed meat | (-0.00491–0.346) | (-0.00326–0.351) | (-3.3–236.5) | (-3.5–176.3) | (-2.5–1.0) |
| | | 0.139 | 0.107 | 95.9 | 55.2 | -1.7 |
| | Diet high in sugar-sweetened beverages | (0.0423–0.319) | (0.0463–0.191) | (29.3–220.6) | (22.9–97.5) | (-4.0–1.6) |
| | | 0.198 | 0.168 | 141.2 | 79.9 | -1.7 |
| | Diet low in fiber | (0.0595–0.434) | (0.0506–0.371) | (43.1–308.4) | (23.8–176.3) | (-5.2–1.2) |
| | | 0.844 | 0.398 | 586.1 | 187.2 | -3.5 |
| | Diet low in seafood omega-3 fatty acids | (0.214–1.55) | (0.0984–0.780) | (149.3–1078.6) | (46.7–363.3) | (-5.0–-2.1) |
| | | 0.675 | 0.357 | 465.6 | 167.4 | -3.1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-2.09–2.58) | (-0.887–1.39) | (-1452.3–1784.9) | (-427.2–641.6) | (-3.8–-2.7) |
| | | 0.515 | 0.0863 | 355.7 | 41.5 | -6.5 |
| | Diet high in trans fatty acids | (0.0226–1.04) | (0.00445–0.173) | (15.6–714.6) | (2.2–83.4) | (-7.8–-5.3) |
| | | 2.16 | 1.50 | 1486.7 | 658.2 | -2.5 |
| | Diet high in sodium | (0.642–3.88) | (0.362–2.78) | (436.6–2661.1) | (155.7–1223.4) | (-4.6–-1.1) |
| | | 0.256 | 0.197 | 182.1 | 83.8 | -2.4 |
| | Low physical activity | (0.0838–0.441) | (0.0635–0.328) | (53.5–319.7) | (27.2–138.0) | (-2.8–-1.8) |
| | | 5.57 | 3.00 | 3901.6 | 1322.9 | -3.3 |
| | Environmental/occupational risks | (4.48–6.63) | (2.56–3.41) | (3143.0–4635.7) | (1128.7–1505.1) | (-3.7–-2.8) |
| | | 3.63 | 1.26 | 2537.1 | 558.7 | -4.6 |
| | Air pollution | (2.44–4.88) | (0.911–1.63) | (1709.5–3407.5) | (404.2–721.7) | (-5.4–-3.7) |
| | | 3.63 | 1.26 | 2537.1 | 558.7 | -4.6 |
| | Particulate matter pollution | (2.44–4.88) | (0.911–1.63) | (1709.5–3407.5) | (404.2–721.7) | (-5.4–-3.7) |
| | | 2.58 | 1.19 | 1802.2 | 526.9 | -3.7 |
| | Ambient particulate matter pollution | (1.55–3.83) | (0.895–1.51) | (1085.3–2674.2) | (397.3–671.3) | (-5.0–-2.4) |
| | | 1.05 | 0.0800 | 734.9 | 35.0 | -9.2 |
| | Household air pollution from solid fuels | (0.543–1.80) | (0.0104–0.299) | (379.3–1259.7) | (4.5–131.2) | (-14.0–-6.6) |
| | | 1.04 | 0.677 | 730.8 | 302.2 | -2.7 |
| | Non-optimal temperature | (0.973–1.16) | (0.618–0.772) | (683.3–818.4) | (276.9–345.0) | (-2.8–-2.6) |
| | | 0.0132 | 0.0244 | 9.3 | 11.0 | |
| | High temperature | (-0.000475–0.0553) | (0.00265–0.0787) | (-0.3–38.6) | (1.3–35.0) | -- |
| | | 1.03 | 0.654 | 722.3 | 292.0 | -2.7 |
| | Low temperature | (0.969–1.13) | (0.604–0.717) | (678.8–797.5) | (270.3–319.0) | (-2.9–-2.7) |
| | | 1.77 | 1.44 | 1243.5 | 624.1 | -2.1 |
| | Other environmental risks | (1.44–2.11) | (1.16–1.70) | (1018.3–1482.2) | (504.1–738.6) | (-2.3–-1.9) |
| | | 1.77 | 1.44 | 1243.5 | 624.1 | -2.1 |
| | Lead exposure | (1.44–2.11) | (1.16–1.70) | (1018.3–1482.2) | (504.1–738.6) | (-2.3–-1.9) |
| **Eastern Europe** | | | | | | |
| | | 27.4 | 24.0 | 10289.3 | 6751.1 | -1.3 |
| | All risk factors | (25.8–28.7) | (22.5–25.2) | (9657.8–10766.9) | (6334.9–7096.8) | (-1.4–-1.2) |
| | | 23.1 | 20.1 | 8637.8 | 5565.4 | -1.3 |
| | Metabolic risks | (20.9–25.0) | (18.2–21.8) | (7789.2–9385.2) | (5051.6–6049.6) | (-1.6–-1.1) |
| | | 1.88 | 2.02 | 719.7 | 545.5 | -0.8 |
| | High fasting plasma glucose | (1.31–2.57) | (1.49–2.77) | (501.0–996.5) | (402.1–746.2) | (-1.8–0.3) |
| | | 10.1 | 7.95 | 3749.4 | 2252.4 | -1.5 |
| | High LDL cholesterol | (6.37–14.0) | (5.18–10.9) | (2354.1–5197.7) | (1493.1–3046.2) | (-2.0–-1.0) |
| | | 17.4 | 15.3 | 6492.9 | 4217.3 | -1.3 |
| | High systolic blood pressure | (14.4–20.3) | (12.2–17.8) | (5342.9–7581.3) | (3335.6–4912.3) | (-1.9–-0.7) |
| | | 3.45 | 3.90 | 1240.5 | 1089.2 | -0.4 |
| | High body-mass index | (1.45–5.69) | (1.77–6.15) | (522.6–2054.8) | (494.3–1715.9) | (-1.1–0.2) |
| | | 3.60 | 3.22 | 1396.6 | 894.2 | -1.4 |
| | Kidney dysfunction | (2.68–4.61) | (2.38–4.18) | (1035.0–1783.6) | (658.1–1157.7) | (-1.5–-1.2) |
| | | 15.9 | 14.2 | 5889.8 | 4084.3 | -1.1 |
| | Behavioral risks | (8.33–19.5) | (7.75–17.7) | (3032.8–7246.9) | (2293.9–5006.0) | (-1.3–-0.8) |
| | | 6.58 | 5.75 | 2379.0 | 1655.3 | -1.1 |
| | Tobacco | (5.67–7.43) | (5.03–6.43) | (2048.3–2679.0) | (1454.4–1845.5) | (-1.4–-0.7) |
| | | 5.27 | 4.93 | 1877.6 | 1428.0 | -0.8 |
| | Smoking | (4.42–6.25) | (4.19–5.69) | (1578.5–2221.1) | (1218.9–1638.3) | (-1.3–-0.4) |
| | | 0.0107 | 0.00782 | 4.1 | 2.2 | -1.8 |
| | Chewing tobacco | (0.00340–0.0248) | (0.00243–0.0183) | (1.3–9.4) | (0.7–5.2) | (-4.9–-1.7) |
| | | 1.54 | 1.01 | 582.4 | 285.6 | -2.2 |
| | Secondhand smoke | (1.11–2.00) | (0.725–1.29) | (419.6–756.7) | (205.2–365.1) | (-2.8–-1.5) |
| | | 0.926 | 1.34 | 344.2 | 444.5 | 0.8 |
| | High alcohol use | (0.528–2.12) | (1.03–2.40) | (192.7–779.8) | (344.7–755.6) | (-0.1–2.0) |
| | | 11.1 | 9.29 | 4109.3 | 2620.5 | -1.4 |
| | Dietary risks | (1.36–15.5) | (1.35–13.7) | (479.3–5805.5) | (412.4–3792.7) | (-1.9–-0.9) |
| | | 2.36 | 1.73 | 874.4 | 505.9 | -1.7 |
| | Diet low in fruits | (0.561–3.98) | (0.460–2.96) | (207.5–1471.4) | (134.3–864.0) | (-2.9–-0.6) |
| | | 0.836 | 0.683 | 310.2 | 194.8 | -1.4 |
| | Diet low in vegetables | (0.393–1.37) | (0.341–1.15) | (147.4–510.5) | (97.8–325.1) | (-2.9–-0.1) |
| | | 1.90 | 1.67 | 709.7 | 475.8 | -1.2 |
| | Diet low in legumes | (-1.60–4.79) | (-1.51–4.18) | (-598.0–1793.5) | (-443.4–1183.1) | (-1.8–-0.7) |
| | | 1.80 | 1.66 | 666.5 | 477.1 | -1.0 |
| | Diet low in whole grains | (0.719–2.97) | (0.741–2.69) | (269.5–1103.1) | (215.6–768.9) | (-2.7–0.8) |
| | | 3.03 | 2.50 | 1131.8 | 715.4 | -1.4 |
| | Diet low in nuts and seeds | (0.946–4.78) | (0.692–4.08) | (353.7–1780.0) | (199.7–1162.8) | (-1.9–-1.0) |
| | | | 0.348 | | | |
| | | 0.609 | (- | | | |
| | | (0.00000000000000977– | 0.00000000000000107–0 | 221.9 | 96.8 | |
| | Diet high in red meat | 1.11) | .699) | (0.0–401.3) | (-2.4–196.4) | -- |
| | | 1.39 | 0.778 | 512.4 | 228.7 | -2.4 |
| | Diet high in processed meat | (-0.206–2.77) | (-0.0645–1.66) | (-75.1–1023.0) | (-21.1–487.2) | (-3.6–-1.4) |
| | | 0.0953 | 0.117 | 35.6 | 35.5 | 0.0 |
| | Diet high in sugar-sweetened beverages | (0.0287–0.226) | (0.0444–0.239) | (10.7–84.3) | (13.2–72.6) | (-2.9–4.1) |
| | | 0.464 | 0.406 | 180.4 | 120.8 | -1.2 |
| | Diet low in fiber | (0.0904–1.19) | (0.0638–1.08) | (36.5–456.3) | (19.0–315.6) | (-6.4–3.9) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 1.07 | 0.687 | 407.7 | 196.6 | -2.2 |
| | Diet low in seafood omega-3 fatty acids | (0.245–2.21) | (0.143–1.58) | (95.7–836.6) | (40.9–450.4) | (-5.3–0.2) |
| | | 1.59 | 1.31 | 591.2 | 374.5 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-4.81–6.08) | (-3.57–4.97) | (-1803.7–2270.3) | (-1027.4–1405.7) | (-1.9–-1.0) |
| | | 0.931 | 0.591 | 347.3 | 170.7 | -2.2 |
| | Diet high in trans fatty acids | (0.0398–1.90) | (0.0301–1.23) | (14.9–705.1) | (8.7–352.0) | (-3.5–-1.0) |
| | | 1.53 | 1.39 | 552.8 | 388.8 | -1.1 |
| | Diet high in sodium | (0.0365–4.70) | (0.0417–4.15) | (12.5–1719.7) | (12.8–1152.3) | (-5.8–5.0) |
| | | 0.534 | 0.444 | 205.4 | 120.1 | -1.6 |
| | Low physical activity | (0.169–0.893) | (0.132–0.731) | (57.7–351.0) | (35.9–197.4) | (-2.4–-0.9) |
| | | 11.5 | 7.74 | 4344.0 | 2146.3 | -2.1 |
| | Environmental/occupational risks | (8.80–14.0) | (6.73–8.73) | (3330.4–5273.1) | (1867.1–2419.5) | (-2.7–-1.6) |
| | | 7.13 | 2.36 | 2684.7 | 655.2 | -4.3 |
| | Air pollution | (3.96–10.0) | (1.60–3.20) | (1495.6–3778.7) | (444.1–888.6) | (-5.5–-3.0) |
| | | 7.13 | 2.36 | 2684.7 | 655.2 | -4.3 |
| | Particulate matter pollution | (3.96–10.0) | (1.60–3.20) | (1495.6–3778.7) | (444.1–888.6) | (-5.5–-3.0) |
| | | 6.59 | 2.29 | 2478.5 | 633.7 | -4.1 |
| | Ambient particulate matter pollution | (3.41–9.31) | (1.56–3.06) | (1286.6–3508.4) | (431.8–848.3) | (-5.4–-2.7) |
| | | 0.543 | 0.0807 | 206.2 | 22.2 | -6.8 |
| | Household air pollution from solid fuels | (0.230–1.11) | (0.0205–0.223) | (87.3–422.1) | (5.6–61.4) | (-9.5–-4.5) |
| | | 2.19 | 1.75 | 826.9 | 498.6 | -1.5 |
| | Non-optimal temperature | (2.04–2.39) | (1.63–1.96) | (771.7–902.7) | (463.7–555.3) | (-1.7–-1.4) |
| | | 0.0114 | 0.0385 | 4.3 | 10.9 | |
| | High temperature | (-0.00461–0.0590) | (0.00336–0.132) | (-1.7–22.2) | (0.9–36.3) | -- |
| | | 2.18 | 1.72 | 822.9 | 488.4 | -1.6 |
| | Low temperature | (2.04–2.35) | (1.60–1.87) | (770.9–887.3) | (455.3–530.9) | (-1.7–-1.4) |
| | | 3.93 | 4.48 | 1492.1 | 1226.4 | -0.6 |
| | Other environmental risks | (3.27–4.63) | (3.84–5.17) | (1236.5–1752.0) | (1045.6–1416.8) | (-0.8–-0.4) |
| | | 3.93 | 4.48 | 1492.1 | 1226.4 | -0.6 |
| | Lead exposure | (3.27–4.63) | (3.84–5.17) | (1236.5–1752.0) | (1045.6–1416.8) | (-0.8–-0.4) |
| **High-income** | | | | | | |
| | | 49.8 | 39.1 | 4184.2 | 1746.2 | -2.6 |
| | All risk factors | (46.3–52.5) | (34.7–42.7) | (3894.6–4404.6) | (1585.6–1893.8) | (-2.8–-2.5) |
| | | 42.7 | 34.1 | 3575.3 | 1502.7 | -2.6 |
| | Metabolic risks | (38.7–46.6) | (30.0–38.1) | (3242.0–3898.3) | (1342.4–1669.4) | (-2.8–-2.5) |
| | | 5.81 | 5.61 | 476.9 | 230.1 | -2.2 |
| | High fasting plasma glucose | (4.59–7.51) | (4.58–7.10) | (376.4–618.1) | (188.5–292.1) | (-2.9–-1.5) |
| | | 16.5 | 10.6 | 1416.2 | 511.4 | -3.1 |
| | High LDL cholesterol | (10.7–22.5) | (6.90–15.0) | (923.2–1910.1) | (347.2–698.8) | (-3.5–-2.8) |
| | | 31.9 | 24.7 | 2646.6 | 1063.2 | -2.8 |
| | High systolic blood pressure | (26.5–36.8) | (20.0–28.6) | (2191.3–3066.6) | (865.4–1230.0) | (-3.1–-2.4) |
| | | 6.42 | 7.78 | 548.2 | 383.7 | -1.1 |
| | High body-mass index | (3.07–10.0) | (4.27–11.1) | (262.4–855.3) | (212.3–538.4) | (-1.6–-0.5) |
| | | 5.84 | 4.72 | 485.3 | 190.5 | -2.8 |
| | Kidney dysfunction | (4.32–7.43) | (3.44–6.10) | (359.2–617.4) | (139.7–242.4) | (-3.0–-2.7) |
| | | 28.9 | 20.0 | 2458.8 | 966.9 | -2.8 |
| | Behavioral risks | (19.8–34.3) | (13.5–25.1) | (1698.6–2896.9) | (683.9–1168.1) | (-3.1–-2.6) |
| | | 13.9 | 7.72 | 1204.3 | 405.8 | -3.3 |
| | Tobacco | (12.1–15.9) | (6.43–9.13) | (1044.6–1374.3) | (339.6–477.4) | (-3.6–-3.0) |
| | | 12.1 | 6.70 | 1049.6 | 357.7 | -3.3 |
| | Smoking | (10.2–14.1) | (5.44–8.24) | (883.3–1217.9) | (294.2–431.8) | (-3.6–-2.9) |
| | | 0.0623 | 0.0601 | 5.3 | 2.9 | -1.8 |
| | Chewing tobacco | (0.0311–0.109) | (0.0308–0.108) | (2.6–9.2) | (1.4–5.2) | (-3.6–0.2) |
| | | 2.42 | 1.21 | 208.6 | 60.5 | -3.8 |
| | Secondhand smoke | (1.78–3.10) | (0.882–1.57) | (153.6–267.0) | (44.3–78.2) | (-4.4–-3.2) |
| | | 0.483 | 0.449 | 34.5 | 16.3 | |
| | High alcohol use | (-0.182–3.26) | (-0.208–2.37) | (-25.4–277.9) | (-20.6–124.5) | -- |
| | | 19.3 | 13.9 | 1646.7 | 665.4 | -2.7 |
| | Dietary risks | (8.98–26.2) | (6.52–19.7) | (779.2–2217.3) | (336.8–910.3) | (-3.1–-2.2) |
| | | 2.64 | 2.54 | 232.6 | 131.1 | -1.7 |
| | Diet low in fruits | (0.884–4.48) | (1.17–3.81) | (77.5–392.2) | (60.0–195.6) | (-2.8–-0.3) |
| | | 1.71 | 1.92 | 147.0 | 92.0 | -1.4 |
| | Diet low in vegetables | (0.960–2.46) | (1.33–2.56) | (82.6–211.1) | (63.2–123.2) | (-1.9–-0.8) |
| | | 2.47 | 1.78 | 212.3 | 87.1 | -2.7 |
| | Diet low in legumes | (-1.94–6.36) | (-1.53–4.72) | (-168.0–545.6) | (-77.6–229.3) | (-3.4–-2.0) |
| | | 4.28 | 2.91 | 369.5 | 145.6 | -2.8 |
| | Diet low in whole grains | (2.05–6.41) | (1.36–4.30) | (178.6–549.4) | (69.5–213.3) | (-3.4–-2.2) |
| | | 3.09 | 1.55 | 265.7 | 74.1 | -3.9 |
| | Diet low in nuts and seeds | (0.806–5.21) | (0.442–2.70) | (70.2–447.5) | (21.6–127.8) | (-4.6–-3.1) |
| | | | 0.699 | | | |
| | | 1.15 | (- | | | |
| | | (0.00000000000000650–1 | 0.000000000000000384–1 | 97.7 | 33.9 | |
| | Diet high in red meat | .60) | .02) | (0.0–137.3) | (-0.2–53.6) | -- |
| | | 1.82 | 1.63 | 159.8 | 86.0 | -1.9 |
| | Diet high in processed meat | (-0.270–4.00) | (-0.202–3.47) | (-25.2–352.9) | (-13.2–180.7) | (-3.0–-0.5) |
| | | 0.547 | 0.631 | 48.9 | 36.3 | -0.9 |
| | Diet high in sugar-sweetened beverages | (0.159–1.28) | (0.254–1.23) | (14.2–115.6) | (14.3–70.6) | (-3.7–2.9) |
| | | 1.87 | 1.19 | 162.4 | 59.0 | -3.1 |
| | Diet low in fiber | (0.728–3.58) | (0.449–2.17) | (63.1–312.0) | (21.7–109.3) | (-4.7–-1.1) |
| | | 2.02 | 1.07 | 174.2 | 53.2 | -3.6 |
| | Diet low in seafood omega-3 fatty acids | (0.490–4.11) | (0.246–2.29) | (42.4–352.3) | (12.3–113.0) | (-6.1–-1.4) |
| | | 1.62 | 0.811 | 139.4 | 38.8 | -3.9 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-4.32–6.27) | (-1.76–3.19) | (-375.0–537.0) | (-85.3–151.2) | (-4.9–-2.9) |
| | | 2.90 | 0.305 | 251.2 | 15.1 | -8.5 |
| | Diet high in trans fatty acids | (0.139–5.43) | (0.0160–0.600) | (12.1–467.6) | (0.8–29.5) | (-9.6–-7.6) |
| | | 2.84 | 2.53 | 238.7 | 115.3 | -2.2 |
| | Diet high in sodium | (0.295–8.26) | (0.110–7.18) | (25.1–688.9) | (5.4–323.5) | (-5.4–-0.6) |
| | | 1.17 | 0.830 | 96.0 | 34.7 | -3.1 |
| | Low physical activity | (0.378–1.96) | (0.256–1.47) | (31.4–161.1) | (12.0–58.1) | (-3.4–-2.6) |
| | | 17.2 | 9.93 | 1444.5 | 429.1 | -3.7 |
| | Environmental/occupational risks | (14.0–20.4) | (8.24–11.6) | (1176.6–1713.3) | (362.3–496.0) | (-4.1–-3.3) |
| | | 8.18 | 2.74 | 685.2 | 121.0 | -5.3 |
| | Air pollution | (4.77–11.5) | (1.70–3.89) | (400.9–962.5) | (75.3–172.3) | (-6.4–-4.1) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 8.18 | 2.74 | 685.2 | 121.0 | -5.3 |
| | Particulate matter pollution | (4.77–11.5) | (1.70–3.89) | (400.9–962.5) | (75.3–172.3) | (-6.4–-4.1) |
| | | 7.93 | 2.71 | 664.3 | 120.1 | -5.2 |
| | Ambient particulate matter pollution | (4.58–11.2) | (1.70–3.85) | (384.6–938.5) | (74.8–171.1) | (-6.3–-3.9) |
| | | 0.247 | 0.0211 | 20.9 | 0.9 | -9.5 |
| | Household air pollution from solid fuels | (0.115–0.514) | (0.0000821–0.183) | (9.7–43.3) | (0.0–7.9) | (-24.9–-4.4) |
| | | 3.97 | 2.84 | 335.9 | 126.8 | -3.0 |
| | Non-optimal temperature | (3.61–4.57) | (2.48–3.30) | (305.1–386.8) | (113.3–146.8) | (-3.1–-2.8) |
| | | 0.121 | 0.181 | 10.4 | 8.7 | -0.6 |
| | High temperature | (0.0140–0.376) | (0.0431–0.454) | (1.3–31.8) | (2.4–20.9) | (-1.3–2.2) |
| | | 3.86 | 2.67 | 326.3 | 118.7 | -3.1 |
| | Low temperature | (3.57–4.23) | (2.37–2.93) | (301.3–357.9) | (107.3–128.7) | (-3.2–-2.9) |
| | | 7.30 | 5.23 | 609.3 | 218.1 | -3.1 |
| | Other environmental risks | (6.06–8.64) | (4.15–6.27) | (505.4–721.1) | (174.5–262.1) | (-3.3–-2.9) |
| | | 7.30 | 5.23 | 609.3 | 218.1 | -3.1 |
| | Lead exposure | (6.06–8.64) | (4.15–6.27) | (505.4–721.1) | (174.5–262.1) | (-3.3–-2.9) |
| **Australasia** | | | | | | |
| | | 1.01 | 0.713 | 4359.5 | 1224.4 | -3.8 |
| | All risk factors | (0.941–1.07) | (0.629–0.791) | (4056.7–4614.7) | (1087.6–1348.6) | (-4.0–-3.7) |
| | | 0.873 | 0.620 | 3773.9 | 1053.3 | -3.9 |
| | Metabolic risks | (0.791–0.946) | (0.539–0.700) | (3408.5–4094.0) | (923.1–1182.6) | (-4.1–-3.7) |
| | | 0.0884 | 0.100 | 380.2 | 158.4 | -2.7 |
| | High fasting plasma glucose | (0.0668–0.116) | (0.0813–0.123) | (287.3–497.9) | (129.0–196.9) | (-3.5–-1.8) |
| | | 0.386 | 0.222 | 1684.5 | 407.1 | -4.3 |
| | High LDL cholesterol | (0.260–0.521) | (0.148–0.309) | (1140.6–2268.5) | (281.0–551.9) | (-4.7–-4.0) |
| | | 0.644 | 0.438 | 2770.1 | 731.9 | -4.0 |
| | High systolic blood pressure | (0.537–0.740) | (0.341–0.524) | (2307.4–3178.2) | (572.2–877.4) | (-4.3–-3.8) |
| | | 0.140 | 0.135 | 597.7 | 249.4 | -2.6 |
| | High body-mass index | (0.0646–0.224) | (0.0674–0.205) | (277.1–959.4) | (125.8–374.3) | (-3.3–-2.0) |
| | | 0.110 | 0.0786 | 478.8 | 120.9 | -4.2 |
| | Kidney dysfunction | (0.0805–0.144) | (0.0565–0.104) | (350.0–627.3) | (87.0–159.1) | (-4.4–-4.0) |
| | | 0.615 | 0.356 | 2649.6 | 653.1 | -4.2 |
| | Behavioral risks | (0.354–0.760) | (0.189–0.467) | (1522.9–3272.7) | (369.6–837.9) | (-4.6–-4.0) |
| | | 0.279 | 0.118 | 1197.7 | 236.5 | -4.9 |
| | Tobacco | (0.238–0.322) | (0.0963–0.141) | (1022.8–1379.0) | (192.6–281.8) | (-5.3–-4.6) |
| | | 0.243 | 0.101 | 1041.6 | 205.3 | -4.9 |
| | Smoking | (0.205–0.281) | (0.0818–0.125) | (882.0–1199.5) | (165.6–252.9) | (-5.4–-4.5) |
| | | 0.000567 | 0.000548 | 2.5 | 0.9 | -2.9 |
| | Chewing tobacco | (0.000183–0.00131) | (0.000177–0.00129) | (0.8–5.7) | (0.3–2.2) | (-6.0–0.5) |
| | | 0.0482 | 0.0197 | 210.8 | 38.4 | -5.2 |
| | Secondhand smoke | (0.0354–0.0616) | (0.0143–0.0250) | (155.1–268.8) | (28.1–48.6) | (-5.6–-4.7) |
| | | 0.00665 | 0.00514 | 24.0 | 4.5 | |
| | High alcohol use | (-0.0141–0.0830) | (-0.0122–0.0540) | (-67.7–351.8) | (-34.0–104.0) | -- |
| | | 0.434 | 0.257 | 1881.9 | 467.4 | -4.2 |
| | Dietary risks | (0.114–0.628) | (0.0762–0.378) | (498.5–2713.1) | (148.5–669.0) | (-4.6–-3.7) |
| | | 0.0614 | 0.0411 | 268.2 | 79.1 | -3.7 |
| | Diet low in fruits | (0.0165–0.108) | (0.0128–0.0693) | (72.5–469.7) | (23.8–132.4) | (-5.0–-2.5) |
| | | 0.0389 | 0.0273 | 169.4 | 49.5 | -3.7 |
| | Diet low in vegetables | (0.0212–0.0582) | (0.0167–0.0403) | (92.3–252.7) | (30.0–73.2) | (-4.3–-3.1) |
| | | 0.0467 | 0.0343 | 203.5 | 63.5 | -3.5 |
| | Diet low in legumes | (-0.0366–0.128) | (-0.0263–0.0898) | (-159.7–555.5) | (-48.5–164.6) | (-4.7–-2.5) |
| | | 0.115 | 0.0694 | 499.7 | 131.1 | -4.1 |
| | Diet low in whole grains | (0.0603–0.166) | (0.0357–0.105) | (264.4–719.3) | (67.5–196.8) | (-4.8–-3.5) |
| | | 0.0782 | 0.0282 | 341.0 | 51.8 | -5.7 |
| | Diet low in nuts and seeds | (0.0204–0.136) | (0.00572–0.0596) | (89.3–591.3) | (10.4–109.9) | (-8.4–-4.0) |
| | | 0.0439 | 0.0206 | | | |
| | | (0.00000000000000619–0 | (0.0000000000000000391 | 190.7 | 38.5 | -4.9 |
| | Diet high in red meat | .0659) | –0.0278) | (0.0–285.2) | (0.0–52.4) | (-7.5–-0.7) |
| | | 0.0183 | 0.0174 | 80.3 | 35.7 | -2.5 |
| | Diet high in processed meat | (-0.00232–0.0433) | (-0.00133–0.0404) | (-10.4–191.2) | (-3.5–82.2) | (-4.5–-0.1) |
| | | 0.0167 | 0.00958 | 73.9 | 20.2 | -3.9 |
| | Diet high in sugar-sweetened beverages | (0.00490–0.0381) | (0.00320–0.0197) | (21.6–167.9) | (6.7–41.6) | (-6.8–0.1) |
| | | 0.0475 | 0.0264 | 208.1 | 49.9 | -4.3 |
| | Diet low in fiber | (0.0180–0.0942) | (0.00671–0.0579) | (78.7–411.3) | (12.5–109.2) | (-7.6–-1.6) |
| | | 0.0461 | 0.0152 | 201.8 | 27.7 | -6.0 |
| | Diet low in seafood omega-3 fatty acids | (0.0117–0.0968) | (0.00221–0.0380) | (51.1–421.7) | (3.9–68.9) | (-10.5–-3.0) |
| | | 0.0687 | 0.0385 | 298.5 | 71.7 | -4.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.207–0.264) | (-0.104–0.146) | (-909.8–1148.1) | (-197.2–265.8) | (-4.8–-4.0) |
| | | 0.0809 | 0.0402 | 353.0 | 76.1 | -4.7 |
| | Diet high in trans fatty acids | (0.00381–0.153) | (0.00216–0.0779) | (16.7–664.4) | (4.2–144.8) | (-5.6–-3.8) |
| | | 0.0268 | 0.0202 | 117.2 | 37.0 | -3.5 |
| | Diet high in sodium | (0.0000605–0.118) | (0.0000875–0.0872) | (0.3–512.3) | (0.2–150.0) | (-6.9–4.0) |
| | | 0.0279 | 0.0200 | 120.6 | 33.3 | -3.9 |
| | Low physical activity | (0.00947–0.0461) | (0.00600–0.0378) | (41.6–202.3) | (11.7–60.0) | (-4.7–-3.0) |
| | | 0.297 | 0.194 | 1282.0 | 322.4 | -4.2 |
| | Environmental/occupational risks | (0.245–0.372) | (0.160–0.227) | (1058.2–1607.3) | (271.1–375.2) | (-4.8–-3.8) |
| | | 0.0478 | 0.0298 | 206.1 | 50.9 | -4.2 |
| | Air pollution | (0.00154–0.130) | (0.0153–0.0471) | (6.6–563.0) | (26.3–80.6) | (-7.6–5.0) |
| | | 0.0478 | 0.0298 | 206.1 | 50.9 | -4.2 |
| | Particulate matter pollution | (0.00154–0.130) | (0.0153–0.0471) | (6.6–563.0) | (26.3–80.6) | (-7.6–5.0) |
| | | 0.0458 | 0.0294 | 197.7 | 50.2 | -4.2 |
| | Ambient particulate matter pollution | (0.00152–0.127) | (0.0152–0.0465) | (6.5–547.4) | (25.8–79.8) | (-7.6–5.2) |
| | | 0.00193 | 0.000392 | 8.4 | 0.7 | -7.7 |
| | Household air pollution from solid fuels | (0.0000240–0.00898) | (0.000000405–0.00327) | (0.1–39.0) | (0.0–5.6) | (-23.6–-3.0) |
| | | 0.0795 | 0.0483 | 344.9 | 82.7 | -4.3 |
| | Non-optimal temperature | (0.0731–0.0897) | (0.0422–0.0545) | (316.3–388.5) | (73.6–92.8) | (-4.5–-4.2) |
| | | 0.00160 | 0.000843 | 7.0 | 1.5 | -4.7 |
| | High temperature | (0.000336–0.00486) | (0.00000591–0.00262) | (1.5–21.0) | (0.0–4.5) | (-8.3–-3.4) |
| | | 0.0781 | 0.0475 | 338.4 | 81.3 | -4.3 |
| | Low temperature | (0.0720–0.0877) | (0.0417–0.0539) | (311.4–380.2) | (72.6–91.8) | (-4.5–-4.2) |
| | | 0.197 | 0.131 | 846.7 | 214.1 | -4.2 |
| | Other environmental risks | (0.164–0.228) | (0.106–0.157) | (707.0–984.8) | (175.9–257.1) | (-4.4–-3.9) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.197 | 0.131 | 846.7 | 214.1 | -4.2 |
| | Lead exposure | (0.164–0.228) | (0.106–0.157) | (707.0–984.8) | (175.9–257.1) | (-4.4–-3.9) |
| **High-income Asia Pacific** | | | | | | |
| | | 6.17 | 5.80 | 3218.4 | 1198.3 | -3.0 |
| | All risk factors | (5.72–6.64) | (4.90–6.48) | (2961.9–3476.5) | (1055.1–1314.9) | (-3.2–-2.8) |
| | | 5.33 | 4.96 | 2789.1 | 996.3 | -3.1 |
| | Metabolic risks | (4.74–5.91) | (4.10–5.66) | (2477.0–3103.0) | (845.9–1129.0) | (-3.4–-2.9) |
| | | 0.718 | 0.835 | 387.8 | 147.6 | -2.9 |
| | High fasting plasma glucose | (0.524–1.01) | (0.621–1.14) | (283.6–543.7) | (112.7–203.4) | (-4.1–-1.9) |
| | | 1.47 | 1.42 | 764.3 | 322.1 | -2.6 |
| | High LDL cholesterol | (0.823–2.10) | (0.805–2.10) | (421.4–1101.2) | (208.4–446.0) | (-3.0–-2.2) |
| | | 4.36 | 3.69 | 2278.6 | 726.9 | -3.5 |
| | High systolic blood pressure | (3.55–5.04) | (2.82–4.46) | (1862.2–2630.9) | (555.3–880.1) | (-3.9–-3.1) |
| | | 0.286 | 0.421 | 144.6 | 104.3 | -1.0 |
| | High body-mass index | (0.151–0.454) | (0.219–0.694) | (76.6–228.6) | (50.8–170.8) | (-2.1–0.0) |
| | | 0.776 | 0.834 | 412.7 | 153.2 | -3.0 |
| | Kidney dysfunction | (0.566–1.02) | (0.567–1.13) | (297.4–548.0) | (108.9–202.2) | (-3.3–-2.8) |
| | | 3.50 | 2.91 | 1778.9 | 672.6 | -2.9 |
| | Behavioral risks | (2.67–4.19) | (2.00–3.68) | (1334.5–2141.9) | (504.3–819.6) | (-3.3–-2.7) |
| | | 1.81 | 1.17 | 891.2 | 319.1 | -3.1 |
| | Tobacco | (1.57–2.03) | (0.983–1.40) | (775.1–999.1) | (273.5–371.3) | (-3.5–-2.8) |
| | | 1.47 | 0.971 | 715.0 | 276.2 | -2.9 |
| | Smoking | (1.26–1.68) | (0.790–1.21) | (610.5–818.2) | (228.6–336.8) | (-3.3–-2.5) |
| | | 0.0104 | 0.00987 | 5.4 | 2.2 | -2.7 |
| | Chewing tobacco | (0.00339–0.0248) | (0.00322–0.0232) | (1.7–12.8) | (0.7–5.2) | (-5.9–0.8) |
| | | 0.404 | 0.232 | 209.8 | 52.4 | -4.2 |
| | Secondhand smoke | (0.286–0.523) | (0.161–0.306) | (148.6–272.4) | (36.9–69.8) | (-4.9–-3.5) |
| | | 0.0900 | 0.0523 | 46.8 | 8.7 | |
| | High alcohol use | (-0.0290–0.265) | (-0.0228–0.175) | (-12.5–133.2) | (-15.5–48.7) | -- |
| | | 2.16 | 1.98 | 1110.7 | 434.3 | -2.8 |
| | Dietary risks | (0.963–3.06) | (0.925–2.93) | (490.3–1581.9) | (224.8–608.9) | (-3.3–-2.3) |
| | | 0.463 | 0.454 | 236.7 | 111.9 | -2.3 |
| | Diet low in fruits | (0.127–0.752) | (0.172–0.739) | (68.1–383.8) | (36.2–182.1) | (-2.8–-1.6) |
| | | 0.124 | 0.161 | 67.3 | 32.3 | -2.2 |
| | Diet low in vegetables | (0.0582–0.195) | (0.101–0.235) | (32.8–105.8) | (19.6–48.6) | (-3.7–-0.8) |
| | | 0.0785 | 0.110 | 41.0 | 25.9 | -1.4 |
| | Diet low in legumes | (-0.0605–0.218) | (-0.0826–0.291) | (-31.6–114.1) | (-20.9–65.7) | (-2.3–-0.5) |
| | | 0.392 | 0.421 | 200.4 | 102.5 | -2.0 |
| | Diet low in whole grains | (0.120–0.643) | (0.173–0.676) | (62.2–333.1) | (42.2–159.6) | (-2.7–-1.0) |
| | | 0.292 | 0.298 | 150.5 | 70.4 | -2.3 |
| | Diet low in nuts and seeds | (0.0836–0.473) | (0.0852–0.512) | (42.8–244.7) | (21.1–118.3) | (-2.9–-1.7) |
| | | -0.0991 | -0.0202 | -48.8 | -9.9 | |
| | Diet high in red meat | (-0.519–0.202) | (-0.267–0.144) | (-255.2–99.2) | (-94.6–48.5) | -- |
| | | 0.0468 | 0.106 | 24.4 | 27.1 | 0.3 |
| | Diet high in processed meat | (0.00380–0.0989) | (0.00135–0.228) | (2.2–50.8) | (-2.3–58.9) | (-1.6–4.6) |
| | | 0.0346 | 0.0377 | 17.6 | 10.5 | -1.6 |
| | Diet high in sugar-sweetened beverages | (0.0110–0.0781) | (0.0142–0.0775) | (5.6–39.6) | (3.9–21.6) | (-4.9–2.5) |
| | | 0.314 | 0.339 | 161.9 | 85.9 | -1.9 |
| | Diet low in fiber | (0.0631–0.586) | (0.110–0.605) | (34.1–300.8) | (24.5–147.7) | (-3.1–-0.4) |
| | | 0.0195 | 0.0112 | 10.5 | 2.0 | -5.0 |
| | Diet low in seafood omega-3 fatty acids | (0.00200–0.0614) | (0.000958–0.0386) | (1.1–33.2) | (0.1–7.2) | (-9.8–1.0) |
| | | 0.170 | 0.125 | 87.2 | 28.9 | -3.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.485–0.652) | (-0.247–0.502) | (-249.6–335.6) | (-57.2–116.1) | (-4.8–-2.3) |
| | | 0.137 | 0.128 | 69.6 | 31.7 | -2.4 |
| | Diet high in trans fatty acids | (0.00616–0.272) | (0.00668–0.254) | (3.1–138.9) | (1.7–61.8) | (-3.6–-1.3) |
| | | 1.06 | 0.679 | 536.8 | 138.3 | -4.1 |
| | Diet high in sodium | (0.278–1.99) | (0.0706–1.53) | (136.5–1021.5) | (16.4–313.6) | (-7.0–-3.3) |
| | | 0.153 | 0.132 | 78.6 | 28.2 | -3.1 |
| | Low physical activity | (0.0507–0.266) | (0.0342–0.245) | (23.5–144.4) | (10.0–46.5) | (-4.1–-2.0) |
| | | 1.80 | 1.65 | 943.6 | 333.2 | -3.2 |
| | Environmental/occupational risks | (1.31–2.44) | (1.33–1.95) | (687.6–1275.2) | (273.8–392.2) | (-3.9–-2.3) |
| | | 0.840 | 0.711 | 435.3 | 150.5 | -3.2 |
| | Air pollution | (0.264–1.56) | (0.493–0.953) | (135.4–806.3) | (104.3–199.5) | (-4.9–0.1) |
| | | 0.840 | 0.711 | 435.3 | 150.5 | -3.2 |
| | Particulate matter pollution | (0.264–1.56) | (0.493–0.953) | (135.4–806.3) | (104.3–199.5) | (-4.9–0.1) |
| | | 0.812 | 0.708 | 420.6 | 149.8 | -3.1 |
| | Ambient particulate matter pollution | (0.226–1.53) | (0.493–0.945) | (116.4–789.2) | (104.3–198.2) | (-4.9–0.4) |
| | | 0.0288 | 0.00342 | 14.7 | 0.7 | -9.3 |
| | Household air pollution from solid fuels | (0.00839–0.0770) | (0.00000253–0.0297) | (4.3–39.2) | (0.0–5.9) | (-31.0–-3.4) |
| | | 0.551 | 0.441 | 290.8 | 89.1 | -3.6 |
| | Non-optimal temperature | (0.489–0.631) | (0.362–0.524) | (258.3–334.8) | (76.1–105.3) | (-3.8–-3.4) |
| | | 0.0211 | 0.0291 | 11.2 | 6.2 | -1.8 |
| | High temperature | (0.00152–0.0617) | (0.00470–0.0768) | (0.9–32.4) | (1.2–15.9) | (-3.0–1.6) |
| | | 0.531 | 0.414 | 280.5 | 83.4 | -3.7 |
| | Low temperature | (0.486–0.588) | (0.343–0.464) | (253.6–310.3) | (72.8–92.0) | (-3.9–-3.5) |
| | | 0.596 | 0.672 | 313.3 | 126.6 | -2.7 |
| | Other environmental risks | (0.430–0.787) | (0.499–0.857) | (227.0–414.2) | (95.8–161.0) | (-3.0–-2.5) |
| | | 0.596 | 0.672 | 313.3 | 126.6 | -2.7 |
| | Lead exposure | (0.430–0.787) | (0.499–0.857) | (227.0–414.2) | (95.8–161.0) | (-3.0–-2.5) |
| **High-income North America** | | | | | | |
| | | 15.5 | 15.1 | 4459.1 | 2356.5 | -1.9 |
| | All risk factors | (14.3–16.4) | (13.6–16.4) | (4143.6–4722.7) | (2145.6–2549.1) | (-2.1–-1.8) |
| | | 12.9 | 13.0 | 3701.0 | 2024.6 | -1.8 |
| | Metabolic risks | (11.6–14.2) | (11.6–14.5) | (3342.9–4075.8) | (1815.5–2246.2) | (-2.0–-1.6) |
| | | 1.81 | 2.38 | 502.5 | 345.5 | -1.1 |
| | High fasting plasma glucose | (1.46–2.23) | (1.96–2.95) | (405.2–623.8) | (285.3–431.9) | (-1.7–-0.5) |
| | | 5.24 | 4.16 | 1562.9 | 690.4 | -2.5 |
| | High LDL cholesterol | (3.52–7.05) | (2.78–5.90) | (1064.0–2074.1) | (473.2–948.4) | (-3.0–-2.1) |
| | | 8.69 | 8.76 | 2457.4 | 1338.7 | -1.8 |
| | High systolic blood pressure | (6.77–10.3) | (7.16–10.1) | (1905.0–2918.8) | (1092.3–1547.1) | (-2.2–-1.4) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 2.45 | 3.94 | 729.9 | 659.7 | -0.3 |
| | High body-mass index | (1.23–3.65) | (2.26–5.44) | (370.1–1086.1) | (389.6–900.7) | (-0.7–0.3) |
| | | 2.08 | 1.91 | 580.6 | 275.0 | -2.3 |
| | Kidney dysfunction | (1.54–2.71) | (1.42–2.46) | (428.6–752.3) | (206.6–351.2) | (-2.4–-2.1) |
| | | 9.48 | 8.25 | 2788.2 | 1355.6 | -2.2 |
| | Behavioral risks | (7.06–11.3) | (6.08–9.95) | (2098.3–3286.6) | (1026.5–1606.7) | (-2.5–-1.9) |
| | | 4.49 | 3.23 | 1351.8 | 545.9 | -2.7 |
| | Tobacco | (3.87–5.16) | (2.68–3.84) | (1170.7–1541.0) | (453.3–648.3) | (-3.1–-2.4) |
| | | 3.97 | 2.88 | 1197.7 | 488.4 | -2.7 |
| | Smoking | (3.38–4.65) | (2.33–3.52) | (1017.0–1392.4) | (395.9–591.0) | (-3.1–-2.3) |
| | | 0.0442 | 0.0433 | 12.5 | 7.0 | -1.8 |
| | Chewing tobacco | (0.0241–0.0741) | (0.0223–0.0714) | (6.8–21.0) | (3.6–11.7) | (-3.2–-0.2) |
| | | 0.701 | 0.413 | 211.4 | 70.0 | -3.3 |
| | Secondhand smoke | (0.524–0.875) | (0.307–0.527) | (158.5–263.6) | (52.3–89.7) | (-3.9–-2.8) |
| | | 0.144 | 0.276 | 37.6 | 44.5 | |
| | High alcohol use | (-0.0385–0.957) | (0.0484–1.06) | (-22.4–285.0) | (2.0–183.8) | -- |
| | | 6.64 | 5.77 | 1958.5 | 952.3 | -2.2 |
| | Dietary risks | (3.85–9.04) | (3.15–7.75) | (1149.6–2639.5) | (545.4–1256.7) | (-2.7–-1.6) |
| | | 0.922 | 1.15 | 280.3 | 204.3 | -1.0 |
| | Diet low in fruits | (0.333–1.56) | (0.609–1.69) | (102.3–474.5) | (109.9–298.7) | (-2.0–0.8) |
| | | 0.535 | 0.904 | 159.1 | 154.7 | -0.1 |
| | Diet low in vegetables | (0.313–0.775) | (0.591–1.25) | (94.0–229.9) | (102.1–211.4) | (-1.0–0.8) |
| | | 0.802 | 0.776 | 237.8 | 127.5 | -1.9 |
| | Diet low in legumes | (-0.629–2.05) | (-0.738–1.92) | (-186.9–604.3) | (-125.0–308.7) | (-2.6–-1.2) |
| | | 1.58 | 1.21 | 470.9 | 202.7 | -2.6 |
| | Diet low in whole grains | (0.824–2.35) | (0.581–1.84) | (245.8–697.0) | (96.2–305.4) | (-3.4–-1.8) |
| | | 0.664 | 0.265 | 196.0 | 42.8 | -4.6 |
| | Diet low in nuts and seeds | (0.161–1.29) | (0.0688–0.517) | (47.6–382.3) | (11.0–85.8) | (-6.8–-2.2) |
| | | 0.541 | 0.388 | | | |
| | | (0.0000000000000000878 | (0.000000000000000216– | 163.6 | 64.6 | -2.8 |
| | Diet high in red meat | –0.818) | 0.585) | (0.0–244.1) | (0.0–96.7) | (-4.8–1.8) |
| | | 0.874 | 0.933 | 266.5 | 159.5 | -1.6 |
| | Diet high in processed meat | (-0.180–1.88) | (-0.144–1.95) | (-57.1–573.1) | (-27.8–332.9) | (-2.4–-0.7) |
| | | 0.222 | 0.370 | 68.4 | 68.5 | 0.0 |
| | Diet high in sugar-sweetened beverages | (0.0642–0.524) | (0.149–0.711) | (19.7–162.3) | (27.3–131.5) | (-2.6–3.5) |
| | | 0.689 | 0.380 | 203.6 | 63.8 | -3.5 |
| | Diet low in fiber | (0.312–1.20) | (0.150–0.637) | (91.3–357.3) | (25.3–105.3) | (-4.6–-2.1) |
| | | 0.879 | 0.599 | 260.6 | 100.4 | -2.9 |
| | Diet low in seafood omega-3 fatty acids | (0.203–1.78) | (0.140–1.24) | (60.4–525.4) | (23.6–206.6) | (-5.3–-1.0) |
| | | 0.286 | 0.0827 | 85.0 | 13.3 | -5.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.646–1.18) | (-0.228–0.310) | (-192.2–348.7) | (-36.9–49.6) | (-6.7–-3.9) |
| | | 1.48 | 0.000126 | 443.5 | 0.0 | -30.2 |
| | Diet high in trans fatty acids | (0.0757–2.78) | (0.00000659–0.000241) | (22.8–822.7) | (0.0–0.0) | (-31.2–-29.4) |
| | | 0.504 | 0.909 | 144.4 | 145.3 | 0.0 |
| | Diet high in sodium | (0.000260–1.91) | (0.0150–2.76) | (0.1–542.7) | (2.8–431.5) | (-1.2–13.6) |
| | | 0.261 | 0.266 | 72.1 | 39.0 | -1.9 |
| | Low physical activity | (0.0863–0.442) | (0.0850–0.475) | (24.5–122.0) | (13.4–67.4) | (-2.9–-0.8) |
| | | 5.06 | 3.21 | 1452.0 | 488.5 | -3.3 |
| | Environmental/occupational risks | (3.89–6.20) | (2.68–3.74) | (1118.0–1778.2) | (405.0–568.9) | (-3.9–-2.7) |
| | | 2.17 | 0.624 | 621.4 | 96.0 | -5.7 |
| | Air pollution | (0.856–3.56) | (0.316–0.978) | (245.8–1020.3) | (48.7–150.8) | (-8.1–-3.3) |
| | | 2.17 | 0.624 | 621.4 | 96.0 | -5.7 |
| | Particulate matter pollution | (0.856–3.56) | (0.316–0.978) | (245.8–1020.3) | (48.7–150.8) | (-8.1–-3.3) |
| | | 2.16 | 0.620 | 620.2 | 95.4 | -5.7 |
| | Ambient particulate matter pollution | (0.855–3.55) | (0.315–0.977) | (245.5–1018.9) | (48.6–150.5) | (-8.1–-3.3) |
| | | 0.00409 | 0.00349 | 1.2 | 0.5 | -2.4 |
| | Household air pollution from solid fuels | (0.000128–0.0342) | (0.00000394–0.0281) | (0.0–9.8) | (0.0–4.3) | (-14.7–-1.1) |
| | | 1.21 | 1.14 | 350.7 | 180.5 | -2.0 |
| | Non-optimal temperature | (1.07–1.52) | (0.990–1.39) | (310.8–437.6) | (158.5–217.0) | (-2.2–-1.8) |
| | | 0.0753 | 0.117 | 21.9 | 18.9 | -0.4 |
| | High temperature | (0.00878–0.241) | (0.0330–0.272) | (2.7–69.6) | (5.8–42.7) | (-1.5–2.8) |
| | | 1.14 | 1.03 | 330.4 | 162.8 | -2.1 |
| | Low temperature | (1.04–1.30) | (0.933–1.14) | (300.7–374.7) | (148.3–179.0) | (-2.3–-2.0) |
| | | 2.29 | 1.67 | 653.5 | 244.7 | -3.0 |
| | Other environmental risks | (1.91–2.70) | (1.34–2.00) | (545.4–767.4) | (196.3–295.3) | (-3.3–-2.7) |
| | | 2.29 | 1.67 | 653.5 | 244.7 | -3.0 |
| | Lead exposure | (1.91–2.70) | (1.34–2.00) | (545.4–767.4) | (196.3–295.3) | (-3.3–-2.7) |
| **Southern Latin America** | | | | | | |
| | | 2.22 | 1.97 | 4955.0 | 2081.2 | -2.6 |
| | All risk factors | (2.08–2.37) | (1.83–2.13) | (4607.8–5287.8) | (1934.2–2244.3) | (-2.8–-2.4) |
| | | 1.78 | 1.71 | 3986.9 | 1803.0 | -2.4 |
| | Metabolic risks | (1.50–2.04) | (1.53–1.90) | (3374.9–4563.1) | (1613.0–2004.6) | (-2.7–-2.0) |
| | | 0.198 | 0.199 | 453.9 | 204.6 | -2.4 |
| | High fasting plasma glucose | (0.156–0.256) | (0.164–0.254) | (357.9–584.3) | (167.9–261.0) | (-3.1–-1.7) |
| | | 0.606 | 0.508 | 1341.9 | 553.7 | -2.7 |
| | High LDL cholesterol | (0.392–0.810) | (0.341–0.704) | (861.4–1810.1) | (376.5–756.3) | (-3.2–-2.2) |
| | | 1.27 | 1.32 | 2873.3 | 1375.7 | -2.2 |
| | High systolic blood pressure | (0.895–1.63) | (1.08–1.55) | (2036.3–3647.3) | (1114.8–1615.6) | (-3.0–-1.3) |
| | | 0.355 | 0.470 | 773.4 | 506.4 | -1.3 |
| | High body-mass index | (0.164–0.579) | (0.256–0.695) | (353.6–1260.6) | (274.0–750.7) | (-2.0–-0.4) |
| | | 0.202 | 0.179 | 458.3 | 185.8 | -2.7 |
| | Kidney dysfunction | (0.138–0.282) | (0.119–0.247) | (314.8–636.9) | (123.6–256.8) | (-2.9–-2.6) |
| | | 1.31 | 1.04 | 2887.8 | 1123.8 | -2.9 |
| | Behavioral risks | (0.802–1.60) | (0.682–1.28) | (1730.0–3520.7) | (749.8–1374.1) | (-3.2–-2.5) |
| | | 0.599 | 0.384 | 1286.7 | 434.2 | -3.3 |
| | Tobacco | (0.480–0.716) | (0.325–0.460) | (1033.9–1537.9) | (367.3–517.9) | (-4.0–-2.7) |
| | | 0.474 | 0.300 | 1007.6 | 344.0 | -3.3 |
| | Smoking | (0.363–0.600) | (0.233–0.379) | (769.8–1273.3) | (268.6–433.5) | (-4.2–-2.4) |
| | | 0.000857 | 0.000608 | 1.9 | 0.7 | -3.2 |
| | Chewing tobacco | (0.000269–0.00200) | (0.000192–0.00143) | (0.6–4.4) | (0.2–1.6) | (-6.4–0.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.160 | 0.102 | 353.8 | 111.2 | -3.5 |
| | Secondhand smoke | (0.116–0.203) | (0.0760–0.131) | (256.7–449.8) | (82.8–142.3) | (-4.1–-3.0) |
| | | 0.0284 | 0.00507 | 62.6 | 1.3 | |
| | High alcohol use | (-0.0312–0.157) | (-0.0378–0.110) | (-64.6–338.8) | (-48.3–120.5) | -- |
| | | 0.898 | 0.780 | 1989.2 | 834.4 | -2.6 |
| | Dietary risks | (0.319–1.24) | (0.400–1.05) | (692.4–2756.4) | (435.2–1121.3) | (-3.0–-1.8) |
| | | 0.127 | 0.136 | 276.6 | 148.9 | -1.9 |
| | Diet low in fruits | (0.0487–0.215) | (0.0577–0.211) | (108.1–466.7) | (60.9–229.8) | (-3.1–-0.6) |
| | | 0.135 | 0.120 | 298.3 | 126.7 | -2.6 |
| | Diet low in vegetables | (0.0825–0.190) | (0.0848–0.165) | (184.9–421.7) | (89.1–175.5) | (-3.3–-1.9) |
| | | 0.134 | 0.101 | 295.1 | 109.8 | -3.0 |
| | Diet low in legumes | (-0.110–0.339) | (-0.0830–0.260) | (-241.3–750.0) | (-92.2–282.1) | (-3.7–-2.4) |
| | | 0.169 | 0.124 | 369.9 | 136.9 | -3.0 |
| | Diet low in whole grains | (0.0802–0.252) | (0.0550–0.194) | (177.0–554.9) | (61.0–212.8) | (-4.2–-1.9) |
| | | 0.247 | 0.185 | 542.8 | 202.4 | -3.0 |
| | Diet low in nuts and seeds | (0.0765–0.385) | (0.0549–0.303) | (168.9–847.6) | (60.9–331.2) | (-3.4–-2.7) |
| | | 0.00144 | 0.0224 | 7.7 | 21.2 | |
| | Diet high in red meat | (-0.206–0.121) | (-0.0794–0.0807) | (-424.8–256.9) | (-105.4–92.7) | -- |
| | | 0.0231 | 0.0344 | 49.9 | 38.9 | -0.8 |
| | Diet high in processed meat | (-0.00214–0.0533) | (-0.00285–0.0815) | (-4.5–114.9) | (-3.6–91.8) | (-2.6–1.3) |
| | | 0.0325 | 0.0377 | 70.0 | 43.4 | -1.4 |
| | Diet high in sugar-sweetened beverages | (0.00966–0.0745) | (0.0155–0.0710) | (20.8–160.6) | (17.6–82.4) | (-4.0–2.1) |
| | | 0.100 | 0.0587 | 221.2 | 64.8 | -3.7 |
| | Diet low in fiber | (0.0290–0.205) | (0.0147–0.131) | (65.4–451.7) | (16.0–144.6) | (-7.1–-1.0) |
| | | 0.152 | 0.0984 | 336.0 | 107.4 | -3.5 |
| | Diet low in seafood omega-3 fatty acids | (0.0370–0.277) | (0.0235–0.186) | (82.0–613.2) | (25.7–203.0) | (-5.0–-2.3) |
| | | 0.104 | 0.0669 | 228.2 | 73.4 | -3.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.304–0.391) | (-0.131–0.266) | (-666.6–862.6) | (-144.6–289.7) | (-4.8–-2.6) |
| | | 0.0667 | 0.0382 | 146.4 | 42.0 | -3.8 |
| | Diet high in trans fatty acids | (0.00288–0.136) | (0.00193–0.0763) | (6.3–299.2) | (2.1–83.3) | (-5.2–-2.6) |
| | | 0.165 | 0.150 | 363.7 | 158.4 | -2.5 |
| | Diet high in sodium | (0.000804–0.493) | (0.00146–0.443) | (1.7–1097.0) | (1.6–461.3) | (-8.5–6.3) |
| | | 0.0212 | 0.0185 | 48.3 | 19.0 | -2.8 |
| | Low physical activity | (0.00609–0.0356) | (0.00579–0.0337) | (13.4–82.8) | (6.2–33.8) | (-3.9–-1.5) |
| | | 0.984 | 0.734 | 2198.7 | 770.5 | -3.2 |
| | Environmental/occupational risks | (0.806–1.16) | (0.627–0.849) | (1804.7–2598.3) | (658.8–890.6) | (-3.7–-2.7) |
| | | 0.487 | 0.290 | 1084.7 | 307.8 | -3.8 |
| | Air pollution | (0.303–0.714) | (0.216–0.366) | (675.5–1592.5) | (230.2–388.7) | (-4.8–-2.6) |
| | | 0.487 | 0.290 | 1084.7 | 307.8 | -3.8 |
| | Particulate matter pollution | (0.303–0.714) | (0.216–0.366) | (675.5–1592.5) | (230.2–388.7) | (-4.8–-2.6) |
| | | 0.343 | 0.287 | 762.4 | 305.4 | -2.8 |
| | Ambient particulate matter pollution | (0.184–0.552) | (0.216–0.363) | (409.5–1217.6) | (230.2–386.9) | (-4.3–-0.9) |
| | | 0.144 | 0.00304 | 322.3 | 3.2 | -13.9 |
| | Household air pollution from solid fuels | (0.0832–0.226) | (0–0.0163) | (187.3–505.7) | (0.0–17.3) | (-45.8–-9.9) |
| | | 0.204 | 0.154 | 455.0 | 162.8 | -3.1 |
| | Non-optimal temperature | (0.193–0.222) | (0.140–0.169) | (428.9–492.6) | (149.3–178.6) | (-3.3–-3.0) |
| | | 0.00477 | 0.00915 | 10.5 | 9.8 | -0.2 |
| | High temperature | (0.000810–0.0120) | (0.00200–0.0193) | (1.8–26.6) | (2.2–20.6) | (-1.0–1.6) |
| | | 0.200 | 0.145 | 445.3 | 153.6 | -3.2 |
| | Low temperature | (0.191–0.215) | (0.134–0.158) | (422.4–480.9) | (142.7–166.6) | (-3.4–-3.1) |
| | | 0.449 | 0.387 | 1008.5 | 400.3 | -2.8 |
| | Other environmental risks | (0.357–0.556) | (0.309–0.484) | (804.4–1244.7) | (320.5–501.0) | (-3.0–-2.6) |
| | | 0.449 | 0.387 | 1008.5 | 400.3 | -2.8 |
| | Lead exposure | (0.357–0.556) | (0.309–0.484) | (804.4–1244.7) | (320.5–501.0) | (-3.0–-2.6) |
| **Western Europe** | | | | | | |
| | | 24.9 | 15.6 | 4279.4 | 1545.1 | -3.1 |
| | All risk factors | (23.2–26.2) | (13.6–17.0) | (4003.7–4499.7) | (1386.0–1670.4) | (-3.2–-3.0) |
| | | 21.8 | 13.8 | 3731.1 | 1349.2 | -3.1 |
| | Metabolic risks | (19.9–23.6) | (11.9–15.3) | (3403.9–4030.2) | (1194.0–1493.6) | (-3.3–-2.9) |
| | | 3.00 | 2.10 | 497.2 | 192.6 | -2.9 |
| | High fasting plasma glucose | (2.38–3.85) | (1.71–2.62) | (392.8–638.6) | (158.3–239.8) | (-3.7–-2.1) |
| | | 8.84 | 4.25 | 1566.1 | 463.7 | -3.7 |
| | High LDL cholesterol | (5.65–12.0) | (2.74–6.06) | (1025.3–2100.9) | (315.4–631.8) | (-4.1–-3.4) |
| | | 16.9 | 10.5 | 2859.3 | 1007.6 | -3.2 |
| | High systolic blood pressure | (14.3–19.4) | (8.48–12.3) | (2412.2–3277.0) | (818.9–1181.9) | (-3.5–-2.9) |
| | | 3.19 | 2.82 | 563.5 | 297.9 | -1.9 |
| | High body-mass index | (1.47–5.16) | (1.52–4.18) | (257.2–909.0) | (155.1–440.0) | (-2.6–-1.1) |
| | | 2.67 | 1.72 | 446.9 | 153.9 | -3.2 |
| | Kidney dysfunction | (1.98–3.37) | (1.24–2.22) | (331.9–563.0) | (112.6–196.6) | (-3.4–-3.1) |
| | | 14.0 | 7.47 | 2464.7 | 808.9 | -3.4 |
| | Behavioral risks | (8.74–16.9) | (4.56–9.73) | (1573.6–2950.3) | (507.0–1022.6) | (-3.7–-3.1) |
| | | 6.74 | 2.81 | 1227.9 | 344.7 | -3.8 |
| | Tobacco | (5.82–7.74) | (2.33–3.35) | (1060.9–1402.7) | (291.4–403.4) | (-4.1–-3.6) |
| | | 5.93 | 2.45 | 1086.6 | 305.5 | -3.8 |
| | Smoking | (5.01–7.01) | (2.00–3.01) | (922.6–1269.9) | (251.2–368.4) | (-4.2–-3.5) |
| | | 0.00627 | 0.00569 | 1.1 | 0.6 | -1.9 |
| | Chewing tobacco | (0.00197–0.0148) | (0.00185–0.0135) | (0.3–2.5) | (0.2–1.4) | (-5.1–1.6) |
| | | 1.10 | 0.447 | 199.8 | 51.5 | -4.1 |
| | Secondhand smoke | (0.812–1.40) | (0.321–0.574) | (147.0–253.3) | (37.1–65.7) | (-4.7–-3.6) |
| | | 0.214 | 0.110 | 23.3 | 0.8 | |
| | High alcohol use | (-0.176–1.84) | (-0.214–0.984) | (-57.3–327.6) | (-42.9–113.8) | -- |
| | | 9.16 | 5.14 | 1621.8 | 547.0 | -3.3 |
| | Dietary risks | (2.84–12.8) | (1.67–7.65) | (520.8–2229.6) | (199.9–783.1) | (-3.8–-2.8) |
| | | 1.07 | 0.759 | 197.0 | 84.0 | -2.6 |
| | Diet low in fruits | (0.355–1.85) | (0.310–1.19) | (64.3–343.8) | (30.8–131.8) | (-3.9–-0.9) |
| | | 0.879 | 0.710 | 156.1 | 70.6 | -2.4 |
| | Diet low in vegetables | (0.487–1.28) | (0.466–0.983) | (86.0–226.7) | (46.4–98.4) | (-3.1–-1.7) |
| | | 1.40 | 0.764 | 252.5 | 84.4 | -3.3 |
| | Diet low in legumes | (-1.13–3.64) | (-0.612–1.96) | (-205.0–651.4) | (-71.1–213.1) | (-4.1–-2.6) |
| | | 2.03 | 1.09 | 366.4 | 124.0 | -3.3 |
| | Diet low in whole grains | (0.970–3.05) | (0.504–1.72) | (176.4–543.5) | (56.5–190.5) | (-4.4–-2.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 1.80 | 0.776 | 324.6 | 85.8 | -4.0 |
| | Diet low in nuts and seeds | (0.489–3.03) | (0.183–1.46) | (89.1–543.3) | (20.6–160.7) | (-5.4–-3.0) |
| | | 0.664 | 0.289 | | | |
| | | (0.00000000000000331–0 | (0.00000000000000249–0 | 118.9 | 32.7 | |
| | Diet high in red meat | .936) | .411) | (0.0–163.5) | (0.0–46.3) | -- |
| | | 0.856 | 0.542 | 160.0 | 65.8 | -2.7 |
| | Diet high in processed meat | (-0.0910–1.92) | (-0.0540–1.15) | (-19.7–360.4) | (-8.6–138.6) | (-4.0–-0.6) |
| | | 0.242 | 0.177 | 46.6 | 22.9 | -2.2 |
| | Diet high in sugar-sweetened beverages | (0.0707–0.571) | (0.0704–0.354) | (13.6–111.4) | (8.7–45.6) | (-5.1–2.0) |
| | | 0.719 | 0.388 | 130.1 | 43.2 | -3.3 |
| | Diet low in fiber | (0.209–1.58) | (0.0982–0.883) | (37.9–283.7) | (11.0–98.9) | (-6.9–0.0) |
| | | 0.925 | 0.344 | 166.1 | 36.7 | -4.6 |
| | Diet low in seafood omega-3 fatty acids | (0.234–1.91) | (0.0719–0.803) | (42.4–339.2) | (7.5–85.5) | (-7.5–-1.9) |
| | | 0.992 | 0.499 | 178.9 | 56.0 | -3.5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-2.73–3.78) | (-1.02–2.01) | (-500.7–678.5) | (-114.6–223.1) | (-4.8–-2.5) |
| | | 1.13 | 0.0992 | 205.0 | 11.6 | -8.7 |
| | Diet high in trans fatty acids | (0.0501–2.19) | (0.00526–0.200) | (9.2–395.6) | (0.6–22.9) | (-9.9–-7.7) |
| | | 1.09 | 0.767 | 188.9 | 79.3 | -2.6 |
| | Diet high in sodium | (0.00644–3.87) | (0.00487–2.70) | (1.3–666.8) | (0.7–266.8) | (-8.6–4.4) |
| | | 0.704 | 0.393 | 116.8 | 37.1 | -3.5 |
| | Low physical activity | (0.209–1.18) | (0.121–0.696) | (36.8–192.1) | (12.7–62.2) | (-3.9–-3.0) |
| | | 9.07 | 4.13 | 1555.5 | 400.1 | -4.1 |
| | Environmental/occupational risks | (7.01–11.1) | (3.45–4.85) | (1204.5–1907.2) | (338.1–466.8) | (-4.7–-3.5) |
| | | 4.64 | 1.08 | 794.6 | 108.1 | -6.0 |
| | Air pollution | (2.42–6.99) | (0.668–1.55) | (413.8–1197.0) | (66.5–154.7) | (-7.6–-4.3) |
| | | 4.64 | 1.08 | 794.6 | 108.1 | -6.0 |
| | Particulate matter pollution | (2.42–6.99) | (0.668–1.55) | (413.8–1197.0) | (66.5–154.7) | (-7.6–-4.3) |
| | | 4.57 | 1.07 | 782.9 | 107.0 | -6.0 |
| | Ambient particulate matter pollution | (2.37–6.93) | (0.667–1.53) | (407.1–1186.5) | (66.4–153.4) | (-7.6–-4.2) |
| | | 0.0686 | 0.0108 | 11.7 | 1.1 | -7.3 |
| | Household air pollution from solid fuels | (0.0141–0.215) | (0.0000689–0.102) | (2.4–36.6) | (0.0–9.9) | (-19.9–-2.9) |
| | | 1.93 | 1.05 | 331.7 | 102.9 | -3.5 |
| | Non-optimal temperature | (1.78–2.14) | (0.910–1.18) | (306.5–368.8) | (92.1–115.7) | (-3.7–-3.4) |
| | | 0.0184 | 0.0255 | 3.2 | 2.6 | -0.7 |
| | High temperature | (0.000377–0.0715) | (0.00395–0.0821) | (0.1–12.3) | (0.4–8.1) | (-1.3–4.3) |
| | | 1.91 | 1.03 | 328.8 | 100.5 | -3.6 |
| | Low temperature | (1.77–2.08) | (0.896–1.14) | (305.2–358.7) | (90.0–110.6) | (-3.8–-3.5) |
| | | 3.76 | 2.37 | 642.9 | 224.6 | -3.2 |
| | Other environmental risks | (3.13–4.43) | (1.89–2.86) | (533.8–755.8) | (181.7–268.1) | (-3.4–-3.0) |
| | | 3.76 | 2.37 | 642.9 | 224.6 | -3.2 |
| | Lead exposure | (3.13–4.43) | (1.89–2.86) | (533.8–755.8) | (181.7–268.1) | (-3.4–-3.0) |
| **Latin America and Caribbean** | | | | | | |
| | | 10.7 | 17.3 | 4792.2 | 2631.7 | -1.8 |
| | All risk factors | (10.1–11.3) | (16.1–18.2) | (4493.8–5048.8) | (2454.0–2780.7) | (-2.0–-1.7) |
| | | 8.91 | 15.2 | 4018.2 | 2326.8 | -1.7 |
| | Metabolic risks | (7.77–9.95) | (13.9–16.6) | (3522.4–4477.2) | (2115.7–2536.2) | (-1.9–-1.3) |
| | | 1.08 | 2.08 | 512.2 | 319.3 | -1.4 |
| | High fasting plasma glucose | (0.717–1.59) | (1.62–2.81) | (347.6–745.6) | (249.8–430.7) | (-2.6–-0.3) |
| | | 3.09 | 4.99 | 1325.4 | 754.2 | -1.7 |
| | High LDL cholesterol | (2.04–4.12) | (3.43–6.74) | (854.4–1820.7) | (516.4–1022.3) | (-2.2–-1.2) |
| | | 6.37 | 11.0 | 2923.2 | 1685.2 | -1.7 |
| | High systolic blood pressure | (4.57–7.95) | (8.86–12.9) | (2138.4–3595.0) | (1354.1–1971.8) | (-2.3–-0.8) |
| | | 1.41 | 3.57 | 591.2 | 539.1 | -0.3 |
| | High body-mass index | (0.734–2.13) | (1.89–5.14) | (313.0–889.1) | (284.2–776.8) | (-0.8–0.2) |
| | | 1.59 | 2.92 | 737.4 | 446.9 | -1.5 |
| | Kidney dysfunction | (1.24–1.92) | (2.30–3.57) | (569.6–896.4) | (349.7–546.5) | (-1.6–-1.4) |
| | | 6.46 | 8.98 | 2786.6 | 1359.9 | -2.2 |
| | Behavioral risks | (4.77–7.64) | (6.14–11.1) | (2046.6–3323.7) | (925.2–1689.8) | (-2.5–-1.9) |
| | | 3.05 | 2.95 | 1273.4 | 440.9 | -3.2 |
| | Tobacco | (2.59–3.51) | (2.48–3.43) | (1073.0–1474.7) | (371.2–512.7) | (-3.6–-2.8) |
| | | 2.49 | 2.28 | 1022.8 | 338.9 | -3.3 |
| | Smoking | (2.05–2.95) | (1.82–2.78) | (839.1–1218.3) | (271.8–413.8) | (-3.9–-2.8) |
| | | 0.0118 | 0.0163 | 5.2 | 2.5 | -2.2 |
| | Chewing tobacco | (0.00380–0.0272) | (0.00522–0.0366) | (1.7–12.1) | (0.8–5.6) | (-5.4–1.3) |
| | | 0.719 | 0.761 | 316.5 | 115.5 | -3.1 |
| | Secondhand smoke | (0.528–0.921) | (0.575–0.968) | (233.3–404.3) | (87.0–146.9) | (-3.5–-2.6) |
| | | 0.0770 | 0.0737 | 36.2 | 11.1 | |
| | High alcohol use | (-0.103–0.396) | (-0.168–0.665) | (-24.6–158.2) | (-25.4–99.6) | -- |
| | | 4.42 | 6.83 | 1911.8 | 1035.9 | -1.9 |
| | Dietary risks | (2.45–5.89) | (3.68–9.34) | (1012.8–2556.1) | (557.7–1418.6) | (-2.2–-1.5) |
| | | 0.832 | 1.19 | 338.2 | 181.0 | -1.9 |
| | Diet low in fruits | (0.337–1.33) | (0.449–1.87) | (145.6–544.3) | (68.7–283.9) | (-2.8–-0.9) |
| | | 0.934 | 1.25 | 395.0 | 190.4 | -2.2 |
| | Diet low in vegetables | (0.521–1.38) | (0.770–1.82) | (227.2–581.0) | (117.5–275.6) | (-3.0–-1.4) |
| | | 0.382 | 0.574 | 161.8 | 86.9 | -1.9 |
| | Diet low in legumes | (-0.317–1.01) | (-0.448–1.49) | (-131.3–431.8) | (-67.9–225.2) | (-3.0–-0.8) |
| | | 0.699 | 0.893 | 291.4 | 134.4 | -2.3 |
| | Diet low in whole grains | (0.312–1.04) | (0.374–1.38) | (129.6–438.2) | (56.1–208.2) | (-3.8–-1.1) |
| | | 0.999 | 1.64 | 419.0 | 247.8 | -1.6 |
| | Diet low in nuts and seeds | (0.298–1.59) | (0.465–2.70) | (124.4–676.6) | (70.4–407.7) | (-2.3–-1.0) |
| | | -0.0515 | 0.142 | -10.7 | 21.2 | |
| | Diet high in red meat | (-0.757–0.418) | (-0.506–0.492) | (-249.0–152.8) | (-75.8–73.4) | -- |
| | | 0.0454 | 0.0930 | 18.3 | 14.0 | -0.8 |
| | Diet high in processed meat | (-0.00233–0.100) | (-0.00788–0.209) | (-0.4–39.5) | (-1.1–31.4) | (-2.3–0.7) |
| | | 0.107 | 0.306 | 40.6 | 46.3 | 0.4 |
| | Diet high in sugar-sweetened beverages | (0.0311–0.245) | (0.120–0.508) | (11.8–94.1) | (18.2–76.6) | (-1.9–4.1) |
| | | 0.461 | 0.453 | 185.8 | 68.7 | -3.0 |
| | Diet low in fiber | (0.136–0.992) | (0.0883–1.13) | (57.9–401.4) | (13.4–171.0) | (-6.9–0.3) |
| | | 0.692 | 0.928 | 289.3 | 140.4 | -2.2 |
| | Diet low in seafood omega-3 fatty acids | (0.175–1.28) | (0.236–1.77) | (72.5–541.2) | (35.8–267.4) | (-3.9–-0.8) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.209 | 0.377 | 89.6 | 57.3 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.598–0.775) | (-0.788–1.50) | (-249.6–337.1) | (-120.0–229.0) | (-2.8–-0.1) |
| | | 0.525 | 0.519 | 218.2 | 78.7 | -3.1 |
| | Diet high in trans fatty acids | (0.0244–1.02) | (0.0279–1.03) | (10.0–426.5) | (4.2–155.1) | (-4.3–-2.1) |
| | | 0.819 | 1.28 | 375.4 | 195.3 | -2.0 |
| | Diet high in sodium | (0.0225–2.30) | (0.0462–3.68) | (10.4–1069.2) | (7.0–561.1) | (-6.8–2.8) |
| | | 0.199 | 0.309 | 94.9 | 47.4 | -2.1 |
| | Low physical activity | (0.0849–0.314) | (0.113–0.491) | (34.9–151.8) | (16.8–76.6) | (-2.6–-1.5) |
| | | 4.47 | 6.44 | 2009.8 | 984.8 | -2.2 |
| | Environmental/occupational risks | (3.68–5.22) | (5.46–7.33) | (1656.3–2340.5) | (835.4–1121.6) | (-2.5–-1.9) |
| | | 2.79 | 2.91 | 1240.3 | 443.8 | -3.1 |
| | Air pollution | (2.05–3.60) | (2.18–3.66) | (911.9–1595.7) | (332.7–557.5) | (-3.8–-2.5) |
| | | 2.79 | 2.91 | 1240.3 | 443.8 | -3.1 |
| | Particulate matter pollution | (2.05–3.60) | (2.18–3.66) | (911.9–1595.7) | (332.7–557.5) | (-3.8–-2.5) |
| | | 1.48 | 2.29 | 656.2 | 350.2 | -1.9 |
| | Ambient particulate matter pollution | (0.904–2.15) | (1.69–2.91) | (405.7–951.7) | (257.1–443.8) | (-3.0–-0.7) |
| | | 1.31 | 0.618 | 584.0 | 93.9 | -5.5 |
| | Household air pollution from solid fuels | (0.872–1.83) | (0.393–0.955) | (388.3–812.6) | (59.7–145.5) | (-6.2–-5.0) |
| | | 0.405 | 0.593 | 177.1 | 91.0 | -2.0 |
| | Non-optimal temperature | (0.365–0.473) | (0.519–0.710) | (159.1–207.2) | (79.5–109.1) | (-2.2–-1.9) |
| | | -0.0000313 | 0.0897 | 0.2 | 13.7 | |
| | High temperature | (-0.0267–0.0299) | (0.0258–0.169) | (-11.3–13.2) | (4.0–25.9) | -- |
| | | 0.406 | 0.506 | 177.1 | 77.7 | -2.5 |
| | Low temperature | (0.375–0.449) | (0.466–0.560) | (162.9–196.5) | (71.4–86.1) | (-2.7–-2.3) |
| | | 1.90 | 3.77 | 877.1 | 577.4 | -1.3 |
| | Other environmental risks | (1.50–2.32) | (3.07–4.48) | (691.9–1064.9) | (467.8–687.5) | (-1.5–-1.1) |
| | | 1.90 | 3.77 | 877.1 | 577.4 | -1.3 |
| | Lead exposure | (1.50–2.32) | (3.07–4.48) | (691.9–1064.9) | (467.8–687.5) | (-1.5–-1.1) |
| **Andean Latin America** | | | | | | |
| | | 0.645 | 1.07 | 3066.4 | 1650.0 | -1.9 |
| | All risk factors | (0.560–0.713) | (0.972–1.16) | (2670.8–3372.0) | (1505.1–1790.4) | (-2.1–-1.6) |
| | | 0.465 | 0.900 | 2253.8 | 1397.1 | -1.4 |
| | Metabolic risks | (0.377–0.557) | (0.777–1.01) | (1818.9–2683.0) | (1207.4–1565.2) | (-1.9–-0.9) |
| | | 0.0372 | 0.0957 | 195.4 | 150.9 | -0.8 |
| | High fasting plasma glucose | (0.0261–0.0542) | (0.0762–0.122) | (136.7–281.8) | (120.9–193.0) | (-1.8–0.3) |
| | | 0.168 | 0.285 | 770.8 | 435.3 | -1.7 |
| | High LDL cholesterol | (0.110–0.230) | (0.189–0.389) | (492.4–1078.5) | (286.1–598.4) | (-2.3–-1.2) |
| | | 0.297 | 0.647 | 1491.9 | 1009.8 | -1.2 |
| | High systolic blood pressure | (0.184–0.430) | (0.513–0.762) | (945.9–2089.7) | (801.6–1187.0) | (-2.1–0.0) |
| | | 0.0973 | 0.235 | 429.8 | 357.0 | -0.6 |
| | High body-mass index | (0.0448–0.155) | (0.117–0.347) | (203.0–681.7) | (179.3–528.5) | (-1.4–0.3) |
| | | 0.0551 | 0.0987 | 273.3 | 154.7 | -1.7 |
| | Kidney dysfunction | (0.0410–0.0709) | (0.0718–0.130) | (201.1–355.2) | (112.1–204.0) | (-2.0–-1.4) |
| | | 0.350 | 0.536 | 1627.0 | 822.5 | -2.1 |
| | Behavioral risks | (0.209–0.447) | (0.324–0.696) | (966.0–2096.5) | (492.7–1068.0) | (-2.4–-1.6) |
| | | 0.105 | 0.134 | 473.3 | 201.3 | -2.6 |
| | Tobacco | (0.0805–0.132) | (0.102–0.173) | (358.5–598.9) | (153.4–259.8) | (-3.7–-1.6) |
| | | 0.0806 | 0.103 | 359.1 | 154.2 | -2.6 |
| | Smoking | (0.0571–0.107) | (0.0733–0.143) | (253.1–484.4) | (109.4–213.8) | (-3.9–-1.3) |
| | | 0.000578 | 0.000621 | 2.1 | 0.9 | -2.5 |
| | Chewing tobacco | (0.000191–0.00141) | (0.000199–0.00139) | (0.7–5.2) | (0.3–2.1) | (-5.7–-1.1) |
| | | 0.0274 | 0.0335 | 126.2 | 51.3 | -2.7 |
| | Secondhand smoke | (0.0196–0.0373) | (0.0231–0.0442) | (90.3–171.5) | (35.4–67.7) | (-3.5–-2.0) |
| | | -0.00792 | -0.00722 | -27.2 | -10.0 | |
| | High alcohol use | (-0.0227–0.0145) | (-0.0270–0.0292) | (-79.5–63.1) | (-38.6–44.1) | -- |
| | | 0.287 | 0.451 | 1332.5 | 691.9 | -2.0 |
| | Dietary risks | (0.124–0.395) | (0.227–0.623) | (557.2–1846.2) | (346.8–958.5) | (-2.4–-1.4) |
| | | 0.0574 | 0.0951 | 248.9 | 144.2 | -1.7 |
| | Diet low in fruits | (0.0194–0.0904) | (0.0361–0.148) | (93.2–386.9) | (56.1–223.5) | (-2.5–-0.8) |
| | | 0.0700 | 0.101 | 317.8 | 155.6 | -2.2 |
| | Diet low in vegetables | (0.0345–0.110) | (0.0581–0.154) | (166.8–483.8) | (89.7–236.2) | (-3.2–-1.3) |
| | | 0.0312 | 0.0554 | 140.9 | 84.5 | -1.6 |
| | Diet low in legumes | (-0.0282–0.0786) | (-0.0498–0.142) | (-123.3–360.9) | (-76.0–217.2) | (-2.3–-0.8) |
| | | 0.0480 | 0.0689 | 212.0 | 104.3 | -2.1 |
| | Diet low in whole grains | (0.0208–0.0740) | (0.0287–0.106) | (91.1–328.4) | (43.4–160.9) | (-3.6–-0.9) |
| | | 0.0642 | 0.0895 | 288.3 | 136.3 | -2.3 |
| | Diet low in nuts and seeds | (0.0205–0.0996) | (0.0263–0.146) | (89.2–456.3) | (40.0–222.4) | (-2.9–-1.7) |
| | | -0.00913 | -0.00744 | -33.4 | -10.6 | |
| | Diet high in red meat | (-0.0483–0.0188) | (-0.0672–0.0346) | (-179.1–70.9) | (-96.6–50.9) | -- |
| | | 0.00150 | 0.00424 | 6.2 | 6.3 | 0.0 |
| | Diet high in processed meat | (-0.000131–0.00334) | (-0.000532–0.0110) | (-0.4–13.5) | (-0.7–16.1) | (-1.5–1.8) |
| | | 0.00501 | 0.0144 | 19.8 | 21.3 | 0.2 |
| | Diet high in sugar-sweetened beverages | (0.00134–0.0121) | (0.00580–0.0247) | (5.3–47.9) | (8.7–36.7) | (-1.8–3.5) |
| | | 0.0372 | 0.0494 | 157.1 | 74.5 | -2.3 |
| | Diet low in fiber | (0.0100–0.0819) | (0.0105–0.115) | (43.9–348.7) | (16.0–173.4) | (-5.9–-1.1) |
| | | 0.0382 | 0.0558 | 169.9 | 84.8 | -2.1 |
| | Diet low in seafood omega-3 fatty acids | (0.00975–0.0709) | (0.0147–0.104) | (43.0–318.4) | (22.4–157.4) | (-3.7–-0.7) |
| | | 0.0224 | 0.0323 | 101.0 | 49.1 | -2.2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0659–0.0817) | (-0.0687–0.128) | (-288.4–372.1) | (-104.2–195.5) | (-3.8–-0.8) |
| | | 0.0372 | 0.0387 | 165.6 | 58.7 | -3.1 |
| | Diet high in trans fatty acids | (0.00177–0.0715) | (0.00216–0.0752) | (7.8–322.2) | (3.3–114.4) | (-4.3–-2.1) |
| | | 0.0473 | 0.0793 | 238.2 | 123.3 | -2.0 |
| | Diet high in sodium | (0.000253–0.139) | (0.000447–0.232) | (1.3–686.9) | (0.7–363.1) | (-10.0–6.0) |
| | | 0.00737 | 0.0111 | 37.4 | 17.3 | -2.3 |
| | Low physical activity | (0.00257–0.0128) | (0.00400–0.0180) | (11.4–67.3) | (6.0–28.5) | (-3.2–-1.4) |
| | | 0.390 | 0.503 | 1855.3 | 781.3 | -2.6 |
| | Environmental/occupational risks | (0.313–0.458) | (0.411–0.591) | (1493.4–2174.2) | (638.4–915.9) | (-3.0–-2.3) |
| | | 0.268 | 0.237 | 1274.1 | 365.8 | -3.8 |
| | Air pollution | (0.201–0.332) | (0.180–0.299) | (955.8–1574.6) | (276.3–460.6) | (-4.3–-3.3) |
| | | 0.268 | 0.237 | 1274.1 | 365.8 | -3.8 |
| | Particulate matter pollution | (0.201–0.332) | (0.180–0.299) | (955.8–1574.6) | (276.3–460.6) | (-4.3–-3.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.148 | 0.204 | 703.5 | 314.2 | -2.4 |
| | Ambient particulate matter pollution | (0.0848–0.218) | (0.150–0.259) | (404.4–1028.6) | (231.7–400.2) | (-3.5–-1.1) |
| | | 0.120 | 0.0336 | 570.6 | 51.6 | -7.3 |
| | Household air pollution from solid fuels | (0.0804–0.170) | (0.0107–0.0730) | (384.4–805.2) | (16.4–112.4) | (-10.0–-5.3) |
| | | 0.0448 | 0.0494 | 195.7 | 76.4 | -2.9 |
| | Non-optimal temperature | (0.0385–0.0513) | (0.0439–0.0566) | (171.4–222.0) | (67.8–87.4) | (-3.1–-2.5) |
| | | -0.000192 | 0.00124 | -1.0 | 1.9 | |
| | High temperature | (-0.000945–0.000188) | (-0.00104–0.00434) | (-4.4–0.6) | (-1.6–6.6) | -- |
| | | 0.0450 | 0.0483 | 196.7 | 74.6 | -2.9 |
| | Low temperature | (0.0390–0.0515) | (0.0428–0.0564) | (172.4–223.3) | (65.9–87.3) | (-3.2–-2.5) |
| | | 0.151 | 0.293 | 748.2 | 458.4 | -1.5 |
| | Other environmental risks | (0.110–0.197) | (0.215–0.379) | (546.3–967.3) | (336.2–590.4) | (-1.8–-1.1) |
| | | 0.151 | 0.293 | 748.2 | 458.4 | -1.5 |
| | Lead exposure | (0.110–0.197) | (0.215–0.379) | (546.3–967.3) | (336.2–590.4) | (-1.8–-1.1) |
| **Caribbean** | | | | | | |
| | | 1.48 | 2.44 | 5509.7 | 4365.4 | -0.7 |
| | All risk factors | (1.33–1.58) | (2.23–2.65) | (4976.0–5883.3) | (3992.9–4755.5) | (-0.9–-0.4) |
| | | 1.24 | 2.13 | 4634.4 | 3810.9 | -0.6 |
| | Metabolic risks | (1.07–1.38) | (1.90–2.38) | (4030.4–5148.9) | (3405.2–4258.0) | (-0.9–-0.2) |
| | | 0.115 | 0.203 | 439.5 | 358.3 | -0.6 |
| | High fasting plasma glucose | (0.0851–0.147) | (0.169–0.254) | (326.0–562.9) | (299.4–449.8) | (-1.5–0.2) |
| | | 0.410 | 0.607 | 1518.9 | 1091.0 | -1.0 |
| | High LDL cholesterol | (0.262–0.566) | (0.404–0.846) | (968.3–2105.6) | (727.0–1518.7) | (-1.7–-0.4) |
| | | 0.879 | 1.62 | 3312.9 | 2897.6 | -0.4 |
| | High systolic blood pressure | (0.639–1.12) | (1.29–1.90) | (2425.2–4196.2) | (2300.3–3398.5) | (-1.0–0.4) |
| | | 0.164 | 0.415 | 602.6 | 746.2 | 0.6 |
| | High body-mass index | (0.0845–0.250) | (0.229–0.616) | (311.6–917.5) | (412.5–1111.1) | (-0.1–1.4) |
| | | 0.279 | 0.469 | 1052.9 | 832.3 | -0.7 |
| | Kidney dysfunction | (0.222–0.334) | (0.387–0.559) | (839.8–1258.8) | (687.2–995.5) | (-1.0–-0.5) |
| | | 0.851 | 1.26 | 3152.3 | 2262.7 | -1.0 |
| | Behavioral risks | (0.525–1.04) | (0.867–1.57) | (1943.8–3875.1) | (1554.5–2825.7) | (-1.4–-0.6) |
| | | 0.347 | 0.393 | 1283.3 | 704.6 | -1.8 |
| | Tobacco | (0.271–0.427) | (0.309–0.482) | (998.9–1581.2) | (552.8–865.7) | (-2.8–-0.9) |
| | | 0.281 | 0.305 | 1038.7 | 545.6 | -2.0 |
| | Smoking | (0.209–0.361) | (0.225–0.405) | (773.1–1336.0) | (402.4–724.5) | (-3.2–-0.8) |
| | | 0.00108 | 0.00201 | 3.8 | 3.7 | -0.1 |
| | Chewing tobacco | (0.000349–0.00248) | (0.000642–0.00447) | (1.2–8.8) | (1.2–8.1) | (-3.3–3.3) |
| | | 0.0814 | 0.102 | 301.3 | 182.7 | -1.5 |
| | Secondhand smoke | (0.0586–0.104) | (0.0762–0.131) | (217.3–384.3) | (136.9–234.8) | (-2.0–-1.0) |
| | | 0.00815 | 0.0575 | 32.2 | 102.4 | |
| | High alcohol use | (-0.0120–0.0527) | (0.0200–0.125) | (-36.5–191.5) | (34.1–225.3) | -- |
| | | 0.626 | 0.933 | 2315.7 | 1681.6 | -1.0 |
| | Dietary risks | (0.232–0.864) | (0.480–1.30) | (855.7–3215.1) | (865.4–2348.2) | (-1.4–-0.2) |
| | | 0.101 | 0.148 | 365.6 | 271.7 | -0.9 |
| | Diet low in fruits | (0.0405–0.163) | (0.0615–0.245) | (147.4–594.1) | (112.8–448.0) | (-2.3–-0.5) |
| | | 0.139 | 0.238 | 507.4 | 433.9 | -0.5 |
| | Diet low in vegetables | (0.0718–0.208) | (0.140–0.358) | (265.3–757.0) | (253.4–653.5) | (-1.2–-0.3) |
| | | 0.0598 | 0.0784 | 220.7 | 141.4 | -1.3 |
| | Diet low in legumes | (-0.0515–0.155) | (-0.0648–0.208) | (-188.7–573.6) | (-117.7–374.6) | (-2.6–-0.3) |
| | | 0.151 | 0.197 | 553.9 | 354.9 | -1.3 |
| | Diet low in whole grains | (0.0748–0.218) | (0.0977–0.298) | (275.9–804.7) | (176.5–535.8) | (-2.3–-0.6) |
| | | 0.160 | 0.230 | 588.3 | 414.2 | -1.1 |
| | Diet low in nuts and seeds | (0.0504–0.254) | (0.0703–0.382) | (185.7–939.6) | (127.0–687.5) | (-1.6–-0.6) |
| | | -0.00265 | -0.00610 | -7.9 | -12.1 | |
| | Diet high in red meat | (-0.0299–0.0227) | (-0.0585–0.0309) | (-101.3–79.6) | (-109.9–57.0) | -- |
| | | 0.00427 | 0.00805 | 15.5 | 14.6 | -0.2 |
| | Diet high in processed meat | (-0.000428–0.00947) | (-0.000769–0.0204) | (-1.5–34.0) | (-1.4–37.2) | (-2.3–1.8) |
| | | 0.00969 | 0.0178 | 34.4 | 32.5 | -0.2 |
| | Diet high in sugar-sweetened beverages | (0.00197–0.0258) | (0.00346–0.0489) | (7.0–91.6) | (6.3–88.8) | (-4.6–4.7) |
| | | 0.0749 | 0.0484 | 273.0 | 90.1 | -3.4 |
| | Diet low in fiber | (0.0260–0.160) | (0.00545–0.130) | (94.7–582.1) | (10.0–242.1) | (-8.3–0.2) |
| | | 0.101 | 0.139 | 368.0 | 251.4 | -1.2 |
| | Diet low in seafood omega-3 fatty acids | (0.0261–0.185) | (0.0371–0.253) | (95.4–683.1) | (67.5–456.4) | (-2.4–0.0) |
| | | 0.0392 | 0.0296 | 144.9 | 53.7 | -3.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0985–0.146) | (-0.0572–0.139) | (-364.1–541.8) | (-103.9–251.6) | (-6.7–-0.7) |
| | | 0.0374 | 0.0450 | 137.3 | 81.3 | -1.6 |
| | Diet high in trans fatty acids | (0.00161–0.0761) | (0.00239–0.0888) | (5.9–280.1) | (4.3–160.1) | (-2.9–-0.4) |
| | | 0.0692 | 0.113 | 262.7 | 201.5 | -0.8 |
| | Diet high in sodium | (0.0000381–0.249) | (0.0000376–0.434) | (0.1–949.4) | (0.1–772.9) | (-12.7–-9.1) |
| | | 0.0268 | 0.0422 | 101.6 | 74.8 | -0.9 |
| | Low physical activity | (0.0104–0.0439) | (0.0156–0.0679) | (39.5–168.3) | (27.8–120.8) | (-1.5–-0.3) |
| | | 0.594 | 0.948 | 2217.9 | 1699.4 | -0.8 |
| | Environmental/occupational risks | (0.478–0.723) | (0.778–1.11) | (1783.6–2691.0) | (1391.3–1992.2) | (-1.3–-0.4) |
| | | 0.345 | 0.502 | 1275.8 | 906.0 | -1.0 |
| | Air pollution | (0.244–0.487) | (0.375–0.636) | (899.4–1811.9) | (676.4–1149.5) | (-1.9–-0.2) |
| | | 0.345 | 0.502 | 1275.8 | 906.0 | -1.0 |
| | Particulate matter pollution | (0.244–0.487) | (0.375–0.636) | (899.4–1811.9) | (676.4–1149.5) | (-1.9–-0.2) |
| | | 0.102 | 0.177 | 383.3 | 316.2 | -0.6 |
| | Ambient particulate matter pollution | (0.0326–0.228) | (0.126–0.231) | (122.5–853.5) | (225.5–411.1) | (-2.7–2.9) |
| | | 0.242 | 0.325 | 892.5 | 589.8 | -1.3 |
| | Household air pollution from solid fuels | (0.180–0.309) | (0.232–0.416) | (663.2–1136.0) | (420.3–759.8) | (-1.9–-0.7) |
| | | 0.0172 | 0.0284 | 63.4 | 51.1 | -0.7 |
| | Non-optimal temperature | (0.0129–0.0221) | (0.0183–0.0398) | (48.2–81.6) | (32.9–71.8) | (-1.4–0.0) |
| | | 0.00141 | 0.0115 | 5.3 | 20.6 | |
| | High temperature | (-0.000696–0.00285) | (0.00390–0.0198) | (-2.4–10.5) | (6.9–35.7) | -- |
| | | 0.0158 | 0.0170 | 58.1 | 30.7 | -1.9 |
| | Low temperature | (0.0128–0.0195) | (0.0139–0.0207) | (47.1–72.0) | (25.0–37.5) | (-2.2–-1.6) |
| | | 0.301 | 0.525 | 1136.2 | 934.2 | -0.6 |
| | Other environmental risks | (0.243–0.355) | (0.393–0.652) | (919.5–1333.1) | (698.0–1162.0) | (-1.0–-0.3) |
| | | 0.301 | 0.525 | 1136.2 | 934.2 | -0.6 |
| | Lead exposure | (0.243–0.355) | (0.393–0.652) | (919.5–1333.1) | (698.0–1162.0) | (-1.0–-0.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| **Central Latin America** | | | | | | |
| | | 3.24 | 7.35 | 3899.4 | 2778.7 | -1.0 |
| | All risk factors | (3.07–3.39) | (6.89–7.73) | (3675.6–4082.2) | (2599.5–2926.7) | (-1.2–-0.9) |
| | | 2.75 | 6.57 | 3346.4 | 2488.3 | -0.9 |
| | Metabolic risks | (2.44–3.03) | (5.96–7.10) | (2989.1–3675.2) | (2256.7–2691.0) | (-1.2–-0.6) |
| | | 0.343 | 1.06 | 442.3 | 403.2 | -0.3 |
| | High fasting plasma glucose | (0.258–0.445) | (0.865–1.34) | (335.9–568.2) | (331.4–509.8) | (-1.0–0.5) |
| | | 0.956 | 2.39 | 1088.3 | 885.3 | -0.6 |
| | High LDL cholesterol | (0.622–1.29) | (1.68–3.16) | (696.1–1500.8) | (615.2–1171.7) | (-1.1–0.0) |
| | | 1.93 | 4.49 | 2394.3 | 1709.3 | -1.0 |
| | High systolic blood pressure | (1.43–2.38) | (3.45–5.30) | (1808.5–2934.7) | (1317.9–2016.5) | (-1.8–-0.1) |
| | | 0.513 | 1.58 | 574.1 | 580.8 | 0.0 |
| | High body-mass index | (0.261–0.779) | (0.809–2.29) | (299.2–864.1) | (299.1–846.1) | (-0.5–0.5) |
| | | 0.603 | 1.57 | 756.0 | 599.6 | -0.7 |
| | Kidney dysfunction | (0.479–0.713) | (1.24–1.92) | (593.1–899.4) | (470.6–737.4) | (-0.9–-0.6) |
| | | 1.91 | 3.89 | 2221.7 | 1450.8 | -1.3 |
| | Behavioral risks | (1.23–2.30) | (2.38–4.94) | (1419.6–2693.9) | (878.5–1855.6) | (-1.7–-1.0) |
| | | 0.774 | 1.10 | 869.0 | 403.5 | -2.3 |
| | Tobacco | (0.628–0.906) | (0.910–1.28) | (702.5–1024.4) | (333.6–469.4) | (-2.9–-1.8) |
| | | 0.604 | 0.794 | 663.0 | 288.0 | -2.5 |
| | Smoking | (0.466–0.746) | (0.618–0.990) | (507.1–836.0) | (224.0–360.1) | (-3.4–-1.8) |
| | | 0.00257 | 0.00459 | 2.8 | 1.7 | -1.5 |
| | Chewing tobacco | (0.000821–0.00594) | (0.00138–0.0105) | (0.9–6.4) | (0.5–3.9) | (-4.8–2.2) |
| | | 0.206 | 0.341 | 245.6 | 128.1 | -2.0 |
| | Secondhand smoke | (0.153–0.263) | (0.244–0.434) | (182.9–312.9) | (91.3–162.6) | (-2.6–-1.3) |
| | | -0.0102 | -0.0285 | -2.9 | -9.5 | |
| | High alcohol use | (-0.0696–0.106) | (-0.141–0.248) | (-56.3–115.8) | (-49.2–89.8) | -- |
| | | 1.46 | 3.20 | 1687.9 | 1197.8 | -1.0 |
| | Dietary risks | (0.614–1.93) | (1.45–4.39) | (716.7–2274.2) | (540.1–1650.1) | (-1.5–-0.6) |
| | | 0.267 | 0.505 | 291.6 | 187.0 | -1.3 |
| | Diet low in fruits | (0.110–0.429) | (0.158–0.824) | (128.2–471.1) | (59.5–304.4) | (-2.5–-0.3) |
| | | 0.270 | 0.450 | 309.2 | 168.6 | -1.8 |
| | Diet low in vegetables | (0.158–0.392) | (0.267–0.662) | (188.3–443.8) | (100.8–248.1) | (-2.5–-1.1) |
| | | 0.150 | 0.293 | 167.8 | 109.0 | -1.3 |
| | Diet low in legumes | (-0.125–0.390) | (-0.228–0.758) | (-136.6–443.8) | (-84.6–283.1) | (-2.4–-0.2) |
| | | 0.119 | 0.222 | 130.9 | 82.1 | -1.4 |
| | Diet low in whole grains | (0.0548–0.183) | (0.0893–0.385) | (59.9–204.4) | (33.1–143.1) | (-3.5–0.4) |
| | | 0.372 | 0.859 | 413.9 | 318.2 | -0.8 |
| | Diet low in nuts and seeds | (0.116–0.584) | (0.245–1.37) | (128.7–660.0) | (90.8–510.3) | (-1.4–-0.3) |
| | | 0.0122 | 0.0984 | 18.1 | 35.8 | |
| | Diet high in red meat | (-0.0987–0.0953) | (-0.0343–0.217) | (-78.7–93.1) | (-11.7–79.5) | -- |
| | | 0.0141 | 0.0388 | 14.9 | 14.1 | -0.2 |
| | Diet high in processed meat | (-0.00141–0.0326) | (-0.00573–0.0920) | (-1.2–34.0) | (-2.0–33.4) | (-1.9–1.8) |
| | | 0.0574 | 0.186 | 56.7 | 67.3 | 0.5 |
| | Diet high in sugar-sweetened beverages | (0.0157–0.129) | (0.0605–0.314) | (15.8–127.7) | (22.0–113.5) | (-2.2–4.5) |
| | | 0.109 | 0.177 | 116.7 | 65.8 | -1.7 |
| | Diet low in fiber | (0.0372–0.225) | (0.0379–0.407) | (39.6–243.1) | (14.1–150.3) | (-5.7–1.5) |
| | | 0.242 | 0.472 | 269.8 | 175.6 | -1.3 |
| | Diet low in seafood omega-3 fatty acids | (0.0616–0.442) | (0.119–0.899) | (68.0–499.7) | (44.4–334.1) | (-2.8–0.0) |
| | | 0.138 | 0.306 | 154.9 | 113.7 | -0.9 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.424–0.514) | (-0.676–1.20) | (-461.1–586.2) | (-251.1–448.0) | (-2.1–-0.1) |
| | | 0.192 | 0.428 | 212.9 | 158.0 | -0.9 |
| | Diet high in trans fatty acids | (0.00895–0.371) | (0.0229–0.846) | (9.8–413.6) | (8.4–313.4) | (-2.2–0.1) |
| | | 0.288 | 0.604 | 354.7 | 228.1 | -1.3 |
| | Diet high in sodium | (0.0193–0.736) | (0.0419–1.59) | (24.2–925.9) | (15.7–600.2) | (-5.5–2.0) |
| | | 0.0417 | 0.0914 | 52.1 | 35.0 | -1.2 |
| | Low physical activity | (0.0162–0.0655) | (0.0365–0.145) | (18.2–84.0) | (13.7–55.1) | (-2.0–-0.5) |
| | | 1.50 | 3.17 | 1806.7 | 1206.6 | -1.2 |
| | Environmental/occupational risks | (1.22–1.72) | (2.77–3.58) | (1469.2–2074.1) | (1052.0–1361.3) | (-1.5–-0.9) |
| | | 0.910 | 1.39 | 1088.2 | 524.5 | -2.2 |
| | Air pollution | (0.619–1.19) | (1.04–1.73) | (741.5–1420.1) | (392.5–654.3) | (-2.8–-1.5) |
| | | 0.910 | 1.39 | 1088.2 | 524.5 | -2.2 |
| | Particulate matter pollution | (0.619–1.19) | (1.04–1.73) | (741.5–1420.1) | (392.5–654.3) | (-2.8–-1.5) |
| | | 0.563 | 1.17 | 674.7 | 443.4 | -1.3 |
| | Ambient particulate matter pollution | (0.318–0.829) | (0.876–1.46) | (381.6–991.8) | (330.7–553.8) | (-2.4–0.1) |
| | | 0.346 | 0.214 | 413.5 | 81.3 | -4.9 |
| | Household air pollution from solid fuels | (0.217–0.504) | (0.118–0.379) | (259.1–603.0) | (44.7–144.2) | (-6.0–-4.0) |
| | | 0.149 | 0.322 | 175.5 | 122.1 | -1.1 |
| | Non-optimal temperature | (0.135–0.172) | (0.287–0.380) | (158.3–202.6) | (108.9–144.0) | (-1.3–-0.9) |
| | | -0.00213 | 0.0596 | -2.4 | 22.4 | |
| | High temperature | (-0.0124–0.00618) | (0.0248–0.102) | (-14.3–7.3) | (9.4–38.2) | -- |
| | | 0.151 | 0.264 | 177.9 | 100.4 | -1.7 |
| | Low temperature | (0.139–0.168) | (0.242–0.298) | (163.7–198.3) | (91.9–113.3) | (-1.9–-1.4) |
| | | 0.680 | 1.94 | 841.1 | 742.7 | -0.4 |
| | Other environmental risks | (0.559–0.812) | (1.62–2.24) | (688.7–1004.3) | (617.3–856.0) | (-0.6–-0.2) |
| | | 0.680 | 1.94 | 841.1 | 742.7 | -0.4 |
| | Lead exposure | (0.559–0.812) | (1.62–2.24) | (688.7–1004.3) | (617.3–856.0) | (-0.6–-0.2) |
| **Tropical Latin America** | | | | | | |
| | | 5.38 | 6.40 | 5793.7 | 2379.7 | -2.7 |
| | All risk factors | (5.03–5.71) | (5.91–6.83) | (5409.5–6157.8) | (2194.8–2538.0) | (-2.9–-2.5) |
| | | 4.45 | 5.64 | 4855.9 | 2097.3 | -2.5 |
| | Metabolic risks | (3.84–5.02) | (5.06–6.22) | (4231.5–5464.6) | (1877.3–2313.7) | (-2.8–-2.2) |
| | | 0.588 | 0.729 | 666.2 | 270.2 | -2.7 |
| | High fasting plasma glucose | (0.350–0.948) | (0.493–1.13) | (404.3–1073.6) | (183.3–416.8) | (-4.3–-1.0) |
| | | 1.55 | 1.71 | 1614.5 | 633.4 | -2.8 |
| | High LDL cholesterol | (1.01–2.05) | (1.15–2.37) | (1022.7–2205.3) | (425.1–876.7) | (-3.4–-2.3) |
| | | 3.27 | 4.27 | 3621.3 | 1586.0 | -2.5 |
| | High systolic blood pressure | (2.31–4.08) | (3.49–5.00) | (2610.9–4477.3) | (1299.0–1857.6) | (-3.1–-1.6) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.632 | 1.35 | 641.6 | 499.4 | -0.8 |
| | High body-mass index | (0.339–0.969) | (0.719–1.93) | (340.1–980.2) | (264.8–715.8) | (-1.4–-0.1) |
| | | 0.650 | 0.786 | 729.8 | 290.9 | -2.8 |
| | Kidney dysfunction | (0.495–0.806) | (0.595–0.985) | (545.7–915.3) | (219.7–364.7) | (-2.9–-2.7) |
| | | 3.35 | 3.30 | 3455.6 | 1221.0 | -3.2 |
| | Behavioral risks | (2.79–3.89) | (2.57–4.08) | (2820.4–4053.2) | (947.9–1509.5) | (-3.5–-2.8) |
| | | 1.82 | 1.32 | 1817.2 | 483.4 | -4.0 |
| | Tobacco | (1.56–2.07) | (1.11–1.54) | (1561.0–2090.7) | (408.2–564.7) | (-4.4–-3.6) |
| | | 1.52 | 1.07 | 1488.4 | 392.5 | -4.0 |
| | Smoking | (1.29–1.80) | (0.865–1.30) | (1246.6–1768.4) | (315.7–476.3) | (-4.6–-3.5) |
| | | 0.00758 | 0.00907 | 8.9 | 3.5 | -2.9 |
| | Chewing tobacco | (0.00246–0.0174) | (0.00295–0.0204) | (2.9–20.5) | (1.1–7.8) | (-5.9–0.6) |
| | | 0.404 | 0.285 | 432.6 | 105.5 | -4.3 |
| | Secondhand smoke | (0.298–0.514) | (0.213–0.364) | (320.3–554.0) | (79.0–134.9) | (-4.7–-3.9) |
| | | 0.0870 | 0.0519 | 87.1 | 19.0 | |
| | High alcohol use | (0.00335–0.241) | (-0.0467–0.276) | (13.0–222.3) | (-17.8–101.7) | -- |
| | | 2.05 | 2.24 | 2128.4 | 830.6 | -2.9 |
| | Dietary risks | (1.29–2.73) | (1.33–3.13) | (1313.8–2842.7) | (496.3–1161.4) | (-3.4–-2.3) |
| | | 0.407 | 0.445 | 393.3 | 166.5 | -2.6 |
| | Diet low in fruits | (0.167–0.649) | (0.178–0.741) | (173.0–626.3) | (67.1–276.1) | (-3.9–-1.3) |
| | | 0.455 | 0.463 | 461.4 | 172.7 | -3.0 |
| | Diet low in vegetables | (0.254–0.673) | (0.303–0.671) | (269.6–678.2) | (113.2–250.2) | (-3.9–-2.2) |
| | | 0.142 | 0.147 | 143.0 | 54.4 | -2.9 |
| | Diet low in legumes | (-0.113–0.376) | (-0.109–0.386) | (-111.7–388.3) | (-40.2–142.8) | (-4.1–-1.8) |
| | | 0.382 | 0.405 | 380.5 | 150.1 | -2.8 |
| | Diet low in whole grains | (0.163–0.576) | (0.165–0.643) | (161.3–580.1) | (61.3–237.8) | (-4.2–-1.5) |
| | | 0.403 | 0.461 | 402.7 | 171.1 | -2.6 |
| | Diet low in nuts and seeds | (0.110–0.656) | (0.121–0.810) | (109.5–664.5) | (45.4–300.6) | (-3.9–-1.7) |
| | | -0.0520 | 0.0576 | -31.9 | 20.4 | |
| | Diet high in red meat | (-0.578–0.304) | (-0.311–0.266) | (-459.6–266.4) | (-119.2–99.0) | -- |
| | | 0.0255 | 0.0419 | 24.9 | 15.6 | -1.4 |
| | Diet high in processed meat | (-0.000416–0.0567) | (-0.000881–0.103) | (0.7–54.2) | (-0.3–38.2) | (-3.5–0.9) |
| | | 0.0344 | 0.0883 | 31.8 | 33.2 | 0.1 |
| | Diet high in sugar-sweetened beverages | (0.0102–0.0823) | (0.0307–0.183) | (9.9–74.9) | (11.5–68.9) | (-3.1–4.3) |
| | | 0.240 | 0.179 | 230.1 | 67.0 | -3.7 |
| | Diet low in fiber | (0.0632–0.534) | (0.0346–0.471) | (64.0–513.6) | (13.0–176.0) | (-7.5–-0.3) |
| | | 0.311 | 0.261 | 311.6 | 97.0 | -3.5 |
| | Diet low in seafood omega-3 fatty acids | (0.0770–0.567) | (0.0598–0.538) | (76.8–578.6) | (22.3–199.6) | (-6.1–-1.9) |
| | | 0.00972 | 0.00863 | 9.7 | 3.2 | -3.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0214–0.0502) | (-0.0146–0.0576) | (-21.0–49.2) | (-5.5–21.5) | (-11.9–2.2) |
| | | 0.259 | 0.00815 | 257.2 | 3.0 | -13.5 |
| | Diet high in trans fatty acids | (0.0121–0.497) | (0.000454–0.0159) | (11.9–497.8) | (0.2–5.9) | (-14.8–-12.4) |
| | | 0.414 | 0.486 | 457.2 | 179.7 | -2.8 |
| | Diet high in sodium | (0.00276–1.18) | (0.00304–1.42) | (2.9–1319.3) | (1.1–525.6) | (-11.0–4.9) |
| | | 0.124 | 0.164 | 146.8 | 61.1 | -2.7 |
| | Low physical activity | (0.0499–0.199) | (0.0541–0.270) | (47.8–244.4) | (20.2–101.6) | (-3.6–-1.7) |
| | | 1.99 | 1.81 | 2169.8 | 673.8 | -3.5 |
| | Environmental/occupational risks | (1.53–2.50) | (1.49–2.10) | (1680.4–2709.9) | (551.8–781.7) | (-4.2–-3.0) |
| | | 1.27 | 0.785 | 1368.4 | 291.6 | -4.7 |
| | Air pollution | (0.744–1.80) | (0.530–1.03) | (810.6–1935.7) | (197.3–383.4) | (-5.9–-3.6) |
| | | 1.27 | 0.785 | 1368.4 | 291.6 | -4.7 |
| | Particulate matter pollution | (0.744–1.80) | (0.530–1.03) | (810.6–1935.7) | (197.3–383.4) | (-5.9–-3.6) |
| | | 0.661 | 0.741 | 707.3 | 275.2 | -2.9 |
| | Ambient particulate matter pollution | (0.259–1.25) | (0.512–0.961) | (276.8–1327.0) | (189.7–357.1) | (-4.9–-0.3) |
| | | 0.604 | 0.0455 | 661.1 | 17.0 | -11.1 |
| | Household air pollution from solid fuels | (0.374–0.911) | (0.00539–0.143) | (412.8–993.4) | (2.0–53.2) | (-16.2–-8.5) |
| | | 0.194 | 0.193 | 207.6 | 72.2 | -3.2 |
| | Non-optimal temperature | (0.169–0.237) | (0.162–0.246) | (181.0–253.4) | (60.4–92.1) | (-3.5–-3.0) |
| | | 0.000885 | 0.0175 | 1.3 | 6.6 | |
| | High temperature | (-0.0149–0.0205) | (-0.00425–0.0499) | (-15.0–22.1) | (-1.6–18.8) | -- |
| | | 0.194 | 0.176 | 206.6 | 65.8 | -3.5 |
| | Low temperature | (0.175–0.218) | (0.156–0.201) | (186.1–233.2) | (58.3–75.1) | (-3.7–-3.3) |
| | | 0.768 | 1.01 | 856.1 | 372.8 | -2.5 |
| | Other environmental risks | (0.590–0.973) | (0.782–1.24) | (656.2–1090.9) | (289.5–459.5) | (-2.7–-2.3) |
| | | 0.768 | 1.01 | 856.1 | 372.8 | -2.5 |
| | Lead exposure | (0.590–0.973) | (0.782–1.24) | (656.2–1090.9) | (289.5–459.5) | (-2.7–-2.3) |
| **North Africa and Middle East** | | | | | | |
| | | 16.7 | 28.9 | 10264.9 | 6111.6 | -1.6 |
| | All risk factors | (14.9–18.5) | (25.9–31.8) | (9257.4–11220.0) | (5445.6–6699.4) | (-2.0–-1.2) |
| | | 14.1 | 25.5 | 8781.7 | 5411.2 | -1.5 |
| | Metabolic risks | (12.0–15.8) | (22.5–28.6) | (7576.2–9798.2) | (4769.5–6025.8) | (-1.9–-1.0) |
| | | 1.36 | 3.95 | 924.7 | 877.5 | -0.2 |
| | High fasting plasma glucose | (1.05–1.78) | (3.26–4.93) | (726.7–1189.9) | (729.3–1093.3) | (-1.1–0.6) |
| | | 5.02 | 8.82 | 2873.4 | 1702.7 | -1.6 |
| | High LDL cholesterol | (3.08–6.88) | (5.93–11.8) | (1672.5–4058.1) | (1115.3–2332.3) | (-2.2–-0.9) |
| | | 10.5 | 18.8 | 6704.0 | 4074.8 | -1.5 |
| | High systolic blood pressure | (7.80–13.0) | (14.9–22.5) | (5104.7–8135.3) | (3229.6–4827.0) | (-2.1–-0.7) |
| | | 2.70 | 7.70 | 1526.3 | 1527.1 | 0.0 |
| | High body-mass index | (1.35–4.10) | (4.22–11.0) | (782.2–2290.6) | (847.4–2178.1) | (-0.8–0.8) |
| | | 2.12 | 3.74 | 1361.4 | 825.8 | -1.5 |
| | Kidney dysfunction | (1.56–2.75) | (2.69–5.11) | (975.7–1806.9) | (587.3–1143.5) | (-2.0–-1.1) |
| | | 8.88 | 14.9 | 5166.9 | 2963.1 | -1.7 |
| | Behavioral risks | (5.03–11.4) | (9.68–18.8) | (2830.8–6626.1) | (1882.4–3799.6) | (-2.3–-1.1) |
| | | 3.96 | 6.57 | 2179.8 | 1233.3 | -1.7 |
| | Tobacco | (3.19–4.72) | (5.38–7.93) | (1764.9–2563.6) | (1013.9–1489.0) | (-2.5–-1.0) |
| | | 3.02 | 5.01 | 1589.0 | 899.6 | -1.7 |
| | Smoking | (2.36–3.79) | (3.96–6.25) | (1244.8–2007.8) | (706.2–1118.0) | (-2.8–-0.9) |
| | | 0.0473 | 0.0491 | 28.4 | 10.3 | -3.1 |
| | Chewing tobacco | (0.0189–0.0941) | (0.0226–0.0949) | (11.5–55.4) | (4.8–19.7) | (-5.1–-0.7) |
| | | 1.10 | 1.85 | 673.7 | 383.5 | -1.7 |
| | Secondhand smoke | (0.801–1.43) | (1.36–2.35) | (488.6–869.7) | (282.7–489.6) | (-2.4–-1.1) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00481 | 0.00372 | 4.1 | 1.2 | |
| | High alcohol use | (-0.0135–0.0472) | (-0.0146–0.0640) | (-4.6–24.8) | (-2.1–11.9) | -- |
| | | 6.11 | 10.2 | 3568.7 | 2056.0 | -1.7 |
| | Dietary risks | (0.241–9.11) | (2.07–15.3) | (222.4–5462.4) | (439.5–3113.9) | (-2.4–-0.9) |
| | | 1.18 | 1.69 | 646.7 | 320.2 | -2.1 |
| | Diet low in fruits | (0.515–1.90) | (0.666–3.08) | (289.6–1033.1) | (131.0–583.3) | (-4.1–-0.3) |
| | | 0.878 | 1.27 | 516.4 | 258.4 | -2.1 |
| | Diet low in vegetables | (0.508–1.29) | (0.687–2.03) | (304.3–749.3) | (140.3–407.1) | (-3.4–-0.8) |
| | | 0.769 | 1.21 | 427.6 | 232.9 | -1.8 |
| | Diet low in legumes | (-0.739–2.00) | (-1.01–3.16) | (-409.0–1130.8) | (-192.0–619.2) | (-3.2–-0.9) |
| | | 0.890 | 1.45 | 482.6 | 274.1 | -1.7 |
| | Diet low in whole grains | (0.353–1.53) | (0.523–2.49) | (192.7–832.5) | (97.6–472.8) | (-3.6–0.1) |
| | | 1.48 | 2.33 | 816.8 | 441.5 | -1.9 |
| | Diet low in nuts and seeds | (0.466–2.40) | (0.648–4.03) | (255.4–1334.4) | (120.5–771.9) | (-3.2–-0.8) |
| | | -0.0602 | -0.00241 | -28.6 | -1.0 | |
| | Diet high in red meat | (-0.462–0.261) | (-0.373–0.272) | (-222.3–122.5) | (-62.5–46.0) | -- |
| | | 0.0448 | 0.116 | 23.6 | 20.9 | -0.4 |
| | Diet high in processed meat | (-0.00381–0.100) | (-0.0104–0.260) | (-1.4–51.6) | (-1.4–45.8) | (-1.8–0.9) |
| | | 0.0671 | 0.224 | 33.0 | 38.5 | 0.5 |
| | Diet high in sugar-sweetened beverages | (0.0198–0.169) | (0.0777–0.391) | (9.8–82.1) | (13.7–68.2) | (-1.6–3.9) |
| | | 0.262 | 0.358 | 141.2 | 67.2 | -2.3 |
| | Diet low in fiber | (0.0513–0.725) | (0.0510–1.00) | (28.8–393.0) | (9.7–187.2) | (-7.4–2.5) |
| | | 1.41 | 1.78 | 784.6 | 344.7 | -2.5 |
| | Diet low in seafood omega-3 fatty acids | (0.369–2.50) | (0.473–3.19) | (201.7–1401.4) | (91.6–630.7) | (-3.8–-1.4) |
| | | 0.892 | 1.47 | 496.1 | 283.0 | -1.7 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-2.97–3.36) | (-4.04–5.42) | (-1631.2–1900.3) | (-764.4–1058.6) | (-2.6–-0.9) |
| | | 0.701 | 1.41 | 380.7 | 263.2 | -1.1 |
| | Diet high in trans fatty acids | (0.0320–1.47) | (0.0816–2.67) | (17.3–806.7) | (15.0–500.4) | (-2.2–0.2) |
| | | 0.452 | 0.890 | 343.8 | 231.6 | -1.2 |
| | Diet high in sodium | (0.000720–1.95) | (0.00379–3.66) | (1.8–1372.6) | (2.1–875.2) | (-5.9–6.2) |
| | | 0.594 | 1.00 | 364.3 | 210.0 | -1.7 |
| | Low physical activity | (0.246–0.899) | (0.437–1.58) | (144.6–572.8) | (85.6–333.6) | (-2.2–-1.2) |
| | | 8.35 | 14.1 | 5123.3 | 3007.5 | -1.6 |
| | Environmental/occupational risks | (6.99–9.56) | (11.9–16.4) | (4309.6–5843.2) | (2534.3–3500.8) | (-2.0–-1.2) |
| | | 4.96 | 7.59 | 3059.4 | 1585.7 | -2.0 |
| | Air pollution | (3.92–5.94) | (5.79–9.35) | (2422.4–3654.7) | (1213.3–1954.0) | (-2.5–-1.5) |
| | | 4.96 | 7.59 | 3059.4 | 1585.7 | -2.0 |
| | Particulate matter pollution | (3.92–5.94) | (5.79–9.35) | (2422.4–3654.7) | (1213.3–1954.0) | (-2.5–-1.5) |
| | | 2.77 | 6.57 | 1708.0 | 1377.8 | -0.7 |
| | Ambient particulate matter pollution | (2.08–3.44) | (4.98–8.05) | (1284.5–2114.5) | (1045.5–1687.0) | (-1.2–0.0) |
| | | 2.19 | 1.05 | 1351.4 | 214.9 | -5.6 |
| | Household air pollution from solid fuels | (1.55–2.90) | (0.808–1.30) | (961.0–1799.3) | (164.5–263.4) | (-6.3–-4.9) |
| | | 1.73 | 2.74 | 1006.3 | 574.9 | -1.7 |
| | Non-optimal temperature | (1.37–2.24) | (2.02–3.85) | (807.4–1301.4) | (429.7–800.3) | (-2.2–-1.1) |
| | | 0.394 | 0.982 | 217.6 | 198.8 | -0.3 |
| | High temperature | (0.190–0.705) | (0.443–1.78) | (103.7–398.4) | (90.2–360.9) | (-1.0–0.5) |
| | | 1.36 | 1.82 | 804.4 | 388.5 | -2.2 |
| | Low temperature | (1.17–1.63) | (1.56–2.15) | (696.0–947.7) | (336.2–459.1) | (-2.7–-1.7) |
| | | 3.27 | 6.73 | 2064.0 | 1473.3 | -1.0 |
| | Other environmental risks | (2.47–4.03) | (5.40–8.27) | (1568.2–2534.5) | (1165.8–1806.7) | (-1.6–-0.5) |
| | | 3.27 | 6.73 | 2064.0 | 1473.3 | -1.0 |
| | Lead exposure | (2.47–4.03) | (5.40–8.27) | (1568.2–2534.5) | (1165.8–1806.7) | (-1.6–-0.5) |
| **South Asia** | | | | | | |
| | | 34.0 | 81.3 | 5698.5 | 5221.5 | -0.3 |
| | All risk factors | (26.9–40.1) | (70.8–93.5) | (4541.1–6701.7) | (4549.1–5998.4) | (-0.9–0.5) |
| | | 26.0 | 65.5 | 4428.3 | 4225.9 | -0.1 |
| | Metabolic risks | (20.4–31.8) | (55.3–76.2) | (3475.2–5403.7) | (3536.5–4935.9) | (-0.9–0.8) |
| | | 2.39 | 7.86 | 440.2 | 524.0 | 0.5 |
| | High fasting plasma glucose | (1.69–3.40) | (6.02–10.6) | (309.9–607.7) | (407.5–696.9) | (-0.6–1.6) |
| | | 8.64 | 21.3 | 1311.4 | 1291.8 | 0.0 |
| | High LDL cholesterol | (5.39–12.5) | (14.0–29.4) | (787.3–1967.1) | (843.6–1813.3) | (-1.0–1.0) |
| | | 18.6 | 47.3 | 3267.0 | 3095.6 | -0.2 |
| | High systolic blood pressure | (12.7–25.6) | (36.0–59.0) | (2284.7–4407.6) | (2377.5–3872.2) | (-1.1–1.1) |
| | | 0.790 | 6.95 | 119.3 | 416.6 | 3.8 |
| | High body-mass index | (0.385–1.29) | (3.68–10.1) | (60.4–193.3) | (225.5–605.1) | (2.5–5.1) |
| | | 4.96 | 11.3 | 866.7 | 753.0 | -0.4 |
| | Kidney dysfunction | (3.58–6.41) | (8.53–14.5) | (621.9–1119.1) | (562.1–967.6) | (-1.1–0.3) |
| | | 23.0 | 49.7 | 3702.0 | 3104.2 | -0.5 |
| | Behavioral risks | (12.0–30.3) | (27.3–64.7) | (1953.5–4916.6) | (1721.0–4006.5) | (-1.3–0.2) |
| | | 9.31 | 16.9 | 1482.9 | 1057.0 | -1.0 |
| | Tobacco | (7.21–11.7) | (13.7–20.5) | (1149.8–1859.2) | (858.4–1267.9) | (-1.8–-0.1) |
| | | 6.15 | 10.3 | 941.7 | 624.5 | -1.2 |
| | Smoking | (4.47–7.91) | (8.10–13.0) | (682.9–1214.2) | (495.2–784.8) | (-2.2–-0.2) |
| | | 1.40 | 2.98 | 242.0 | 196.3 | -0.6 |
| | Chewing tobacco | (0.691–2.50) | (1.48–4.80) | (120.0–432.9) | (96.5–317.6) | (-2.5–1.3) |
| | | 2.40 | 4.67 | 400.4 | 296.6 | -0.9 |
| | Secondhand smoke | (1.72–3.21) | (3.38–5.96) | (287.8–528.1) | (215.1–376.8) | (-1.8–-0.1) |
| | | -0.0746 | 0.0272 | -5.6 | 3.6 | |
| | High alcohol use | (-0.458–0.481) | (-0.428–0.918) | (-58.2–69.7) | (-21.7–54.0) | -- |
| | | 18.1 | 39.4 | 2865.0 | 2438.2 | -0.5 |
| | Dietary risks | (3.68–26.7) | (10.2–56.7) | (642.3–4263.0) | (643.4–3524.2) | (-1.2–0.4) |
| | | 6.86 | 14.9 | 1050.1 | 910.8 | -0.4 |
| | Diet low in fruits | (2.29–11.3) | (5.37–23.6) | (369.5–1742.8) | (346.8–1433.5) | (-1.2–0.5) |
| | | 2.97 | 5.75 | 480.8 | 364.8 | -0.8 |
| | Diet low in vegetables | (1.55–4.62) | (3.37–8.34) | (261.9–735.4) | (216.9–523.3) | (-2.0–0.2) |
| | | 1.46 | 2.79 | 219.9 | 167.7 | -0.8 |
| | Diet low in legumes | (-1.34–3.99) | (-2.38–7.16) | (-202.7–612.1) | (-140.7–434.8) | (-2.2–0.3) |
| | | 2.65 | 6.15 | 396.2 | 369.5 | -0.2 |
| | Diet low in whole grains | (1.11–4.51) | (2.62–9.86) | (163.8–680.0) | (158.4–594.7) | (-2.0–1.7) |
| | | 4.15 | 8.06 | 617.0 | 481.2 | -0.8 |
| | Diet low in nuts and seeds | (1.32–6.90) | (2.51–13.3) | (194.9–1030.3) | (148.4–802.8) | (-2.0–0.4) |
| | | -0.0470 | -0.113 | -6.8 | -6.5 | |
| | Diet high in red meat | (-0.218–0.0571) | (-0.533–0.187) | (-31.8–8.1) | (-30.5–10.4) | -- |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0620 | 0.209 | 9.2 | 12.5 | 0.9 |
| | Diet high in processed meat | (-0.00639–0.137) | (-0.0208–0.499) | (-0.7–19.8) | (-1.0–29.7) | (-0.8–3.0) |
| | | 0.0623 | 0.278 | 8.5 | 15.9 | 1.9 |
| | Diet high in sugar-sweetened beverages | (0.0142–0.178) | (0.0458–0.821) | (1.9–24.4) | (2.7–47.4) | (2.2–6.7) |
| | | 2.32 | 3.80 | 341.1 | 226.4 | -1.2 |
| | Diet low in fiber | (0.836–4.69) | (1.09–7.90) | (120.5–695.2) | (63.4–474.1) | (-4.0–1.1) |
| | | 3.51 | 4.86 | 521.1 | 291.6 | -1.8 |
| | Diet low in seafood omega-3 fatty acids | (0.856–6.42) | (1.30–8.76) | (123.0–959.3) | (78.0–532.8) | (-3.4–-0.5) |
| | | 2.55 | 5.29 | 383.5 | 319.2 | -0.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-9.19–9.89) | (-17.5–20.2) | (-1348.8–1510.5) | (-1041.2–1228.0) | (-1.4–0.4) |
| | | 2.74 | 4.58 | 405.2 | 273.8 | -1.2 |
| | Diet high in trans fatty acids | (0.126–5.54) | (0.268–8.85) | (18.3–825.6) | (15.8–524.7) | (-2.4–0.2) |
| | | 2.07 | 5.51 | 348.5 | 347.6 | 0.0 |
| | Diet high in sodium | (0.0233–6.37) | (0.119–17.4) | (3.3–1103.0) | (6.7–1112.2) | (-4.7–6.2) |
| | | 0.639 | 1.40 | 119.7 | 97.2 | -0.6 |
| | Low physical activity | (0.262–1.04) | (0.547–2.43) | (48.3–199.7) | (35.9–173.0) | (-1.8–0.4) |
| | | 20.2 | 46.0 | 3374.1 | 2955.4 | -0.4 |
| | Environmental/occupational risks | (15.4–25.1) | (37.7–54.9) | (2545.3–4162.3) | (2411.7–3521.0) | (-1.1–0.4) |
| | | 14.3 | 29.7 | 2387.4 | 1895.1 | -0.7 |
| | Air pollution | (10.3–18.0) | (23.5–37.0) | (1736.6–3011.9) | (1494.0–2344.7) | (-1.4–0.1) |
| | | 14.3 | 29.7 | 2387.4 | 1895.1 | -0.7 |
| | Particulate matter pollution | (10.3–18.0) | (23.5–37.0) | (1736.6–3011.9) | (1494.0–2344.7) | (-1.4–0.1) |
| | | 2.73 | 15.1 | 452.6 | 962.8 | 2.3 |
| | Ambient particulate matter pollution | (1.46–4.44) | (11.2–19.9) | (244.4–737.6) | (718.8–1271.2) | (0.9–4.1) |
| | | 11.6 | 14.6 | 1934.8 | 934.1 | -2.2 |
| | Household air pollution from solid fuels | (8.52–14.8) | (10.3–19.6) | (1401.6–2491.4) | (658.4–1241.6) | (-3.0–-1.3) |
| | | 2.30 | 5.93 | 368.1 | 377.4 | 0.1 |
| | Non-optimal temperature | (1.46–3.36) | (3.89–8.43) | (236.9–537.0) | (249.3–532.2) | (-0.6–0.9) |
| | | 0.816 | 2.84 | 129.6 | 181.1 | 1.0 |
| | High temperature | (0.339–1.37) | (1.55–4.41) | (54.5–215.3) | (99.5–278.5) | (0.2–2.3) |
| | | 1.53 | 3.22 | 245.9 | 204.3 | -0.6 |
| | Low temperature | (1.03–2.08) | (2.37–4.22) | (169.9–332.2) | (151.1–266.6) | (-1.3–0.3) |
| | | 7.97 | 20.3 | 1348.0 | 1323.8 | -0.1 |
| | Other environmental risks | (5.68–10.1) | (14.9–25.9) | (955.9–1706.9) | (948.3–1687.5) | (-0.8–0.8) |
| | | 7.97 | 20.3 | 1348.0 | 1323.8 | -0.1 |
| | Lead exposure | (5.68–10.1) | (14.9–25.9) | (955.9–1706.9) | (948.3–1687.5) | (-0.8–0.8) |
| **Southeast Asia, East Asia, and Oceania** | | | | | | |
| | | 83.7 | 119 | 7721.8 | 3989.4 | -2.0 |
| | All risk factors | (71.6–94.9) | (107–130) | (6638.6–8704.8) | (3543.8–4341.4) | (-2.4–-1.5) |
| | | 64.0 | 101 | 5991.4 | 3368.8 | -1.7 |
| | Metabolic risks | (49.0–78.8) | (86.5–114) | (4632.2–7265.4) | (2878.2–3822.4) | (-2.3–-1.1) |
| | | 6.39 | 12.4 | 613.5 | 410.8 | -1.2 |
| | High fasting plasma glucose | (4.31–9.84) | (10.0–15.2) | (423.4–924.7) | (330.0–506.8) | (-2.4–-0.1) |
| | | 14.7 | 28.8 | 1270.6 | 962.8 | -0.8 |
| | High LDL cholesterol | (8.76–21.3) | (18.8–39.6) | (732.6–1910.3) | (629.3–1327.2) | (-1.5–0.0) |
| | | 50.7 | 79.4 | 4825.6 | 2638.0 | -1.8 |
| | High systolic blood pressure | (34.2–67.2) | (61.1–95.0) | (3296.9–6303.9) | (2031.3–3171.9) | (-2.7–-0.8) |
| | | 3.61 | 9.74 | 292.3 | 323.6 | 0.3 |
| | High body-mass index | (2.10–5.46) | (5.28–15.0) | (168.7–450.6) | (171.4–496.8) | (-1.1–1.7) |
| | | 8.44 | 14.3 | 798.3 | 477.9 | -1.6 |
| | Kidney dysfunction | (6.20–10.9) | (10.3–18.5) | (572.8–1053.8) | (342.3–620.4) | (-2.0–-1.0) |
| | | 52.1 | 69.3 | 4589.1 | 2295.4 | -2.1 |
| | Behavioral risks | (39.4–64.9) | (49.3–83.4) | (3423.5–5714.5) | (1619.2–2763.8) | (-2.6–-1.5) |
| | | 24.7 | 33.0 | 2100.6 | 1085.7 | -2.0 |
| | Tobacco | (20.2–29.7) | (28.3–38.0) | (1713.9–2551.5) | (931.2–1246.1) | (-2.6–-1.3) |
| | | 19.8 | 26.2 | 1636.5 | 857.7 | -2.0 |
| | Smoking | (15.9–24.9) | (21.8–31.2) | (1305.0–2077.3) | (708.8–1015.1) | (-2.7–-1.1) |
| | | 0.337 | 0.499 | 30.7 | 16.7 | -1.9 |
| | Chewing tobacco | (0.120–0.710) | (0.202–1.01) | (10.8–64.3) | (6.7–33.8) | (-4.5–1.1) |
| | | 5.67 | 7.62 | 522.9 | 256.5 | -2.2 |
| | Secondhand smoke | (4.03–7.48) | (5.65–9.76) | (369.0–689.8) | (188.8–329.6) | (-2.7–-1.5) |
| | | 1.23 | 1.55 | 119.5 | 48.4 | |
| | High alcohol use | (-0.358–3.41) | (-0.313–4.21) | (-15.1–295.1) | (-12.0–134.7) | -- |
| | | 36.1 | 46.4 | 3170.4 | 1542.5 | -2.2 |
| | Dietary risks | (16.4–50.5) | (21.4–64.1) | (1390.7–4525.1) | (711.4–2136.4) | (-3.0–-1.5) |
| | | 11.4 | 11.2 | 960.2 | 379.4 | -2.8 |
| | Diet low in fruits | (3.47–18.0) | (3.60–19.1) | (318.0–1518.2) | (123.0–638.4) | (-3.9–-1.9) |
| | | 3.50 | 3.32 | 315.3 | 112.9 | -3.1 |
| | Diet low in vegetables | (1.70–5.56) | (1.83–5.33) | (152.4–495.4) | (62.0–182.4) | (-4.3–-1.5) |
| | | 2.75 | 4.67 | 230.5 | 158.7 | -1.1 |
| | Diet low in legumes | (-2.66–6.99) | (-3.78–12.0) | (-218.0–588.1) | (-129.2–406.2) | (-2.3–-0.1) |
| | | 4.81 | 8.53 | 401.0 | 288.1 | -1.0 |
| | Diet low in whole grains | (1.43–7.99) | (3.45–13.6) | (117.8–669.4) | (118.1–457.2) | (-2.2–0.6) |
| | | 3.83 | 4.51 | 319.5 | 154.9 | -2.2 |
| | Diet low in nuts and seeds | (1.15–6.27) | (1.21–8.46) | (93.5–528.3) | (42.4–290.4) | (-4.5–-0.6) |
| | | -2.02 | -0.852 | -156.4 | -28.2 | |
| | Diet high in red meat | (-11.5–3.83) | (-8.11–4.53) | (-903.0–298.2) | (-272.2–150.5) | -- |
| | | 0.0918 | 0.353 | 7.5 | 11.9 | 1.4 |
| | Diet high in processed meat | (0.00422–0.185) | (-0.0104–0.829) | (0.5–14.7) | (-0.4–27.9) | (-0.5–3.3) |
| | | 0.0556 | 0.435 | 4.2 | 15.2 | 3.9 |
| | Diet high in sugar-sweetened beverages | (0.0178–0.131) | (0.162–0.906) | (1.4–9.8) | (5.7–31.5) | (1.3–7.8) |
| | | 5.32 | 4.92 | 429.0 | 171.0 | -2.8 |
| | Diet low in fiber | (0.619–11.7) | (0.916–11.4) | (51.8–966.3) | (32.7–392.5) | (-5.7–0.3) |
| | | 2.71 | 1.89 | 228.1 | 65.1 | -3.8 |
| | Diet low in seafood omega-3 fatty acids | (0.657–4.91) | (0.332–4.67) | (53.3–417.8) | (11.7–159.8) | (-7.6–-1.4) |
| | | 2.23 | 2.85 | 186.3 | 97.0 | -2.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-6.82–8.29) | (-6.89–11.8) | (-547.0–698.3) | (-237.9–401.2) | (-3.3–-0.7) |
| | | 1.69 | 2.38 | 139.3 | 80.7 | -1.7 |
| | Diet high in trans fatty acids | (0.0722–3.39) | (0.119–4.75) | (6.0–285.3) | (4.0–160.9) | (-3.0–-0.1) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 18.1 | 20.7 | 1609.3 | 665.2 | -2.7 |
| | Diet high in sodium | (5.69–33.1) | (5.39–39.9) | (458.3–2993.5) | (167.5–1296.4) | (-4.7–-1.2) |
| | | 1.35 | 2.57 | 131.2 | 85.3 | -1.3 |
| | Low physical activity | (0.510–2.19) | (1.01–4.20) | (47.2–229.5) | (30.4–142.6) | (-2.0–-0.3) |
| | | 47.0 | 55.9 | 4332.0 | 1870.8 | -2.5 |
| | Environmental/occupational risks | (36.8–57.4) | (45.3–66.3) | (3417.8–5263.9) | (1510.3–2225.6) | (-3.0–-2.0) |
| | | 35.3 | 34.5 | 3250.0 | 1154.4 | -3.1 |
| | Air pollution | (25.5–45.8) | (25.9–43.4) | (2351.9–4170.7) | (869.9–1448.5) | (-3.7–-2.5) |
| | | 35.3 | 34.5 | 3250.0 | 1154.4 | -3.1 |
| | Particulate matter pollution | (25.5–45.8) | (25.9–43.4) | (2351.9–4170.7) | (869.9–1448.5) | (-3.7–-2.5) |
| | | 7.67 | 27.2 | 702.6 | 910.7 | 0.8 |
| | Ambient particulate matter pollution | (4.00–12.6) | (20.8–34.5) | (361.9–1147.7) | (696.3–1153.0) | (-0.8–2.4) |
| | | 27.7 | 7.43 | 2547.4 | 248.3 | -7.1 |
| | Household air pollution from solid fuels | (19.0–36.0) | (3.23–14.1) | (1746.6–3282.2) | (107.8–474.0) | (-9.3–-5.2) |
| | | 6.56 | 7.27 | 601.9 | 245.5 | -2.7 |
| | Non-optimal temperature | (5.26–8.03) | (6.28–8.65) | (488.6–736.8) | (212.5–294.4) | (-3.3–-2.1) |
| | | 0.413 | 1.06 | 38.0 | 35.8 | -0.2 |
| | High temperature | (0.0200–1.01) | (0.481–2.04) | (1.6–94.6) | (16.2–69.4) | (-1.6–7.2) |
| | | 6.17 | 6.26 | 566.2 | 211.3 | -3.0 |
| | Low temperature | (5.16–7.26) | (5.48–7.01) | (479.3–656.8) | (184.4–237.0) | (-3.5–-2.4) |
| | | 13.0 | 23.6 | 1215.0 | 792.1 | -1.3 |
| | Other environmental risks | (7.61–19.2) | (16.5–30.6) | (708.8–1799.8) | (553.3–1028.7) | (-1.9–-0.4) |
| | | 13.0 | 23.6 | 1215.0 | 792.1 | -1.3 |
| | Lead exposure | (7.61–19.2) | (16.5–30.6) | (708.8–1799.8) | (553.3–1028.7) | (-1.9–-0.4) |
| **East Asia** | | | | | | |
| | | 66.3 | 80.1 | 8067.6 | 3477.8 | -2.5 |
| | All risk factors | (56.5–77.3) | (70.4–89.0) | (6871.0–9271.2) | (3056.5–3869.2) | (-3.0–-2.0) |
| | | 49.8 | 67.2 | 6153.4 | 2913.4 | -2.3 |
| | Metabolic risks | (37.0–62.3) | (55.8–78.1) | (4652.8–7609.8) | (2408.6–3384.6) | (-3.0–-1.5) |
| | | 5.35 | 9.53 | 668.0 | 408.3 | -1.5 |
| | High fasting plasma glucose | (3.55–8.41) | (7.59–11.6) | (454.6–1025.1) | (325.4–501.4) | (-2.7–-0.3) |
| | | 10.9 | 18.9 | 1240.2 | 828.0 | -1.2 |
| | High LDL cholesterol | (6.31–16.2) | (12.0–26.9) | (705.8–1907.3) | (532.6–1166.5) | (-2.0–-0.3) |
| | | 39.2 | 52.7 | 4938.9 | 2272.9 | -2.4 |
| | High systolic blood pressure | (25.2–54.8) | (37.7–67.3) | (3233.0–6669.1) | (1615.1–2910.1) | (-3.4–-1.2) |
| | | 2.96 | 6.23 | 313.7 | 272.1 | -0.4 |
| | High body-mass index | (1.75–4.73) | (3.29–9.99) | (183.9–496.4) | (142.4–435.0) | (-2.0–1.0) |
| | | 6.15 | 8.78 | 770.0 | 381.4 | -2.1 |
| | Kidney dysfunction | (4.44–7.98) | (6.02–11.6) | (544.2–1024.0) | (260.3–505.1) | (-2.8–-1.5) |
| | | 40.9 | 45.9 | 4744.4 | 1987.2 | -2.6 |
| | Behavioral risks | (30.7–51.7) | (34.6–56.3) | (3527.7–6012.9) | (1498.7–2438.7) | (-3.2–-1.9) |
| | | 19.6 | 22.4 | 2181.6 | 969.3 | -2.5 |
| | Tobacco | (15.6–24.2) | (18.6–26.5) | (1743.5–2695.0) | (805.1–1145.3) | (-3.2–-1.7) |
| | | 15.8 | 18.1 | 1712.7 | 782.2 | -2.4 |
| | Smoking | (12.3–20.5) | (14.7–22.2) | (1340.1–2234.4) | (630.7–956.7) | (-3.2–-1.4) |
| | | 0.114 | 0.136 | 12.7 | 6.0 | -2.3 |
| | Chewing tobacco | (0.0368–0.255) | (0.0430–0.314) | (4.1–28.3) | (1.9–13.9) | (-5.4–1.2) |
| | | 4.48 | 5.04 | 544.5 | 220.8 | -2.7 |
| | Secondhand smoke | (3.12–5.96) | (3.59–6.50) | (380.3–724.0) | (156.9–283.9) | (-3.5–-2.0) |
| | | 1.24 | 1.32 | 152.8 | 52.5 | |
| | High alcohol use | (-0.252–3.23) | (-0.165–3.43) | (-9.0–366.3) | (-11.1–142.3) | -- |
| | | 27.8 | 30.1 | 3230.2 | 1304.4 | -2.7 |
| | Dietary risks | (14.6–40.3) | (15.4–41.9) | (1614.7–4683.1) | (665.3–1805.4) | (-3.5–-1.9) |
| | | 9.06 | 6.83 | 1015.1 | 304.7 | -3.6 |
| | Diet low in fruits | (2.75–14.7) | (2.07–11.5) | (347.7–1645.2) | (92.3–510.8) | (-5.0–-2.7) |
| | | 1.69 | 0.521 | 218.9 | 23.5 | -6.8 |
| | Diet low in vegetables | (0.509–2.98) | (0.174–1.14) | (74.7–379.3) | (7.9–51.3) | (-10.0–-3.5) |
| | | 2.02 | 2.88 | 224.9 | 128.7 | -1.7 |
| | Diet low in legumes | (-1.81–5.07) | (-2.28–7.39) | (-198.1–581.3) | (-102.3–329.6) | (-3.1–-0.5) |
| | | 3.33 | 4.88 | 367.8 | 216.8 | -1.6 |
| | Diet low in whole grains | (0.830–5.90) | (1.70–8.14) | (96.2–645.0) | (76.8–357.4) | (-3.2–0.5) |
| | | 2.76 | 2.38 | 306.6 | 108.3 | -3.2 |
| | Diet low in nuts and seeds | (0.798–4.73) | (0.552–4.66) | (86.6–526.8) | (25.3–210.0) | (-6.5–-1.0) |
| | | -1.90 | -0.470 | -192.5 | -21.3 | |
| | Diet high in red meat | (-11.0–3.58) | (-6.33–3.42) | (-1122.8–364.1) | (-283.9–152.3) | -- |
| | | 0.0687 | 0.260 | 7.5 | 11.7 | 1.4 |
| | Diet high in processed meat | (0.00547–0.138) | (0.00218–0.621) | (0.8–14.6) | (-0.2–27.8) | (-0.7–3.5) |
| | | 0.0315 | 0.271 | 3.2 | 12.7 | 4.2 |
| | Diet high in sugar-sweetened beverages | (0.0105–0.0720) | (0.0969–0.586) | (1.1–7.2) | (4.5–27.7) | (1.0–8.1) |
| | | 3.39 | 1.54 | 363.1 | 72.9 | -4.9 |
| | Diet low in fiber | (0.259–8.47) | (0.128–4.88) | (28.5–911.6) | (6.6–226.9) | (-10.3–0.0) |
| | | 2.33 | 1.67 | 259.6 | 76.1 | -3.7 |
| | Diet low in seafood omega-3 fatty acids | (0.551–4.18) | (0.310–4.05) | (59.2–475.3) | (14.4–182.4) | (-7.3–-1.5) |
| | | 1.49 | 0.899 | 165.3 | 40.5 | -4.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-4.05–5.53) | (-1.75–4.25) | (-437.1–615.3) | (-79.3–189.7) | (-9.9–-2.1) |
| | | 1.35 | 1.99 | 148.2 | 89.3 | -1.5 |
| | Diet high in trans fatty acids | (0.0573–2.74) | (0.0978–4.02) | (6.3–305.6) | (4.4–179.4) | (-2.9–0.0) |
| | | 15.1 | 15.4 | 1751.4 | 649.4 | -3.0 |
| | Diet high in sodium | (5.23–27.3) | (4.83–28.8) | (547.8–3241.3) | (198.6–1213.3) | (-4.7–-1.4) |
| | | 1.05 | 1.76 | 133.3 | 76.0 | -1.7 |
| | Low physical activity | (0.389–1.72) | (0.607–3.00) | (47.9–235.4) | (25.7–131.4) | (-2.7–-0.5) |
| | | 38.4 | 40.3 | 4665.3 | 1752.8 | -3.0 |
| | Environmental/occupational risks | (29.7–47.7) | (32.8–46.9) | (3617.9–5720.1) | (1420.3–2042.6) | (-3.5–-2.4) |
| | | 28.4 | 24.3 | 3442.2 | 1054.0 | -3.6 |
| | Air pollution | (20.4–36.8) | (18.3–30.4) | (2477.8–4448.3) | (794.1–1318.9) | (-4.2–-2.9) |
| | | 28.4 | 24.3 | 3442.2 | 1054.0 | -3.6 |
| | Particulate matter pollution | (20.4–36.8) | (18.3–30.4) | (2477.8–4448.3) | (794.1–1318.9) | (-4.2–-2.9) |
| | | 6.11 | 21.1 | 737.7 | 914.6 | 0.7 |
| | Ambient particulate matter pollution | (2.77–10.8) | (16.1–26.6) | (329.7–1301.0) | (699.6–1148.5) | (-1.1–2.7) |
| | | 22.3 | 3.34 | 2704.5 | 144.8 | -8.9 |
| | Household air pollution from solid fuels | (15.2–29.3) | (0.790–8.26) | (1849.1–3550.3) | (34.4–358.8) | (-13.1–-6.2) |
| | | 6.26 | 6.48 | 755.2 | 283.6 | -3.0 |
| | Non-optimal temperature | (5.04–7.65) | (5.58–7.80) | (616.9–921.4) | (244.1–343.4) | (-3.5–-2.4) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.326 | 0.597 | 39.6 | 26.4 | |
| | High temperature | (-0.0337–0.906) | (0.115–1.47) | (-4.2–110.5) | (5.2–65.2) | -- |
| | | 5.96 | 5.93 | 718.5 | 259.0 | -3.1 |
| | Low temperature | (4.98–6.97) | (5.17–6.63) | (608.8–831.5) | (225.3–290.2) | (-3.6–-2.5) |
| | | 10.6 | 17.2 | 1307.9 | 747.6 | -1.7 |
| | Other environmental risks | (6.00–15.9) | (12.3–22.3) | (737.9–1973.6) | (534.9–970.2) | (-2.4–-0.6) |
| | | 10.6 | 17.2 | 1307.9 | 747.6 | -1.7 |
| | Lead exposure | (6.00–15.9) | (12.3–22.3) | (737.9–1973.6) | (534.9–970.2) | (-2.4–-0.6) |
| **Oceania** | | | | | | |
| | | 0.233 | 0.684 | 7715.5 | 7868.3 | 0.1 |
| | All risk factors | (0.187–0.283) | (0.583–0.794) | (6235.3–9219.5) | (6800.2–9054.5) | (-0.5–0.6) |
| | | 0.175 | 0.556 | 5887.4 | 6443.9 | 0.3 |
| | Metabolic risks | (0.140–0.217) | (0.457–0.667) | (4722.6–7188.4) | (5372.1–7740.8) | (-0.4–0.9) |
| | | 0.0163 | 0.0544 | 602.5 | 684.7 | 0.4 |
| | High fasting plasma glucose | (0.0112–0.0247) | (0.0408–0.0752) | (423.6–876.8) | (521.0–936.6) | (-0.6–1.5) |
| | | 0.0670 | 0.205 | 1987.4 | 2114.2 | 0.2 |
| | High LDL cholesterol | (0.0424–0.0906) | (0.144–0.278) | (1220.8–2751.7) | (1433.0–2892.1) | (-0.5–1.0) |
| | | 0.111 | 0.388 | 3960.8 | 4672.8 | 0.5 |
| | High systolic blood pressure | (0.0793–0.151) | (0.278–0.497) | (2882.5–5294.8) | (3406.3–5914.5) | (-0.5–1.6) |
| | | 0.0316 | 0.125 | 889.0 | 1222.7 | 1.0 |
| | High body-mass index | (0.0161–0.0487) | (0.0604–0.192) | (455.1–1347.7) | (596.8–1885.5) | (0.0–1.9) |
| | | 0.0285 | 0.0870 | 1011.4 | 1077.8 | 0.2 |
| | Kidney dysfunction | (0.0208–0.0381) | (0.0664–0.115) | (751.2–1333.0) | (822.0–1418.9) | (-0.4–0.7) |
| | | 0.160 | 0.462 | 4966.3 | 4990.9 | 0.0 |
| | Behavioral risks | (0.107–0.209) | (0.285–0.583) | (3159.3–6540.0) | (2967.5–6416.5) | (-0.6–0.6) |
| | | 0.0709 | 0.196 | 2056.4 | 1983.6 | -0.1 |
| | Tobacco | (0.0532–0.0924) | (0.160–0.244) | (1545.4–2663.9) | (1609.7–2457.4) | (-1.0–0.8) |
| | | 0.0541 | 0.143 | 1476.0 | 1351.2 | -0.3 |
| | Smoking | (0.0382–0.0721) | (0.112–0.189) | (1032.5–1985.7) | (1044.3–1788.9) | (-1.4–0.9) |
| | | 0.00136 | 0.00415 | 31.3 | 35.2 | 0.4 |
| | Chewing tobacco | (0.000494–0.00303) | (0.00146–0.00850) | (11.2–67.8) | (12.3–73.6) | (-2.4–3.5) |
| | | 0.0204 | 0.0623 | 681.9 | 724.8 | 0.2 |
| | Secondhand smoke | (0.0143–0.0277) | (0.0451–0.0809) | (484.3–918.1) | (529.4–935.2) | (-0.6–0.9) |
| | | 0.0000145 | -0.000343 | 6.7 | 1.7 | |
| | High alcohol use | (-0.00128–0.00238) | (-0.00377–0.00679) | (-23.3–64.4) | (-27.2–65.6) | -- |
| | | 0.123 | 0.366 | 3845.9 | 3959.2 | 0.1 |
| | Dietary risks | (0.0417–0.178) | (0.112–0.524) | (1255.9–5559.8) | (1375.7–5693.8) | (-0.8–0.9) |
| | | 0.0313 | 0.0749 | 895.6 | 749.0 | -0.5 |
| | Diet low in fruits | (0.0112–0.0536) | (0.0234–0.134) | (325.5–1526.9) | (236.3–1347.5) | (-2.1–0.9) |
| | | 0.0361 | 0.0985 | 1073.6 | 1014.3 | -0.2 |
| | Diet low in vegetables | (0.0154–0.0570) | (0.0436–0.156) | (474.2–1677.6) | (442.1–1599.8) | (-1.0–0.6) |
| | | 0.0110 | 0.0387 | 317.5 | 393.1 | 0.6 |
| | Diet low in legumes | (-0.00865–0.0312) | (-0.0344–0.0993) | (-255.0–891.9) | (-336.6–1010.2) | (-0.9–2.0) |
| | | 0.0336 | 0.104 | 964.6 | 1053.2 | 0.3 |
| | Diet low in whole grains | (0.0171–0.0527) | (0.0600–0.148) | (482.5–1476.1) | (580.7–1522.2) | (-0.6–1.0) |
| | | 0.0256 | 0.0923 | 732.7 | 923.3 | 0.7 |
| | Diet low in nuts and seeds | (0.00769–0.0453) | (0.0291–0.150) | (204.3–1256.7) | (278.8–1533.1) | (-0.5–1.9) |
| | | -0.00191 | -0.00230 | -52.8 | -24.9 | |
| | Diet high in red meat | (-0.0172–0.00789) | (-0.0252–0.0181) | (-440.2–199.9) | (-242.9–166.4) | -- |
| | | 0.000526 | 0.00187 | 14.3 | 17.9 | 0.7 |
| | Diet high in processed meat | (-0.0000721–0.00119) | (-0.000313–0.00465) | (-1.7–30.9) | (-2.6–43.2) | (-1.2–2.5) |
| | | 0.000917 | 0.00337 | 22.7 | 30.8 | 0.9 |
| | Diet high in sugar-sweetened beverages | (0.000185–0.00282) | (0.000622–0.0107) | (4.8–68.3) | (5.8–97.3) | (-3.2–5.7) |
| | | 0.00397 | 0.00510 | 109.0 | 51.1 | -2.3 |
| | Diet low in fiber | (0.00124–0.00937) | (0.000374–0.0198) | (34.5–259.9) | (3.9–195.9) | (-9.6–2.4) |
| | | 0.00912 | 0.0328 | 260.7 | 327.8 | 0.7 |
| | Diet low in seafood omega-3 fatty acids | (0.00194–0.0198) | (0.00831–0.0679) | (52.8–577.0) | (82.3–677.7) | (-2.0–3.2) |
| | | 0.0120 | 0.0467 | 344.5 | 472.0 | 1.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0365–0.0470) | (-0.162–0.170) | (-1006.0–1333.1) | (-1528.1–1728.2) | (-0.1–2.0) |
| | | 0.00795 | 0.0217 | 223.7 | 214.2 | -0.1 |
| | Diet high in trans fatty acids | (0.000359–0.0175) | (0.00132–0.0441) | (10.0–494.0) | (12.8–434.1) | (-1.5–1.5) |
| | | 0.0206 | 0.0558 | 812.9 | 740.3 | -0.3 |
| | Diet high in sodium | (0.00144–0.0516) | (0.00298–0.154) | (58.4–1955.8) | (41.3–1962.1) | (-5.1–3.0) |
| | | 0.00338 | 0.0100 | 111.8 | 115.3 | 0.1 |
| | Low physical activity | (0.00140–0.00501) | (0.00418–0.0162) | (41.9–175.2) | (43.7–188.0) | (-0.9–1.2) |
| | | 0.114 | 0.316 | 3788.8 | 3683.7 | -0.1 |
| | Environmental/occupational risks | (0.0850–0.143) | (0.241–0.388) | (2835.0–4756.9) | (2859.4–4462.9) | (-0.7–0.5) |
| | | 0.0936 | 0.247 | 3116.5 | 2844.0 | -0.3 |
| | Air pollution | (0.0680–0.120) | (0.182–0.311) | (2256.4–3938.0) | (2158.4–3570.9) | (-0.9–0.3) |
| | | 0.0936 | 0.247 | 3116.5 | 2844.0 | -0.3 |
| | Particulate matter pollution | (0.0680–0.120) | (0.182–0.311) | (2256.4–3938.0) | (2158.4–3570.9) | (-0.9–0.3) |
| | | 0.00711 | 0.0247 | 231.0 | 283.6 | 0.6 |
| | Ambient particulate matter pollution | (0.00218–0.0177) | (0.0175–0.0322) | (72.4–576.0) | (201.7–370.3) | (-2.1–4.2) |
| | | 0.0864 | 0.223 | 2885.5 | 2562.2 | -0.4 |
| | Household air pollution from solid fuels | (0.0611–0.113) | (0.164–0.284) | (2048.6–3699.4) | (1938.4–3251.7) | (-1.0–0.3) |
| | | 0.00866 | 0.0236 | 274.1 | 268.5 | -0.1 |
| | Non-optimal temperature | (0.00641–0.0111) | (0.0194–0.0285) | (205.7–342.8) | (222.2–323.4) | (-0.9–0.8) |
| | | -0.0000885 | 0.000275 | -2.6 | 3.6 | |
| | High temperature | (-0.000529–0.0000578) | (-0.000354–0.000528) | (-16.5–2.1) | (-3.3–6.5) | -- |
| | | 0.00875 | 0.0233 | 276.6 | 265.0 | -0.1 |
| | Low temperature | (0.00667–0.0111) | (0.0191–0.0284) | (214.6–343.0) | (219.0–319.5) | (-0.9–0.6) |
| | | 0.0243 | 0.0863 | 831.8 | 1061.6 | 0.7 |
| | Other environmental risks | (0.0168–0.0322) | (0.0629–0.111) | (581.6–1087.5) | (778.2–1385.5) | (0.0–1.5) |
| | | 0.0243 | 0.0863 | 831.8 | 1061.6 | 0.7 |
| | Lead exposure | (0.0168–0.0322) | (0.0629–0.111) | (581.6–1087.5) | (778.2–1385.5) | (0.0–1.5) |
| **Southeast Asia** | | | | | | |
| | | 17.2 | 38.6 | 6656.0 | 5268.2 | -0.7 |
| | All risk factors | (14.3–19.6) | (34.4–42.4) | (5607.4–7549.9) | (4701.3–5786.3) | (-1.2–-0.2) |
| | | 14.1 | 33.2 | 5516.4 | 4538.7 | -0.6 |
| | Metabolic risks | (11.4–16.9) | (28.2–37.8) | (4509.2–6528.1) | (3851.0–5142.7) | (-1.1–0.0) |
| | | 1.02 | 2.77 | 441.2 | 396.3 | -0.3 |
| | High fasting plasma glucose | (0.747–1.38) | (2.20–3.56) | (326.4–592.1) | (317.4–509.4) | (-1.2–0.5) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 3.73 | 9.69 | 1363.6 | 1281.4 | -0.2 |
| | High LDL cholesterol | (2.28–5.31) | (6.47–13.2) | (786.0–1968.3) | (843.9–1747.6) | (-0.9–0.7) |
| | | 11.3 | 26.3 | 4510.5 | 3610.7 | -0.7 |
| | High systolic blood pressure | (8.35–14.4) | (20.9–31.5) | (3346.4–5644.1) | (2864.1–4299.2) | (-1.4–0.1) |
| | | 0.616 | 3.38 | 210.4 | 433.6 | 2.2 |
| | High body-mass index | (0.317–1.02) | (1.85–4.97) | (108.6–347.8) | (242.1–635.2) | (0.9–3.8) |
| | | 2.26 | 5.45 | 901.5 | 750.1 | -0.6 |
| | Kidney dysfunction | (1.72–2.96) | (4.06–6.95) | (671.1–1169.8) | (552.8–952.4) | (-1.0–0.0) |
| | | 11.0 | 22.9 | 4089.1 | 3042.9 | -0.9 |
| | Behavioral risks | (6.90–14.0) | (14.0–28.4) | (2550.1–5171.8) | (1883.2–3792.8) | (-1.5–-0.3) |
| | | 5.02 | 10.4 | 1822.6 | 1355.0 | -0.9 |
| | Tobacco | (4.08–6.12) | (8.82–12.1) | (1474.3–2223.6) | (1155.7–1582.3) | (-1.5–-0.2) |
| | | 3.89 | 7.95 | 1371.7 | 1020.8 | -0.9 |
| | Smoking | (3.01–4.94) | (6.54–9.38) | (1083.0–1740.5) | (837.3–1207.5) | (-1.7–-0.1) |
| | | 0.222 | 0.359 | 88.7 | 50.0 | -1.7 |
| | Chewing tobacco | (0.0850–0.439) | (0.154–0.699) | (33.2–174.0) | (21.4–98.6) | (-4.2–1.2) |
| | | 1.17 | 2.52 | 455.2 | 342.2 | -0.9 |
| | Secondhand smoke | (0.834–1.55) | (1.85–3.27) | (323.4–597.9) | (253.1–442.5) | (-1.5–-0.3) |
| | | -0.00476 | 0.235 | 5.8 | 33.0 | |
| | High alcohol use | (-0.181–0.240) | (-0.183–0.848) | (-48.6–83.9) | (-20.1–112.5) | -- |
| | | 8.15 | 16.0 | 2990.2 | 2126.4 | -1.0 |
| | Dietary risks | (2.10–11.9) | (5.02–23.4) | (813.2–4367.5) | (686.4–3123.1) | (-1.9–-0.1) |
| | | 2.29 | 4.29 | 789.1 | 559.4 | -1.0 |
| | Diet low in fruits | (0.729–3.77) | (1.42–7.16) | (263.0–1306.0) | (191.8–931.1) | (-1.9–0.1) |
| | | 1.78 | 2.70 | 632.7 | 358.5 | -1.7 |
| | Diet low in vegetables | (0.738–2.82) | (1.42–4.25) | (278.3–989.1) | (189.5–558.2) | (-2.8–-0.5) |
| | | 0.720 | 1.75 | 250.1 | 227.9 | -0.3 |
| | Diet low in legumes | (-0.697–1.89) | (-1.51–4.50) | (-240.0–671.6) | (-194.1–589.0) | (-1.5–0.9) |
| | | 1.45 | 3.55 | 504.4 | 463.0 | -0.3 |
| | Diet low in whole grains | (0.551–2.34) | (1.57–5.40) | (187.4–807.9) | (202.0–716.4) | (-1.3–0.9) |
| | | 1.04 | 2.03 | 360.3 | 266.2 | -0.9 |
| | Diet low in nuts and seeds | (0.307–1.75) | (0.574–3.64) | (106.0–603.8) | (75.3–478.9) | (-2.5–0.5) |
| | | -0.112 | -0.380 | -35.8 | -47.8 | |
| | Diet high in red meat | (-0.528–0.184) | (-1.84–1.04) | (-168.8–57.5) | (-227.7–131.0) | -- |
| | | 0.0226 | 0.0907 | 7.6 | 11.7 | 1.3 |
| | Diet high in processed meat | (-0.00145–0.0479) | (-0.00889–0.206) | (-0.3–15.6) | (-1.0–26.5) | (-0.1–3.3) |
| | | 0.0232 | 0.161 | 7.1 | 20.7 | 3.2 |
| | Diet high in sugar-sweetened beverages | (0.00687–0.0559) | (0.0578–0.304) | (2.2–16.9) | (7.5–38.8) | (1.0–6.8) |
| | | 1.93 | 3.38 | 656.4 | 439.1 | -1.2 |
| | Diet low in fiber | (0.373–3.74) | (0.669–6.86) | (131.0–1280.4) | (88.6–887.6) | (-3.2–0.4) |
| | | 0.370 | 0.180 | 129.0 | 24.2 | -5.1 |
| | Diet low in seafood omega-3 fatty acids | (0.0747–0.819) | (0.00910–0.666) | (26.2–288.4) | (1.3–88.3) | (-12.9–-1.1) |
| | | 0.729 | 1.91 | 254.9 | 248.7 | -0.1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-2.54–2.78) | (-5.93–7.05) | (-870.6–985.2) | (-768.8–926.4) | (-1.0–0.9) |
| | | 0.325 | 0.368 | 111.4 | 48.6 | -2.5 |
| | Diet high in trans fatty acids | (0.0145–0.718) | (0.0195–0.728) | (5.0–245.2) | (2.6–97.0) | (-3.9–-0.7) |
| | | 2.97 | 5.19 | 1148.7 | 698.0 | -1.5 |
| | Diet high in sodium | (0.476–5.91) | (0.531–11.5) | (176.9–2296.7) | (68.9–1552.5) | (-6.0–0.3) |
| | | 0.303 | 0.795 | 127.0 | 110.6 | -0.4 |
| | Low physical activity | (0.118–0.486) | (0.317–1.28) | (45.5–211.3) | (42.2–181.3) | (-1.2–0.5) |
| | | 8.46 | 15.2 | 3285.9 | 2086.4 | -1.4 |
| | Environmental/occupational risks | (6.31–10.6) | (11.8–18.4) | (2476.0–4082.3) | (1623.8–2515.8) | (-1.9–-0.7) |
| | | 6.82 | 9.98 | 2641.9 | 1366.0 | -2.0 |
| | Air pollution | (4.83–8.89) | (7.33–12.5) | (1874.0–3451.8) | (1001.2–1710.5) | (-2.6–-1.4) |
| | | 6.82 | 9.98 | 2641.9 | 1366.0 | -2.0 |
| | Particulate matter pollution | (4.83–8.89) | (7.33–12.5) | (1874.0–3451.8) | (1001.2–1710.5) | (-2.6–-1.4) |
| | | 1.56 | 6.13 | 596.8 | 831.8 | 1.0 |
| | Ambient particulate matter pollution | (0.748–2.63) | (4.56–8.15) | (285.3–1006.5) | (618.3–1102.2) | (-0.7–3.0) |
| | | 5.26 | 3.87 | 2045.2 | 536.2 | -4.1 |
| | Household air pollution from solid fuels | (3.62–6.88) | (2.21–5.93) | (1416.4–2670.8) | (308.7–816.5) | (-5.3–-2.9) |
| | | 0.288 | 0.768 | 111.3 | 106.2 | -0.1 |
| | Non-optimal temperature | (0.179–0.413) | (0.629–0.969) | (70.3–158.4) | (86.7–134.2) | (-0.8–0.9) |
| | | 0.0874 | 0.459 | 34.5 | 63.7 | 1.9 |
| | High temperature | (0.0262–0.133) | (0.352–0.604) | (11.3–52.3) | (48.8–83.9) | (1.0–4.7) |
| | | 0.202 | 0.313 | 77.3 | 43.0 | -1.8 |
| | Low temperature | (0.145–0.282) | (0.261–0.383) | (55.6–106.8) | (36.0–52.4) | (-2.4–-1.0) |
| | | 2.38 | 6.32 | 935.3 | 873.4 | -0.2 |
| | Other environmental risks | (1.55–3.45) | (4.35–8.57) | (616.7–1356.0) | (600.5–1185.0) | (-0.9–0.6) |
| | | 2.38 | 6.32 | 935.3 | 873.4 | -0.2 |
| | Lead exposure | (1.55–3.45) | (4.35–8.57) | (616.7–1356.0) | (600.5–1185.0) | (-0.9–0.6) |
| **Sub-Saharan Africa** | | | | | | |
| | | 10.1 | 23.9 | 4568.8 | 4185.4 | -0.3 |
| | All risk factors | (8.27–12.0) | (20.3–27.7) | (3749.9–5383.5) | (3570.4–4815.1) | (-0.8–0.4) |
| | | 8.08 | 20.4 | 3716.7 | 3602.8 | -0.1 |
| | Metabolic risks | (6.31–10.0) | (16.9–24.2) | (2973.9–4572.9) | (3004.8–4240.3) | (-0.7–0.6) |
| | | 0.510 | 1.51 | 254.4 | 292.1 | 0.4 |
| | High fasting plasma glucose | (0.333–0.781) | (1.10–2.11) | (167.1–384.3) | (213.4–408.1) | (-0.9–1.7) |
| | | 1.70 | 4.62 | 735.1 | 754.7 | 0.1 |
| | High LDL cholesterol | (0.920–2.53) | (2.85–6.76) | (391.6–1109.5) | (450.4–1135.8) | (-0.8–1.1) |
| | | 6.59 | 16.8 | 3060.8 | 3011.7 | 0.0 |
| | High systolic blood pressure | (4.68–8.64) | (13.2–20.5) | (2247.9–3952.6) | (2361.1–3633.7) | (-0.8–0.9) |
| | | 0.830 | 3.66 | 347.5 | 585.8 | 1.6 |
| | High body-mass index | (0.483–1.25) | (2.06–5.20) | (199.8–518.6) | (334.4–832.6) | (0.4–2.8) |
| | | 1.19 | 2.74 | 573.9 | 512.7 | -0.3 |
| | Kidney dysfunction | (0.878–1.56) | (2.07–3.58) | (421.5–758.5) | (380.6–677.0) | (-1.0–0.3) |
| | | 5.02 | 11.3 | 2164.9 | 1866.6 | -0.4 |
| | Behavioral risks | (2.23–7.09) | (5.04–15.4) | (991.7–3033.4) | (879.2–2578.2) | (-1.2–0.3) |
| | | 1.29 | 2.41 | 536.1 | 379.5 | -1.0 |
| | Tobacco | (0.979–1.70) | (1.85–3.22) | (406.1–694.9) | (291.3–502.3) | (-2.1–-0.1) |
| | | 0.933 | 1.68 | 376.6 | 256.3 | -1.2 |
| | Smoking | (0.669–1.28) | (1.17–2.44) | (268.7–509.6) | (178.1–373.5) | (-2.7–0.1) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0470 | 0.0897 | 20.6 | 15.5 | -0.9 |
| | Chewing tobacco | (0.0170–0.104) | (0.0345–0.196) | (7.3–45.4) | (5.9–33.6) | (-3.9–2.3) |
| | | 0.359 | 0.708 | 157.2 | 118.1 | -0.9 |
| | Secondhand smoke | (0.242–0.481) | (0.492–0.955) | (106.7–210.4) | (82.3–158.9) | (-1.6–-0.1) |
| | | 0.0191 | 0.106 | 15.2 | 25.0 | |
| | High alcohol use | (-0.0944–0.190) | (-0.136–0.447) | (-27.8–81.9) | (-10.3–81.2) | -- |
| | | 4.12 | 9.46 | 1769.2 | 1561.0 | -0.4 |
| | Dietary risks | (0.855–6.42) | (2.66–13.9) | (411.4–2723.2) | (460.2–2338.9) | (-1.2–0.5) |
| | | 1.56 | 3.72 | 645.5 | 585.7 | -0.3 |
| | Diet low in fruits | (0.643–2.46) | (1.74–5.71) | (279.6–998.6) | (280.3–901.8) | (-1.3–0.7) |
| | | 1.56 | 3.30 | 650.0 | 530.5 | -0.6 |
| | Diet low in vegetables | (0.786–2.35) | (1.86–4.88) | (346.7–982.2) | (299.4–771.4) | (-1.6–0.4) |
| | | 0.331 | 0.727 | 138.4 | 115.1 | -0.6 |
| | Diet low in legumes | (-0.312–0.893) | (-0.677–1.90) | (-128.1–371.7) | (-103.7–305.6) | (-1.9–0.6) |
| | | 0.234 | 0.635 | 93.6 | 96.8 | 0.1 |
| | Diet low in whole grains | (0.0773–0.426) | (0.198–1.16) | (31.6–173.5) | (29.6–178.0) | (-2.0–2.2) |
| | | 0.450 | 0.855 | 185.9 | 133.3 | -1.0 |
| | Diet low in nuts and seeds | (0.133–0.736) | (0.253–1.54) | (53.1–310.8) | (38.6–240.0) | (-2.7–0.4) |
| | | -0.0989 | -0.200 | -35.1 | -27.2 | |
| | Diet high in red meat | (-0.501–0.195) | (-0.997–0.398) | (-179.1–71.5) | (-135.6–55.6) | -- |
| | | 0.0334 | 0.0865 | 13.3 | 13.1 | 0.0 |
| | Diet high in processed meat | (-0.00174–0.0823) | (-0.00609–0.210) | (-0.3–31.8) | (-0.4–31.3) | (-2.7–2.5) |
| | | 0.0118 | 0.0523 | 4.4 | 7.5 | 1.6 |
| | Diet high in sugar-sweetened beverages | (0.00329–0.0303) | (0.0171–0.133) | (1.3–11.1) | (2.5–18.6) | (-0.9–4.6) |
| | | 0.134 | 0.231 | 52.1 | 33.5 | -1.3 |
| | Diet low in fiber | (0.0261–0.340) | (0.0307–0.594) | (10.8–130.3) | (4.9–86.4) | (-5.2–2.5) |
| | | 0.435 | 1.06 | 180.9 | 167.0 | -0.2 |
| | Diet low in seafood omega-3 fatty acids | (0.113–0.826) | (0.298–1.92) | (45.8–348.3) | (44.7–305.5) | (-2.0–1.2) |
| | | 0.388 | 1.00 | 162.3 | 159.9 | 0.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-1.41–1.50) | (-3.50–3.84) | (-546.3–621.6) | (-531.7–613.3) | (-1.3–1.1) |
| | | 0.171 | 0.376 | 69.6 | 58.0 | -0.6 |
| | Diet high in trans fatty acids | (0.00738–0.381) | (0.0248–0.794) | (3.0–156.3) | (3.7–121.5) | (-2.1–1.3) |
| | | 0.593 | 1.19 | 282.9 | 225.8 | -0.7 |
| | Diet high in sodium | (0.00965–1.93) | (0.00744–4.19) | (4.9–901.8) | (1.5–791.9) | (-8.7–3.1) |
| | | 0.130 | 0.301 | 62.1 | 55.5 | -0.3 |
| | Low physical activity | (0.0459–0.229) | (0.120–0.508) | (21.2–112.6) | (19.8–94.9) | (-1.2–0.6) |
| | | 5.11 | 11.6 | 2310.8 | 2028.5 | -0.4 |
| | Environmental/occupational risks | (3.77–6.45) | (8.96–14.4) | (1710.1–2889.6) | (1596.3–2513.7) | (-1.0–0.3) |
| | | 4.06 | 8.58 | 1832.1 | 1492.8 | -0.6 |
| | Air pollution | (2.87–5.11) | (6.36–10.7) | (1299.7–2308.5) | (1110.0–1857.0) | (-1.3–0.1) |
| | | 4.06 | 8.58 | 1832.1 | 1492.8 | -0.6 |
| | Particulate matter pollution | (2.87–5.11) | (6.36–10.7) | (1299.7–2308.5) | (1110.0–1857.0) | (-1.3–0.1) |
| | | 0.728 | 2.15 | 332.3 | 377.9 | 0.4 |
| | Ambient particulate matter pollution | (0.505–1.02) | (1.56–2.85) | (231.1–466.2) | (273.5–502.1) | (-0.4–1.4) |
| | | 3.33 | 6.43 | 1499.8 | 1114.8 | -0.9 |
| | Household air pollution from solid fuels | (2.34–4.30) | (4.62–8.19) | (1052.5–1933.9) | (803.9–1417.3) | (-1.6–-0.2) |
| | | 0.397 | 0.801 | 170.1 | 136.8 | -0.7 |
| | Non-optimal temperature | (0.267–0.565) | (0.571–1.05) | (119.2–236.7) | (99.2–176.6) | (-1.4–0.3) |
| | | 0.0805 | 0.239 | 34.6 | 39.8 | |
| | High temperature | (-0.00714–0.166) | (0.0582–0.418) | (-2.2–69.9) | (9.7–69.8) | -- |
| | | 0.318 | 0.565 | 136.0 | 97.6 | -1.0 |
| | Low temperature | (0.249–0.400) | (0.473–0.665) | (108.6–167.7) | (82.7–114.3) | (-1.7–-0.2) |
| | | 1.27 | 3.79 | 594.3 | 691.6 | 0.5 |
| | Other environmental risks | (0.770–1.90) | (2.30–5.54) | (366.1–886.5) | (421.5–1012.9) | (-0.4–1.4) |
| | | 1.27 | 3.79 | 594.3 | 691.6 | 0.5 |
| | Lead exposure | (0.770–1.90) | (2.30–5.54) | (366.1–886.5) | (421.5–1012.9) | (-0.4–1.4) |
| **Central Sub-Saharan Africa** | | | | | | |
| | | 1.22 | 3.22 | 5367.9 | 5018.2 | -0.2 |
| | All risk factors | (0.870–1.60) | (2.48–3.97) | (3960.6–6797.3) | (3904.3–6079.9) | (-0.8–0.5) |
| | | 1.02 | 2.74 | 4580.5 | 4346.6 | -0.2 |
| | Metabolic risks | (0.738–1.37) | (2.08–3.33) | (3383.4–5955.8) | (3310.4–5232.2) | (-0.7–0.6) |
| | | 0.122 | 0.357 | 613.5 | 620.7 | 0.0 |
| | High fasting plasma glucose | (0.0789–0.185) | (0.257–0.494) | (398.5–886.2) | (455.7–844.8) | (-1.0–1.2) |
| | | 0.210 | 0.622 | 880.1 | 893.3 | 0.0 |
| | High LDL cholesterol | (0.111–0.332) | (0.340–0.975) | (432.3–1451.9) | (490.8–1430.5) | (-0.9–1.3) |
| | | 0.840 | 2.18 | 3778.2 | 3499.1 | -0.2 |
| | High systolic blood pressure | (0.552–1.19) | (1.55–2.80) | (2530.7–5251.5) | (2523.2–4425.1) | (-1.0–0.8) |
| | | 0.0914 | 0.557 | 353.0 | 776.7 | 2.4 |
| | High body-mass index | (0.0479–0.155) | (0.303–0.809) | (190.5–609.7) | (409.8–1143.4) | (0.9–4.2) |
| | | 0.153 | 0.396 | 736.5 | 677.5 | -0.3 |
| | Kidney dysfunction | (0.102–0.214) | (0.285–0.528) | (486.4–1038.0) | (482.4–926.9) | (-0.9–0.4) |
| | | 0.586 | 1.65 | 2319.1 | 2351.4 | 0.0 |
| | Behavioral risks | (0.256–0.873) | (0.785–2.37) | (1062.0–3534.4) | (1129.3–3376.9) | (-0.8–0.9) |
| | | 0.138 | 0.325 | 506.1 | 424.7 | -0.5 |
| | Tobacco | (0.0842–0.204) | (0.218–0.483) | (315.6–733.9) | (286.5–625.0) | (-1.8–0.6) |
| | | 0.0977 | 0.227 | 340.0 | 280.7 | -0.6 |
| | Smoking | (0.0580–0.155) | (0.138–0.371) | (201.2–530.9) | (169.8–454.7) | (-2.3–1.0) |
| | | 0.00411 | 0.00791 | 17.2 | 11.6 | -1.2 |
| | Chewing tobacco | (0.00130–0.00928) | (0.00249–0.0191) | (5.4–38.3) | (3.6–27.8) | (-4.5–2.4) |
| | | 0.0393 | 0.0977 | 160.7 | 142.0 | -0.4 |
| | Secondhand smoke | (0.0223–0.0566) | (0.0636–0.146) | (94.0–230.2) | (91.7–212.0) | (-1.3–0.7) |
| | | -0.000548 | 0.00914 | 9.8 | 23.3 | |
| | High alcohol use | (-0.0179–0.0226) | (-0.0404–0.0715) | (-42.6–88.5) | (-34.8–101.1) | -- |
| | | 0.492 | 1.42 | 1936.7 | 2027.7 | 0.1 |
| | Dietary risks | (0.100–0.807) | (0.402–2.19) | (420.0–3238.0) | (638.2–3105.1) | (-0.6–1.1) |
| | | 0.157 | 0.490 | 580.3 | 661.6 | 0.4 |
| | Diet low in fruits | (0.0628–0.262) | (0.232–0.784) | (243.6–975.6) | (312.9–1060.1) | (-0.8–1.8) |
| | | 0.250 | 0.659 | 945.2 | 906.7 | -0.1 |
| | Diet low in vegetables | (0.115–0.396) | (0.322–0.968) | (459.5–1431.6) | (465.1–1326.3) | (-1.0–0.9) |
| | | 0.0383 | 0.130 | 149.9 | 180.1 | 0.6 |
| | Diet low in legumes | (-0.0359–0.107) | (-0.125–0.344) | (-140.1–438.4) | (-169.7–492.6) | (-1.1–1.9) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0556 | 0.184 | 211.7 | 249.9 | 0.5 |
| | Diet low in whole grains | (0.0172–0.105) | (0.0646–0.333) | (68.8–393.9) | (91.4–448.9) | (-1.4–2.1) |
| | | 0.0262 | 0.125 | 102.7 | 170.9 | 1.5 |
| | Diet low in nuts and seeds | (0.00722–0.0475) | (0.0304–0.254) | (28.7–188.8) | (41.5–340.4) | (-1.1–3.6) |
| | | -0.00862 | -0.0181 | -26.4 | -20.0 | |
| | Diet high in red meat | (-0.0413–0.0141) | (-0.0940–0.0355) | (-124.8–44.2) | (-106.0–40.9) | -- |
| | | 0.00255 | 0.00755 | 9.8 | 9.9 | 0.0 |
| | Diet high in processed meat | (-0.0000134–0.00614) | (-0.000361–0.0192) | (0.6–21.7) | (0.0–23.9) | (-2.3–2.3) |
| | | 0.00199 | 0.00413 | 6.8 | 4.9 | -1.0 |
| | Diet high in sugar-sweetened beverages | (0.000454–0.00575) | (0.000617–0.0122) | (1.7–18.5) | (0.8–14.6) | (-5.1–4.0) |
| | | 0.0182 | 0.0562 | 65.6 | 70.8 | 0.2 |
| | Diet low in fiber | (0.00331–0.0456) | (0.00601–0.161) | (13.4–162.6) | (9.5–204.3) | (-5.2–4.1) |
| | | 0.0439 | 0.145 | 170.3 | 198.7 | 0.5 |
| | Diet low in seafood omega-3 fatty acids | (0.00956–0.0977) | (0.0397–0.287) | (37.6–388.2) | (54.1–389.4) | (-1.6–2.1) |
| | | 0.0428 | 0.140 | 167.7 | 195.5 | 0.5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.164–0.182) | (-0.479–0.538) | (-606.8–716.7) | (-639.1–732.6) | (-0.9–1.8) |
| | | 0.0203 | 0.0546 | 77.2 | 73.3 | -0.2 |
| | Diet high in trans fatty acids | (0.000851–0.0465) | (0.00370–0.120) | (3.2–175.6) | (4.9–160.8) | (-1.8–1.9) |
| | | 0.0261 | 0.0733 | 122.8 | 121.2 | 0.0 |
| | Diet high in sodium | (0.000000354–0.144) | (0.000000608–0.389) | (0.0–697.1) | (0.0–640.0) | (-10.2–23.2) |
| | | 0.0146 | 0.0379 | 71.8 | 66.5 | -0.2 |
| | Low physical activity | (0.00478–0.0282) | (0.0119–0.0706) | (20.0–151.9) | (19.6–126.5) | (-1.4–1.1) |
| | | 0.619 | 1.56 | 2715.8 | 2453.4 | -0.3 |
| | Environmental/occupational risks | (0.414–0.858) | (1.10–2.20) | (1831.3–3703.0) | (1727.4–3390.0) | (-1.0–0.5) |
| | | 0.492 | 1.12 | 2149.5 | 1743.3 | -0.6 |
| | Air pollution | (0.325–0.666) | (0.779–1.51) | (1443.5–2846.2) | (1220.8–2312.3) | (-1.4–0.1) |
| | | 0.492 | 1.12 | 2149.5 | 1743.3 | -0.6 |
| | Particulate matter pollution | (0.325–0.666) | (0.779–1.51) | (1443.5–2846.2) | (1220.8–2312.3) | (-1.4–0.1) |
| | | 0.0744 | 0.242 | 325.0 | 371.8 | 0.4 |
| | Ambient particulate matter pollution | (0.0423–0.116) | (0.175–0.331) | (190.2–509.8) | (272.2–495.7) | (-0.9–1.7) |
| | | 0.418 | 0.882 | 1824.4 | 1372.2 | -0.9 |
| | Household air pollution from solid fuels | (0.270–0.567) | (0.595–1.21) | (1192.3–2472.7) | (928.1–1851.7) | (-1.6–0.0) |
| | | 0.0233 | 0.0336 | 93.5 | 49.6 | |
| | Non-optimal temperature | (0.000157–0.0376) | (-0.0305–0.0627) | (4.0–147.1) | (-43.6–91.2) | -- |
| | | -0.00267 | -0.0138 | -10.5 | -20.4 | |
| | High temperature | (-0.0176–0.00166) | (-0.0748–0.00755) | (-73.3–6.6) | (-110.1–10.2) | -- |
| | | 0.0259 | 0.0472 | 103.9 | 69.7 | -1.2 |
| | Low temperature | (0.0169–0.0376) | (0.0339–0.0611) | (69.7–145.3) | (51.1–88.8) | (-2.2–-0.1) |
| | | 0.180 | 0.629 | 822.2 | 1023.1 | 0.7 |
| | Other environmental risks | (0.0951–0.303) | (0.326–1.03) | (442.7–1375.1) | (536.3–1659.4) | (-0.3–1.6) |
| | | 0.180 | 0.629 | 822.2 | 1023.1 | 0.7 |
| | Lead exposure | (0.0951–0.303) | (0.326–1.03) | (442.7–1375.1) | (536.3–1659.4) | (-0.3–1.6) |
| **Eastern Sub-Saharan Africa** | | | | | | |
| | | 3.05 | 7.97 | 3713.2 | 3735.8 | 0.0 |
| | All risk factors | (2.43–3.72) | (6.76–9.30) | (2982.5–4486.2) | (3175.7–4323.9) | (-0.7–0.8) |
| | | 2.33 | 6.56 | 2891.9 | 3115.0 | 0.2 |
| | Metabolic risks | (1.76–2.97) | (5.19–7.87) | (2245.3–3618.3) | (2495.7–3724.5) | (-0.5–1.1) |
| | | 0.0638 | 0.218 | 87.3 | 111.8 | 0.7 |
| | High fasting plasma glucose | (0.0393–0.0919) | (0.152–0.312) | (54.1–124.6) | (78.2–160.2) | (-0.4–2.0) |
| | | 0.415 | 1.30 | 472.7 | 564.2 | 0.5 |
| | High LDL cholesterol | (0.222–0.624) | (0.782–1.99) | (242.3–736.7) | (325.4–886.9) | (-0.4–1.7) |
| | | 1.97 | 5.58 | 2470.9 | 2691.9 | 0.3 |
| | High systolic blood pressure | (1.40–2.60) | (4.20–6.77) | (1792.0–3213.7) | (2042.8–3253.8) | (-0.6–1.3) |
| | | 0.154 | 0.869 | 174.0 | 378.1 | 2.4 |
| | High body-mass index | (0.0819–0.258) | (0.506–1.26) | (92.6–301.6) | (219.2–547.7) | (0.7–4.2) |
| | | 0.252 | 0.659 | 321.8 | 322.1 | 0.0 |
| | Kidney dysfunction | (0.174–0.346) | (0.445–0.904) | (219.1–441.1) | (218.5–442.6) | (-0.7–0.8) |
| | | 1.67 | 4.15 | 1965.2 | 1869.1 | -0.2 |
| | Behavioral risks | (0.823–2.34) | (2.21–5.69) | (998.6–2732.8) | (1060.4–2585.0) | (-1.1–0.8) |
| | | 0.373 | 0.828 | 413.5 | 354.1 | -0.5 |
| | Tobacco | (0.279–0.491) | (0.617–1.13) | (307.3–545.7) | (262.3–484.9) | (-1.6–0.6) |
| | | 0.263 | 0.592 | 286.0 | 249.2 | -0.4 |
| | Smoking | (0.187–0.370) | (0.400–0.845) | (200.4–407.9) | (169.2–357.7) | (-1.9–0.9) |
| | | 0.0238 | 0.0455 | 26.7 | 20.1 | -0.9 |
| | Chewing tobacco | (0.00916–0.0504) | (0.0180–0.0936) | (10.2–56.6) | (7.9–41.8) | (-3.7–2.2) |
| | | 0.0992 | 0.215 | 114.3 | 94.8 | -0.6 |
| | Secondhand smoke | (0.0645–0.137) | (0.145–0.304) | (74.0–155.7) | (64.1–134.0) | (-1.5–0.3) |
| | | -0.00529 | 0.0168 | 0.3 | 15.0 | |
| | High alcohol use | (-0.0498–0.0481) | (-0.0756–0.138) | (-43.8–54.0) | (-22.0–65.5) | -- |
| | | 1.44 | 3.60 | 1694.2 | 1616.9 | -0.1 |
| | Dietary risks | (0.487–2.10) | (1.38–5.19) | (587.5–2471.7) | (683.8–2362.0) | (-1.1–0.8) |
| | | 0.568 | 1.42 | 642.2 | 613.2 | -0.1 |
| | Diet low in fruits | (0.222–0.907) | (0.693–2.17) | (275.8–999.6) | (301.3–934.2) | (-1.2–0.9) |
| | | 0.588 | 1.35 | 676.7 | 594.9 | -0.4 |
| | Diet low in vegetables | (0.296–0.874) | (0.729–1.95) | (354.9–996.2) | (322.3–860.9) | (-1.5–0.7) |
| | | 0.0608 | 0.165 | 65.8 | 68.8 | 0.1 |
| | Diet low in legumes | (-0.0551–0.169) | (-0.145–0.427) | (-58.5–185.0) | (-57.0–181.8) | (-1.5–1.4) |
| | | 0.0517 | 0.153 | 54.6 | 61.9 | 0.4 |
| | Diet low in whole grains | (0.0165–0.101) | (0.0455–0.281) | (16.8–104.9) | (18.3–115.0) | (-1.7–2.6) |
| | | 0.156 | 0.405 | 165.9 | 167.5 | 0.0 |
| | Diet low in nuts and seeds | (0.0488–0.258) | (0.129–0.702) | (50.9–274.2) | (51.3–298.0) | (-1.8–1.5) |
| | | -0.0314 | -0.0637 | -30.5 | -24.1 | |
| | Diet high in red meat | (-0.165–0.0520) | (-0.279–0.108) | (-157.8–50.9) | (-105.4–40.4) | -- |
| | | 0.00374 | 0.0140 | 3.9 | 5.5 | 1.1 |
| | Diet high in processed meat | (-0.000432–0.00863) | (-0.00203–0.0349) | (-0.4–8.7) | (-0.7–13.5) | (-1.4–3.1) |
| | | 0.00277 | 0.0116 | 2.6 | 4.2 | 1.4 |
| | Diet high in sugar-sweetened beverages | (0.000630–0.00822) | (0.00184–0.0377) | (0.6–7.7) | (0.7–13.6) | (-2.7–6.2) |
| | | 0.0311 | 0.0818 | 31.0 | 31.6 | 0.1 |
| | Diet low in fiber | (0.00499–0.0825) | (0.0107–0.207) | (5.3–82.2) | (4.2–81.2) | (-3.8–3.9) |
| | | 0.132 | 0.407 | 140.2 | 168.9 | 0.6 |
| | Diet low in seafood omega-3 fatty acids | (0.0364–0.237) | (0.110–0.723) | (37.6–257.3) | (44.5–307.1) | (-1.1–2.0) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.105 | 0.321 | 114.8 | 135.2 | 0.5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.400–0.395) | (-1.07–1.23) | (-404.5–430.0) | (-430.3–519.0) | (-0.9–1.7) |
| | | 0.0473 | 0.126 | 50.0 | 51.3 | 0.1 |
| | Diet high in trans fatty acids | (0.00203–0.103) | (0.00841–0.258) | (2.1–109.3) | (3.4–105.8) | (-1.6–2.1) |
| | | 0.343 | 0.634 | 457.4 | 332.1 | -1.0 |
| | Diet high in sodium | (0.00963–0.920) | (0.00730–1.79) | (13.4–1201.1) | (4.0–936.8) | (-8.8–2.7) |
| | | 0.0185 | 0.0537 | 23.7 | 26.3 | 0.3 |
| | Low physical activity | (0.00625–0.0335) | (0.0194–0.0951) | (6.9–43.6) | (8.3–47.9) | (-0.7–1.5) |
| | | 1.53 | 3.85 | 1849.3 | 1800.6 | -0.1 |
| | Environmental/occupational risks | (1.11–1.98) | (2.97–4.85) | (1338.0–2400.9) | (1392.6–2273.5) | (-0.9–0.7) |
| | | 1.22 | 2.94 | 1476.3 | 1367.6 | -0.2 |
| | Air pollution | (0.867–1.56) | (2.13–3.85) | (1049.4–1898.4) | (987.3–1772.4) | (-1.0–0.5) |
| | | 1.22 | 2.94 | 1476.3 | 1367.6 | -0.2 |
| | Particulate matter pollution | (0.867–1.56) | (2.13–3.85) | (1049.4–1898.4) | (987.3–1772.4) | (-1.0–0.5) |
| | | 0.0985 | 0.344 | 117.9 | 159.3 | 0.9 |
| | Ambient particulate matter pollution | (0.0639–0.146) | (0.239–0.470) | (75.8–173.4) | (110.3–215.0) | (-0.1–2.1) |
| | | 1.12 | 2.60 | 1358.3 | 1208.3 | -0.4 |
| | Household air pollution from solid fuels | (0.800–1.46) | (1.87–3.37) | (961.3–1766.7) | (865.3–1559.6) | (-1.1–0.4) |
| | | 0.150 | 0.316 | 166.8 | 142.6 | -0.5 |
| | Non-optimal temperature | (0.110–0.197) | (0.255–0.382) | (123.5–215.0) | (116.5–172.8) | (-1.3–0.6) |
| | | 0.00561 | 0.0315 | 6.1 | 13.3 | |
| | High temperature | (-0.00261–0.0151) | (0.00656–0.0635) | (-2.8–16.5) | (2.1–27.5) | -- |
| | | 0.145 | 0.285 | 160.8 | 129.5 | -0.7 |
| | Low temperature | (0.107–0.188) | (0.231–0.349) | (120.8–207.3) | (106.6–158.0) | (-1.6–0.4) |
| | | 0.328 | 1.09 | 413.2 | 531.3 | 0.8 |
| | Other environmental risks | (0.171–0.536) | (0.593–1.65) | (215.0–671.9) | (287.5–811.7) | (-0.2–1.8) |
| | | 0.328 | 1.09 | 413.2 | 531.3 | 0.8 |
| | Lead exposure | (0.171–0.536) | (0.593–1.65) | (215.0–671.9) | (287.5–811.7) | (-0.2–1.8) |
| **Southern Sub-Saharan Africa** | | | | | | |
| | | 1.16 | 2.24 | 4225.8 | 3309.3 | -0.7 |
| | All risk factors | (1.02–1.33) | (2.01–2.52) | (3723.3–4835.7) | (2975.4–3692.0) | (-1.1–-0.3) |
| | | 0.977 | 1.98 | 3581.1 | 2948.8 | -0.6 |
| | Metabolic risks | (0.840–1.12) | (1.71–2.27) | (3089.3–4096.5) | (2553.8–3361.5) | (-1.1–-0.1) |
| | | 0.0726 | 0.206 | 282.0 | 320.9 | 0.4 |
| | High fasting plasma glucose | (0.0530–0.0972) | (0.160–0.274) | (207.6–372.6) | (251.7–425.1) | (-0.6–1.4) |
| | | 0.228 | 0.418 | 795.2 | 591.0 | -0.9 |
| | High LDL cholesterol | (0.141–0.321) | (0.272–0.587) | (481.5–1149.4) | (371.4–849.4) | (-1.7–-0.3) |
| | | 0.790 | 1.64 | 2922.0 | 2451.6 | -0.5 |
| | High systolic blood pressure | (0.632–0.965) | (1.32–1.93) | (2343.8–3538.1) | (1981.8–2891.9) | (-1.1–0.1) |
| | | 0.205 | 0.534 | 711.1 | 759.9 | 0.2 |
| | High body-mass index | (0.126–0.281) | (0.342–0.736) | (439.3–973.1) | (489.1–1044.7) | (-0.6–1.0) |
| | | 0.153 | 0.302 | 578.7 | 461.8 | -0.7 |
| | Kidney dysfunction | (0.120–0.197) | (0.235–0.382) | (452.3–744.9) | (357.2–585.2) | (-1.1–-0.3) |
| | | 0.691 | 1.19 | 2427.9 | 1692.3 | -1.1 |
| | Behavioral risks | (0.454–0.860) | (0.841–1.47) | (1614.7–3029.4) | (1182.2–2076.7) | (-1.6–-0.6) |
| | | 0.286 | 0.378 | 981.6 | 517.8 | -1.9 |
| | Tobacco | (0.235–0.344) | (0.312–0.441) | (799.3–1188.5) | (425.2–607.5) | (-2.6–-1.3) |
| | | 0.218 | 0.272 | 732.2 | 360.6 | -2.1 |
| | Smoking | (0.174–0.274) | (0.214–0.340) | (577.7–935.6) | (282.0–453.5) | (-3.0–-1.3) |
| | | 0.00441 | 0.00799 | 17.3 | 13.3 | -0.8 |
| | Chewing tobacco | (0.00150–0.00950) | (0.00265–0.0186) | (6.0–37.2) | (4.4–30.7) | (-3.8–2.5) |
| | | 0.0803 | 0.115 | 289.3 | 166.5 | -1.7 |
| | Secondhand smoke | (0.0565–0.103) | (0.0846–0.149) | (203.7–368.2) | (122.5–215.0) | (-2.2–-1.1) |
| | | 0.0236 | 0.0496 | 88.2 | 75.5 | |
| | High alcohol use | (-0.00768–0.0654) | (0.00425–0.119) | (-10.0–220.9) | (16.4–172.3) | -- |
| | | 0.488 | 0.891 | 1702.7 | 1259.8 | -0.9 |
| | Dietary risks | (0.139–0.679) | (0.414–1.19) | (495.7–2392.6) | (590.9–1682.8) | (-1.5–0.0) |
| | | 0.219 | 0.425 | 744.6 | 589.0 | -0.7 |
| | Diet low in fruits | (0.101–0.329) | (0.198–0.618) | (355.4–1122.5) | (283.3–854.0) | (-1.3–0.0) |
| | | 0.152 | 0.284 | 525.0 | 400.7 | -0.8 |
| | Diet low in vegetables | (0.0892–0.218) | (0.183–0.395) | (313.5–755.2) | (261.4–551.4) | (-1.8–0.1) |
| | | 0.0559 | 0.0989 | 190.4 | 135.6 | -1.0 |
| | Diet low in legumes | (-0.0551–0.143) | (-0.0937–0.246) | (-183.7–495.0) | (-123.0–343.3) | (-1.9–-0.3) |
| | | 0.00639 | 0.0171 | 21.1 | 23.0 | 0.3 |
| | Diet low in whole grains | (0.00159–0.0146) | (0.00375–0.0418) | (5.1–48.6) | (4.8–55.7) | (-3.9–4.6) |
| | | 0.0960 | 0.160 | 325.4 | 218.9 | -1.2 |
| | Diet low in nuts and seeds | (0.0337–0.157) | (0.0500–0.264) | (112.5–534.5) | (67.4–365.5) | (-2.0–-0.5) |
| | | -0.0125 | -0.0265 | -35.0 | -31.1 | |
| | Diet high in red meat | (-0.0918–0.0495) | (-0.180–0.101) | (-274.2–153.7) | (-221.5–128.9) | -- |
| | | 0.00360 | 0.00738 | 11.7 | 9.8 | -0.5 |
| | Diet high in processed meat | (-0.000231–0.00807) | (0.0000122–0.0171) | (-0.5–25.9) | (0.3–22.4) | (-2.1–1.5) |
| | | 0.00502 | 0.0152 | 15.7 | 19.4 | 0.6 |
| | Diet high in sugar-sweetened beverages | (0.00149–0.0119) | (0.00549–0.0300) | (4.7–37.4) | (7.3–38.1) | (-2.3–4.5) |
| | | 0.0151 | 0.0402 | 48.7 | 52.9 | 0.3 |
| | Diet low in fiber | (0.00284–0.0398) | (0.00580–0.106) | (9.1–128.3) | (7.4–140.1) | (-4.9–4.6) |
| | | 0.0625 | 0.107 | 212.6 | 146.3 | -1.1 |
| | Diet low in seafood omega-3 fatty acids | (0.0169–0.118) | (0.0285–0.185) | (56.7–408.4) | (39.0–255.9) | (-2.4–0.0) |
| | | 0.0430 | 0.0377 | 146.6 | 51.5 | -3.2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.138–0.162) | (-0.0706–0.155) | (-459.2–549.3) | (-96.8–214.2) | (-5.6–-1.9) |
| | | 0.0174 | 0.00552 | 58.5 | 7.4 | -6.3 |
| | Diet high in trans fatty acids | (0.000793–0.0382) | (0.000356–0.0108) | (2.7–126.8) | (0.5–14.6) | (-7.7–-4.7) |
| | | 0.0460 | 0.0669 | 162.3 | 96.7 | -1.6 |
| | Diet high in sodium | (0.0000122–0.188) | (0.00000488–0.307) | (0.0–670.2) | (0.0–460.6) | (-14.4–6.8) |
| | | 0.0306 | 0.0549 | 114.4 | 83.2 | -1.0 |
| | Low physical activity | (0.0120–0.0513) | (0.0225–0.0836) | (41.9–194.3) | (33.7–133.7) | (-1.7–-0.2) |
| | | 0.497 | 0.824 | 1802.9 | 1217.0 | -1.2 |
| | Environmental/occupational risks | (0.390–0.591) | (0.647–1.01) | (1415.8–2127.2) | (963.8–1491.1) | (-1.7–-0.6) |
| | | 0.324 | 0.422 | 1174.9 | 619.0 | -1.9 |
| | Air pollution | (0.232–0.400) | (0.297–0.555) | (846.4–1449.0) | (439.1–812.3) | (-2.5–-1.3) |
| | | 0.324 | 0.422 | 1174.9 | 619.0 | -1.9 |
| | Particulate matter pollution | (0.232–0.400) | (0.297–0.555) | (846.4–1449.0) | (439.1–812.3) | (-2.5–-1.3) |

| Location Name | Risk factor | All-age DALY count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized DALY rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.145 | 0.271 | 527.2 | 398.0 | -0.9 |
| | Ambient particulate matter pollution | (0.104–0.194) | (0.200–0.356) | (379.6–701.5) | (295.8–520.4) | (-1.5–0.0) |
| | | 0.179 | 0.152 | 647.6 | 221.2 | -3.3 |
| | Household air pollution from solid fuels | (0.115–0.247) | (0.0987–0.231) | (416.4–901.5) | (143.8–336.9) | (-4.1–-2.5) |
| | | 0.0892 | 0.151 | 318.0 | 222.8 | -1.1 |
| | Non-optimal temperature | (0.0764–0.104) | (0.131–0.178) | (273.2–371.4) | (194.0–260.2) | (-1.5–-0.5) |
| | | 0.000968 | 0.00477 | 3.0 | 6.8 | |
| | High temperature | (-0.00101–0.00396) | (-0.00138–0.0139) | (-3.7–13.1) | (-2.1–19.9) | -- |
| | | 0.0883 | 0.147 | 315.2 | 216.3 | -1.1 |
| | Low temperature | (0.0766–0.102) | (0.129–0.171) | (274.7–365.4) | (191.8–250.1) | (-1.6–-0.6) |
| | | 0.154 | 0.360 | 570.0 | 539.1 | -0.2 |
| | Other environmental risks | (0.106–0.214) | (0.237–0.497) | (394.4–787.4) | (353.7–743.2) | (-0.8–0.4) |
| | | 0.154 | 0.360 | 570.0 | 539.1 | -0.2 |
| | Lead exposure | (0.106–0.214) | (0.237–0.497) | (394.4–787.4) | (353.7–743.2) | (-0.8–0.4) |
| **Western Sub-Saharan Africa** | | | | | | |
| | | 4.65 | 10.5 | 5269.7 | 4670.1 | -0.4 |
| | All risk factors | (3.79–5.54) | (8.76–12.4) | (4305.5–6252.0) | (3854.1–5442.8) | (-1.0–0.3) |
| | | 3.75 | 9.07 | 4306.3 | 4077.0 | -0.2 |
| | Metabolic risks | (2.89–4.72) | (7.37–10.9) | (3355.2–5364.1) | (3372.6–4821.2) | (-0.9–0.6) |
| | | 0.252 | 0.731 | 313.9 | 370.5 | 0.5 |
| | High fasting plasma glucose | (0.155–0.427) | (0.496–1.13) | (194.4–527.4) | (253.2–570.4) | (-1.2–2.2) |
| | | 0.851 | 2.28 | 920.3 | 948.6 | 0.1 |
| | High LDL cholesterol | (0.447–1.29) | (1.39–3.44) | (476.9–1418.9) | (565.2–1464.3) | (-0.9–1.2) |
| | | 2.99 | 7.40 | 3470.8 | 3364.3 | -0.1 |
| | High systolic blood pressure | (2.08–3.96) | (5.63–9.23) | (2456.8–4540.6) | (2610.4–4116.2) | (-0.9–0.9) |
| | | 0.379 | 1.70 | 385.4 | 666.1 | 1.7 |
| | High body-mass index | (0.198–0.568) | (0.892–2.49) | (204.1–574.4) | (357.6–978.9) | (0.3–3.1) |
| | | 0.631 | 1.38 | 763.0 | 674.2 | -0.4 |
| | Kidney dysfunction | (0.470–0.830) | (1.04–1.82) | (555.4–1003.3) | (500.7–898.1) | (-1.2–0.4) |
| | | 2.07 | 4.28 | 2218.1 | 1774.8 | -0.7 |
| | Behavioral risks | (0.657–2.99) | (1.49–6.17) | (708.9–3209.1) | (598.7–2619.5) | (-1.5–0.2) |
| | | 0.497 | 0.875 | 510.1 | 348.1 | -1.2 |
| | Tobacco | (0.357–0.686) | (0.617–1.21) | (364.3–703.7) | (247.3–480.7) | (-2.6–0.0) |
| | | 0.355 | 0.586 | 354.7 | 224.0 | -1.4 |
| | Smoking | (0.233–0.513) | (0.367–0.926) | (230.3–515.6) | (140.2–358.3) | (-3.4–0.2) |
| | | 0.0147 | 0.0284 | 16.8 | 13.1 | -0.8 |
| | Chewing tobacco | (0.00498–0.0351) | (0.0102–0.0651) | (5.7–39.6) | (4.7–29.7) | (-3.9–2.6) |
| | | 0.140 | 0.280 | 150.8 | 118.4 | -0.7 |
| | Secondhand smoke | (0.0898–0.191) | (0.191–0.385) | (96.7–206.9) | (81.1–161.5) | (-1.7–0.2) |
| | | 0.00137 | 0.0302 | 6.3 | 18.2 | |
| | High alcohol use | (-0.0351–0.0592) | (-0.0537–0.149) | (-28.7–63.3) | (-12.1–65.9) | -- |
| | | 1.70 | 3.55 | 1814.5 | 1463.9 | -0.7 |
| | Dietary risks | (0.138–2.69) | (0.333–5.56) | (161.3–2950.6) | (125.3–2369.7) | (-1.7–0.3) |
| | | 0.620 | 1.38 | 632.1 | 531.4 | -0.5 |
| | Diet low in fruits | (0.239–0.990) | (0.552–2.25) | (250.8–1010.9) | (214.3–875.9) | (-1.7–0.7) |
| | | 0.567 | 1.01 | 588.0 | 397.6 | -1.2 |
| | Diet low in vegetables | (0.262–0.907) | (0.545–1.51) | (280.1–943.3) | (216.3–592.4) | (-2.3–0.2) |
| | | 0.176 | 0.333 | 184.9 | 134.6 | -1.0 |
| | Diet low in legumes | (-0.164–0.461) | (-0.295–0.847) | (-167.6–481.3) | (-115.0–352.4) | (-2.5–0.3) |
| | | 0.120 | 0.282 | 122.4 | 108.9 | -0.4 |
| | Diet low in whole grains | (0.0385–0.219) | (0.0863–0.523) | (40.0–227.2) | (32.6–207.6) | (-2.7–2.0) |
| | | 0.172 | 0.164 | 181.0 | 65.3 | -3.1 |
| | Diet low in nuts and seeds | (0.0478–0.298) | (0.0385–0.355) | (48.8–313.3) | (14.7–146.8) | (-6.3–-0.5) |
| | | -0.0464 | -0.0915 | -41.9 | -31.2 | |
| | Diet high in red meat | (-0.214–0.0788) | (-0.447–0.158) | (-193.4–71.8) | (-149.1–55.7) | -- |
| | | 0.0235 | 0.0576 | 23.4 | 22.1 | -0.2 |
| | Diet high in processed meat | (-0.00120–0.0609) | (-0.00289–0.147) | (-0.5–58.7) | (0.1–55.1) | (-3.3–2.8) |
| | | 0.00198 | 0.0214 | 1.9 | 7.9 | 4.3 |
| | Diet high in sugar-sweetened beverages | (0.000514–0.00523) | (0.00336–0.0712) | (0.5–5.1) | (1.3–26.7) | (0.1–9.0) |
| | | 0.0691 | 0.0530 | 69.0 | 19.3 | -3.9 |
| | Diet low in fiber | (0.0136–0.174) | (0.00829–0.131) | (15.0–170.1) | (3.1–48.7) | (-7.4–-0.2) |
| | | 0.197 | 0.405 | 210.3 | 163.8 | -0.8 |
| | Diet low in seafood omega-3 fatty acids | (0.0478–0.377) | (0.106–0.771) | (49.6–405.3) | (42.0–312.3) | (-3.0–1.0) |
| | | 0.197 | 0.506 | 209.3 | 207.8 | 0.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.728–0.756) | (-1.88–1.91) | (-735.1–802.7) | (-734.3–796.6) | (-1.4–1.2) |
| | | 0.0859 | 0.190 | 88.9 | 75.6 | -0.5 |
| | Diet high in trans fatty acids | (0.00358–0.197) | (0.0122–0.406) | (3.6–203.9) | (4.7–161.4) | (-2.2–1.4) |
| | | 0.178 | 0.420 | 206.1 | 193.7 | -0.2 |
| | Diet high in sodium | (0.00000412–0.754) | (0.000114–1.75) | (0.0–863.1) | (0.0–785.0) | (-9.3–22.3) |
| | | 0.0658 | 0.155 | 77.2 | 71.7 | -0.2 |
| | Low physical activity | (0.0222–0.116) | (0.0633–0.266) | (25.3–144.0) | (25.5–130.5) | (-1.3–0.9) |
| | | 2.47 | 5.32 | 2801.7 | 2398.5 | -0.5 |
| | Environmental/occupational risks | (1.78–3.12) | (4.11–6.59) | (2026.2–3548.0) | (1868.4–2918.0) | (-1.2–0.3) |
| | | 2.02 | 4.09 | 2297.6 | 1830.8 | -0.7 |
| | Air pollution | (1.44–2.57) | (3.03–5.13) | (1638.2–2933.0) | (1371.7–2277.3) | (-1.4–0.1) |
| | | 2.02 | 4.09 | 2297.6 | 1830.8 | -0.7 |
| | Particulate matter pollution | (1.44–2.57) | (3.03–5.13) | (1638.2–2933.0) | (1371.7–2277.3) | (-1.4–0.1) |
| | | 0.410 | 1.30 | 464.4 | 584.4 | 0.7 |
| | Ambient particulate matter pollution | (0.265–0.579) | (0.908–1.74) | (300.8–656.6) | (413.3–772.9) | (-0.4–2.0) |
| | | 1.61 | 2.79 | 1833.2 | 1245.9 | -1.2 |
| | Household air pollution from solid fuels | (1.13–2.09) | (2.03–3.57) | (1282.5–2377.3) | (907.5–1586.2) | (-2.0–-0.4) |
| | | 0.134 | 0.301 | 141.9 | 127.6 | -0.3 |
| | Non-optimal temperature | (0.0484–0.242) | (0.150–0.468) | (55.4–252.1) | (66.6–194.0) | (-1.3–1.8) |
| | | 0.0766 | 0.217 | 82.0 | 92.9 | 0.4 |
| | High temperature | (0.0111–0.148) | (0.0843–0.348) | (14.7–154.8) | (38.1–144.9) | (-0.9–4.9) |
| | | 0.0587 | 0.0867 | 61.3 | 36.0 | -1.6 |
| | Low temperature | (0.0335–0.0974) | (0.0523–0.126) | (36.1–100.2) | (22.0–53.4) | (-2.5–-0.5) |
| | | 0.606 | 1.71 | 713.0 | 807.1 | 0.4 |
| | Other environmental risks | (0.382–0.879) | (1.08–2.44) | (456.9–1029.4) | (523.5–1140.5) | (-0.6–1.4) |
| | | 0.606 | 1.71 | 713.0 | 807.1 | 0.4 |
| | Lead exposure | (0.382–0.879) | (1.08–2.44) | (456.9–1029.4) | (523.5–1140.5) | (-0.6–1.4) |

**Table S8. Decomposition analysis results**

| Cause Names | Risk factor | DALY Count attributable to risk (millions) | | Population Attributable Fraction (%) | | Percent change in number of risk-attributable DALYs | Change in number of DALYs (millions) due to | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 | Population aging | Population growth | Risk exposures | Risk-deleted DALY rate |
| **Cardiovascular diseases** | | | | | | | | | | |
| | All risk factors | 250 (226–269) | 347 (318–373) | 78.1 (74.1–81.1) | 79.6 (75.7–82.5) | 39.0 (26.9–55.0) | 139 (126–151) | 128 (115–139) | -27.2 (-84.1–28.9) | -142 (-194–-89.1) |
| | Metabolic risks | 202 (174–229) | 294 (256–326) | 63.1 (54.8–70.0) | 67.3 (61.7–72.9) | 45.4 (27.8–69.4) | 122 (107–135) | 103 (88.3–118) | 21.0 (-57.3–99.6) | -154 (-212–-98.5) |
| | High fasting plasma glucose | 21.2 (15.9–30.1) | 37.3 (30.3–47.4) | 6.6 (4.9–9.3) | 8.5 (7.1–10.7) | 75.7 (26.5–134.1) | 16.6 (13.8–20.5) | 10.8 (8.12–15.0) | 6.51 (-4.03–16.5) | -17.8 (-23.3–-13.3) |
| | High LDL cholesterol | 65.5 (41.0–92.5) | 90.7 (59.0–123) | 20.5 (12.6–28.3) | 20.8 (13.6–29.0) | 38.6 (15.1–66.7) | 33.9 (20.7–49.3) | 33.4 (21.1–47.0) | -0.774 (-16.7–16.1) | -41.3 (-63.5–-24.9) |
| | High systolic blood pressure | 154 (117–190) | 223 (180–261) | 48.1 (36.3–58.0) | 51.1 (41.8–58.5) | 44.9 (18.1–85.2) | 94.3 (77.3–110) | 78.5 (58.7–96.1) | 6.79 (-75.5–81.6) | -111 (-156–-70.2) |
| | High body-mass index | 21.6 (11.3–33.1) | 46.1 (25.2–66.2) | 6.8 (3.7–10.3) | 10.6 (5.9–14.9) | 113.8 (79.3–165.8) | 16.6 (8.93–24.0) | 11.0 (5.88–16.9) | 17.1 (7.97–28.3) | -20.1 (-30.4–-10.3) |
| | Kidney dysfunction | 29.5 (22.4–37.0) | 44.6 (33.5–57.8) | 9.2 (6.9–11.6) | 10.2 (7.6–12.8) | 51.0 (37.5–66.8) | 19.3 (14.5–24.8) | 15.1 (11.3–19.1) | 2.03 (-0.0509–4.07) | -21.4 (-27.7–-15.3) |
| | Behavioral risks | 151 (100–183) | 196 (128–242) | 47.3 (31.3–55.7) | 44.9 (28.8–54.7) | 29.3 (14.3–45.8) | 74.2 (47.6–94.0) | 77.3 (51.2–93.8) | -32.2 (-58.4–-6.57) | -74.8 (-109–-41.4) |
| | Tobacco | 67.8 (58.3–78.3) | 78.0 (67.9–88.8) | 21.2 (18.5–24.1) | 17.9 (15.5–20.3) | 15.0 (0.3–34.6) | 28.3 (24.2–32.9) | 34.6 (29.4–39.6) | -21.2 (-31.2–-11.3) | -31.6 (-41.2–-19.7) |
| | High alcohol use | 2.86 (0.0328–9.34) | 3.83 (0.411–11.0) | 0.9 (0.0–2.9) | 0.9 (0.1–2.5) | 34.2 (-37.0–414.1) | 1.81 (0.616–4.15) | 1.46 (0.0168–4.68) | -0.360 (-2.58–0.983) | -1.93 (-4.91–-0.439) |
| | Dietary risks | 107 (42.1–147) | 141 (56.0–198) | 33.5 (13.2–44.5) | 32.3 (12.5–45.5) | 31.4 (9.7–52.5) | 53.2 (21.6–77.4) | 54.8 (21.7–75.9) | -13.1 (-38.4–15.7) | -61.3 (-95.3–-22.1) |
| | Low physical activity | 4.94 (1.93–7.87) | 7.16 (2.87–11.6) | 1.5 (0.6–2.5) | 1.6 (0.6–2.6) | 45.0 (29.1–68.0) | 3.13 (0.989–5.27) | 2.52 (1.01–4.04) | 0.218 (-0.623–1.05) | -3.65 (-5.87–-1.38) |
| | Environmental/occupational risks | 122 (99.4–142) | 156 (131–181) | 38.0 (32.4–43.5) | 35.8 (30.9–40.7) | 28.6 (13.9–45.9) | 62.8 (52.2–73.5) | 62.1 (50.2–72.7) | -21.3 (-37.6–-8.37) | -68.9 (-83.8–-50.1) |
| | Air pollution | 81.7 (61.2–103) | 90.5 (70.7–110) | 25.5 (20.0–31.3) | 20.7 (16.2–25.2) | 10.7 (-2.9–26.0) | 36.2 (28.0–44.8) | 41.7 (30.9–51.8) | -28.5 (-42.9–-15.7) | -40.6 (-51.8–-29.0) |
| | Non-optimal temperature | 19.0 (16.6–22.7) | 22.9 (19.2–28.7) | 5.9 (5.4–7.0) | 5.3 (4.5–6.5) | 20.6 (6.5–36.2) | 9.23 (7.74–11.5) | 9.71 (8.55–11.6) | -3.43 (-4.87–-2.02) | -11.6 (-15.0–-8.50) |
| | Lead exposure | 41.2 (30.8–53.8) | 70.1 (53.0–87.5) | 12.9 (9.7–16.3) | 16.1 (12.6–19.5) | 70.2 (52.8–94.7) | 28.9 (21.5–36.2) | 21.0 (15.5–27.5) | 12.5 (7.59–18.1) | -33.5 (-43.7–-23.3) |
| **Ischemic heart disease** | | | | | | | | | | |
| | All risk factors | 119 (106–130) | 179 (160–195) | 93.4 (87.3–96.1) | 92.7 (86.7–95.6) | 50.5 (34.7–69.1) | 70.1 (62.9–77.1) | 60.6 (54.0–66.6) | -44.5 (-91.0–5.90) | -26.3 (-78.6–18.9) |
| | Metabolic risks | 98.0 (85.0–109) | 151 (132–168) | 77.2 (69.0–84.0) | 78.5 (72.1–84.3) | 54.1 (37.5–76.2) | 60.4 (53.0–67.9) | 50.0 (43.5–56.1) | 5.67 (-32.7–49.6) | -63.1 (-102–-27.1) |
| | High fasting plasma glucose | 11.3 (8.50–15.3) | 22.5 (18.0–28.7) | 8.9 (6.5–11.9) | 11.7 (9.5–14.8) | 99.1 (46.4–162.2) | 9.64 (7.70–12.1) | 5.77 (4.28–7.71) | 4.11 (-0.704–9.14) | -8.31 (-11.4–-5.67) |
| | High LDL cholesterol | 49.0 (35.5–64.4) | 70.1 (50.5–90.6) | 38.5 (27.6–49.6) | 36.4 (26.7–47.2) | 43.2 (19.3–74.3) | 24.6 (17.1–33.5) | 25.0 (18.1–32.6) | -3.36 (-18.9–10.8) | -25.0 (-38.2–-12.9) |
| | High systolic blood pressure | 64.2 (47.6–81.2) | 99.2 (75.9–121) | 50.5 (38.1–63.6) | 51.5 (40.0–61.5) | 54.5 (23.3–96.3) | 41.7 (31.7–50.8) | 32.8 (24.3–41.6) | -4.08 (-35.8–19.3) | -35.3 (-50.1–-20.0) |
| | High body-mass index | 12.7 (5.68–20.7) | 24.6 (11.4–37.3) | 10.0 (4.4–15.9) | 12.8 (6.1–19.3) | 93.7 (62.0–133.2) | 8.50 (3.79–13.0) | 6.48 (2.96–10.5) | 5.93 (1.49–11.7) | -9.02 (-15.6–-3.72) |
| | Kidney dysfunction | 17.0 (12.1–22.7) | 27.8 (19.4–37.4) | 13.4 (9.5–17.9) | 14.5 (10.2–19.5) | 63.9 (46.9–83.5) | 12.1 (8.49–16.4) | 8.67 (6.12–11.5) | 1.20 (-0.0394–2.54) | -11.1 (-15.8–-7.20) |
| | Behavioral risks | 86.0 (43.3–110) | 119 (58.8–153) | 67.7 (33.2–84.1) | 61.6 (29.2–78.4) | 38.0 (19.3–58.6) | 44.7 (21.3–61.3) | 43.9 (22.3–56.2) | -41.2 (-75.6–-12.2) | -14.7 (-35.5–9.46) |
| | Tobacco | 37.4 (32.5–42.6) | 46.4 (39.9–53.0) | 29.4 (25.7–33.1) | 24.1 (20.8–27.2) | 24.1 (7.2–44.2) | 16.4 (14.0–19.1) | 19.1 (16.4–21.8) | -14.1 (-20.9–-8.00) | -12.3 (-19.0–-5.96) |
| | High alcohol use | -3.15 (-6.31–5.48) | -3.73 (-8.11–5.95) | -2.5 (-4.9–4.3) | -1.9 (-4.1–3.0) | 18.5 (-3.2–48.5) | -1.05 (-2.14–2.24) | -1.61 (-3.23–2.82) | 0.771 (-1.66–1.86) | 1.31 (-2.44–3.03) |
| | Dietary risks | 71.3 (11.9–102) | 96.8 (18.8–143) | 56.1 (9.5–79.0) | 50.3 (9.4–73.0) | 35.8 (9.8–60.5) | 35.8 (7.19–54.7) | 36.4 (6.32–52.6) | -27.9 (-62.6–0.849) | -18.8 (-36.5–1.17) |
| | Low physical activity | 2.40 (1.05–3.55) | 3.85 (1.75–5.92) | 1.9 (0.8–2.8) | 2.0 (0.9–3.0) | 60.6 (39.2–90.4) | 1.75 (0.769–2.71) | 1.23 (0.538–1.82) | 0.178 (-0.230–0.591) | -1.70 (-2.62–-0.720) |
| | Environmental/occupational risks | 64.2 (52.9–74.1) | 97.1 (81.2–110) | 50.5 (42.5–56.0) | 50.4 (43.2–55.5) | 51.2 (33.9–71.4) | 38.5 (32.8–44.0) | 32.8 (27.0–37.9) | -1.19 (-9.06–5.81) | -37.2 (-46.0–-27.9) |
| | Air pollution | 38.1 (26.2–48.0) | 49.9 (34.3–61.7) | 30.0 (21.5–36.5) | 25.9 (18.5–31.5) | 30.8 (10.6–53.6) | 19.3 (13.1–24.2) | 19.5 (13.5–24.1) | -9.65 (-16.4–-4.17) | -17.3 (-23.9–-11.5) |
| | Non-optimal temperature | 8.24 (6.69–10.8) | 11.9 (8.57–16.7) | 6.5 (5.2–8.4) | 6.2 (4.6–8.7) | 44.0 (22.8–66.1) | 4.72 (3.51–6.53) | 4.21 (3.39–5.53) | -0.602 (-1.41–0.356) | -4.69 (-6.90–-3.17) |
| | Lead exposure | 32.3 (26.8–36.8) | 57.1 (48.7–64.1) | 25.4 (22.1–28.3) | 29.7 (26.3–32.3) | 76.8 (56.9–103.0) | 23.3 (20.0–26.3) | 16.5 (13.5–18.8) | 9.50 (6.71–12.0) | -24.5 (-29.8–-18.5) |
| **Ischemic stroke** | | | | | | | | | | |
| | All risk factors | 46.1 (40.9–52.1) | 59.3 (50.9–67.7) | 88.9 (82.9–93.4) | 88.4 (82.8–93.3) | 28.7 (11.5–48.7) | 28.2 (24.5–32.1) | 23.5 (20.7–26.9) | -7.20 (-26.5–13.1) | -31.3 (-55.0–-13.6) |
| | Metabolic risks | 40.3 (33.2–47.3) | 53.0 (43.5–62.0) | 77.8 (65.7–87.1) | 79.0 (67.9–87.5) | 31.4 (11.9–54.3) | 25.8 (21.2–30.6) | 20.6 (16.9–24.2) | 2.61 (-17.2–23.2) | -36.4 (-57.4–-20.2) |
| | High fasting plasma glucose | 6.67 (4.54–9.30) | 10.5 (7.56–14.6) | 12.9 (9.0–17.9) | 15.7 (11.7–20.9) | 58.1 (12.2–113.5) | 5.26 (3.81–7.10) | 3.41 (2.31–4.79) | 1.82 (-0.871–5.31) | -6.61 (-9.33–-4.49) |
| | High LDL cholesterol | 16.5 (6.32–28.1) | 20.6 (7.76–34.2) | 31.8 (11.8–52.2) | 30.7 (11.5–49.2) | 24.9 (-2.8–54.7) | 9.12 (3.22–15.6) | 8.43 (3.25–14.3) | -1.11 (-6.08–3.87) | -12.3 (-22.6–-4.71) |
| | High systolic blood pressure | 30.8 (22.3–38.9) | 40.2 (29.1–49.8) | 59.4 (42.5–75.2) | 60.0 (43.6–72.5) | 30.8 (5.4–67.0) | 19.8 (14.4–24.6) | 15.7 (11.1–19.7) | -0.0928 (-16.8–14.9) | -25.9 (-38.6–-14.6) |
| | High body-mass index | 2.33 (0.420–4.27) | 4.09 (0.769–7.60) | 4.5 (0.8–8.3) | 6.1 (1.2–11.0) | 75.4 (39.8–124.8) | 1.58 (0.290–2.90) | 1.19 (0.220–2.17) | 1.23 (0.190–2.66) | -2.23 (-4.16–-0.446) |
| | Kidney dysfunction | 5.34 (3.42–7.46) | 7.45 (4.74–10.5) | 10.3 (6.8–14.0) | 11.1 (7.3–15.1) | 39.6 (18.4–62.8) | 3.58 (2.17–5.19) | 2.72 (1.76–3.83) | 0.555 (0.102–1.09) | -4.75 (-7.15–-2.74) |
| | Behavioral risks | 19.9 (13.8–26.4) | 24.2 (16.4–32.6) | 38.3 (28.1–48.6) | 36.0 (25.1–46.9) | 21.4 (1.6–47.0) | 10.6 (7.00–14.7) | 10.2 (7.18–13.6) | -3.27 (-8.24–1.62) | -13.2 (-19.8–-7.52) |
| | Tobacco | 9.88 (8.01–12.0) | 11.3 (9.15–13.4) | 19.1 (15.9–22.1) | 16.9 (14.2–19.8) | 14.5 (-9.2–41.1) | 4.98 (4.12–5.98) | 5.04 (4.10–6.18) | -2.21 (-4.28–-0.404) | -6.38 (-8.78–-4.22) |
| | High alcohol use | 1.36 (0.000186–3.56) | 1.79 (-0.000286–4.73) | 2.6 (0.0–6.6) | 2.7 (0.0–7.2) | 31.3 (-62.5–172.1) | 0.913 (0.000668–2.36) | 0.695 (0.0000940–1.81) | -0.0648 (-0.591–0.520) | -1.12 (-3.01–-0.00147) |
| | Dietary risks | 10.2 (3.49–17.2) | 12.3 (3.04–21.7) | 19.6 (6.7–32.7) | 18.3 (4.9–31.6) | 20.9 (-11.6–65.9) | 5.14 (1.22–9.81) | 5.19 (1.78–8.89) | -1.10 (-5.72–3.31) | -7.10 (-13.8–-1.83) |
| | Low physical activity | 2.51 (0.746–4.52) | 3.26 (0.834–5.89) | 4.8 (1.4–8.3) | 4.8 (1.3–8.7) | 30.0 (-1.8–56.6) | 1.36 (-0.0237–2.86) | 1.28 (0.360–2.29) | 0.117 (-0.159–0.489) | -2.01 (-3.87–-0.438) |

| Cause Names | Risk factor | DALY Count attributable to risk (millions) | | Population Attributable Fraction (%) | | Percent change in number of risk-attributable DALYs | Change in number of DALYs (millions) due to | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 | Population aging | Population growth | Risk exposures | Risk-deleted DALY rate |
| | Environmental/occupational risks | 19.7 (13.7–25.8) | 21.8 (15.8–28.5) | 38.0 (27.2–47.3) | 32.5 (23.1–41.7) | 10.3 (-8.6–30.9) | 10.5 (7.71–14.0) | 10.1 (6.96–13.1) | -5.79 (-9.82–-2.75) | -12.8 (-17.5–-8.60) |
| | Air pollution | 15.8 (9.27–22.2) | 16.4 (9.88–23.0) | 30.4 (18.7–40.6) | 24.5 (14.8–33.6) | 4.1 (-14.4–26.5) | 7.94 (4.79–11.0) | 8.05 (4.65–11.3) | -5.41 (-9.36–-2.23) | -9.94 (-14.2–-6.02) |
| | Non-optimal temperature | 3.56 (2.86–4.30) | 3.63 (2.64–4.82) | 6.9 (5.6–8.3) | 5.4 (4.0–7.2) | 1.8 (-16.8–23.0) | 1.89 (1.40–2.45) | 1.82 (1.46–2.20) | -1.06 (-1.65–-0.648) | -2.59 (-3.37–-1.89) |
| | Lead exposure | 2.39 (-0.291–5.13) | 3.81 (-0.526–8.34) | 4.6 (-0.6–10.1) | 5.7 (-0.7–12.6) | 59.4 (31.7–95.3) | 1.79 (-0.231–4.04) | 1.22 (-0.149–2.63) | 0.736 (-0.0797–1.68) | -2.33 (-5.06–0.256) |
| **Intracerebral hemorrhage** | | | | | | | | | | |
| | All risk factors | 56.1 (45.8–64.9) | 63.6 (53.2–72.8) | 79.9 (72.7–86.1) | 81.3 (74.0–86.6) | 13.2 (-4.5–39.5) | 23.8 (20.0–27.7) | 28.7 (23.2–33.5) | -7.66 (-32.7–16.7) | -37.4 (-64.3–-16.1) |
| | Metabolic risks | 40.7 (29.2–53.2) | 50.2 (39.3–61.3) | 58.0 (41.9–73.0) | 64.2 (51.0–75.0) | 23.3 (-3.3–63.8) | 20.4 (15.6–26.2) | 20.8 (14.7–26.9) | 9.27 (-16.0–38.8) | -41.0 (-67.9–-21.1) |
| | High fasting plasma glucose | 3.05 (1.48–5.97) | 3.72 (1.98–6.15) | 4.3 (2.2–7.8) | 4.8 (2.5–7.8) | 21.9 (-24.0–95.2) | 1.50 (0.783–2.52) | 1.55 (0.741–3.07) | 0.103 (-1.80–1.91) | -2.49 (-4.51–-1.08) |
| | High systolic blood pressure | 36.5 (24.2–49.4) | 45.2 (31.4–58.1) | 51.9 (33.9–69.6) | 57.9 (41.2–70.6) | 24.1 (-5.4–75.7) | 18.4 (13.0–24.1) | 18.6 (12.1–25.3) | 7.47 (-15.5–31.6) | -35.7 (-56.6–-19.0) |
| | High body-mass index | 0.744 (-0.610–2.10) | 2.33 (-0.118–5.46) | 1.1 (-0.9–2.9) | 3.0 (-0.2–6.7) | 213.5 (-584.0–744.2) | 0.754 (-0.0119–1.80) | 0.380 (-0.307–1.04) | 1.59 (0.0229–3.42) | -1.14 (-2.88–0.187) |
| | Kidney dysfunction | 6.93 (4.68–9.67) | 8.71 (5.96–12.0) | 9.9 (6.9–12.9) | 11.1 (7.7–14.7) | 25.6 (4.9–52.0) | 3.41 (2.28–4.77) | 3.54 (2.37–4.85) | 0.911 (0.465–1.55) | -6.09 (-8.79–-3.39) |
| | Behavioral risks | 27.5 (20.0–36.0) | 27.7 (19.3–36.3) | 39.1 (29.9–49.1) | 35.4 (27.0–45.4) | 0.6 (-18.7–25.7) | 9.82 (7.03–13.1) | 14.0 (10.1–18.9) | -7.64 (-15.7–-1.57) | -16.1 (-24.6–-7.04) |
| | Tobacco | 16.6 (13.2–20.1) | 16.1 (13.2–18.7) | 23.7 (20.3–27.2) | 20.6 (17.7–23.8) | -3.5 (-22.1–25.6) | 5.58 (4.58–6.53) | 8.49 (6.68–10.4) | -4.87 (-7.70–-2.17) | -9.78 (-13.5–-5.05) |
| | High alcohol use | 1.81 (-0.366–5.44) | 2.12 (-0.514–6.15) | 2.6 (-0.5–7.7) | 2.7 (-0.7–8.0) | 17.3 (-7.6–60.5) | 0.855 (-0.206–2.49) | 0.923 (-0.190–2.76) | -0.0253 (-0.953–0.614) | -1.44 (-4.24–0.301) |
| | Dietary risks | 13.6 (5.32–24.4) | 13.4 (5.76–24.5) | 19.3 (8.0–33.9) | 17.1 (7.3–30.8) | -1.4 (-39.7–50.0) | 4.81 (1.78–8.77) | 6.94 (2.71–12.8) | -2.76 (-9.37–3.79) | -9.19 (-17.8–-3.39) |
| | Environmental/occupational risks | 29.6 (20.4–38.7) | 27.8 (19.1–36.3) | 42.1 (30.3–52.2) | 35.6 (25.1–45.5) | -5.9 (-23.4–18.9) | 10.3 (7.06–13.4) | 15.1 (10.5–19.9) | -10.6 (-15.9–-5.84) | -16.6 (-23.2–-9.55) |
| | Air pollution | 24.5 (14.7–34.0) | 21.7 (12.9–30.3) | 34.8 (21.7–46.0) | 27.8 (16.6–37.2) | -11.4 (-27.3–11.0) | 8.15 (4.93–11.2) | 12.5 (7.47–17.2) | -9.93 (-15.1–-5.02) | -13.5 (-19.7–-7.04) |
| | Non-optimal temperature | 4.66 (3.57–6.20) | 4.40 (3.08–6.50) | 6.6 (5.3–8.4) | 5.6 (3.9–7.7) | -5.7 (-26.7–18.0) | 1.57 (1.12–2.35) | 2.38 (1.80–3.19) | -0.923 (-1.50–-0.465) | -3.30 (-4.90–-1.97) |
| | Lead exposure | 3.66 (-0.446–7.93) | 4.53 (-0.523–10.5) | 5.2 (-0.6–11.4) | 5.8 (-0.7–12.7) | 23.7 (-0.9–62.1) | 1.81 (-0.208–4.05) | 1.86 (-0.229–4.06) | 0.314 (-0.230–1.14) | -3.12 (-6.96–0.398) |
| **Subarachnoid hemorrhage** | | | | | | | | | | |
| | All risk factors | 7.94 (4.97–10.8) | 8.25 (6.61–10.3) | 73.1 (64.3–80.8) | 73.3 (63.8–80.8) | 3.9 (-27.3–67.0) | 2.67 (2.08–3.39) | 4.05 (2.45–5.50) | -1.79 (-5.35–1.68) | -4.62 (-9.01–-0.469) |
| | Metabolic risks | 5.26 (2.85–7.73) | 6.22 (4.41–8.16) | 48.5 (31.3–64.1) | 55.3 (39.9–67.8) | 18.3 (-22.6–97.7) | 2.31 (1.53–3.14) | 2.68 (1.42–3.94) | 1.21 (-2.44–5.02) | -5.24 (-9.29–-1.44) |
| | High systolic blood pressure | 5.23 (2.81–7.72) | 6.12 (4.26–8.09) | 48.2 (31.0–64.1) | 54.4 (38.8–67.6) | 17.2 (-24.0–97.6) | 2.28 (1.48–3.07) | 2.67 (1.40–3.94) | 1.06 (-2.05–4.48) | -5.11 (-8.97–-1.38) |
| | High body-mass index | 0.181 (-0.0771–0.477) | 0.524 (0.00675–1.11) | 1.7 (-0.6–4.6) | 4.6 (0.1–9.6) | 189.6 (-260.5–733.9) | 0.159 (0.00187–0.337) | 0.0925 (-0.0392–0.248) | 0.366 (0.00526–0.795) | -0.275 (-0.713–0.0101) |
| | Behavioral risks | 3.86 (2.19–5.78) | 3.46 (2.44–4.74) | 35.5 (23.8–46.9) | 30.7 (22.5–41.3) | -10.4 (-38.1–47.6) | 1.03 (0.719–1.55) | 1.97 (1.11–2.98) | -1.40 (-2.46–-0.312) | -2.00 (-3.86–-0.273) |
| | Tobacco | 2.53 (1.67–3.47) | 2.19 (1.81–2.68) | 23.3 (18.8–28.1) | 19.5 (16.5–22.4) | -13.5 (-38.9–32.5) | 0.632 (0.489–0.801) | 1.29 (0.858–1.79) | -0.969 (-1.45–-0.540) | -1.30 (-2.45–-0.206) |
| | Dietary risks | 1.81 (0.185–3.77) | 1.62 (0.338–3.26) | 16.5 (1.7–32.0) | 14.4 (2.8–28.7) | -10.3 (-66.4–97.0) | 0.513 (0.135–1.07) | 0.922 (0.0934–1.96) | -0.431 (-1.34–0.589) | -1.19 (-2.80–-0.153) |
| | Environmental/occupational risks | 4.17 (2.10–6.10) | 3.37 (2.15–4.75) | 38.1 (26.5–47.8) | 29.8 (21.0–38.3) | -19.2 (-45.1–35.5) | 1.05 (0.662–1.50) | 2.13 (1.07–3.15) | -1.82 (-2.92–-0.742) | -2.16 (-3.82–-0.354) |
| | Air pollution | 3.36 (1.50–5.10) | 2.55 (1.40–3.96) | 30.8 (19.6–40.8) | 22.6 (13.4–31.5) | -24.2 (-49.5–30.1) | 0.812 (0.444–1.24) | 1.72 (0.778–2.61) | -1.59 (-2.56–-0.636) | -1.75 (-3.14–-0.309) |
| | Non-optimal temperature | 0.749 (0.417–1.05) | 0.583 (0.409–0.845) | 6.9 (5.4–8.6) | 5.2 (3.7–7.1) | -22.1 (-47.4–31.8) | 0.161 (0.107–0.235) | 0.382 (0.207–0.540) | -0.224 (-0.344–-0.109) | -0.484 (-0.841–-0.102) |
| | Lead exposure | 0.501 (-0.0549–1.32) | 0.532 (-0.0569–1.26) | 4.6 (-0.5–10.4) | 4.7 (-0.6–10.5) | 6.1 (-28.8–102.1) | 0.195 (-0.0212–0.456) | 0.255 (-0.0280–0.672) | -0.0120 (-0.172–0.111) | -0.408 (-1.21–0.0487) |
| **Hypertensive heart disease** | | | | | | | | | | |
| | All risk factors | 15.6 (11.5–19.4) | 28.4 (22.7–35.2) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 81.6 (40.3–130.4) | 11.2 (9.01–13.1) | 7.98 (5.96–9.88) | -6.42 (-12.8–-1.01) | 0* (0–0) |
| | Metabolic risks | 15.6 (11.5–19.4) | 28.4 (22.7–35.2) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 81.6 (40.3–130.4) | 11.2 (9.01–13.1) | 7.98 (5.96–9.88) | -6.42 (-12.8–-1.01) | 0* (0–0) |
| | High systolic blood pressure | 15.6 (11.5–19.4) | 28.4 (22.7–35.2) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 81.6 (40.3–130.4) | 11.2 (9.01–13.1) | 7.98 (5.96–9.88) | -5.77 (-12.4–-0.294) | 0* (0–0) |
| | High body-mass index | 5.17 (3.76–6.75) | 13.2 (10.1–16.9) | 33.2 (26.7–41.7) | 46.5 (36.3–55.1) | 155.0 (96.1–224.8) | 4.90 (3.49–6.38) | 2.64 (1.92–3.46) | 6.19 (3.43–9.48) | -5.71 (-9.38–-2.34) |
| | Behavioral risks | 10.5 (7.39–13.7) | 16.7 (12.7–21.6) | 66.9 (56.2–76.9) | 58.8 (50.0–68.8) | 59.7 (18.2–101.4) | 6.68 (5.09–8.50) | 5.34 (3.76–6.85) | -4.68 (-10.4–0.942) | -1.10 (-5.99–3.95) |
| | High alcohol use | 0.889 (0.556–1.31) | 1.22 (0.839–1.77) | 5.7 (3.8–8.2) | 4.3 (2.7–6.4) | 36.8 (-0.5–81.4) | 0.479 (0.310–0.724) | 0.454 (0.284–0.682) | -0.183 (-0.528–0.0932) | -0.423 (-0.990–0.00347) |
| | Dietary risks | 10.2 (7.09–13.4) | 16.2 (12.2–21.0) | 65.1 (53.5–75.5) | 57.2 (48.2–67.6) | 59.5 (16.7–104.2) | 6.50 (4.91–8.33) | 5.20 (3.62–6.73) | -4.47 (-10.1–1.03) | -1.17 (-5.76–3.73) |
| | Environmental/occupational risks | 3.30 (1.18–5.70) | 5.43 (1.69–9.28) | 21.1 (7.4–34.6) | 19.1 (5.8–30.7) | 64.8 (20.7–109.0) | 2.22 (0.729–3.66) | 1.68 (0.610–2.89) | -0.548 (-1.44–0.304) | -1.22 (-2.92–0.145) |
| | Non-optimal temperature | 1.19 (0.841–1.61) | 1.76 (1.27–2.40) | 7.6 (6.2–9.1) | 6.2 (4.6–8.2) | 48.1 (14.7–84.9) | 0.745 (0.544–0.985) | 0.608 (0.434–0.817) | -0.361 (-0.589–-0.176) | -0.419 (-0.874–-0.0528) |
| | Lead exposure | 2.28 (0.000000382–4.80) | 3.91 (0.00000260–7.55) | 14.6 (0.0–29.0) | 13.7 (0.0–25.6) | 71.2 (18.8–185.0) | 1.60 (0.0000238–3.03) | 1.18 (0.0000219–2.41) | -0.202 (-1.15–0.658) | -0.934 (-2.40–-0.00000725) |
| **Atrial fibrillation and flutter** | | | | | | | | | | |
| | All risk factors | 1.38 (0.742–2.12) | 3.64 (1.98–5.62) | 40.2 (22.1–58.0) | 39.2 (21.7–55.3) | 163.8 (127.2–210.4) | 1.55 (0.825–2.37) | 0.705 (0.390–1.06) | -0.0728 (-0.900–0.551) | 0.0779 (-0.193–0.451) |
| | Metabolic risks | 1.16 (0.480–1.97) | 3.20 (1.38–5.24) | 33.8 (13.4–53.7) | 34.4 (15.1–52.0) | 175.5 (131.9–256.1) | 1.37 (0.606–2.24) | 0.592 (0.246–0.993) | 0.0411 (-0.778–0.655) | 0.0290 (-0.211–0.379) |
| | High systolic blood pressure | 1.08 (0.375–1.93) | 2.81 (1.03–4.83) | 31.4 (10.6–52.6) | 30.3 (10.5–48.5) | 161.0 (114.8–226.6) | 1.24 (0.443–2.10) | 0.550 (0.194–0.954) | -0.161 (-0.888–0.328) | 0.108 (-0.0403–0.396) |

| Cause Names | Risk factor | DALY Count attributable to risk (millions) | | Population Attributable Fraction (%) | | Percent change in number of risk-attributable DALYs | Change in number of DALYs (millions) due to | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 | Population aging | Population growth | Risk exposures | Risk-deleted DALY rate |
| | High body-mass index | 0.173 (0.0759–0.312) | 0.759 (0.374–1.23) | 5.0 (2.2–8.3) | 8.2 (4.0–12.3) | 339.6 (212.9–482.8) | 0.273 (0.131–0.450) | 0.0882 (0.0395–0.163) | 0.237 (0.0808–0.439) | -0.0117 (-0.0421–0.0112) |
| | Behavioral risks | 0.426 (0.264–0.723) | 0.939 (0.541–1.61) | 12.4 (7.9–19.3) | 10.1 (6.2–16.3) | 120.5 (85.5–165.9) | 0.380 (0.220–0.668) | 0.217 (0.132–0.361) | -0.120 (-0.290–0.0159) | 0.0359 (0.00201–0.0863) |
| | Tobacco | 0.219 (0.125–0.319) | 0.414 (0.225–0.603) | 6.4 (3.9–8.8) | 4.5 (2.7–6.5) | 88.6 (59.9–120.1) | 0.165 (0.0940–0.242) | 0.112 (0.0627–0.163) | -0.101 (-0.188–-0.0393) | 0.0184 (0.00222–0.0395) |
| | High alcohol use | 0.119 (0.0429–0.219) | 0.280 (0.132–0.467) | 3.5 (1.2–6.2) | 3.0 (1.4–4.8) | 136.0 (93.5–213.4) | 0.113 (0.0517–0.188) | 0.0606 (0.0220–0.115) | -0.0174 (-0.0796–0.0199) | 0.00530 (-0.00512–0.0201) |
| | Dietary risks | 0.115 (0.0131–0.372) | 0.297 (0.0321–0.960) | 3.3 (0.4–10.2) | 3.2 (0.4–9.7) | 159.0 (12.1–394.9) | 0.122 (0.0133–0.404) | 0.0584 (0.00688–0.192) | -0.00187 (-0.114–0.108) | 0.00371 (-0.00857–0.0228) |
| | Environmental/occupational risks | 0.0568 (-0.00729–0.145) | 0.186 (-0.0236–0.470) | 1.7 (-0.2–4.3) | 2.0 (-0.3–5.1) | 226.8 (195.6–270.8) | 0.0767 (-0.00988–0.193) | 0.0289 (-0.00372–0.0747) | 0.0213 (-0.00253–0.0591) | 0.00182 (-0.00457–0.0108) |
| | Lead exposure | 0.0568 (-0.00729–0.145) | 0.186 (-0.0236–0.470) | 1.7 (-0.2–4.3) | 2.0 (-0.3–5.1) | 226.8 (195.6–270.8) | 0.0767 (-0.00988–0.193) | 0.0289 (-0.00372–0.0747) | 0.0213 (-0.00253–0.0591) | 0.00182 (-0.00457–0.0108) |
| **Aortic aneurysm** | | | | | | | | | | |
| | All risk factors | 1.08 (0.938–1.22) | 1.63 (1.37–1.89) | 56.1 (49.5–62.3) | 47.7 (42.5–53.8) | 51.3 (29.5–71.4) | 0.636 (0.542–0.735) | 0.549 (0.472–0.623) | -0.550 (-0.877–-0.313) | -0.0826 (-0.353–0.217) |
| | Metabolic risks | 0.363 (0.254–0.483) | 0.609 (0.450–0.790) | 18.9 (13.3–25.6) | 17.8 (13.3–22.9) | 68.0 (27.7–125.6) | 0.253 (0.188–0.325) | 0.185 (0.128–0.247) | -0.0414 (-0.214–0.127) | -0.151 (-0.233–-0.0824) |
| | High systolic blood pressure | 0.363 (0.254–0.483) | 0.609 (0.450–0.790) | 18.9 (13.3–25.6) | 17.8 (13.3–22.9) | 68.0 (27.7–125.6) | 0.253 (0.188–0.325) | 0.185 (0.128–0.247) | -0.0456 (-0.168–0.0352) | -0.146 (-0.243–-0.0509) |
| | High body-mass index | 0.143 (0.0851–0.235) | 0.277 (0.165–0.452) | 7.5 (4.3–12.4) | 8.1 (4.6–13.2) | 94.1 (55.2–144.4) | 0.105 (0.0622–0.171) | 0.0728 (0.0429–0.119) | 0.0215 (-0.0319–0.0794) | -0.0649 (-0.127–-0.0320) |
| | Behavioral risks | 0.984 (0.849–1.14) | 1.46 (1.24–1.72) | 51.3 (45.0–57.5) | 42.6 (37.2–48.3) | 48.0 (26.9–70.5) | 0.557 (0.469–0.658) | 0.502 (0.430–0.578) | -0.519 (-0.779–-0.316) | -0.0684 (-0.316–0.171) |
| | Tobacco | 0.881 (0.754–1.03) | 1.24 (1.02–1.48) | 45.9 (39.8–52.7) | 36.4 (31.0–42.5) | 40.9 (21.3–61.0) | 0.472 (0.385–0.565) | 0.450 (0.389–0.527) | -0.517 (-0.788–-0.314) | -0.0444 (-0.243–0.173) |
| | Dietary risks | 0.194 (0.126–0.290) | 0.342 (0.229–0.516) | 10.1 (6.6–15.1) | 10.0 (6.8–15.1) | 76.4 (35.2–136.8) | 0.135 (0.0897–0.203) | 0.0990 (0.0654–0.146) | -0.00435 (-0.0916–0.0734) | -0.0811 (-0.140–-0.0417) |
| | Environmental/occupational risks | 0.0196 (-0.00281–0.0447) | 0.0433 (-0.00495–0.0930) | 1.0 (-0.1–2.2) | 1.3 (-0.2–2.7) | 120.6 (69.8–174.9) | 0.0173 (-0.00209–0.0377) | 0.0100 (-0.00139–0.0226) | 0.00690 (-0.000694–0.0202) | -0.0106 (-0.0252–0.00158) |
| | Lead exposure | 0.0196 (-0.00281–0.0447) | 0.0433 (-0.00495–0.0930) | 1.0 (-0.1–2.2) | 1.3 (-0.2–2.7) | 120.6 (69.8–174.9) | 0.0173 (-0.00209–0.0377) | 0.0100 (-0.00139–0.0226) | 0.00690 (-0.000694–0.0202) | -0.0106 (-0.0252–0.00158) |
| **Lower extremity peripheral arterial disease** | | | | | | | | | | |
| | All risk factors | 0.647 (0.502–0.842) | 1.24 (0.937–1.69) | 66.7 (58.4–74.6) | 66.5 (58.2–74.1) | 91.4 (68.6–112.3) | 0.578 (0.444–0.778) | 0.330 (0.257–0.428) | -0.0375 (-0.198–0.137) | -0.279 (-0.439–-0.139) |
| | Metabolic risks | 0.482 (0.338–0.657) | 1.03 (0.737–1.42) | 49.7 (37.8–59.0) | 55.2 (44.9–63.9) | 113.2 (85.7–145.9) | 0.493 (0.351–0.675) | 0.246 (0.172–0.332) | 0.139 (0.00306–0.328) | -0.332 (-0.470–-0.216) |
| | High fasting plasma glucose | 0.183 (0.118–0.278) | 0.481 (0.338–0.702) | 18.9 (12.5–25.6) | 25.8 (19.3–33.9) | 162.2 (93.4–272.2) | 0.231 (0.167–0.321) | 0.0936 (0.0596–0.141) | 0.0622 (-0.0296–0.227) | -0.0891 (-0.178–-0.00778) |
| | High systolic blood pressure | 0.130 (0.0254–0.237) | 0.237 (0.0470–0.440) | 13.5 (2.8–23.6) | 12.8 (2.5–22.2) | 81.9 (51.5–120.0) | 0.112 (0.0214–0.206) | 0.0666 (0.0128–0.123) | -0.0118 (-0.0578–0.0281) | -0.0595 (-0.105–-0.0113) |
| | High body-mass index | 0.141 (0.0359–0.329) | 0.365 (0.0984–0.765) | 14.6 (3.8–35.1) | 19.7 (5.8–42.2) | 158.7 (70.7–320.7) | 0.154 (0.0410–0.323) | 0.0721 (0.0188–0.165) | 0.101 (-0.0134–0.289) | -0.103 (-0.273–-0.0227) |
| | Kidney dysfunction | 0.278 (0.157–0.424) | 0.580 (0.328–0.928) | 28.7 (17.0–39.2) | 31.2 (19.3–42.0) | 108.6 (86.2–132.9) | 0.280 (0.159–0.432) | 0.142 (0.0804–0.219) | 0.0349 (0.0110–0.0696) | -0.155 (-0.232–-0.0880) |
| | Behavioral risks | 0.369 (0.274–0.478) | 0.556 (0.395–0.787) | 38.0 (29.7–45.5) | 29.9 (23.3–36.6) | 50.8 (28.3–76.1) | 0.247 (0.177–0.346) | 0.188 (0.139–0.248) | -0.191 (-0.305–-0.0940) | -0.0579 (-0.125–0.0160) |
| | Tobacco | 0.322 (0.236–0.417) | 0.454 (0.319–0.649) | 33.2 (25.5–41.0) | 24.4 (18.7–31.1) | 41.0 (16.0–66.5) | 0.199 (0.133–0.280) | 0.164 (0.117–0.215) | -0.191 (-0.307–-0.103) | -0.0400 (-0.0962–0.0204) |
| | Dietary risks | 0.0425 (0.0139–0.0830) | 0.0952 (0.0332–0.177) | 4.4 (1.4–7.8) | 5.1 (1.9–8.8) | 124.0 (45.5–240.5) | 0.0426 (0.0145–0.0774) | 0.0217 (0.00727–0.0422) | 0.0115 (-0.0187–0.0460) | -0.0231 (-0.0441–-0.00740) |
| | Low physical activity | 0.0296 (0.00805–0.0580) | 0.0443 (0.0117–0.0871) | 3.0 (0.9–5.8) | 2.4 (0.7–4.3) | 49.8 (31.3–66.0) | 0.0231 (0.00629–0.0436) | 0.0151 (0.00415–0.0299) | -0.0113 (-0.0229–-0.00336) | -0.0122 (-0.0233–-0.00326) |
| | Environmental/occupational risks | 0.00375 (-0.000498–0.0101) | 0.00948 (-0.00128–0.0247) | 0.4 (0.0–1.1) | 0.5 (-0.1–1.4) | 152.5 (87.9–298.9) | 0.00407 (-0.000558–0.0110) | 0.00191 (-0.000253–0.00515) | 0.00186 (-0.000416–0.00671) | -0.00212 (-0.00522–0.000254) |
| | Lead exposure | 0.00375 (-0.000498–0.0101) | 0.00948 (-0.00128–0.0247) | 0.4 (0.0–1.1) | 0.5 (-0.1–1.4) | 152.5 (87.9–298.9) | 0.00407 (-0.000558–0.0110) | 0.00191 (-0.000253–0.00515) | 0.00186 (-0.000416–0.00671) | -0.00212 (-0.00522–0.000254) |
| **Alcoholic cardiomyopathy** | | | | | | | | | | |
| | All risk factors | 1.83 (1.58–2.13) | 2.16 (1.93–2.46) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 18.1 (1.6–38.9) | 0.559 (0.495–0.651) | 0.932 (0.792–1.10) | -1.16 (-1.56–-0.779) | 0* (0–0) |
| | Behavioral risks | 1.83 (1.58–2.13) | 2.16 (1.93–2.46) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 18.1 (1.6–38.9) | 0.559 (0.495–0.651) | 0.932 (0.792–1.10) | -1.16 (-1.56–-0.779) | 0* (0–0) |
| | High alcohol use | 1.83 (1.58–2.13) | 2.16 (1.93–2.46) | 100.0 (100.0–100.0) | 100.0 (100.0–100.0) | 18.1 (1.6–38.9) | 0.559 (0.495–0.651) | 0.932 (0.792–1.10) | -1.16 (-1.56–-0.779) | 0* (0–0) |
| | Environmental/occupational risks | 0.137 (0.104–0.169) | 0.134 (0.0949–0.191) | 7.5 (5.8–8.8) | 6.2 (4.4–8.1) | -2.3 (-21.5–19.3) | 0.0343 (0.0232–0.0496) | 0.0698 (0.0526–0.0854) | -0.0301 (-0.0442–-0.0138) | -0.0772 (-0.110–-0.0470) |
| | Non-optimal temperature | 0.137 (0.104–0.169) | 0.134 (0.0949–0.191) | 7.5 (5.8–8.8) | 6.2 (4.4–8.1) | -2.3 (-21.5–19.3) | 0.0343 (0.0232–0.0496) | 0.0698 (0.0526–0.0854) | -0.0301 (-0.0442–-0.0138) | -0.0772 (-0.110–-0.0470) |
| **Myocarditis** | | | | | | | | | | |
| | All risk factors | 0.0900 (0.0402–0.160) | 0.0435 (0.0156–0.0857) | 7.5 (3.6–11.4) | 6.7 (2.5–11.1) | -51.6 (-71.7–-23.1) | -0.0204 (-0.0404–-0.00756) | 0.0459 (0.0206–0.0816) | -0.00797 (-0.0206–0.00958) | -0.0640 (-0.127–-0.0217) |
| | Environmental/occupational risks | 0.0900 (0.0402–0.160) | 0.0435 (0.0156–0.0857) | 7.5 (3.6–11.4) | 6.7 (2.5–11.1) | -51.6 (-71.7–-23.1) | -0.0204 (-0.0404–-0.00756) | 0.0459 (0.0206–0.0816) | -0.00797 (-0.0206–0.00958) | -0.0640 (-0.127–-0.0217) |
| | Non-optimal temperature | 0.0900 (0.0402–0.160) | 0.0435 (0.0156–0.0857) | 7.5 (3.6–11.4) | 6.7 (2.5–11.1) | -51.6 (-71.7–-23.1) | -0.0204 (-0.0404–-0.00756) | 0.0459 (0.0206–0.0816) | -0.00797 (-0.0206–0.00958) | -0.0640 (-0.127–-0.0217) |
| **Other cardiomyopathy** | | | | | | | | | | |
| | All risk factors | 0.384 (0.230–0.593) | 0.508 (0.229–0.878) | 6.4 (3.8–9.2) | 5.5 (2.3–9.0) | 32.5 (-14.9–86.1) | 0.116 (0.0643–0.189) | 0.196 (0.118–0.305) | -0.0660 (-0.155–-0.0317) | -0.121 (-0.283–-0.00263) |
| | Environmental/occupational risks | 0.384 (0.230–0.593) | 0.508 (0.229–0.878) | 6.4 (3.8–9.2) | 5.5 (2.3–9.0) | 32.5 (-14.9–86.1) | 0.116 (0.0643–0.189) | 0.196 (0.118–0.305) | -0.0660 (-0.155–-0.0317) | -0.121 (-0.283–-0.00263) |
| | Non-optimal temperature | 0.384 (0.230–0.593) | 0.508 (0.229–0.878) | 6.4 (3.8–9.2) | 5.5 (2.3–9.0) | 32.5 (-14.9–86.1) | 0.116 (0.0643–0.189) | 0.196 (0.118–0.305) | -0.0660 (-0.155–-0.0317) | -0.121 (-0.283–-0.00263) |

*Hypertensive heart disease and alcoholic cardiomyopathy have zero risk-deleted burden because each disease has a risk factor that accounts for 100% of the attributable risk.

**Table S9. Cardiovascular disease risk factor mortality rates**

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| Global | | | | | | |
| | | 10.9 | 15.8 | 312.4 | 176.6 | -1.7 |
| | All risk factors | (9.94–11.6) | (14.1–17.1) | (284.2–335.8) | (157.2–190.9) | (-2.0–-1.4) |
| | | 8.99 | 13.6 | 260.8 | 151.4 | -1.6 |
| | Metabolic risks | (7.85–10.1) | (11.8–15.1) | (227.9–292.2) | (131.9–168.3) | (-2.0–-1.3) |
| | | 1.05 | 1.89 | 31.8 | 21.2 | -1.2 |
| | High fasting plasma glucose | (0.806–1.42) | (1.57–2.38) | (24.6–42.7) | (17.6–26.7) | (-2.1–-0.4) |
| | | 2.61 | 3.64 | 74.2 | 40.5 | -1.8 |
| | High LDL cholesterol | (1.54–3.79) | (2.22–5.35) | (42.7–109.3) | (24.6–59.7) | (-2.4–-1.2) |
| | | 7.06 | 10.5 | 205.4 | 117.8 | -1.7 |
| | High systolic blood pressure | (5.53–8.57) | (8.57–12.4) | (162.8–245.4) | (95.7–138.9) | (-2.2–-1.0) |
| | | 0.844 | 1.82 | 23.0 | 20.2 | -0.4 |
| | High body-mass index | (0.447–1.30) | (1.04–2.62) | (12.1–35.2) | (11.6–29.1) | (-1.0–0.3) |
| | | 1.38 | 2.20 | 41.6 | 24.6 | -1.6 |
| | Kidney dysfunction | (0.989–1.76) | (1.59–2.87) | (29.4–53.0) | (17.7–32.2) | (-1.8–-1.3) |
| | | 6.03 | 8.17 | 166.2 | 90.6 | -1.8 |
| | Behavioral risks | (3.86–7.42) | (5.25–10.4) | (104.3–208.3) | (58.2–115.0) | (-2.2–-1.5) |
| | | 2.47 | 2.98 | 64.5 | 32.8 | -2.1 |
| | Tobacco | (2.10–2.87) | (2.54–3.46) | (54.7–75.3) | (27.9–38.1) | (-2.5–-1.6) |
| | | 1.87 | 2.13 | 47.5 | 23.3 | -2.2 |
| | Smoking | (1.55–2.27) | (1.78–2.57) | (39.1–57.5) | (19.4–28.3) | (-2.7–-1.6) |
| | | 0.0730 | 0.156 | 1.9 | 1.7 | -0.4 |
| | Chewing tobacco | (0.0352–0.132) | (0.0764–0.253) | (0.9–3.5) | (0.8–2.8) | (-2.3–1.6) |
| | | 0.636 | 0.818 | 17.9 | 9.1 | -2.0 |
| | Secondhand smoke | (0.459–0.824) | (0.597–1.02) | (12.9–23.1) | (6.6–11.4) | (-2.6–-1.5) |
| | | 0.138 | 0.167 | 3.9 | 1.8 | -2.3 |
| | High alcohol use | (0.0380–0.349) | (0.0448–0.406) | (1.3–9.2) | (0.5–4.5) | (-4.2–-1.3) |
| | | 4.30 | 5.93 | 119.4 | 65.9 | -1.8 |
| | Dietary risks | (1.66–5.99) | (2.35–8.63) | (45.4–167.6) | (26.1–96.0) | (-2.3–-1.3) |
| | | 1.01 | 1.45 | 26.6 | 16.1 | -1.5 |
| | Diet low in fruits | (0.352–1.62) | (0.596–2.34) | (9.7–42.8) | (6.7–26.0) | (-2.3–-0.6) |
| | | 0.500 | 0.727 | 13.8 | 8.1 | -1.6 |
| | Diet low in vegetables | (0.277–0.755) | (0.440–1.04) | (7.9–20.9) | (4.9–11.5) | (-2.4–-0.8) |
| | | 0.438 | 0.595 | 12.3 | 6.6 | -1.9 |
| | Diet low in legumes | (-0.381–1.14) | (-0.462–1.60) | (-10.5–32.4) | (-5.2–17.9) | (-2.7–-1.2) |
| | | 0.616 | 0.901 | 17.0 | 10.0 | -1.6 |
| | Diet low in whole grains | (0.258–1.00) | (0.391–1.40) | (7.2–28.0) | (4.4–15.6) | (-2.8–-0.3) |
| | | 0.708 | 0.893 | 19.5 | 9.9 | -2.0 |
| | Diet low in nuts and seeds | (0.199–1.16) | (0.255–1.51) | (5.4–32.5) | (2.8–16.9) | (-3.1–-1.1) |
| | | 0.0138 | 0.0300 | 0.8 | 0.3 | |
| | Diet high in red meat | (-0.342–0.207) | (-0.281–0.249) | (-7.2–5.1) | (-3.1–2.7) | -- |
| | | 0.145 | 0.140 | 4.1 | 1.6 | -2.9 |
| | Diet high in processed meat | (-0.0130–0.309) | (-0.00824–0.301) | (-0.3–8.7) | (-0.1–3.4) | (-4.2–-1.5) |
| | | 0.0386 | 0.0750 | 1.1 | 0.8 | -0.7 |
| | Diet high in sugar-sweetened beverages | (0.0119–0.0902) | (0.0299–0.134) | (0.3–2.5) | (0.3–1.5) | (-2.9–2.6) |
| | | 0.393 | 0.430 | 10.7 | 4.8 | -2.4 |
| | Diet low in fiber | (0.109–0.854) | (0.113–0.933) | (3.1–22.8) | (1.3–10.4) | (-5.2–0.3) |
| | | 0.488 | 0.526 | 13.4 | 5.9 | -2.5 |
| | Diet low in seafood omega-3 fatty acids | (0.120–0.927) | (0.132–1.05) | (3.2–25.8) | (1.5–11.7) | (-4.2–-0.9) |
| | | 0.391 | 0.529 | 10.7 | 5.9 | -1.8 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-1.18–1.49) | (-1.44–2.08) | (-31.3–40.7) | (-16.0–23.0) | (-2.6–-1.1) |
| | | 0.386 | 0.395 | 10.7 | 4.4 | -2.7 |
| | Diet high in trans fatty acids | (0.0175–0.769) | (0.0211–0.772) | (0.5–21.4) | (0.2–8.6) | (-3.9–-1.6) |
| | | 1.21 | 1.55 | 33.0 | 17.1 | -2.0 |
| | Diet high in sodium | (0.239–2.59) | (0.230–3.87) | (5.9–72.6) | (2.5–42.9) | (-4.8–-0.3) |
| | | 0.237 | 0.353 | 7.1 | 4.0 | -1.8 |
| | Low physical activity | (0.0746–0.399) | (0.109–0.609) | (2.0–12.4) | (1.2–6.9) | (-2.2–-1.2) |
| | | 5.26 | 7.28 | 149.6 | 81.1 | -1.9 |
| | Environmental/occupational risks | (4.37–6.10) | (6.14–8.43) | (124.5–173.3) | (68.4–94.1) | (-2.2–-1.5) |
| | | 3.45 | 3.98 | 96.7 | 44.2 | -2.4 |
| | Air pollution | (2.59–4.32) | (3.14–4.86) | (72.9–120.9) | (34.8–53.8) | (-2.8–-2.0) |
| | | 3.45 | 3.98 | 96.7 | 44.2 | -2.4 |
| | Particulate matter pollution | (2.59–4.32) | (3.14–4.86) | (72.9–120.9) | (34.8–53.8) | (-2.8–-2.0) |
| | | 1.51 | 2.76 | 44.3 | 30.7 | -1.1 |
| | Ambient particulate matter pollution | (1.07–1.95) | (2.13–3.44) | (31.3–57.3) | (23.6–38.3) | (-1.7–-0.5) |
| | | 1.94 | 1.24 | 52.3 | 13.7 | -4.1 |
| | Household air pollution from solid fuels | (1.37–2.50) | (0.825–1.80) | (37.2–67.4) | (9.1–19.9) | (-5.0–-3.1) |
| | | 0.874 | 1.16 | 25.2 | 13.0 | -2.0 |
| | Non-optimal temperature | (0.778–1.03) | (0.988–1.44) | (22.6–29.7) | (11.1–16.1) | (-2.3–-1.7) |
| | | 0.0728 | 0.239 | 2.0 | 2.7 | 0.9 |
| | High temperature | (0.0234–0.152) | (0.115–0.423) | (0.6–4.2) | (1.3–4.7) | (0.2–2.3) |
| | | 0.806 | 0.934 | 23.4 | 10.5 | -2.4 |
| | Low temperature | (0.729–0.893) | (0.838–1.05) | (21.3–25.9) | (9.4–11.8) | (-2.7–-2.2) |
| | | 1.83 | 3.45 | 52.8 | 38.5 | -1.0 |
| | Other environmental risks | (1.36–2.34) | (2.59–4.27) | (39.6–67.3) | (28.9–47.8) | (-1.3–-0.6) |
| | | 1.83 | 3.45 | 52.8 | 38.5 | -1.0 |
| | Lead exposure | (1.36–2.34) | (2.59–4.27) | (39.6–67.3) | (28.9–47.8) | (-1.3–-0.6) |
| Central Europe, Eastern Europe, and Central Asia | | | | | | |
| | | 2.11 | 1.95 | 506.9 | 293.0 | -1.7 |
| | All risk factors | (1.99–2.21) | (1.80–2.06) | (472.7–530.8) | (269.7–310.4) | (-1.8–-1.6) |
| | | 1.82 | 1.71 | 437.3 | 255.4 | -1.6 |
| | Metabolic risks | (1.65–1.97) | (1.53–1.86) | (395.1–474.9) | (229.2–278.7) | (-1.8–-1.4) |
| | | 0.199 | 0.228 | 49.3 | 34.0 | -1.1 |
| | High fasting plasma glucose | (0.145–0.279) | (0.177–0.302) | (35.8–68.5) | (26.5–45.2) | (-2.1–0.0) |
| | | 0.677 | 0.553 | 159.2 | 83.2 | -2.0 |
| | High LDL cholesterol | (0.401–0.968) | (0.337–0.801) | (92.6–230.0) | (51.1–120.1) | (-2.5–-1.4) |
| | | 1.43 | 1.34 | 340.6 | 199.6 | -1.6 |
| | High systolic blood pressure | (1.19–1.66) | (1.09–1.54) | (284.4–398.1) | (162.2–230.0) | (-2.1–-1.1) |
| | | 0.235 | 0.299 | 52.1 | 44.4 | -0.5 |
| | High body-mass index | (0.104–0.390) | (0.150–0.461) | (23.2–86.7) | (22.1–68.4) | (-1.2–0.2) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.276 | 0.277 | 70.9 | 42.2 | -1.6 |
| | Kidney dysfunction | (0.197–0.355) | (0.204–0.363) | (50.9–91.6) | (30.9–55.2) | (-1.7–-1.4) |
| | | 1.14 | 1.03 | 266.0 | 155.2 | -1.6 |
| | Behavioral risks | (0.599–1.44) | (0.537–1.33) | (135.2–340.0) | (81.1–199.3) | (-1.9–-1.4) |
| | | 0.423 | 0.339 | 93.0 | 50.6 | -1.8 |
| | Tobacco | (0.359–0.489) | (0.292–0.382) | (78.5–107.3) | (43.6–56.9) | (-2.3–-1.5) |
| | | 0.314 | 0.260 | 65.7 | 38.7 | -1.6 |
| | Smoking | (0.259–0.379) | (0.218–0.306) | (54.0–79.8) | (32.6–45.3) | (-2.2–-1.1) |
| | | 0.00102 | 0.000941 | 0.2 | 0.1 | -1.6 |
| | Chewing tobacco | (0.000324–0.00233) | (0.000302–0.00215) | (0.1–0.6) | (0.0–0.3) | (-4.7–-1.9) |
| | | 0.125 | 0.0891 | 30.5 | 13.5 | -2.5 |
| | Secondhand smoke | (0.0912–0.162) | (0.0644–0.114) | (22.3–39.4) | (9.7–17.1) | (-3.1–-1.8) |
| | | 0.0399 | 0.0528 | 8.8 | 8.5 | -0.1 |
| | High alcohol use | (0.0227–0.0976) | (0.0383–0.110) | (5.1–20.6) | (6.3–17.1) | (-0.9–1.0) |
| | | 0.842 | 0.755 | 198.3 | 113.5 | -1.7 |
| | Dietary risks | (0.177–1.20) | (0.146–1.12) | (40.3–286.8) | (22.5–168.0) | (-2.2–-1.3) |
| | | 0.148 | 0.119 | 34.2 | 18.2 | -1.9 |
| | Diet low in fruits | (0.0412–0.253) | (0.0407–0.209) | (9.4–58.7) | (6.2–31.8) | (-3.1–-0.5) |
| | | 0.0594 | 0.0548 | 13.9 | 8.3 | -1.6 |
| | Diet low in vegetables | (0.0300–0.0970) | (0.0305–0.0895) | (7.2–22.8) | (4.7–13.5) | (-3.1–-0.3) |
| | | 0.128 | 0.121 | 30.2 | 18.2 | -1.5 |
| | Diet low in legumes | (-0.105–0.334) | (-0.100–0.309) | (-24.7–79.3) | (-15.3–46.4) | (-2.0–-1.1) |
| | | 0.117 | 0.116 | 27.3 | 17.6 | -1.3 |
| | Diet low in whole grains | (0.0493–0.201) | (0.0523–0.188) | (11.5–47.3) | (8.0–28.2) | (-3.0–0.5) |
| | | 0.201 | 0.175 | 47.2 | 26.5 | -1.8 |
| | Diet low in nuts and seeds | (0.0587–0.322) | (0.0471–0.294) | (13.7–75.9) | (7.2–44.4) | (-2.3–-1.4) |
| | | 0.0314 | 0.0232 | | | |
| | | (0.0000000000000000363– | (0.000000000000000269– | 7.1 | 3.5 | |
| | Diet high in red meat | 0.0600) | 0.0404) | (0.0–13.6) | (0.0–5.9) | -- |
| | | 0.0616 | 0.0414 | 14.0 | 6.3 | -2.4 |
| | Diet high in processed meat | (-0.00578–0.127) | (-0.00167–0.0941) | (-1.2–28.9) | (-0.3–14.1) | (-4.0–-1.2) |
| | | 0.00886 | 0.0104 | 2.0 | 1.6 | -0.7 |
| | Diet high in sugar-sweetened beverages | (0.00279–0.0206) | (0.00434–0.0187) | (0.6–4.7) | (0.7–2.9) | (-2.8–2.7) |
| | | 0.0368 | 0.0331 | 9.0 | 5.1 | -1.7 |
| | Diet low in fiber | (0.00945–0.0829) | (0.00674–0.0821) | (2.4–19.9) | (1.1–12.6) | (-5.9–2.3) |
| | | 0.102 | 0.0783 | 24.5 | 11.9 | -2.2 |
| | Diet low in seafood omega-3 fatty acids | (0.0244–0.202) | (0.0197–0.157) | (5.8–48.7) | (3.0–23.8) | (-3.9–-0.7) |
| | | 0.108 | 0.0935 | 25.3 | 14.1 | -1.8 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.314–0.415) | (-0.243–0.366) | (-72.9–98.2) | (-37.0–55.3) | (-2.4–-1.4) |
| | | 0.0669 | 0.0384 | 15.6 | 5.8 | -3.0 |
| | Diet high in trans fatty acids | (0.00284–0.136) | (0.00193–0.0768) | (0.7–31.7) | (0.3–11.6) | (-4.3–-1.8) |
| | | 0.190 | 0.165 | 44.0 | 24.7 | -1.8 |
| | Diet high in sodium | (0.0332–0.446) | (0.0223–0.408) | (7.5–104.9) | (3.3–60.7) | (-4.5–0.2) |
| | | 0.0468 | 0.0429 | 11.7 | 6.5 | -1.8 |
| | Low physical activity | (0.0122–0.0823) | (0.0115–0.0746) | (3.1–21.2) | (1.7–11.4) | (-2.4–-1.0) |
| | | 0.941 | 0.717 | 227.9 | 107.5 | -2.3 |
| | Environmental/occupational risks | (0.771–1.11) | (0.622–0.804) | (187.2–268.1) | (93.4–120.6) | (-2.7–-1.9) |
| | | 0.586 | 0.260 | 141.5 | 39.0 | -3.9 |
| | Air pollution | (0.394–0.768) | (0.188–0.337) | (94.4–185.9) | (28.2–50.4) | (-4.7–-3.1) |
| | | 0.586 | 0.260 | 141.5 | 39.0 | -3.9 |
| | Particulate matter pollution | (0.394–0.768) | (0.188–0.337) | (94.4–185.9) | (28.2–50.4) | (-4.7–-3.1) |
| | | 0.481 | 0.241 | 116.0 | 36.1 | -3.5 |
| | Ambient particulate matter pollution | (0.297–0.663) | (0.173–0.311) | (71.8–160.8) | (25.8–46.5) | (-4.5–-2.5) |
| | | 0.105 | 0.0203 | 25.5 | 3.0 | -6.5 |
| | Household air pollution from solid fuels | (0.0566–0.184) | (0.00820–0.0460) | (13.7–44.5) | (1.2–6.9) | (-8.2–-5.1) |
| | | 0.183 | 0.158 | 44.2 | 23.9 | -1.9 |
| | Non-optimal temperature | (0.171–0.202) | (0.144–0.181) | (40.9–48.8) | (21.6–27.3) | (-2.0–-1.7) |
| | | 0.00221 | 0.00646 | 0.5 | 1.0 | |
| | High temperature | (-0.0000291–0.00861) | (0.00143–0.0191) | (0.0–2.1) | (0.2–2.9) | -- |
| | | 0.181 | 0.152 | 43.7 | 23.0 | -1.9 |
| | Low temperature | (0.171–0.197) | (0.139–0.165) | (40.7–47.5) | (21.0–24.9) | (-2.1–-1.8) |
| | | 0.322 | 0.392 | 79.1 | 58.8 | -0.9 |
| | Other environmental risks | (0.265–0.375) | (0.332–0.452) | (65.1–91.9) | (49.6–67.8) | (-1.1–-0.7) |
| | | 0.322 | 0.392 | 79.1 | 58.8 | -0.9 |
| | Lead exposure | (0.265–0.375) | (0.332–0.452) | (65.1–91.9) | (49.6–67.8) | (-1.1–-0.7) |
| **Central Asia** | | | | | | |
| | | 0.196 | 0.260 | 513.2 | 356.0 | -1.1 |
| | All risk factors | (0.183–0.206) | (0.242–0.272) | (475.1–542.0) | (328.8–375.5) | (-1.3–-0.9) |
| | | 0.169 | 0.227 | 442.5 | 312.9 | -1.1 |
| | Metabolic risks | (0.151–0.184) | (0.207–0.246) | (396.1–482.5) | (282.7–340.1) | (-1.3–-0.8) |
| | | 0.0203 | 0.0321 | 56.3 | 46.3 | -0.6 |
| | High fasting plasma glucose | (0.0155–0.0259) | (0.0266–0.0396) | (43.3–71.9) | (38.4–57.3) | (-1.3–0.2) |
| | | 0.0502 | 0.0674 | 124.5 | 86.8 | -1.1 |
| | High LDL cholesterol | (0.0301–0.0724) | (0.0425–0.0945) | (73.4–182.6) | (52.7–126.5) | (-1.8–-0.4) |
| | | 0.132 | 0.177 | 346.7 | 245.8 | -1.0 |
| | High systolic blood pressure | (0.106–0.157) | (0.144–0.204) | (282.2–412.0) | (200.1–284.4) | (-1.6–-0.4) |
| | | 0.0236 | 0.0415 | 55.6 | 51.5 | -0.2 |
| | High body-mass index | (0.0110–0.0392) | (0.0206–0.0649) | (26.2–91.9) | (26.0–80.4) | (-1.1–0.6) |
| | | 0.0327 | 0.0452 | 91.2 | 65.7 | -1.0 |
| | Kidney dysfunction | (0.0250–0.0402) | (0.0345–0.0561) | (68.9–113.3) | (49.3–83.2) | (-1.1–-0.9) |
| | | 0.111 | 0.136 | 280.3 | 179.3 | -1.4 |
| | Behavioral risks | (0.0499–0.140) | (0.0590–0.177) | (122.5–361.2) | (76.1–238.7) | (-1.7–-1.1) |
| | | 0.0384 | 0.0448 | 89.0 | 54.3 | -1.5 |
| | Tobacco | (0.0320–0.0445) | (0.0374–0.0523) | (73.8–103.7) | (44.7–63.6) | (-2.1–-1.0) |
| | | 0.0265 | 0.0299 | 56.7 | 33.0 | -1.6 |
| | Smoking | (0.0210–0.0332) | (0.0236–0.0372) | (44.7–71.9) | (25.3–41.6) | (-2.5–-0.8) |
| | | 0.000220 | 0.000261 | 0.5 | 0.3 | -1.6 |
| | Chewing tobacco | (0.0000745–0.000472) | (0.0000882–0.000578) | (0.2–1.1) | (0.1–0.7) | (-4.6–1.6) |
| | | 0.0132 | 0.0162 | 35.1 | 22.8 | -1.3 |
| | Secondhand smoke | (0.00977–0.0167) | (0.0121–0.0205) | (26.1–44.2) | (17.0–28.6) | (-1.9–-0.8) |
| | | 0.000569 | 0.00271 | 1.6 | 2.9 | |
| | High alcohol use | (-0.000537–0.00460) | (0.00150–0.00702) | (-0.6–10.6) | (1.7–7.9) | -- |
| | | 0.0884 | 0.106 | 226.5 | 141.7 | -1.4 |
| | Dietary risks | (0.0132–0.125) | (0.0135–0.156) | (34.9–323.4) | (19.0–212.2) | (-2.0–-1.0) |
| | | 0.0161 | 0.0137 | 39.0 | 17.2 | -2.5 |
| | Diet low in fruits | (0.00461–0.0277) | (0.00442–0.0255) | (11.5–67.7) | (5.7–32.3) | (-4.0–-0.8) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00653 | 0.00412 | 16.4 | 5.8 | -3.2 |
| | Diet low in vegetables | (0.00328–0.0103) | (0.00150–0.00828) | (8.4–25.9) | (2.2–11.2) | (-6.3–-1.4) |
| | | 0.0157 | 0.0198 | 39.2 | 25.7 | -1.3 |
| | Diet low in legumes | (-0.0144–0.0394) | (-0.0173–0.0511) | (-35.4–99.5) | (-22.1–67.4) | (-1.5–-1.1) |
| | | 0.0124 | 0.0172 | 30.7 | 22.2 | -1.0 |
| | Diet low in whole grains | (0.00565–0.0204) | (0.00809–0.0272) | (14.0–51.2) | (10.4–35.0) | (-2.7–0.8) |
| | | 0.0205 | 0.0257 | 51.4 | 33.5 | -1.3 |
| | Diet low in nuts and seeds | (0.00605–0.0326) | (0.00699–0.0427) | (14.7–82.7) | (9.1–56.7) | (-1.9–-0.8) |
| | | | 0.00421 | | | |
| | | | (- | | | |
| | | 0.00166 | 0.00000000000000000145– | 4.1 | 5.2 | |
| | Diet high in red meat | (-0.00127–0.00417) | 0.00791) | (-1.9–9.6) | (0.0–10.1) | -- |
| | | 0.00207 | 0.00331 | 4.7 | 3.9 | -0.6 |
| | Diet high in processed meat | (-0.000219–0.00512) | (-0.000406–0.00910) | (-0.4–11.5) | (-0.4–10.7) | (-3.3–2.2) |
| | | 0.000704 | 0.00139 | 1.6 | 1.6 | 0.1 |
| | Diet high in sugar-sweetened beverages | (0.000145–0.00182) | (0.000257–0.00426) | (0.3–4.1) | (0.3–5.0) | (-4.4–5.0) |
| | | 0.00745 | 0.00370 | 19.0 | 5.1 | -4.0 |
| | Diet low in fiber | (0.00230–0.0157) | (0.000628–0.00988) | (6.0–40.0) | (0.9–13.4) | (-8.6–-0.3) |
| | | 0.0181 | 0.0226 | 45.6 | 29.5 | -1.3 |
| | Diet low in seafood omega-3 fatty acids | (0.00427–0.0323) | (0.00507–0.0391) | (10.6–81.6) | (6.6–52.2) | (-1.9–-0.8) |
| | | 0.0115 | 0.0142 | 28.8 | 18.4 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0338–0.0436) | (-0.0386–0.0544) | (-82.5–110.4) | (-49.5–71.9) | (-1.9–-1.0) |
| | | 0.00761 | 0.00796 | 18.7 | 10.2 | -1.8 |
| | Diet high in trans fatty acids | (0.000338–0.0154) | (0.000405–0.0157) | (0.8–37.9) | (0.5–20.0) | (-3.1–-0.9) |
| | | 0.0199 | 0.0177 | 51.9 | 25.4 | -2.2 |
| | Diet high in sodium | (0.00130–0.0487) | (0.000407–0.0508) | (3.4–128.5) | (0.6–71.7) | (-9.0–0.5) |
| | | 0.00312 | 0.00377 | 8.8 | 5.7 | -1.3 |
| | Low physical activity | (0.000993–0.00520) | (0.00131–0.00653) | (2.7–14.9) | (1.8–10.1) | (-2.0–-0.7) |
| | | 0.0950 | 0.124 | 251.5 | 172.4 | -1.1 |
| | Environmental/occupational risks | (0.0771–0.111) | (0.107–0.138) | (205.2–293.0) | (149.8–193.0) | (-1.5–-0.7) |
| | | 0.0572 | 0.0651 | 150.4 | 89.5 | -1.6 |
| | Air pollution | (0.0348–0.0778) | (0.0504–0.0788) | (92.1–204.2) | (68.9–108.5) | (-2.4–-0.6) |
| | | 0.0572 | 0.0651 | 150.4 | 89.5 | -1.6 |
| | Particulate matter pollution | (0.0348–0.0778) | (0.0504–0.0788) | (92.1–204.2) | (68.9–108.5) | (-2.4–-0.6) |
| | | 0.0310 | 0.0541 | 81.2 | 74.4 | -0.3 |
| | Ambient particulate matter pollution | (0.0140–0.0534) | (0.0421–0.0670) | (36.7–139.2) | (57.3–92.5) | (-1.8–1.9) |
| | | 0.0261 | 0.0112 | 69.2 | 15.3 | -4.6 |
| | Household air pollution from solid fuels | (0.0162–0.0395) | (0.00595–0.0192) | (43.0–104.2) | (8.0–26.5) | (-5.9–-3.4) |
| | | 0.0189 | 0.0237 | 49.5 | 32.5 | -1.3 |
| | Non-optimal temperature | (0.0170–0.0233) | (0.0212–0.0300) | (44.3–61.1) | (28.7–41.2) | (-1.4–-1.1) |
| | | 0.000949 | 0.00292 | 2.5 | 4.0 | 1.4 |
| | High temperature | (0.000124–0.00294) | (0.000999–0.00718) | (0.3–7.8) | (1.3–9.8) | (0.6–4.9) |
| | | 0.0181 | 0.0210 | 47.2 | 28.9 | -1.5 |
| | Low temperature | (0.0167–0.0207) | (0.0196–0.0235) | (43.5–54.2) | (26.7–32.4) | (-1.6–-1.3) |
| | | 0.0366 | 0.0588 | 99.2 | 84.4 | -0.5 |
| | Other environmental risks | (0.0305–0.0426) | (0.0495–0.0685) | (82.7–115.7) | (70.7–97.8) | (-0.7–-0.3) |
| | | 0.0366 | 0.0588 | 99.2 | 84.4 | -0.5 |
| | Lead exposure | (0.0305–0.0426) | (0.0495–0.0685) | (82.7–115.7) | (70.7–97.8) | (-0.7–-0.3) |
| **Central Europe** | | | | | | |
| | | 0.616 | 0.511 | 463.7 | 217.8 | -2.3 |
| | All risk factors | (0.578–0.639) | (0.467–0.542) | (433.2–483.9) | (199.5–231.0) | (-2.4–-2.2) |
| | | 0.540 | 0.456 | 406.7 | 194.2 | -2.2 |
| | Metabolic risks | (0.493–0.580) | (0.407–0.494) | (370.1–438.6) | (173.2–210.3) | (-2.4–-2.0) |
| | | 0.0748 | 0.0793 | 57.9 | 33.3 | -1.7 |
| | High fasting plasma glucose | (0.0544–0.113) | (0.0607–0.109) | (42.7–86.8) | (25.4–46.0) | (-2.9–-0.5) |
| | | 0.183 | 0.123 | 135.4 | 53.5 | -2.8 |
| | High LDL cholesterol | (0.108–0.261) | (0.0741–0.184) | (78.4–195.1) | (32.9–79.1) | (-3.3–-2.3) |
| | | 0.441 | 0.369 | 331.0 | 156.2 | -2.3 |
| | High systolic blood pressure | (0.371–0.504) | (0.312–0.417) | (278.5–380.5) | (131.8–176.9) | (-2.6–-1.9) |
| | | 0.0699 | 0.0858 | 49.1 | 37.0 | -0.9 |
| | High body-mass index | (0.0335–0.112) | (0.0520–0.119) | (23.8–78.4) | (22.4–51.3) | (-1.6–0.0) |
| | | 0.0582 | 0.0537 | 47.2 | 23.0 | -2.2 |
| | Kidney dysfunction | (0.0414–0.0751) | (0.0383–0.0700) | (33.6–60.9) | (16.4–30.0) | (-2.4–-2.0) |
| | | 0.359 | 0.274 | 263.1 | 118.5 | -2.4 |
| | Behavioral risks | (0.238–0.436) | (0.167–0.353) | (168.5–323.3) | (73.0–151.6) | (-2.7–-2.1) |
| | | 0.142 | 0.0775 | 98.3 | 34.8 | -3.1 |
| | Tobacco | (0.119–0.165) | (0.0651–0.0896) | (81.9–114.8) | (29.5–39.9) | (-3.6–-2.7) |
| | | 0.111 | 0.0570 | 74.2 | 26.0 | -3.2 |
| | Smoking | (0.0906–0.135) | (0.0459–0.0698) | (60.5–90.4) | (21.2–31.5) | (-3.8–-2.6) |
| | | 0.000285 | 0.000298 | 0.2 | 0.1 | -1.6 |
| | Chewing tobacco | (0.0000899–0.000660) | (0.0000951–0.000691) | (0.1–0.5) | (0.0–0.3) | (-4.7–1.9) |
| | | 0.0375 | 0.0231 | 28.7 | 10.0 | -3.2 |
| | Secondhand smoke | (0.0273–0.0487) | (0.0166–0.0296) | (20.9–37.2) | (7.2–12.8) | (-3.8–-2.6) |
| | | 0.0104 | 0.00997 | 7.4 | 4.1 | -1.8 |
| | High alcohol use | (0.00369–0.0307) | (0.00526–0.0266) | (2.8–20.3) | (2.0–11.8) | (-3.4–0.0) |
| | | 0.267 | 0.213 | 197.9 | 91.7 | -2.3 |
| | Dietary risks | (0.0948–0.368) | (0.0889–0.308) | (69.5–273.4) | (38.5–132.0) | (-2.8–-1.9) |
| | | 0.0395 | 0.0318 | 28.7 | 14.0 | -2.2 |
| | Diet low in fruits | (0.0141–0.0662) | (0.0159–0.0520) | (10.4–47.9) | (7.0–22.9) | (-3.4–-0.6) |
| | | 0.0179 | 0.0186 | 13.3 | 8.0 | -1.5 |
| | Diet low in vegetables | (0.00940–0.0278) | (0.0111–0.0283) | (7.1–20.7) | (4.8–12.2) | (-3.2–-0.1) |
| | | 0.0318 | 0.0241 | 23.5 | 10.6 | -2.4 |
| | Diet low in legumes | (-0.0259–0.0838) | (-0.0190–0.0629) | (-19.0–62.2) | (-8.4–27.4) | (-3.1–-1.9) |
| | | 0.0304 | 0.0250 | 22.3 | 11.0 | -2.1 |
| | Diet low in whole grains | (0.0127–0.0519) | (0.0104–0.0420) | (9.4–38.4) | (4.6–18.3) | (-3.7–-0.5) |
| | | 0.0525 | 0.0347 | 38.7 | 15.3 | -2.8 |
| | Diet low in nuts and seeds | (0.0154–0.0838) | (0.00930–0.0593) | (11.3–62.2) | (4.1–26.0) | (-3.5–-2.4) |
| | | 0.00714 | | | | |
| | | (- | 0.00494 | | | |
| | | 0.000000000000000000101–0 | (0.00000000000000000101 | 5.1 | 2.2 | |
| | Diet high in red meat | .0120) | –0.0113) | (0.0–8.6) | (0.0–4.9) | -- |
| | | 0.00577 | 0.00714 | 4.1 | 3.2 | -0.7 |
| | Diet high in processed meat | (0.000105–0.0130) | (0.000143–0.0153) | (0.1–9.2) | (0.0–7.0) | (-2.4–1.0) |
| | | 0.00486 | 0.00462 | 3.5 | 2.1 | -1.5 |
| | Diet high in sugar-sweetened beverages | (0.00156–0.0111) | (0.00217–0.00824) | (1.1–7.9) | (1.0–3.8) | (-3.7–1.8) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00878 | 0.00938 | 6.8 | 4.1 | -1.5 |
| | Diet low in fiber | (0.00275–0.0189) | (0.00287–0.0201) | (2.2–14.5) | (1.3–8.8) | (-4.7–1.2) |
| | | 0.0358 | 0.0215 | 26.6 | 9.5 | -3.1 |
| | Diet low in seafood omega-3 fatty acids | (0.00878–0.0665) | (0.00533–0.0427) | (6.4–49.6) | (2.4–18.6) | (-4.5–-1.9) |
| | | 0.0284 | 0.0188 | 20.9 | 8.3 | -2.8 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0834–0.109) | (-0.0467–0.0749) | (-60.8–80.5) | (-20.6–32.7) | (-3.5–-2.4) |
| | | 0.0211 | 0.00435 | 15.5 | 1.9 | -6.3 |
| | Diet high in trans fatty acids | (0.000906–0.0429) | (0.000219–0.00856) | (0.7–31.5) | (0.1–3.8) | (-7.7–-5.1) |
| | | 0.106 | 0.0864 | 77.8 | 36.5 | -2.3 |
| | Diet high in sodium | (0.0302–0.185) | (0.0209–0.161) | (21.6–137.4) | (8.7–68.1) | (-4.4–-0.9) |
| | | 0.0140 | 0.0124 | 10.9 | 5.2 | -2.2 |
| | Low physical activity | (0.00365–0.0253) | (0.00348–0.0219) | (2.5–19.9) | (1.5–9.2) | (-2.8–-1.3) |
| | | 0.276 | 0.181 | 208.7 | 76.9 | -3.0 |
| | Environmental/occupational risks | (0.223–0.327) | (0.154–0.205) | (169.4–246.0) | (65.8–87.0) | (-3.5–-2.6) |
| | | 0.178 | 0.0729 | 134.1 | 31.0 | -4.4 |
| | Air pollution | (0.120–0.240) | (0.0524–0.0940) | (90.5–181.0) | (22.3–39.9) | (-5.3–-3.6) |
| | | 0.178 | 0.0729 | 134.1 | 31.0 | -4.4 |
| | Particulate matter pollution | (0.120–0.240) | (0.0524–0.0940) | (90.5–181.0) | (22.3–39.9) | (-5.3–-3.6) |
| | | 0.126 | 0.0685 | 94.9 | 29.2 | -3.6 |
| | Ambient particulate matter pollution | (0.0765–0.187) | (0.0509–0.0869) | (57.6–141.5) | (21.6–37.0) | (-4.8–-2.2) |
| | | 0.0517 | 0.00475 | 39.1 | 2.0 | -9.0 |
| | Household air pollution from solid fuels | (0.0265–0.0901) | (0.000622–0.0177) | (20.0–68.3) | (0.3–7.5) | (-13.8–-6.4) |
| | | 0.0537 | 0.0420 | 40.7 | 17.9 | -2.5 |
| | Non-optimal temperature | (0.0502–0.0601) | (0.0376–0.0478) | (37.9–45.6) | (16.1–20.4) | (-2.7–-2.4) |
| | | 0.000668 | 0.00149 | 0.5 | 0.6 | |
| | High temperature | (-0.0000244–0.00282) | (0.000159–0.00486) | (0.0–2.1) | (0.1–2.1) | -- |
| | | 0.0531 | 0.0406 | 40.2 | 17.3 | -2.6 |
| | Low temperature | (0.0499–0.0590) | (0.0370–0.0447) | (37.7–44.7) | (15.8–19.0) | (-2.7–-2.5) |
| | | 0.0882 | 0.0892 | 67.4 | 37.9 | -1.7 |
| | Other environmental risks | (0.0724–0.104) | (0.0722–0.105) | (55.3–79.9) | (30.7–44.6) | (-1.9–-1.6) |
| | | 0.0882 | 0.0892 | 67.4 | 37.9 | -1.7 |
| | Lead exposure | (0.0724–0.104) | (0.0722–0.105) | (55.3–79.9) | (30.7–44.6) | (-1.9–-1.6) |
| **Eastern Europe** | | | | | | |
| | | 1.30 | 1.18 | 528.9 | 328.6 | -1.4 |
| | All risk factors | (1.22–1.36) | (1.08–1.26) | (493.6–554.6) | (301.0–349.7) | (-1.6–-1.3) |
| | | 1.11 | 1.02 | 452.4 | 282.9 | -1.4 |
| | Metabolic risks | (1.00–1.21) | (0.911–1.12) | (405.7–492.4) | (251.6–310.7) | (-1.7–-1.2) |
| | | 0.104 | 0.116 | 43.6 | 32.0 | -0.9 |
| | High fasting plasma glucose | (0.0723–0.145) | (0.0856–0.159) | (30.1–61.2) | (23.6–43.9) | (-1.9–0.1) |
| | | 0.444 | 0.363 | 177.2 | 101.1 | -1.7 |
| | High LDL cholesterol | (0.261–0.635) | (0.223–0.522) | (102.9–255.9) | (62.0–144.7) | (-2.2–-1.0) |
| | | 0.854 | 0.791 | 344.5 | 218.2 | -1.4 |
| | High systolic blood pressure | (0.707–1.00) | (0.626–0.917) | (284.1–405.2) | (172.6–253.0) | (-1.9–-0.8) |
| | | 0.141 | 0.172 | 53.1 | 47.1 | -0.4 |
| | High body-mass index | (0.0587–0.241) | (0.0780–0.277) | (22.1–90.5) | (21.2–76.0) | (-1.1–0.3) |
| | | 0.185 | 0.179 | 80.2 | 50.4 | -1.4 |
| | Kidney dysfunction | (0.132–0.238) | (0.128–0.237) | (57.3–103.7) | (35.9–66.8) | (-1.6–-1.3) |
| | | 0.673 | 0.620 | 265.4 | 173.2 | -1.3 |
| | Behavioral risks | (0.307–0.866) | (0.297–0.817) | (115.8–347.8) | (83.6–227.8) | (-1.5–-1.0) |
| | | 0.243 | 0.216 | 90.8 | 59.8 | -1.3 |
| | Tobacco | (0.208–0.277) | (0.186–0.245) | (77.2–104.1) | (51.6–67.3) | (-1.6–-0.9) |
| | | 0.176 | 0.173 | 62.6 | 47.6 | -0.8 |
| | Smoking | (0.145–0.212) | (0.146–0.203) | (51.6–75.6) | (40.3–55.8) | (-1.3–-0.3) |
| | | 0.000514 | 0.000381 | 0.2 | 0.1 | -2.1 |
| | Chewing tobacco | (0.000162–0.00119) | (0.000119–0.000883) | (0.1–0.5) | (0.0–0.2) | (-5.1–1.5) |
| | | 0.0741 | 0.0498 | 30.7 | 14.0 | -2.4 |
| | Secondhand smoke | (0.0541–0.0966) | (0.0355–0.0639) | (22.5–39.8) | (10.0–17.9) | (-3.1–-1.7) |
| | | 0.0289 | 0.0401 | 10.8 | 12.4 | 0.4 |
| | High alcohol use | (0.0179–0.0612) | (0.0297–0.0773) | (6.9–22.3) | (9.4–22.8) | (-0.3–1.5) |
| | | 0.486 | 0.436 | 193.9 | 121.1 | -1.4 |
| | Dietary risks | (0.0453–0.717) | (0.0401–0.672) | (16.2–290.4) | (12.1–185.7) | (-1.9–-1.0) |
| | | 0.0928 | 0.0738 | 36.3 | 20.8 | -1.7 |
| | Diet low in fruits | (0.0218–0.162) | (0.0194–0.130) | (8.5–63.8) | (5.5–36.7) | (-3.0–-0.5) |
| | | 0.0350 | 0.0321 | 13.9 | 9.0 | -1.3 |
| | Diet low in vegetables | (0.0170–0.0585) | (0.0165–0.0539) | (6.7–23.5) | (4.7–15.0) | (-2.7–-0.1) |
| | | 0.0807 | 0.0769 | 32.3 | 21.5 | -1.2 |
| | Diet low in legumes | (-0.0656–0.210) | (-0.0644–0.195) | (-26.2–84.9) | (-18.3–54.2) | (-1.7–-0.8) |
| | | 0.0743 | 0.0741 | 29.4 | 20.7 | -1.1 |
| | Diet low in whole grains | (0.0306–0.129) | (0.0340–0.119) | (12.1–51.5) | (9.6–33.3) | (-2.8–0.8) |
| | | 0.128 | 0.115 | 51.1 | 32.1 | -1.4 |
| | Diet low in nuts and seeds | (0.0373–0.206) | (0.0307–0.192) | (14.8–82.1) | (8.7–53.4) | (-1.9–-1.0) |
| | | 0.0226 | 0.0140 | | | |
| | | (0.000000000000000477– | (0.000000000000000171– | 8.6 | 3.8 | -2.4 |
| | Diet high in red meat | 0.0462) | 0.0305) | (0.0–17.8) | (0.0–8.0) | (-7.5–8.2) |
| | | 0.0538 | 0.0310 | 20.8 | 8.8 | -2.6 |
| | Diet high in processed meat | (-0.00574–0.109) | (-0.00154–0.0702) | (-2.0–42.3) | (-0.5–19.6) | (-4.1–-1.4) |
| | | 0.00329 | 0.00437 | 1.3 | 1.3 | 0.0 |
| | Diet high in sugar-sweetened beverages | (0.00103–0.00786) | (0.00177–0.00913) | (0.4–3.0) | (0.5–2.6) | (-2.8–4.0) |
| | | 0.0205 | 0.0200 | 8.6 | 5.7 | -1.2 |
| | Diet low in fiber | (0.00434–0.0520) | (0.00339–0.0522) | (1.9–21.2) | (1.0–14.9) | (-6.0–3.7) |
| | | 0.0483 | 0.0342 | 19.9 | 9.6 | -2.2 |
| | Diet low in seafood omega-3 fatty acids | (0.0115–0.102) | (0.00784–0.0767) | (4.7–42.1) | (2.2–21.6) | (-5.0–0.0) |
| | | 0.0679 | 0.0605 | 27.1 | 16.9 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.196–0.262) | (-0.159–0.238) | (-77.8–105.7) | (-44.6–66.3) | (-2.0–-1.1) |
| | | 0.0382 | 0.0261 | 15.2 | 7.3 | -2.2 |
| | Diet high in trans fatty acids | (0.00160–0.0778) | (0.00130–0.0528) | (0.6–30.9) | (0.4–14.8) | (-3.6–-1.0) |
| | | 0.0645 | 0.0607 | 24.8 | 16.7 | -1.2 |
| | Diet high in sodium | (0.00105–0.216) | (0.00122–0.195) | (0.4–85.2) | (0.4–53.3) | (-6.2–5.2) |
| | | 0.0297 | 0.0268 | 12.6 | 7.4 | -1.6 |
| | Low physical activity | (0.00745–0.0538) | (0.00728–0.0467) | (3.2–23.4) | (2.0–13.0) | (-2.5–-0.5) |
| | | 0.571 | 0.412 | 234.3 | 114.4 | -2.2 |
| | Environmental/occupational risks | (0.440–0.694) | (0.357–0.463) | (181.4–283.0) | (99.2–128.5) | (-2.7–-1.6) |
| | | 0.352 | 0.123 | 144.0 | 33.9 | -4.4 |
| | Air pollution | (0.196–0.497) | (0.0827–0.167) | (81.0–204.4) | (22.8–46.0) | (-5.6–-3.1) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.352 | 0.123 | 144.0 | 33.9 | -4.4 |
| | Particulate matter pollution | (0.196–0.497) | (0.0827–0.167) | (81.0–204.4) | (22.8–46.0) | (-5.6–-3.1) |
| | | 0.324 | 0.118 | 132.6 | 32.7 | -4.2 |
| | Ambient particulate matter pollution | (0.169–0.462) | (0.0805–0.160) | (69.5–189.2) | (22.2–44.2) | (-5.6–-2.7) |
| | | 0.0276 | 0.00435 | 11.4 | 1.2 | -6.8 |
| | Household air pollution from solid fuels | (0.0117–0.0562) | (0.00110–0.0121) | (4.8–23.2) | (0.3–3.3) | (-9.5–-4.5) |
| | | 0.111 | 0.0927 | 45.2 | 25.9 | -1.7 |
| | Non-optimal temperature | (0.103–0.121) | (0.0837–0.104) | (42.0–49.1) | (23.4–29.1) | (-1.9–-1.5) |
| | | 0.000590 | 0.00205 | 0.2 | 0.6 | |
| | High temperature | (-0.000225–0.00298) | (0.000166–0.00746) | (-0.1–1.2) | (0.0–2.1) | -- |
| | | 0.110 | 0.0908 | 44.9 | 25.4 | -1.7 |
| | Low temperature | (0.103–0.118) | (0.0824–0.0991) | (41.8–48.3) | (23.0–27.7) | (-1.9–-1.6) |
| | | 0.197 | 0.244 | 82.1 | 67.7 | -0.6 |
| | Other environmental risks | (0.162–0.232) | (0.208–0.279) | (67.2–96.4) | (57.6–77.6) | (-0.8–-0.4) |
| | | 0.197 | 0.244 | 82.1 | 67.7 | -0.6 |
| | Lead exposure | (0.162–0.232) | (0.208–0.279) | (67.2–96.4) | (57.6–77.6) | (-0.8–-0.4) |
| **High-income** | | | | | | |
| | | 2.59 | 2.17 | 215.5 | 82.0 | -2.9 |
| | All risk factors | (2.37–2.77) | (1.84–2.41) | (196.4–230.6) | (71.5–90.2) | (-3.1–-2.8) |
| | | 2.26 | 1.93 | 187.8 | 72.1 | -2.9 |
| | Metabolic risks | (2.03–2.48) | (1.61–2.18) | (167.8–206.2) | (61.7–80.7) | (-3.1–-2.7) |
| | | 0.344 | 0.337 | 28.5 | 12.2 | -2.6 |
| | High fasting plasma glucose | (0.274–0.434) | (0.267–0.428) | (22.6–35.9) | (9.7–15.4) | (-3.3–-1.8) |
| | | 0.788 | 0.517 | 66.2 | 20.7 | -3.5 |
| | High LDL cholesterol | (0.467–1.12) | (0.311–0.766) | (39.5–93.9) | (13.2–29.9) | (-3.9–-3.1) |
| | | 1.73 | 1.44 | 143.2 | 53.1 | -3.0 |
| | High systolic blood pressure | (1.45–2.01) | (1.13–1.70) | (119.2–166.8) | (42.5–62.5) | (-3.4–-2.6) |
| | | 0.286 | 0.371 | 23.7 | 15.3 | -1.3 |
| | High body-mass index | (0.135–0.450) | (0.216–0.532) | (11.2–37.1) | (9.0–21.7) | (-1.9–-0.7) |
| | | 0.349 | 0.305 | 29.4 | 10.8 | -3.0 |
| | Kidney dysfunction | (0.254–0.452) | (0.216–0.403) | (21.6–38.2) | (7.7–14.1) | (-3.2–-2.9) |
| | | 1.35 | 0.990 | 112.2 | 40.0 | -3.1 |
| | Behavioral risks | (0.865–1.69) | (0.614–1.29) | (72.0–140.2) | (25.6–50.5) | (-3.4–-2.8) |
| | | 0.553 | 0.306 | 46.0 | 13.8 | -3.6 |
| | Tobacco | (0.472–0.643) | (0.257–0.368) | (39.4–53.1) | (11.7–16.5) | (-4.0–-3.4) |
| | | 0.462 | 0.255 | 38.4 | 11.8 | -3.6 |
| | Smoking | (0.387–0.553) | (0.209–0.322) | (32.4–46.2) | (9.8–14.6) | (-4.0–-3.2) |
| | | 0.00315 | 0.00278 | 0.3 | 0.1 | -2.7 |
| | Chewing tobacco | (0.00163–0.00538) | (0.00149–0.00470) | (0.1–0.4) | (0.1–0.2) | (-4.4–-0.9) |
| | | 0.109 | 0.0566 | 9.2 | 2.3 | -4.1 |
| | Secondhand smoke | (0.0805–0.142) | (0.0405–0.0733) | (6.8–12.0) | (1.7–3.0) | (-4.8–-3.5) |
| | | 0.0341 | 0.0259 | 2.6 | 0.9 | |
| | High alcohol use | (0.00937–0.137) | (0.00192–0.0916) | (0.6–11.2) | (-0.3–4.2) | -- |
| | | 0.929 | 0.723 | 77.7 | 28.7 | -3.0 |
| | Dietary risks | (0.395–1.32) | (0.315–1.07) | (33.4–110.1) | (13.2–41.3) | (-3.4–-2.3) |
| | | 0.112 | 0.126 | 9.6 | 5.2 | -1.8 |
| | Diet low in fruits | (0.0401–0.193) | (0.0643–0.187) | (3.4–16.4) | (2.6–7.8) | (-2.9–-0.4) |
| | | 0.0836 | 0.108 | 7.0 | 4.2 | -1.6 |
| | Diet low in vegetables | (0.0483–0.122) | (0.0764–0.147) | (4.1–10.3) | (3.0–5.6) | (-2.1–-0.9) |
| | | 0.117 | 0.0909 | 9.9 | 3.7 | -3.0 |
| | Diet low in legumes | (-0.0912–0.311) | (-0.0735–0.237) | (-7.7–26.2) | (-3.1–9.6) | (-3.7–-2.4) |
| | | 0.193 | 0.139 | 16.2 | 5.7 | -3.1 |
| | Diet low in whole grains | (0.0940–0.298) | (0.0709–0.210) | (8.0–25.0) | (2.9–8.4) | (-3.8–-2.4) |
| | | 0.147 | 0.0844 | 12.4 | 3.3 | -4.0 |
| | Diet low in nuts and seeds | (0.0368–0.254) | (0.0219–0.153) | (3.1–21.4) | (0.9–5.8) | (-4.8–-3.2) |
| | | 0.0534 | 0.0318 | | | |
| | Diet high in red meat | (0.00000000000000000537–0.0800) | (0.0000000000000000309–0.0467) | 4.5 (0.0–6.6) | 1.3 (0.0–1.9) | -- |
| | | 0.0745 | 0.0693 | 6.3 | 3.1 | -2.2 |
| | Diet high in processed meat | (-0.00840–0.161) | (-0.00694–0.151) | (-0.8–13.7) | (-0.4–6.5) | (-3.5–-0.6) |
| | | 0.0211 | 0.0245 | 1.8 | 1.2 | -1.4 |
| | Diet high in sugar-sweetened beverages | (0.00628–0.0486) | (0.00983–0.0478) | (0.5–4.2) | (0.5–2.3) | (-4.1–2.4) |
| | | 0.0878 | 0.0629 | 7.4 | 2.5 | -3.3 |
| | Diet low in fiber | (0.0334–0.172) | (0.0240–0.113) | (2.8–14.5) | (1.0–4.4) | (-5.1–-1.3) |
| | | 0.0965 | 0.0534 | 8.1 | 2.2 | -4.0 |
| | Diet low in seafood omega-3 fatty acids | (0.0231–0.202) | (0.0126–0.116) | (2.0–17.0) | (0.5–4.7) | (-6.3–-1.8) |
| | | 0.0750 | 0.0428 | 6.3 | 1.7 | -4.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.191–0.293) | (-0.0918–0.174) | (-16.1–24.4) | (-3.6–6.8) | (-5.0–-3.0) |
| | | 0.132 | 0.0152 | 11.2 | 0.6 | -8.8 |
| | Diet high in trans fatty acids | (0.00613–0.259) | (0.000776–0.0305) | (0.5–21.8) | (0.0–1.2) | (-9.9–-7.9) |
| | | 0.138 | 0.131 | 11.4 | 5.1 | -2.4 |
| | Diet high in sodium | (0.0118–0.420) | (0.00456–0.395) | (1.0–34.8) | (0.2–15.0) | (-5.7–-0.5) |
| | | 0.0674 | 0.0488 | 5.6 | 1.7 | -3.6 |
| | Low physical activity | (0.0172–0.119) | (0.0108–0.0925) | (1.4–9.9) | (0.4–3.2) | (-4.1–-3.0) |
| | | 0.931 | 0.609 | 77.3 | 22.5 | -3.7 |
| | Environmental/occupational risks | (0.755–1.10) | (0.490–0.711) | (62.5–91.4) | (18.6–26.1) | (-4.2–-3.3) |
| | | 0.432 | 0.155 | 35.8 | 5.8 | -5.5 |
| | Air pollution | (0.248–0.607) | (0.0956–0.221) | (20.6–50.3) | (3.6–8.3) | (-6.7–-4.3) |
| | | 0.432 | 0.155 | 35.8 | 5.8 | -5.5 |
| | Particulate matter pollution | (0.248–0.607) | (0.0956–0.221) | (20.6–50.3) | (3.6–8.3) | (-6.7–-4.3) |
| | | 0.419 | 0.153 | 34.8 | 5.7 | -5.5 |
| | Ambient particulate matter pollution | (0.240–0.595) | (0.0956–0.218) | (20.0–49.3) | (3.6–8.2) | (-6.7–-4.2) |
| | | 0.0123 | 0.00124 | 1.0 | 0.0 | -9.4 |
| | Household air pollution from solid fuels | (0.00562–0.0263) | (0.00000537–0.0101) | (0.5–2.2) | (0.0–0.4) | (-24.4–-4.2) |
| | | 0.227 | 0.185 | 18.9 | 7.0 | -3.0 |
| | Non-optimal temperature | (0.201–0.260) | (0.154–0.217) | (16.7–21.7) | (6.0–8.1) | (-3.2–-2.9) |
| | | 0.00653 | 0.0107 | 0.5 | 0.4 | -0.8 |
| | High temperature | (0.000625–0.0210) | (0.00243–0.0273) | (0.1–1.8) | (0.1–1.1) | (-1.5–2.5) |
| | | 0.221 | 0.175 | 18.4 | 6.6 | -3.1 |
| | Low temperature | (0.197–0.243) | (0.147–0.193) | (16.4–20.3) | (5.7–7.2) | (-3.3–-3.0) |
| | | 0.397 | 0.327 | 33.0 | 11.9 | -3.1 |
| | Other environmental risks | (0.328–0.474) | (0.256–0.398) | (27.2–39.4) | (9.5–14.4) | (-3.4–-2.9) |
| | | 0.397 | 0.327 | 33.0 | 11.9 | -3.1 |
| | Lead exposure | (0.328–0.474) | (0.256–0.398) | (27.2–39.4) | (9.5–14.4) | (-3.4–-2.9) |
| **Australasia** | | | | | | |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0521 | 0.0412 | 231.3 | 61.7 | -4.0 |
| | All risk factors | (0.0473–0.0556) | (0.0352–0.0459) | (208.2–247.9) | (53.7–68.2) | (-4.2–-3.8) |
| | | 0.0457 | 0.0364 | 203.2 | 54.2 | -4.0 |
| | Metabolic risks | (0.0407–0.0499) | (0.0308–0.0416) | (180.2–223.1) | (46.2–61.4) | (-4.2–-3.8) |
| | | 0.00522 | 0.00659 | 23.4 | 9.5 | -2.7 |
| | High fasting plasma glucose | (0.00392–0.00688) | (0.00531–0.00795) | (17.5–31.0) | (7.7–11.4) | (-3.5–-1.9) |
| | | 0.0184 | 0.0117 | 82.2 | 18.2 | -4.6 |
| | High LDL cholesterol | (0.0114–0.0258) | (0.00713–0.0172) | (50.9–115.0) | (11.5–26.2) | (-5.0–-4.2) |
| | | 0.0344 | 0.0260 | 152.4 | 38.5 | -4.2 |
| | High systolic blood pressure | (0.0285–0.0397) | (0.0201–0.0312) | (125.7–176.5) | (30.2–45.9) | (-4.5–-3.9) |
| | | 0.00624 | 0.00647 | 26.8 | 10.3 | -2.9 |
| | High body-mass index | (0.00288–0.0102) | (0.00324–0.0102) | (12.4–43.9) | (5.2–16.1) | (-3.7–-2.1) |
| | | 0.00671 | 0.00571 | 30.8 | 8.0 | -4.1 |
| | Kidney dysfunction | (0.00474–0.00888) | (0.00397–0.00770) | (21.9–40.6) | (5.6–10.6) | (-4.4–-3.9) |
| | | 0.0290 | 0.0183 | 126.6 | 28.9 | -4.5 |
| | Behavioral risks | (0.0153–0.0380) | (0.00835–0.0255) | (65.8–167.0) | (13.9–39.2) | (-5.0–-4.2) |
| | | 0.0114 | 0.00460 | 48.3 | 8.1 | -5.4 |
| | Tobacco | (0.00958–0.0133) | (0.00377–0.00559) | (40.5–56.3) | (6.7–9.9) | (-5.8–-5.0) |
| | | 0.00969 | 0.00378 | 40.7 | 6.8 | -5.4 |
| | Smoking | (0.00800–0.0115) | (0.00296–0.00476) | (33.6–48.3) | (5.4–8.5) | (-5.9–-5.0) |
| | | 0.0000302 | 0.0000305 | 0.1 | 0.0 | -3.4 |
| | Chewing tobacco | (0.00000961–0.0000697) | (0.00000969–0.0000696) | (0.0–0.3) | (0.0–0.1) | (-6.4–0.1) |
| | | 0.00213 | 0.000900 | 9.4 | 1.5 | -5.6 |
| | Secondhand smoke | (0.00156–0.00273) | (0.000649–0.00115) | (6.9–12.0) | (1.1–1.9) | (-6.1–-5.0) |
| | | 0.000565 | 0.000331 | 2.4 | 0.4 | |
| | High alcohol use | (-0.000323–0.00359) | (-0.000286–0.00228) | (-1.4–15.0) | (-0.8–3.7) | -- |
| | | 0.0208 | 0.0140 | 91.9 | 21.8 | -4.4 |
| | Dietary risks | (0.00488–0.0316) | (0.00377–0.0219) | (21.5–139.6) | (6.2–33.2) | (-4.7–-3.9) |
| | | 0.00267 | 0.00205 | 11.8 | 3.3 | -3.8 |
| | Diet low in fruits | (0.000718–0.00482) | (0.000666–0.00357) | (3.2–21.2) | (1.1–5.8) | (-5.1–-2.5) |
| | | 0.00183 | 0.00150 | 8.1 | 2.3 | -3.8 |
| | Diet low in vegetables | (0.000970–0.00277) | (0.000943–0.00227) | (4.3–12.3) | (1.4–3.5) | (-4.4–-3.2) |
| | | 0.00220 | 0.00184 | 9.7 | 2.9 | -3.7 |
| | Diet low in legumes | (-0.00170–0.00616) | (-0.00138–0.00497) | (-7.5–27.1) | (-2.2–7.7) | (-4.8–-2.6) |
| | | 0.00523 | 0.00350 | 23.0 | 5.6 | -4.3 |
| | Diet low in whole grains | (0.00269–0.00767) | (0.00187–0.00533) | (11.9–33.8) | (3.1–8.4) | (-5.0–-3.6) |
| | | 0.00369 | 0.00159 | 16.4 | 2.5 | -5.7 |
| | Diet low in nuts and seeds | (0.000955–0.00629) | (0.000338–0.00330) | (4.2–27.8) | (0.5–5.2) | (-8.2–-4.1) |
| | | 0.00199 (0.000000000000000175–0.00336) | 0.00101 (-0.000000000000000200–0.00161) | 8.7 (0.0–14.8) | 1.6 (0.0–2.3) | -5.1 (-6.5–1.2) |
| | Diet high in red meat | 0.000716 | 0.000728 | 3.1 | 1.3 | -2.7 |
| | Diet high in processed meat | (-0.0000658–0.00166) | (-0.0000342–0.00164) | (-0.3–7.3) | (-0.1–2.9) | (-4.7–-0.4) |
| | | 0.000640 | 0.000392 | 2.8 | 0.7 | -4.3 |
| | Diet high in sugar-sweetened beverages | (0.000191–0.00147) | (0.000131–0.000843) | (0.8–6.5) | (0.2–1.5) | (-7.2–-0.2) |
| | | 0.00227 | 0.00142 | 10.1 | 2.2 | -4.6 |
| | Diet low in fiber | (0.000856–0.00454) | (0.000363–0.00288) | (3.8–20.1) | (0.6–4.6) | (-7.8–-2.0) |
| | | 0.00222 | 0.000885 | 9.9 | 1.4 | -6.0 |
| | Diet low in seafood omega-3 fatty acids | (0.000546–0.00476) | (0.000146–0.00214) | (2.4–21.2) | (0.2–3.3) | (-10.0–-3.2) |
| | | 0.00319 | 0.00204 | 14.0 | 3.2 | -4.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.00937–0.0123) | (-0.00534–0.00817) | (-41.3–54.4) | (-8.6–12.8) | (-4.9–-4.1) |
| | | 0.00368 | 0.00207 | 16.2 | 3.3 | -4.8 |
| | Diet high in trans fatty acids | (0.000168–0.00727) | (0.000108–0.00409) | (0.7–32.0) | (0.2–6.5) | (-5.8–-4.0) |
| | | 0.00122 | 0.00103 | 5.4 | 1.6 | -3.6 |
| | Diet high in sodium | (0.00000129–0.00577) | (0.00000215–0.00499) | (0.0–25.5) | (0.0–7.5) | (-7.1–-4.7) |
| | | 0.00161 | 0.00122 | 7.2 | 1.7 | -4.3 |
| | Low physical activity | (0.000489–0.00279) | (0.000283–0.00254) | (2.1–12.8) | (0.4–3.6) | (-5.5–-3.1) |
| | | 0.0160 | 0.0126 | 70.9 | 18.6 | -4.1 |
| | Environmental/occupational risks | (0.0132–0.0199) | (0.0103–0.0148) | (58.4–88.5) | (15.4–21.7) | (-4.6–-3.6) |
| | | 0.00249 | 0.00177 | 11.1 | 2.7 | -4.3 |
| | Air pollution | (0.0000780–0.00680) | (0.000903–0.00283) | (0.3–30.2) | (1.3–4.2) | (-7.7–-4.9) |
| | | 0.00249 | 0.00177 | 11.1 | 2.7 | -4.3 |
| | Particulate matter pollution | (0.0000780–0.00680) | (0.000903–0.00283) | (0.3–30.2) | (1.3–4.2) | (-7.7–-4.9) |
| | | 0.00239 | 0.00175 | 10.6 | 2.6 | -4.2 |
| | Ambient particulate matter pollution | (0.0000772–0.00669) | (0.000895–0.00279) | (0.3–29.7) | (1.3–4.2) | (-7.7–-5.0) |
| | | 0.000104 | 0.0000242 | 0.5 | 0.0 | -7.8 |
| | Household air pollution from solid fuels | (0.00000120–0.000488) | (0.0000000254–0.000188) | (0.0–2.2) | (0.0–0.3) | (-23.6–-3.1) |
| | | 0.00441 | 0.00330 | 19.6 | 4.9 | -4.2 |
| | Non-optimal temperature | (0.00398–0.00498) | (0.00276–0.00376) | (17.6–22.1) | (4.2–5.6) | (-4.4–-4.0) |
| | | 0.0000876 | 0.0000565 | 0.4 | 0.1 | |
| | High temperature | (0.0000184–0.000267) | (-0.000000810–0.000183) | (0.1–1.2) | (0.0–0.3) | -- |
| | | 0.00433 | 0.00324 | 19.3 | 4.9 | -4.2 |
| | Low temperature | (0.00391–0.00488) | (0.00269–0.00370) | (17.3–21.7) | (4.1–5.5) | (-4.4–-4.0) |
| | | 0.0106 | 0.00858 | 46.8 | 12.6 | -4.0 |
| | Other environmental risks | (0.00888–0.0122) | (0.00678–0.0103) | (39.0–54.3) | (10.0–15.0) | (-4.3–-3.7) |
| | | 0.0106 | 0.00858 | 46.8 | 12.6 | -4.0 |
| | Lead exposure | (0.00888–0.0122) | (0.00678–0.0103) | (39.0–54.3) | (10.0–15.0) | (-4.3–-3.7) |
| **High-income Asia Pacific** | | | | | | |
| | | 0.297 | 0.337 | 167.8 | 53.5 | -3.5 |
| | All risk factors | (0.268–0.319) | (0.267–0.387) | (149.6–181.3) | (44.6–59.9) | (-3.8–-3.3) |
| | | 0.263 | 0.294 | 149.5 | 45.7 | -3.6 |
| | Metabolic risks | (0.233–0.291) | (0.228–0.342) | (130.1–166.1) | (37.0–52.5) | (-3.9–-3.3) |
| | | 0.0408 | 0.0533 | 23.9 | 7.7 | -3.4 |
| | High fasting plasma glucose | (0.0303–0.0558) | (0.0383–0.0738) | (17.9–32.7) | (5.7–10.7) | (-4.5–-2.4) |
| | | 0.0671 | 0.0750 | 38.1 | 12.5 | -3.4 |
| | High LDL cholesterol | (0.0336–0.102) | (0.0382–0.115) | (18.8–58.1) | (6.9–18.4) | (-3.8–-2.9) |
| | | 0.217 | 0.222 | 123.1 | 34.3 | -3.9 |
| | High systolic blood pressure | (0.178–0.250) | (0.164–0.270) | (101.4–141.9) | (25.5–41.1) | (-4.3–-3.5) |
| | | 0.0121 | 0.0207 | 6.5 | 3.8 | -1.6 |
| | High body-mass index | (0.00655–0.0193) | (0.0111–0.0346) | (3.5–10.6) | (2.1–6.2) | (-2.7–-0.6) |
| | | 0.0410 | 0.0537 | 23.8 | 7.9 | -3.4 |
| | Kidney dysfunction | (0.0280–0.0556) | (0.0352–0.0746) | (16.1–32.4) | (5.4–10.7) | (-3.7–-3.1) |
| | | 0.150 | 0.153 | 81.6 | 26.6 | -3.4 |
| | Behavioral risks | (0.104–0.186) | (0.0939–0.205) | (55.0–102.7) | (17.7–33.9) | (-3.8–-3.1) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0656 | 0.0477 | 33.8 | 10.3 | -3.6 |
| | Tobacco | (0.0565–0.0744) | (0.0382–0.0572) | (29.0–38.5) | (8.7–12.2) | (-4.1–-3.2) |
| | | 0.0487 | 0.0362 | 24.0 | 8.4 | -3.2 |
| | Smoking | (0.0415–0.0566) | (0.0289–0.0471) | (20.4–28.2) | (6.9–10.5) | (-3.7–-2.7) |
| | | 0.000467 | 0.000501 | 0.3 | 0.1 | -3.4 |
| | Chewing tobacco | (0.000150–0.00110) | (0.000160–0.00116) | (0.1–0.6) | (0.0–0.2) | (-6.5–0.1) |
| | | 0.0190 | 0.0123 | 10.7 | 2.1 | -5.0 |
| | Secondhand smoke | (0.0136–0.0248) | (0.00843–0.0167) | (7.6–13.9) | (1.5–2.8) | (-5.7–-4.3) |
| | | 0.00471 | 0.00298 | 2.6 | 0.4 | |
| | High alcohol use | (0.000796–0.0122) | (0.000286–0.00732) | (0.6–6.2) | (-0.2–1.6) | -- |
| | | 0.0980 | 0.112 | 54.4 | 18.4 | -3.3 |
| | Dietary risks | (0.0404–0.144) | (0.0478–0.171) | (22.0–80.1) | (8.7–27.1) | (-3.8–-2.7) |
| | | 0.0183 | 0.0247 | 10.1 | 4.3 | -2.6 |
| | Diet low in fruits | (0.00615–0.0296) | (0.0110–0.0399) | (3.6–16.3) | (1.7–6.9) | (-3.0–-2.0) |
| | | 0.00636 | 0.0110 | 3.8 | 1.6 | -2.6 |
| | Diet low in vegetables | (0.00330–0.00987) | (0.00696–0.0166) | (2.1–5.9) | (1.0–2.4) | (-3.9–-1.4) |
| | | 0.00345 | 0.00608 | 2.0 | 1.0 | -2.0 |
| | Diet low in legumes | (-0.00266–0.0100) | (-0.00424–0.0166) | (-1.5–5.8) | (-0.8–2.7) | (-2.9–-1.0) |
| | | 0.0163 | 0.0212 | 9.0 | 3.8 | -2.6 |
| | Diet low in whole grains | (0.00572–0.0284) | (0.00969–0.0351) | (3.2–16.0) | (1.8–5.9) | (-3.3–-1.5) |
| | | 0.0127 | 0.0162 | 7.0 | 2.8 | -2.8 |
| | Diet low in nuts and seeds | (0.00341–0.0211) | (0.00449–0.0285) | (1.9–11.9) | (0.8–4.8) | (-3.3–-2.2) |
| | | -0.00273 | -0.000404 | -1.3 | -0.2 | |
| | Diet high in red meat | (-0.0152–0.00582) | (-0.00864–0.00494) | (-7.6–2.9) | (-2.5–1.3) | -- |
| | | 0.00194 | 0.00507 | 1.1 | 0.9 | -0.5 |
| | Diet high in processed meat | (0.000299–0.00401) | (0.000305–0.0109) | (0.2–2.4) | (0.0–2.1) | (-2.8–7.9) |
| | | 0.00133 | 0.00165 | 0.7 | 0.3 | -2.4 |
| | Diet high in sugar-sweetened beverages | (0.000464–0.00292) | (0.000626–0.00343) | (0.3–1.6) | (0.1–0.7) | (-5.8–1.9) |
| | | 0.0127 | 0.0174 | 7.1 | 3.1 | -2.5 |
| | Diet low in fiber | (0.00371–0.0236) | (0.00669–0.0308) | (2.2–13.2) | (1.1–5.5) | (-3.8–-1.2) |
| | | 0.000859 | 0.000885 | 0.5 | 0.1 | -4.7 |
| | Diet low in seafood omega-3 fatty acids | (0.0000885–0.00275) | (0.0000722–0.00304) | (0.1–1.7) | (0.0–0.4) | (-9.1–-1.1) |
| | | 0.00735 | 0.00686 | 4.1 | 1.2 | -3.7 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0198–0.0287) | (-0.0142–0.0285) | (-10.9–16.1) | (-2.4–4.9) | (-5.2–-2.7) |
| | | 0.00548 | 0.00636 | 3.0 | 1.2 | -2.9 |
| | Diet high in trans fatty acids | (0.000241–0.0114) | (0.000324–0.0129) | (0.1–6.2) | (0.1–2.3) | (-4.2–-1.8) |
| | | 0.0485 | 0.0386 | 26.3 | 6.2 | -4.4 |
| | Diet high in sodium | (0.0113–0.0921) | (0.00352–0.0898) | (5.7–50.7) | (0.6–14.1) | (-7.3–-3.5) |
| | | 0.00685 | 0.00698 | 3.8 | 1.1 | -3.8 |
| | Low physical activity | (0.00136–0.0142) | (0.000368–0.0149) | (0.4–8.4) | (0.2–2.1) | (-5.0–-1.8) |
| | | 0.0896 | 0.104 | 50.7 | 16.2 | -3.5 |
| | Environmental/occupational risks | (0.0659–0.120) | (0.0781–0.124) | (37.2–68.0) | (12.8–19.0) | (-4.2–-2.6) |
| | | 0.0394 | 0.0400 | 22.0 | 6.5 | -3.7 |
| | Air pollution | (0.0120–0.0727) | (0.0273–0.0544) | (6.6–41.0) | (4.4–8.7) | (-5.4–-0.2) |
| | | 0.0394 | 0.0400 | 22.0 | 6.5 | -3.7 |
| | Particulate matter pollution | (0.0120–0.0727) | (0.0273–0.0544) | (6.6–41.0) | (4.4–8.7) | (-5.4–-0.2) |
| | | 0.0381 | 0.0398 | 21.3 | 6.4 | -3.6 |
| | Ambient particulate matter pollution | (0.0103–0.0712) | (0.0272–0.0541) | (5.7–40.0) | (4.4–8.6) | (-5.4–0.1) |
| | | 0.00126 | 0.000205 | 0.7 | 0.0 | -9.3 |
| | Household air pollution from solid fuels | (0.000377–0.00338) | (0.000000161–0.00182) | (0.2–1.8) | (0.0–0.3) | (-30.8–-3.6) |
| | | 0.0294 | 0.0319 | 16.7 | 5.0 | -3.7 |
| | Non-optimal temperature | (0.0260–0.0339) | (0.0253–0.0389) | (14.7–19.3) | (4.1–6.0) | (-4.0–-3.4) |
| | | 0.00109 | 0.00203 | 0.6 | 0.3 | -1.9 |
| | High temperature | (0.0000946–0.00312) | (0.000296–0.00535) | (0.1–1.8) | (0.1–0.9) | (-2.9–0.8) |
| | | 0.0284 | 0.0301 | 16.1 | 4.7 | -3.7 |
| | Low temperature | (0.0254–0.0313) | (0.0236–0.0344) | (14.2–17.8) | (3.9–5.3) | (-4.0–-3.6) |
| | | 0.0303 | 0.0432 | 17.4 | 6.5 | -3.0 |
| | Other environmental risks | (0.0223–0.0397) | (0.0309–0.0564) | (12.9–22.8) | (4.8–8.4) | (-3.3–-2.7) |
| | | 0.0303 | 0.0432 | 17.4 | 6.5 | -3.0 |
| | Lead exposure | (0.0223–0.0397) | (0.0309–0.0564) | (12.9–22.8) | (4.8–8.4) | (-3.3–-2.7) |
| **High-income North America** | | | | | | |
| | | 0.780 | 0.740 | 217.5 | 104.8 | -2.2 |
| | All risk factors | (0.707–0.835) | (0.647–0.820) | (196.9–233.0) | (92.4–115.2) | (-2.4–-2.1) |
| | | 0.662 | 0.651 | 184.4 | 91.7 | -2.1 |
| | Metabolic risks | (0.587–0.735) | (0.564–0.732) | (163.6–204.7) | (79.8–102.5) | (-2.3–-1.9) |
| | | 0.105 | 0.127 | 28.8 | 17.3 | -1.5 |
| | High fasting plasma glucose | (0.0848–0.131) | (0.102–0.157) | (23.2–35.9) | (14.0–21.4) | (-2.1–-0.9) |
| | | 0.234 | 0.179 | 66.9 | 26.4 | -2.8 |
| | High LDL cholesterol | (0.149–0.331) | (0.113–0.262) | (43.2–93.9) | (17.1–38.0) | (-3.3–-2.4) |
| | | 0.467 | 0.454 | 129.0 | 63.4 | -2.2 |
| | High systolic blood pressure | (0.372–0.559) | (0.367–0.533) | (102.6–154.7) | (51.3–74.0) | (-2.6–-1.7) |
| | | 0.102 | 0.163 | 28.9 | 24.5 | -0.5 |
| | High body-mass index | (0.0503–0.156) | (0.0955–0.230) | (14.4–44.2) | (14.3–34.1) | (-0.9–0.1) |
| | | 0.126 | 0.114 | 34.9 | 15.3 | -2.5 |
| | Kidney dysfunction | (0.0899–0.167) | (0.0814–0.150) | (24.9–45.9) | (11.0–20.2) | (-2.7–-2.3) |
| | | 0.431 | 0.362 | 121.5 | 53.3 | -2.5 |
| | Behavioral risks | (0.304–0.542) | (0.254–0.459) | (86.3–151.8) | (38.0–66.5) | (-2.9–-2.1) |
| | | 0.172 | 0.123 | 49.3 | 18.8 | -2.9 |
| | Tobacco | (0.147–0.201) | (0.102–0.148) | (42.3–57.1) | (15.6–22.6) | (-3.3–-2.6) |
| | | 0.148 | 0.108 | 42.4 | 16.5 | -2.9 |
| | Smoking | (0.123–0.177) | (0.0878–0.135) | (35.6–50.6) | (13.4–20.4) | (-3.3–-2.4) |
| | | 0.00226 | 0.00190 | 0.6 | 0.3 | -2.5 |
| | Chewing tobacco | (0.00127–0.00364) | (0.000975–0.00311) | (0.3–1.0) | (0.1–0.4) | (-3.9–-1.2) |
| | | 0.0293 | 0.0165 | 8.4 | 2.5 | -3.7 |
| | Secondhand smoke | (0.0218–0.0373) | (0.0120–0.0210) | (6.3–10.7) | (1.8–3.2) | (-4.3–-3.0) |
| | | 0.00770 | 0.0104 | 2.0 | 1.5 | |
| | High alcohol use | (0.000564–0.0380) | (0.00263–0.0359) | (-0.1–10.8) | (0.2–5.7) | -- |
| | | 0.312 | 0.262 | 88.3 | 38.5 | -2.5 |
| | Dietary risks | (0.168–0.451) | (0.133–0.368) | (48.3–126.9) | (20.4–53.0) | (-3.0–-1.9) |
| | | 0.0375 | 0.0485 | 10.9 | 7.5 | -1.1 |
| | Diet low in fruits | (0.0129–0.0655) | (0.0260–0.0704) | (3.8–18.9) | (4.0–10.8) | (-2.2–0.8) |
| | | 0.0243 | 0.0419 | 6.9 | 6.2 | -0.3 |
| | Diet low in vegetables | (0.0132–0.0362) | (0.0288–0.0568) | (3.8–10.3) | (4.3–8.4) | (-1.2–0.7) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0382 | 0.0363 | 10.9 | 5.3 | -2.2 |
| | Diet low in legumes | (-0.0291–0.101) | (-0.0318–0.0943) | (-8.3–28.7) | (-4.8–13.7) | (-2.9–-1.5) |
| | | 0.0695 | 0.0522 | 19.8 | 7.8 | -2.8 |
| | Diet low in whole grains | (0.0367–0.105) | (0.0276–0.0789) | (10.5–29.7) | (4.1–11.7) | (-3.6–-2.1) |
| | | 0.0333 | 0.0147 | 9.4 | 2.1 | -4.6 |
| | Diet low in nuts and seeds | (0.00781–0.0620) | (0.00365–0.0267) | (2.2–17.6) | (0.5–3.9) | (-6.1–-2.7) |
| | | 0.0232 | 0.0159 | | | |
| | | (0.00000000000000000554 | (0.00000000000000000114– | 6.7 | 2.4 | -3.1 |
| | Diet high in red meat | –0.0400) | 0.0259) | (0.0–11.4) | (0.0–3.7) | (-4.9–0.9) |
| | | 0.0355 | 0.0376 | 10.3 | 5.8 | -1.8 |
| | Diet high in processed meat | (-0.00651–0.0752) | (-0.00526–0.0806) | (-2.0–21.9) | (-0.9–12.2) | (-2.7–-0.8) |
| | | 0.00855 | 0.0135 | 2.5 | 2.2 | -0.4 |
| | Diet high in sugar-sweetened beverages | (0.00251–0.0202) | (0.00542–0.0262) | (0.7–5.9) | (0.9–4.2) | (-3.0–3.2) |
| | | 0.0323 | 0.0187 | 9.1 | 2.7 | -3.7 |
| | Diet low in fiber | (0.0147–0.0558) | (0.00757–0.0312) | (4.2–15.8) | (1.1–4.5) | (-4.7–-2.4) |
| | | 0.0408 | 0.0263 | 11.6 | 4.0 | -3.3 |
| | Diet low in seafood omega-3 fatty acids | (0.00951–0.0848) | (0.00634–0.0549) | (2.7–24.0) | (1.0–8.2) | (-5.6–-1.5) |
| | | 0.0128 | 0.00397 | 3.6 | 0.6 | -5.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0275–0.0520) | (-0.0109–0.0155) | (-7.9–14.7) | (-1.6–2.2) | (-6.6–-4.1) |
| | | 0.0671 | 0.00000507 | 19.2 | 0.0 | -30.7 |
| | Diet high in trans fatty acids | (0.00331–0.132) | (0.000000261–0.00000976) | (1.0–37.3) | (0.0–0.0) | (-31.6–-29.8) |
| | | 0.0251 | 0.0402 | 7.0 | 5.8 | -0.5 |
| | Diet high in sodium | (0.00000959–0.0993) | (0.000511–0.130) | (0.0–27.5) | (0.1–18.6) | (-1.6–13.3) |
| | | 0.0158 | 0.0143 | 4.3 | 1.9 | -2.5 |
| | Low physical activity | (0.00422–0.0294) | (0.00363–0.0270) | (1.2–8.2) | (0.5–3.6) | (-4.2–-0.9) |
| | | 0.269 | 0.178 | 74.8 | 24.8 | -3.3 |
| | Environmental/occupational risks | (0.203–0.326) | (0.147–0.207) | (56.5–90.8) | (20.6–28.8) | (-3.9–-2.8) |
| | | 0.112 | 0.0317 | 31.0 | 4.4 | -5.9 |
| | Air pollution | (0.0440–0.184) | (0.0159–0.0504) | (12.2–51.2) | (2.2–7.1) | (-8.3–-3.6) |
| | | 0.112 | 0.0317 | 31.0 | 4.4 | -5.9 |
| | Particulate matter pollution | (0.0440–0.184) | (0.0159–0.0504) | (12.2–51.2) | (2.2–7.1) | (-8.3–-3.6) |
| | | 0.111 | 0.0315 | 31.0 | 4.4 | -5.9 |
| | Ambient particulate matter pollution | (0.0439–0.184) | (0.0159–0.0500) | (12.2–51.2) | (2.2–7.0) | (-8.3–-3.6) |
| | | 0.000215 | 0.000180 | 0.1 | 0.0 | -2.6 |
| | Household air pollution from solid fuels | (0.00000686–0.00179) | (0.000000207–0.00136) | (0.0–0.5) | (0.0–0.2) | (-15.0–-1.4) |
| | | 0.0669 | 0.0646 | 18.7 | 9.2 | -2.2 |
| | Non-optimal temperature | (0.0577–0.0836) | (0.0544–0.0793) | (16.1–23.3) | (7.8–11.2) | (-2.4–-2.0) |
| | | 0.00405 | 0.00632 | 1.1 | 0.9 | -0.7 |
| | High temperature | (0.000376–0.0133) | (0.00169–0.0154) | (0.1–3.7) | (0.2–2.2) | (-1.7–3.2) |
| | | 0.0631 | 0.0587 | 17.6 | 8.3 | -2.3 |
| | Low temperature | (0.0554–0.0720) | (0.0507–0.0653) | (15.5–20.1) | (7.3–9.2) | (-2.5–-2.1) |
| | | 0.124 | 0.0951 | 34.5 | 13.0 | -3.0 |
| | Other environmental risks | (0.104–0.147) | (0.0757–0.115) | (28.7–40.8) | (10.4–15.7) | (-3.3–-2.7) |
| | | 0.124 | 0.0951 | 34.5 | 13.0 | -3.0 |
| | Lead exposure | (0.104–0.147) | (0.0757–0.115) | (28.7–40.8) | (10.4–15.7) | (-3.3–-2.7) |
| **Southern Latin America** | | | | | | |
| | | 0.104 | 0.103 | 249.0 | 101.6 | -2.7 |
| | All risk factors | (0.0957–0.110) | (0.0915–0.111) | (228.6–264.9) | (91.2–109.5) | (-2.9–-2.5) |
| | | 0.0852 | 0.0907 | 206.1 | 89.6 | -2.5 |
| | Metabolic risks | (0.0728–0.0968) | (0.0793–0.102) | (175.8–234.7) | (78.1–100.2) | (-2.9–-2.1) |
| | | 0.0108 | 0.0113 | 26.8 | 11.0 | -2.7 |
| | High fasting plasma glucose | (0.00854–0.0138) | (0.00924–0.0146) | (21.1–34.4) | (9.0–14.2) | (-3.4–-1.9) |
| | | 0.0260 | 0.0225 | 61.9 | 22.9 | -3.0 |
| | High LDL cholesterol | (0.0154–0.0374) | (0.0138–0.0325) | (35.8–89.8) | (14.4–32.7) | (-3.6–-2.4) |
| | | 0.0636 | 0.0729 | 154.9 | 71.5 | -2.3 |
| | High systolic blood pressure | (0.0461–0.0793) | (0.0595–0.0859) | (113.7–193.1) | (58.2–84.3) | (-3.0–-1.5) |
| | | 0.0147 | 0.0225 | 33.8 | 22.6 | -1.2 |
| | High body-mass index | (0.00721–0.0233) | (0.0126–0.0329) | (16.7–54.1) | (13.1–33.0) | (-2.1–-0.3) |
| | | 0.0101 | 0.00990 | 25.0 | 9.7 | -2.9 |
| | Kidney dysfunction | (0.00678–0.0142) | (0.00646–0.0140) | (16.7–34.9) | (6.3–13.6) | (-3.1–-2.7) |
| | | 0.0563 | 0.0490 | 131.7 | 49.6 | -3.0 |
| | Behavioral risks | (0.0315–0.0701) | (0.0301–0.0646) | (72.4–165.4) | (30.9–64.4) | (-3.3–-2.4) |
| | | 0.0213 | 0.0139 | 47.5 | 14.9 | -3.5 |
| | Tobacco | (0.0169–0.0257) | (0.0116–0.0168) | (37.7–56.9) | (12.5–17.9) | (-4.3–-2.8) |
| | | 0.0155 | 0.00983 | 33.4 | 10.8 | -3.4 |
| | Smoking | (0.0115–0.0201) | (0.00748–0.0124) | (24.8–43.1) | (8.3–13.5) | (-4.4–-2.5) |
| | | 0.0000373 | 0.0000294 | 0.1 | 0.0 | -3.4 |
| | Chewing tobacco | (0.0000116–0.0000874) | (0.00000935–0.0000679) | (0.0–0.2) | (0.0–0.1) | (-6.5–0.1) |
| | | 0.00690 | 0.00458 | 16.4 | 4.7 | -3.8 |
| | Secondhand smoke | (0.00502–0.00886) | (0.00335–0.00590) | (11.9–21.1) | (3.4–6.0) | (-4.4–-3.3) |
| | | 0.00172 | 0.000930 | 4.0 | 0.8 | |
| | High alcohol use | (-0.000232–0.00633) | (-0.000447–0.00457) | (-0.3–14.1) | (-0.7–4.6) | -- |
| | | 0.0406 | 0.0386 | 96.3 | 38.6 | -2.8 |
| | Dietary risks | (0.0128–0.0565) | (0.0184–0.0544) | (29.6–135.1) | (18.7–53.8) | (-3.2–-1.7) |
| | | 0.00493 | 0.00647 | 11.4 | 6.5 | -1.7 |
| | Diet low in fruits | (0.00220–0.00815) | (0.00324–0.00982) | (5.3–18.9) | (3.2–9.9) | (-3.1–-0.3) |
| | | 0.00603 | 0.00664 | 14.4 | 6.5 | -2.4 |
| | Diet low in vegetables | (0.00389–0.00843) | (0.00488–0.00884) | (9.3–20.1) | (4.7–8.7) | (-3.1–-1.7) |
| | | 0.00561 | 0.00455 | 13.2 | 4.6 | -3.2 |
| | Diet low in legumes | (-0.00451–0.0146) | (-0.00358–0.0118) | (-10.6–34.6) | (-3.7–12.0) | (-3.9–-2.6) |
| | | 0.00692 | 0.00538 | 16.2 | 5.5 | -3.3 |
| | Diet low in whole grains | (0.00325–0.0107) | (0.00250–0.00865) | (7.6–25.1) | (2.6–8.8) | (-4.5–-2.1) |
| | | 0.0102 | 0.00823 | 24.0 | 8.4 | -3.2 |
| | Diet low in nuts and seeds | (0.00316–0.0162) | (0.00239–0.0133) | (7.4–38.4) | (2.5–13.7) | (-3.6–-2.9) |
| | | 0.000907 | 0.00140 | 2.4 | 1.3 | |
| | Diet high in red meat | (-0.00422–0.00369) | (-0.000761–0.00266) | (-7.7–8.0) | (-1.3–2.9) | -- |
| | | 0.000831 | 0.00125 | 1.9 | 1.3 | -1.1 |
| | Diet high in processed meat | (-0.0000498–0.00189) | (-0.0000514–0.00292) | (-0.1–4.3) | (-0.1–3.1) | (-3.2–0.9) |
| | | 0.00110 | 0.00131 | 2.5 | 1.4 | -1.7 |
| | Diet high in sugar-sweetened beverages | (0.000331–0.00246) | (0.000577–0.00242) | (0.7–5.5) | (0.6–2.6) | (-4.1–1.8) |
| | | 0.00406 | 0.00266 | 9.7 | 2.7 | -3.9 |
| | Diet low in fiber | (0.00127–0.00808) | (0.000666–0.00579) | (3.1–19.2) | (0.7–5.9) | (-7.3–-1.2) |
| | | 0.00641 | 0.00452 | 15.2 | 4.6 | -3.6 |
| | Diet low in seafood omega-3 fatty acids | (0.00153–0.0118) | (0.00109–0.00867) | (3.6–28.1) | (1.1–8.8) | (-5.1–-2.5) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00435 | 0.00295 | 10.2 | 3.0 | -3.7 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0123–0.0164) | (-0.00573–0.0119) | (-28.8–39.0) | (-5.9–12.2) | (-5.0–-2.9) |
| | | 0.00271 | 0.00169 | 6.4 | 1.7 | -3.9 |
| | Diet high in trans fatty acids | (0.000115–0.00552) | (0.0000821–0.00344) | (0.3–13.0) | (0.1–3.5) | (-5.4–-2.7) |
| | | 0.00785 | 0.00766 | 18.4 | 7.7 | -2.7 |
| | Diet high in sodium | (0.0000304–0.0235) | (0.0000535–0.0235) | (0.1–55.3) | (0.1–23.3) | (-9.6–6.2) |
| | | 0.00110 | 0.00102 | 2.7 | 1.0 | -3.1 |
| | Low physical activity | (0.000238–0.00207) | (0.000189–0.00212) | (0.4–5.4) | (0.2–2.0) | (-4.8–-1.2) |
| | | 0.0470 | 0.0398 | 113.2 | 39.3 | -3.2 |
| | Environmental/occupational risks | (0.0391–0.0559) | (0.0332–0.0461) | (94.4–134.6) | (33.0–45.6) | (-3.7–-2.8) |
| | | 0.0227 | 0.0145 | 54.4 | 14.5 | -4.0 |
| | Air pollution | (0.0142–0.0333) | (0.0107–0.0184) | (33.9–79.5) | (10.6–18.4) | (-5.0–-2.7) |
| | | 0.0227 | 0.0145 | 54.4 | 14.5 | -4.0 |
| | Particulate matter pollution | (0.0142–0.0333) | (0.0107–0.0184) | (33.9–79.5) | (10.6–18.4) | (-5.0–-2.7) |
| | | 0.0159 | 0.0144 | 37.9 | 14.4 | -2.9 |
| | Ambient particulate matter pollution | (0.00846–0.0252) | (0.0106–0.0180) | (20.2–60.3) | (10.6–17.9) | (-4.4–-1.0) |
| | | 0.00683 | 0.000149 | 16.5 | 0.1 | -14.3 |
| | Household air pollution from solid fuels | (0.00406–0.0108) | (0–0.000784) | (9.9–26.1) | (0.0–0.8) | (-36.8–-10.2) |
| | | 0.00998 | 0.00891 | 23.9 | 8.8 | -3.0 |
| | Non-optimal temperature | (0.00932–0.0108) | (0.00792–0.00989) | (22.1–25.9) | (7.9–9.8) | (-3.2–-2.9) |
| | | 0.000222 | 0.000515 | 0.5 | 0.5 | -0.1 |
| | High temperature | (0.0000337–0.000574) | (0.000118–0.00108) | (0.1–1.4) | (0.1–1.1) | (-1.0–2.0) |
| | | 0.00978 | 0.00843 | 23.4 | 8.3 | -3.1 |
| | Low temperature | (0.00919–0.0106) | (0.00756–0.00921) | (21.8–25.4) | (7.5–9.1) | (-3.3–-3.0) |
| | | 0.0221 | 0.0218 | 53.7 | 21.4 | -2.8 |
| | Other environmental risks | (0.0177–0.0269) | (0.0171–0.0274) | (42.5–65.5) | (16.9–26.7) | (-3.0–-2.6) |
| | | 0.0221 | 0.0218 | 53.7 | 21.4 | -2.8 |
| | Lead exposure | (0.0177–0.0269) | (0.0171–0.0274) | (42.5–65.5) | (16.9–26.7) | (-3.0–-2.6) |
| **Western Europe** | | | | | | |
| | | 1.36 | 0.954 | 226.0 | 80.1 | -3.1 |
| | All risk factors | (1.25–1.45) | (0.801–1.05) | (206.8–241.0) | (68.9–87.7) | (-3.3–-3.0) |
| | | 1.21 | 0.857 | 199.8 | 71.3 | -3.1 |
| | Metabolic risks | (1.08–1.31) | (0.714–0.963) | (178.9–217.0) | (60.6–79.6) | (-3.4–-2.9) |
| | | 0.182 | 0.139 | 29.9 | 11.2 | -3.0 |
| | High fasting plasma glucose | (0.145–0.231) | (0.111–0.175) | (23.8–37.9) | (9.1–14.0) | (-3.7–-2.2) |
| | | 0.442 | 0.228 | 74.8 | 20.4 | -3.9 |
| | High LDL cholesterol | (0.260–0.635) | (0.135–0.337) | (44.6–106.6) | (12.8–29.5) | (-4.4–-3.6) |
| | | 0.952 | 0.665 | 156.7 | 54.9 | -3.2 |
| | High systolic blood pressure | (0.805–1.09) | (0.524–0.787) | (132.5–179.9) | (43.7–64.2) | (-3.6–-2.9) |
| | | 0.152 | 0.158 | 25.4 | 13.9 | -1.8 |
| | High body-mass index | (0.0725–0.244) | (0.0868–0.229) | (12.1–40.9) | (7.9–20.2) | (-2.6–-1.0) |
| | | 0.165 | 0.122 | 27.6 | 9.7 | -3.2 |
| | Kidney dysfunction | (0.119–0.212) | (0.0869–0.162) | (20.0–35.4) | (7.0–12.7) | (-3.4–-3.0) |
| | | 0.682 | 0.408 | 114.6 | 36.6 | -3.5 |
| | Behavioral risks | (0.391–0.866) | (0.227–0.559) | (66.3–144.8) | (21.2–48.8) | (-3.8–-3.1) |
| | | 0.282 | 0.117 | 48.2 | 12.2 | -4.2 |
| | Tobacco | (0.239–0.333) | (0.0956–0.144) | (41.2–56.5) | (10.2–14.4) | (-4.5–-3.8) |
| | | 0.241 | 0.0976 | 41.2 | 10.4 | -4.2 |
| | Smoking | (0.198–0.292) | (0.0780–0.125) | (34.1–49.9) | (8.6–12.9) | (-4.6–-3.7) |
| | | 0.000354 | 0.000325 | 0.1 | 0.0 | -2.3 |
| | Chewing tobacco | (0.000109–0.000840) | (0.000106–0.000758) | (0.0–0.1) | (0.0–0.1) | (-5.4–1.2) |
| | | 0.0520 | 0.0223 | 8.9 | 2.1 | -4.4 |
| | Secondhand smoke | (0.0384–0.0673) | (0.0161–0.0290) | (6.6–11.5) | (1.5–2.7) | (-5.1–-3.8) |
| | | 0.0194 | 0.0112 | 2.8 | 0.6 | |
| | High alcohol use | (0.00400–0.0793) | (-0.00159–0.0432) | (0.2–13.1) | (-0.8–4.3) | -- |
| | | 0.458 | 0.297 | 77.2 | 26.1 | -3.3 |
| | Dietary risks | (0.130–0.662) | (0.0948–0.462) | (22.5–110.9) | (8.5–39.6) | (-3.8–-2.7) |
| | | 0.0489 | 0.0442 | 8.5 | 3.9 | -2.3 |
| | Diet low in fruits | (0.0177–0.0851) | (0.0219–0.0681) | (3.1–14.7) | (1.8–6.1) | (-3.7–-0.5) |
| | | 0.0451 | 0.0473 | 7.6 | 3.9 | -2.0 |
| | Diet low in vegetables | (0.0263–0.0664) | (0.0325–0.0648) | (4.5–11.2) | (2.6–5.3) | (-2.8–-1.3) |
| | | 0.0677 | 0.0421 | 11.5 | 3.8 | -3.3 |
| | Diet low in legumes | (-0.0536–0.181) | (-0.0328–0.112) | (-9.2–30.6) | (-3.0–10.0) | (-4.1–-2.7) |
| | | 0.0952 | 0.0572 | 16.3 | 5.3 | -3.4 |
| | Diet low in whole grains | (0.0442–0.147) | (0.0270–0.0911) | (7.7–25.0) | (2.5–8.2) | (-4.5–-2.4) |
| | | 0.0876 | 0.0437 | 14.9 | 3.9 | -4.0 |
| | Diet low in nuts and seeds | (0.0227–0.150) | (0.0104–0.0818) | (3.9–25.4) | (0.9–7.4) | (-5.4–-3.0) |
| | | 0.0300 | 0.0139 | | | |
| | | (0.000000000000000138–0 | (0.00000000000000153–0 | 5.1 | 1.3 | -4.1 |
| | Diet high in red meat | .0483) | .0220) | (0.0–8.0) | (0.0–1.9) | (-5.7–0.4) |
| | | 0.0355 | 0.0247 | 6.2 | 2.5 | -2.8 |
| | Diet high in processed meat | (-0.00211–0.0791) | (-0.00176–0.0540) | (-0.5–13.8) | (-0.3–5.3) | (-4.4–-0.7) |
| | | 0.00950 | 0.00765 | 1.7 | 0.8 | -2.3 |
| | Diet high in sugar-sweetened beverages | (0.00294–0.0218) | (0.00312–0.0152) | (0.5–3.9) | (0.3–1.6) | (-5.2–1.8) |
| | | 0.0365 | 0.0227 | 6.2 | 2.0 | -3.4 |
| | Diet low in fiber | (0.0108–0.0813) | (0.00589–0.0492) | (1.9–13.9) | (0.5–4.5) | (-6.9–-0.3) |
| | | 0.0462 | 0.0207 | 7.9 | 1.8 | -4.5 |
| | Diet low in seafood omega-3 fatty acids | (0.0114–0.0987) | (0.00453–0.0476) | (2.0–16.7) | (0.4–4.1) | (-7.1–-1.9) |
| | | 0.0473 | 0.0270 | 8.1 | 2.5 | -3.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.124–0.183) | (-0.0559–0.112) | (-21.5–31.1) | (-5.1–10.2) | (-4.9–-2.6) |
| | | 0.0528 | 0.00503 | 9.1 | 0.5 | -8.9 |
| | Diet high in trans fatty acids | (0.00230–0.105) | (0.000262–0.0102) | (0.4–17.9) | (0.0–1.0) | (-10.1–-7.9) |
| | | 0.0554 | 0.0439 | 9.2 | 3.8 | -2.7 |
| | Diet high in sodium | (0.000197–0.203) | (0.000148–0.161) | (0.0–33.8) | (0.0–13.6) | (-9.5–4.8) |
| | | 0.0420 | 0.0253 | 6.9 | 2.0 | -3.7 |
| | Low physical activity | (0.0108–0.0746) | (0.00611–0.0476) | (1.8–12.3) | (0.5–3.7) | (-4.3–-3.1) |
| | | 0.509 | 0.275 | 84.5 | 22.8 | -4.0 |
| | Environmental/occupational risks | (0.389–0.626) | (0.220–0.325) | (64.6–104.0) | (18.8–26.7) | (-4.5–-3.3) |
| | | 0.256 | 0.0666 | 42.4 | 5.6 | -6.1 |
| | Air pollution | (0.134–0.391) | (0.0404–0.0961) | (22.2–64.8) | (3.4–8.1) | (-7.6–-4.4) |
| | | 0.256 | 0.0666 | 42.4 | 5.6 | -6.1 |
| | Particulate matter pollution | (0.134–0.391) | (0.0404–0.0961) | (22.2–64.8) | (3.4–8.1) | (-7.6–-4.4) |
| | | 0.252 | 0.0659 | 41.7 | 5.6 | -6.1 |
| | Ambient particulate matter pollution | (0.131–0.387) | (0.0404–0.0941) | (21.7–64.1) | (3.4–8.0) | (-7.6–-4.3) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00387 | 0.000681 | 0.6 | 0.1 | -7.3 |
| | Household air pollution from solid fuels | (0.000802–0.0121) | (0.00000460–0.00618) | (0.1–2.0) | (0.0–0.5) | (-19.8–-3.0) |
| | | 0.116 | 0.0761 | 19.3 | 6.3 | -3.4 |
| | Non-optimal temperature | (0.105–0.129) | (0.0631–0.0863) | (17.3–21.5) | (5.4–7.1) | (-3.5–-3.2) |
| | | 0.00108 | 0.00180 | 0.2 | 0.2 | -0.5 |
| | High temperature | (0.0000245–0.00418) | (0.000278–0.00570) | (0.0–0.7) | (0.0–0.5) | (-1.2–4.7) |
| | | 0.115 | 0.0744 | 19.1 | 6.2 | -3.4 |
| | Low temperature | (0.104–0.126) | (0.0621–0.0832) | (17.2–21.0) | (5.3–6.9) | (-3.6–-3.3) |
| | | 0.210 | 0.158 | 34.8 | 13.0 | -3.0 |
| | Other environmental risks | (0.172–0.250) | (0.124–0.194) | (28.5–41.4) | (10.3–15.7) | (-3.2–-2.8) |
| | | 0.210 | 0.158 | 34.8 | 13.0 | -3.0 |
| | Lead exposure | (0.172–0.250) | (0.124–0.194) | (28.5–41.4) | (10.3–15.7) | (-3.2–-2.8) |
| **Latin America and Caribbean** | | | | | | |
| | | 0.446 | 0.793 | 225.1 | 124.5 | -1.8 |
| | All risk factors | (0.416–0.471) | (0.722–0.844) | (209.3–238.0) | (112.8–132.6) | (-2.0–-1.6) |
| | | 0.377 | 0.709 | 191.8 | 111.2 | -1.7 |
| | Metabolic risks | (0.331–0.421) | (0.633–0.777) | (168.0–213.8) | (99.0–122.0) | (-1.9–-1.3) |
| | | 0.0502 | 0.106 | 26.3 | 16.8 | -1.4 |
| | High fasting plasma glucose | (0.0351–0.0722) | (0.0843–0.142) | (18.8–37.7) | (13.3–22.3) | (-2.4–-0.3) |
| | | 0.116 | 0.203 | 56.4 | 31.4 | -1.8 |
| | High LDL cholesterol | (0.0704–0.164) | (0.130–0.287) | (33.1–80.5) | (20.0–44.8) | (-2.3–-1.2) |
| | | 0.280 | 0.528 | 143.5 | 83.1 | -1.7 |
| | High systolic blood pressure | (0.208–0.341) | (0.428–0.619) | (108.0–174.4) | (67.4–97.3) | (-2.3–-0.9) |
| | | 0.0500 | 0.140 | 23.5 | 21.6 | -0.3 |
| | High body-mass index | (0.0264–0.0749) | (0.0772–0.201) | (12.7–34.6) | (12.0–31.1) | (-0.8–0.2) |
| | | 0.0715 | 0.147 | 37.3 | 23.1 | -1.5 |
| | Kidney dysfunction | (0.0539–0.0885) | (0.112–0.181) | (27.8–46.6) | (17.5–28.6) | (-1.6–-1.3) |
| | | 0.247 | 0.382 | 120.3 | 59.4 | -2.1 |
| | Behavioral risks | (0.178–0.300) | (0.249–0.497) | (84.5–147.4) | (38.4–77.6) | (-2.5–-1.8) |
| | | 0.106 | 0.111 | 49.2 | 17.0 | -3.2 |
| | Tobacco | (0.0891–0.124) | (0.0914–0.132) | (41.1–57.9) | (13.9–20.2) | (-3.7–-2.8) |
| | | 0.0824 | 0.0806 | 37.0 | 12.2 | -3.4 |
| | Smoking | (0.0665–0.100) | (0.0641–0.101) | (29.5–45.6) | (9.7–15.3) | (-4.0–-2.7) |
| | | 0.000499 | 0.000758 | 0.3 | 0.1 | -2.3 |
| | Chewing tobacco | (0.000161–0.00115) | (0.000242–0.00168) | (0.1–0.6) | (0.0–0.3) | (-5.4–1.2) |
| | | 0.0290 | 0.0334 | 14.5 | 5.2 | -3.1 |
| | Secondhand smoke | (0.0214–0.0368) | (0.0247–0.0426) | (10.7–18.4) | (3.8–6.6) | (-3.6–-2.6) |
| | | 0.00347 | 0.00464 | 1.7 | 0.7 | |
| | High alcohol use | (-0.000809–0.0127) | (-0.00138–0.0230) | (0.0–5.7) | (-0.2–3.4) | -- |
| | | 0.171 | 0.295 | 84.3 | 45.9 | -1.8 |
| | Dietary risks | (0.0856–0.230) | (0.152–0.418) | (40.1–115.2) | (23.5–65.4) | (-2.3–-1.4) |
| | | 0.0287 | 0.0473 | 13.5 | 7.3 | -1.8 |
| | Diet low in fruits | (0.0132–0.0461) | (0.0198–0.0739) | (6.5–21.3) | (3.1–11.4) | (-2.9–-0.8) |
| | | 0.0348 | 0.0538 | 16.8 | 8.4 | -2.1 |
| | Diet low in vegetables | (0.0210–0.0510) | (0.0352–0.0772) | (10.4–24.7) | (5.5–12.0) | (-2.8–-1.4) |
| | | 0.0141 | 0.0238 | 6.8 | 3.7 | -1.9 |
| | Diet low in legumes | (-0.0113–0.0383) | (-0.0182–0.0621) | (-5.4–18.9) | (-2.8–9.7) | (-3.0–-0.8) |
| | | 0.0247 | 0.0343 | 11.7 | 5.3 | -2.4 |
| | Diet low in whole grains | (0.0112–0.0380) | (0.0140–0.0548) | (5.3–18.3) | (2.2–8.5) | (-3.8–-1.1) |
| | | 0.0362 | 0.0666 | 17.4 | 10.3 | -1.6 |
| | Diet low in nuts and seeds | (0.0107–0.0591) | (0.0185–0.111) | (5.0–28.6) | (2.9–17.2) | (-2.2–-1.1) |
| | | -0.000321 | 0.00639 | 0.2 | 1.0 | |
| | Diet high in red meat | (-0.0167–0.0113) | (-0.00993–0.0152) | (-5.7–4.5) | (-1.5–2.3) | -- |
| | | 0.00147 | 0.00319 | 0.7 | 0.5 | -1.0 |
| | Diet high in processed meat | (0.0000276–0.00317) | (-0.000134–0.00701) | (0.0–1.4) | (0.0–1.1) | (-2.7–0.5) |
| | | 0.00314 | 0.00957 | 1.4 | 1.5 | 0.2 |
| | Diet high in sugar-sweetened beverages | (0.000910–0.00719) | (0.00388–0.0160) | (0.4–3.1) | (0.6–2.4) | (-2.2–3.9) |
| | | 0.0156 | 0.0175 | 7.3 | 2.7 | -3.0 |
| | Diet low in fiber | (0.00504–0.0341) | (0.00351–0.0418) | (2.4–16.0) | (0.5–6.5) | (-6.8–0.3) |
| | | 0.0250 | 0.0380 | 12.0 | 5.9 | -2.1 |
| | Diet low in seafood omega-3 fatty acids | (0.00621–0.0475) | (0.00964–0.0732) | (2.9–23.1) | (1.5–11.4) | (-3.7–-0.8) |
| | | 0.00801 | 0.0158 | 4.0 | 2.5 | -1.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0216–0.0305) | (-0.0328–0.0649) | (-10.4–15.3) | (-5.1–10.2) | (-2.8–-0.2) |
| | | 0.0185 | 0.0213 | 8.7 | 3.3 | -2.9 |
| | Diet high in trans fatty acids | (0.000836–0.0365) | (0.00110–0.0421) | (0.4–17.3) | (0.2–6.5) | (-4.2–-1.9) |
| | | 0.0356 | 0.0605 | 18.1 | 9.5 | -2.0 |
| | Diet high in sodium | (0.000995–0.101) | (0.00211–0.177) | (0.5–51.4) | (0.3–27.8) | (-6.8–2.7) |
| | | 0.00936 | 0.0154 | 4.9 | 2.4 | -2.2 |
| | Low physical activity | (0.00277–0.0160) | (0.00484–0.0264) | (1.3–9.0) | (0.7–4.2) | (-2.9–-1.3) |
| | | 0.191 | 0.313 | 97.1 | 49.3 | -2.1 |
| | Environmental/occupational risks | (0.157–0.221) | (0.266–0.359) | (80.0–112.3) | (41.8–56.6) | (-2.4–-1.8) |
| | | 0.116 | 0.133 | 58.5 | 20.9 | -3.1 |
| | Air pollution | (0.0853–0.148) | (0.0995–0.167) | (43.4–74.9) | (15.6–26.2) | (-3.7–-2.5) |
| | | 0.116 | 0.133 | 58.5 | 20.9 | -3.1 |
| | Particulate matter pollution | (0.0853–0.148) | (0.0995–0.167) | (43.4–74.9) | (15.6–26.2) | (-3.7–-2.5) |
| | | 0.0612 | 0.107 | 30.9 | 16.8 | -1.8 |
| | Ambient particulate matter pollution | (0.0381–0.0882) | (0.0785–0.135) | (19.4–44.3) | (12.3–21.2) | (-3.0–-0.7) |
| | | 0.0546 | 0.0264 | 27.6 | 4.1 | -5.8 |
| | Household air pollution from solid fuels | (0.0365–0.0762) | (0.0167–0.0421) | (18.5–38.4) | (2.6–6.6) | (-6.5–-5.1) |
| | | 0.0173 | 0.0294 | 8.7 | 4.6 | -1.9 |
| | Non-optimal temperature | (0.0155–0.0202) | (0.0253–0.0352) | (7.7–10.2) | (4.0–5.5) | (-2.0–-1.8) |
| | | 0.0000302 | 0.00436 | 0.0 | 0.7 | |
| | High temperature | (-0.00107–0.00128) | (0.00136–0.00814) | (-0.5–0.6) | (0.2–1.3) | -- |
| | | 0.0173 | 0.0251 | 8.7 | 4.0 | -2.4 |
| | Low temperature | (0.0158–0.0192) | (0.0226–0.0278) | (7.9–9.7) | (3.5–4.4) | (-2.6–-2.2) |
| | | 0.0852 | 0.193 | 44.3 | 30.5 | -1.1 |
| | Other environmental risks | (0.0675–0.103) | (0.157–0.228) | (35.2–53.4) | (24.7–36.1) | (-1.3–-0.9) |
| | | 0.0852 | 0.193 | 44.3 | 30.5 | -1.1 |
| | Lead exposure | (0.0675–0.103) | (0.157–0.228) | (35.2–53.4) | (24.7–36.1) | (-1.3–-0.9) |
| **Andean Latin America** | | | | | | |
| | | 0.0273 | 0.0486 | 147.6 | 78.6 | -1.9 |
| | All risk factors | (0.0236–0.0301) | (0.0439–0.0527) | (127.4–162.7) | (70.7–85.0) | (-2.2–-1.6) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0204 | 0.0418 | 111.4 | 67.7 | -1.5 |
| | Metabolic risks | (0.0165–0.0239) | (0.0365–0.0465) | (90.0–130.4) | (59.1–75.4) | (-1.9–-1.0) |
| | | 0.00195 | 0.00506 | 11.1 | 8.3 | -0.9 |
| | High fasting plasma glucose | (0.00136–0.00277) | (0.00396–0.00642) | (7.8–15.7) | (6.5–10.5) | (-1.9–0.2) |
| | | 0.00642 | 0.0116 | 33.7 | 18.5 | -1.8 |
| | High LDL cholesterol | (0.00383–0.00927) | (0.00732–0.0167) | (19.0–49.5) | (11.6–26.8) | (-2.4–-1.2) |
| | | 0.0141 | 0.0316 | 78.3 | 51.4 | -1.3 |
| | High systolic blood pressure | (0.00918–0.0193) | (0.0255–0.0378) | (51.9–106.3) | (41.5–61.7) | (-2.0–-0.2) |
| | | 0.00333 | 0.00888 | 16.6 | 14.0 | -0.5 |
| | High body-mass index | (0.00169–0.00513) | (0.00487–0.0133) | (8.7–25.5) | (7.7–20.9) | (-1.4–0.3) |
| | | 0.00256 | 0.00509 | 14.2 | 8.3 | -1.6 |
| | Kidney dysfunction | (0.00185–0.00332) | (0.00364–0.00676) | (10.2–18.5) | (5.9–11.1) | (-1.9–-1.3) |
| | | 0.0139 | 0.0230 | 73.6 | 36.8 | -2.1 |
| | Behavioral risks | (0.00795–0.0183) | (0.0138–0.0304) | (41.8–97.2) | (22.0–49.0) | (-2.5–-1.7) |
| | | 0.00371 | 0.00477 | 18.7 | 7.4 | -2.8 |
| | Tobacco | (0.00278–0.00474) | (0.00363–0.00599) | (13.9–23.9) | (5.7–9.4) | (-3.9–-1.8) |
| | | 0.00272 | 0.00343 | 13.4 | 5.3 | -2.8 |
| | Smoking | (0.00187–0.00377) | (0.00243–0.00479) | (9.2–19.0) | (3.7–7.4) | (-4.3–-1.5) |
| | | 0.0000169 | 0.0000217 | 0.1 | 0.0 | -2.6 |
| | Chewing tobacco | (0.00000567–0.0000409) | (0.00000687–0.0000479) | (0.0–0.2) | (0.0–0.1) | (-5.8–1.0) |
| | | 0.00108 | 0.00142 | 5.7 | 2.3 | -2.8 |
| | Secondhand smoke | (0.000773–0.00145) | (0.000991–0.00185) | (4.1–7.6) | (1.6–3.0) | (-3.6–-2.0) |
| | | -0.000151 | -0.0000753 | -0.5 | -0.1 | |
| | High alcohol use | (-0.000492–0.000502) | (-0.000537–0.00105) | (-2.0–2.5) | (-0.8–1.6) | -- |
| | | 0.0115 | 0.0196 | 60.9 | 31.5 | -2.0 |
| | Dietary risks | (0.00459–0.0162) | (0.00951–0.0280) | (23.9–87.2) | (15.1–45.2) | (-2.4–-1.4) |
| | | 0.00201 | 0.00374 | 10.2 | 5.9 | -1.6 |
| | Diet low in fruits | (0.000841–0.00315) | (0.00168–0.00563) | (4.6–16.0) | (2.7–8.9) | (-2.6–-0.7) |
| | | 0.00269 | 0.00442 | 14.1 | 7.1 | -2.1 |
| | Diet low in vegetables | (0.00151–0.00408) | (0.00273–0.00647) | (7.9–21.3) | (4.4–10.4) | (-3.0–-1.2) |
| | | 0.00118 | 0.00231 | 6.1 | 3.7 | -1.5 |
| | Diet low in legumes | (-0.00102–0.00316) | (-0.00190–0.00617) | (-5.2–16.6) | (-3.0–9.9) | (-2.2–-0.8) |
| | | 0.00171 | 0.00261 | 8.8 | 4.1 | -2.3 |
| | Diet low in whole grains | (0.000745–0.00266) | (0.00108–0.00409) | (3.8–13.9) | (1.7–6.5) | (-3.7–-1.0) |
| | | 0.00240 | 0.00368 | 12.4 | 5.9 | -2.3 |
| | Diet low in nuts and seeds | (0.000710–0.00390) | (0.00102–0.00610) | (3.6–20.5) | (1.6–9.8) | (-2.9–-1.7) |
| | | -0.000213 | -0.000122 | -0.9 | -0.2 | |
| | Diet high in red meat | (-0.00117–0.000459) | (-0.00156–0.000984) | (-4.7–1.9) | (-2.3–1.5) | -- |
| | | 0.0000463 | 0.000124 | 0.2 | 0.2 | -0.5 |
| | Diet high in processed meat | (-0.00000166–0.0000968) | (-0.00000936–0.000294) | (0.0–0.5) | (0.0–0.4) | (-1.9–1.2) |
| | | 0.000139 | 0.000425 | 0.6 | 0.7 | 0.1 |
| | Diet high in sugar-sweetened beverages | (0.0000382–0.000339) | (0.000172–0.000783) | (0.2–1.5) | (0.3–1.2) | (-2.0–3.1) |
| | | 0.00126 | 0.00186 | 6.3 | 2.9 | -2.3 |
| | Diet low in fiber | (0.000387–0.00281) | (0.000403–0.00417) | (2.0–14.0) | (0.6–6.6) | (-5.8–0.8) |
| | | 0.00142 | 0.00229 | 7.3 | 3.7 | -2.1 |
| | Diet low in seafood omega-3 fatty acids | (0.000348–0.00270) | (0.000583–0.00431) | (1.7–14.0) | (0.9–6.9) | (-3.6–-0.7) |
| | | 0.000848 | 0.00129 | 4.4 | 2.1 | -2.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.00231–0.00313) | (-0.00263–0.00527) | (-11.7–16.5) | (-4.2–8.4) | (-3.9–-1.0) |
| | | 0.00136 | 0.00156 | 7.0 | 2.5 | -3.1 |
| | Diet high in trans fatty acids | (0.0000626–0.00268) | (0.0000823–0.00305) | (0.3–13.9) | (0.1–4.9) | (-4.3–-2.1) |
| | | 0.00219 | 0.00373 | 12.1 | 6.0 | -2.1 |
| | Diet high in sodium | (0.0000113–0.00636) | (0.0000171–0.0115) | (0.1–35.0) | (0.0–18.7) | (-10.5–5.7) |
| | | 0.000348 | 0.000523 | 2.0 | 0.9 | -2.5 |
| | Low physical activity | (0.0000810–0.000668) | (0.000132–0.000948) | (0.4–3.9) | (0.2–1.5) | (-3.7–-1.2) |
| | | 0.0168 | 0.0240 | 90.8 | 38.9 | -2.6 |
| | Environmental/occupational risks | (0.0136–0.0197) | (0.0198–0.0287) | (73.6–106.3) | (31.9–46.5) | (-2.9–-2.2) |
| | | 0.0113 | 0.0106 | 61.0 | 17.1 | -3.9 |
| | Air pollution | (0.00847–0.0140) | (0.00803–0.0133) | (46.0–75.2) | (12.9–21.5) | (-4.4–-3.4) |
| | | 0.0113 | 0.0106 | 61.0 | 17.1 | -3.9 |
| | Particulate matter pollution | (0.00847–0.0140) | (0.00803–0.0133) | (46.0–75.2) | (12.9–21.5) | (-4.4–-3.4) |
| | | 0.00623 | 0.00917 | 33.5 | 14.8 | -2.5 |
| | Ambient particulate matter pollution | (0.00353–0.00910) | (0.00685–0.0116) | (18.9–49.1) | (11.0–18.7) | (-3.5–-1.1) |
| | | 0.00510 | 0.00147 | 27.5 | 2.4 | -7.4 |
| | Household air pollution from solid fuels | (0.00344–0.00722) | (0.000469–0.00327) | (18.6–39.0) | (0.7–5.2) | (-10.2–-5.4) |
| | | 0.00183 | 0.00233 | 9.6 | 3.7 | -2.8 |
| | Non-optimal temperature | (0.00159–0.00205) | (0.00206–0.00268) | (8.4–10.8) | (3.3–4.3) | (-3.1–-2.5) |
| | | -0.0000106 | 0.0000387 | -0.1 | 0.1 | |
| | High temperature | (-0.0000426–0.00000414) | (-0.0000619–0.000181) | (-0.2–0.0) | (-0.1–0.3) | -- |
| | | 0.00184 | 0.00230 | 9.6 | 3.7 | -2.9 |
| | Low temperature | (0.00160–0.00207) | (0.00202–0.00267) | (8.5–10.9) | (3.2–4.3) | (-3.2–-2.5) |
| | | 0.00704 | 0.0149 | 39.0 | 24.3 | -1.4 |
| | Other environmental risks | (0.00517–0.00901) | (0.0109–0.0189) | (28.7–50.2) | (17.8–30.9) | (-1.8–-1.1) |
| | | 0.00704 | 0.0149 | 39.0 | 24.3 | -1.4 |
| | Lead exposure | (0.00517–0.00901) | (0.0109–0.0189) | (28.7–50.2) | (17.8–30.9) | (-1.8–-1.1) |
| **Caribbean** | | | | | | |
| | | 0.0655 | 0.108 | 252.7 | 192.1 | -0.8 |
| | All risk factors | (0.0594–0.0702) | (0.0983–0.116) | (229.5–271.1) | (174.5–206.6) | (-1.0–-0.6) |
| | | 0.0558 | 0.0960 | 215.8 | 170.2 | -0.7 |
| | Metabolic risks | (0.0487–0.0616) | (0.0863–0.106) | (188.9–238.4) | (153.0–187.9) | (-1.1–-0.4) |
| | | 0.00600 | 0.0104 | 23.5 | 18.4 | -0.7 |
| | High fasting plasma glucose | (0.00440–0.00772) | (0.00843–0.0132) | (17.3–30.3) | (14.9–23.3) | (-1.6–-0.1) |
| | | 0.0163 | 0.0244 | 62.7 | 43.4 | -1.1 |
| | High LDL cholesterol | (0.00987–0.0236) | (0.0150–0.0359) | (37.7–90.8) | (26.6–63.5) | (-1.9–-0.5) |
| | | 0.0410 | 0.0743 | 158.9 | 131.6 | -0.6 |
| | High systolic blood pressure | (0.0315–0.0507) | (0.0601–0.0864) | (122.8–196.2) | (106.5–153.4) | (-1.2–0.2) |
| | | 0.00599 | 0.0159 | 22.6 | 28.3 | 0.7 |
| | High body-mass index | (0.00322–0.00894) | (0.00928–0.0233) | (12.2–33.8) | (16.5–41.5) | (0.0–1.4) |
| | | 0.0131 | 0.0217 | 51.0 | 38.2 | -0.9 |
| | Kidney dysfunction | (0.0101–0.0158) | (0.0173–0.0261) | (39.4–61.5) | (30.4–45.9) | (-1.1–-0.7) |
| | | 0.0349 | 0.0512 | 133.6 | 90.9 | -1.2 |
| | Behavioral risks | (0.0209–0.0442) | (0.0349–0.0651) | (79.8–169.5) | (62.0–115.7) | (-1.5–-0.7) |
| | | 0.0130 | 0.0147 | 49.2 | 26.1 | -1.9 |
| | Tobacco | (0.0101–0.0164) | (0.0116–0.0182) | (38.1–62.2) | (20.4–32.2) | (-3.0–-1.0) |
| | | 0.0101 | 0.0109 | 38.1 | 19.3 | -2.1 |
| | Smoking | (0.00726–0.0136) | (0.00790–0.0145) | (27.2–51.5) | (14.0–25.7) | (-3.4–-0.8) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0000383 | 0.0000734 | 0.1 | 0.1 | -0.3 |
| | Chewing tobacco | (0.0000126–0.0000874) | (0.0000235–0.000164) | (0.0–0.3) | (0.0–0.3) | (-3.4–3.2) |
| | | 0.00341 | 0.00427 | 13.1 | 7.6 | -1.7 |
| | Secondhand smoke | (0.00250–0.00439) | (0.00315–0.00548) | (9.6–16.8) | (5.6–9.7) | (-2.3–-1.1) |
| | | 0.000419 | 0.00225 | 1.6 | 4.0 | |
| | High alcohol use | (-0.000169–0.00189) | (0.00106–0.00439) | (-0.5–7.1) | (1.8–7.8) | -- |
| | | 0.0258 | 0.0381 | 99.1 | 67.8 | -1.2 |
| | Dietary risks | (0.00949–0.0369) | (0.0196–0.0547) | (36.3–142.1) | (34.9–97.1) | (-1.6–-0.2) |
| | | 0.00372 | 0.00552 | 14.0 | 9.9 | -1.1 |
| | Diet low in fruits | (0.00158–0.00613) | (0.00246–0.00919) | (6.0–23.2) | (4.4–16.5) | (-2.6–0.4) |
| | | 0.00526 | 0.00919 | 19.9 | 16.4 | -0.6 |
| | Diet low in vegetables | (0.00294–0.00788) | (0.00572–0.0135) | (11.2–29.9) | (10.2–24.3) | (-1.3–0.2) |
| | | 0.00240 | 0.00309 | 9.2 | 5.5 | -1.6 |
| | Diet low in legumes | (-0.00200–0.00645) | (-0.00245–0.00840) | (-7.6–24.9) | (-4.4–14.9) | (-2.8–-0.5) |
| | | 0.00586 | 0.00753 | 22.4 | 13.4 | -1.6 |
| | Diet low in whole grains | (0.00294–0.00858) | (0.00372–0.0116) | (11.2–32.9) | (6.6–20.6) | (-2.5–-0.8) |
| | | 0.00629 | 0.00897 | 24.1 | 15.9 | -1.3 |
| | Diet low in nuts and seeds | (0.00188–0.0102) | (0.00265–0.0152) | (7.2–39.2) | (4.7–26.9) | (-1.7–-0.9) |
| | | -0.0000433 | -0.000126 | -0.1 | -0.2 | |
| | Diet high in red meat | (-0.000778–0.000647) | (-0.00156–0.000945) | (-2.7–2.4) | (-2.9–1.7) | -- |
| | | 0.000147 | 0.000282 | 0.6 | 0.5 | -0.3 |
| | Diet high in processed meat | (-0.00000996–0.000314) | (-0.0000139–0.000704) | (0.0–1.2) | (0.0–1.3) | (-2.5–1.5) |
| | | 0.000309 | 0.000603 | 1.2 | 1.1 | -0.2 |
| | Diet high in sugar-sweetened beverages | (0.0000635–0.000800) | (0.000126–0.00168) | (0.2–3.0) | (0.2–3.0) | (-4.6–4.7) |
| | | 0.00293 | 0.00162 | 11.2 | 2.9 | -4.1 |
| | Diet low in fiber | (0.00101–0.00613) | (0.000183–0.00436) | (3.9–23.4) | (0.3–7.9) | (-8.9–-0.5) |
| | | 0.00386 | 0.00523 | 14.7 | 9.3 | -1.4 |
| | Diet low in seafood omega-3 fatty acids | (0.000967–0.00729) | (0.00130–0.00988) | (3.7–28.0) | (2.3–17.6) | (-2.7–-0.3) |
| | | 0.00160 | 0.00109 | 6.1 | 2.0 | -3.5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.00383–0.00607) | (-0.00207–0.00510) | (-14.7–23.4) | (-3.7–9.1) | (-7.0–-1.1) |
| | | 0.00142 | 0.00169 | 5.4 | 3.0 | -1.8 |
| | Diet high in trans fatty acids | (0.0000602–0.00291) | (0.0000881–0.00340) | (0.2–11.1) | (0.2–6.0) | (-3.1–-0.5) |
| | | 0.00348 | 0.00550 | 13.6 | 9.7 | -1.0 |
| | Diet high in sodium | (0.00000271–0.0123) | (0.00000242–0.0206) | (0.0–47.7) | (0.0–36.4) | (-12.9–8.1) |
| | | 0.00133 | 0.00204 | 5.2 | 3.6 | -1.1 |
| | Low physical activity | (0.000405–0.00238) | (0.000613–0.00370) | (1.5–9.3) | (1.1–6.5) | (-1.8–-0.4) |
| | | 0.0267 | 0.0424 | 103.0 | 75.1 | -1.0 |
| | Environmental/occupational risks | (0.0217–0.0320) | (0.0354–0.0499) | (84.0–123.8) | (62.8–88.6) | (-1.4–-0.5) |
| | | 0.0147 | 0.0205 | 56.3 | 36.5 | -1.3 |
| | Air pollution | (0.0100–0.0210) | (0.0152–0.0253) | (38.4–80.8) | (27.1–45.2) | (-2.1–-0.5) |
| | | 0.0147 | 0.0205 | 56.3 | 36.5 | -1.3 |
| | Particulate matter pollution | (0.0100–0.0210) | (0.0152–0.0253) | (38.4–80.8) | (27.1–45.2) | (-2.1–-0.5) |
| | | 0.00466 | 0.00821 | 18.0 | 14.5 | -0.7 |
| | Ambient particulate matter pollution | (0.00151–0.0106) | (0.00573–0.0107) | (5.8–40.9) | (10.1–19.0) | (-2.8–2.8) |
| | | 0.0100 | 0.0122 | 38.2 | 22.0 | -1.7 |
| | Household air pollution from solid fuels | (0.00740–0.0126) | (0.00887–0.0155) | (28.2–48.2) | (15.9–27.9) | (-2.2–-1.2) |
| | | 0.000803 | 0.00136 | 3.1 | 2.4 | -0.7 |
| | Non-optimal temperature | (0.000626–0.00103) | (0.000899–0.00193) | (2.4–4.0) | (1.6–3.4) | (-1.4–-0.2) |
| | | 0.0000702 | 0.000555 | 0.3 | 1.0 | |
| | High temperature | (-0.0000145–0.000130) | (0.000182–0.000957) | (0.0–0.5) | (0.3–1.7) | -- |
| | | 0.000733 | 0.000812 | 2.8 | 1.4 | -2.0 |
| | Low temperature | (0.000600–0.000910) | (0.000672–0.000979) | (2.3–3.5) | (1.2–1.7) | (-2.3–-1.8) |
| | | 0.0143 | 0.0253 | 55.8 | 44.6 | -0.7 |
| | Other environmental risks | (0.0117–0.0168) | (0.0187–0.0310) | (45.5–65.3) | (33.0–54.7) | (-1.0–-0.4) |
| | | 0.0143 | 0.0253 | 55.8 | 44.6 | -0.7 |
| | Lead exposure | (0.0117–0.0168) | (0.0187–0.0310) | (45.5–65.3) | (33.0–54.7) | (-1.0–-0.4) |
| **Central Latin America** | | | | | | |
| | | 0.141 | 0.357 | 192.1 | 141.8 | -0.9 |
| | All risk factors | (0.132–0.148) | (0.328–0.378) | (179.6–202.2) | (129.5–150.6) | (-1.1–-0.8) |
| | | 0.122 | 0.322 | 166.9 | 127.9 | -0.8 |
| | Metabolic risks | (0.108–0.134) | (0.290–0.351) | (148.7–183.0) | (114.9–139.5) | (-1.1–-0.5) |
| | | 0.0170 | 0.0557 | 24.1 | 22.3 | -0.2 |
| | High fasting plasma glucose | (0.0131–0.0215) | (0.0459–0.0699) | (18.8–30.4) | (18.3–28.0) | (-0.9–0.5) |
| | | 0.0367 | 0.101 | 47.8 | 39.4 | -0.6 |
| | High LDL cholesterol | (0.0227–0.0520) | (0.0669–0.142) | (28.8–68.3) | (26.0–56.1) | (-1.1–0.0) |
| | | 0.0889 | 0.230 | 123.2 | 91.6 | -0.9 |
| | High systolic blood pressure | (0.0688–0.107) | (0.181–0.270) | (96.1–147.5) | (72.5–107.7) | (-1.6–-0.1) |
| | | 0.0186 | 0.0625 | 23.5 | 24.0 | 0.1 |
| | High body-mass index | (0.00994–0.0277) | (0.0324–0.0914) | (12.7–35.2) | (12.6–35.2) | (-0.5–0.6) |
| | | 0.0284 | 0.0836 | 39.7 | 33.5 | -0.5 |
| | Kidney dysfunction | (0.0220–0.0341) | (0.0644–0.103) | (30.5–48.2) | (25.5–41.5) | (-0.7–-0.3) |
| | | 0.0769 | 0.174 | 101.3 | 68.4 | -1.2 |
| | Behavioral risks | (0.0485–0.0948) | (0.100–0.232) | (63.7–126.8) | (38.9–91.4) | (-1.7–-0.9) |
| | | 0.0282 | 0.0430 | 35.5 | 16.4 | -2.3 |
| | Tobacco | (0.0226–0.0337) | (0.0349–0.0509) | (28.4–42.8) | (13.3–19.5) | (-3.0–-1.7) |
| | | 0.0206 | 0.0282 | 25.0 | 10.6 | -2.6 |
| | Smoking | (0.0155–0.0266) | (0.0218–0.0364) | (18.7–33.0) | (8.1–13.7) | (-3.6–-1.8) |
| | | 0.0000931 | 0.000186 | 0.1 | 0.1 | -1.5 |
| | Chewing tobacco | (0.0000294–0.000217) | (0.0000568–0.000423) | (0.0–0.3) | (0.0–0.2) | (-4.8–2.1) |
| | | 0.00881 | 0.0160 | 11.9 | 6.3 | -1.9 |
| | Secondhand smoke | (0.00658–0.0112) | (0.0114–0.0202) | (8.9–15.1) | (4.5–8.0) | (-2.6–-1.3) |
| | | 0.000109 | -0.0000751 | 0.4 | 0.0 | |
| | High alcohol use | (-0.00135–0.00367) | (-0.00277–0.00852) | (-1.1–4.5) | (-0.9–3.2) | -- |
| | | 0.0589 | 0.145 | 77.8 | 57.0 | -0.9 |
| | Dietary risks | (0.0244–0.0807) | (0.0627–0.209) | (31.3–108.2) | (24.4–82.8) | (-1.4–-0.5) |
| | | 0.00980 | 0.0208 | 12.5 | 8.1 | -1.3 |
| | Diet low in fruits | (0.00460–0.0156) | (0.00745–0.0333) | (6.2–19.7) | (3.0–12.9) | (-2.5–-0.2) |
| | | 0.0108 | 0.0205 | 14.2 | 8.1 | -1.7 |
| | Diet low in vegetables | (0.00677–0.0152) | (0.0128–0.0298) | (9.1–20.1) | (5.1–11.7) | (-2.3–-1.0) |
| | | 0.00567 | 0.0128 | 7.3 | 5.0 | -1.1 |
| | Diet low in legumes | (-0.00454–0.0152) | (-0.00956–0.0339) | (-5.7–19.8) | (-3.7–13.2) | (-2.2–0.0) |
| | | 0.00429 | 0.00939 | 5.4 | 3.6 | -1.2 |
| | Diet low in whole grains | (0.00200–0.00684) | (0.00381–0.0163) | (2.5–8.7) | (1.5–6.4) | (-3.2–0.6) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | Diet low in nuts and seeds | 0.0139 (0.00421–0.0223) | 0.0367 (0.0101–0.0597) | 17.7 (5.2–28.7) | 14.3 (3.9–23.4) | -0.6 (-1.2–-0.2) |
| | Diet high in red meat | 0.000647 (-0.00193–0.00267) | 0.00380 (-0.00000000000000000213–0.00881) | 0.9 (-1.7–2.9) | 1.4 (0.0–3.6) | -- |
| | Diet high in processed meat | 0.000462 (-0.0000269–0.00104) | 0.00135 (-0.000172–0.00318) | 0.6 (0.0–1.2) | 0.5 (-0.1–1.2) | -0.3 (-2.0–1.7) |
| | Diet high in sugar-sweetened beverages | 0.00169 (0.000482–0.00377) | 0.00576 (0.00194–0.00983) | 2.0 (0.6–4.4) | 2.2 (0.7–3.7) | 0.3 (-2.4–4.3) |
| | Diet low in fiber | 0.00386 (0.00133–0.00810) | 0.00764 (0.00162–0.0167) | 4.8 (1.7–10.2) | 3.0 (0.6–6.5) | -1.5 (-5.3–1.7) |
| | Diet low in seafood omega-3 fatty acids | 0.00912 (0.00227–0.0172) | 0.0206 (0.00518–0.0395) | 11.7 (2.8–22.3) | 8.1 (2.0–15.5) | -1.1 (-2.6–0.1) |
| | Diet low in omega-6 polyunsaturated fatty acids | 0.00523 (-0.0151–0.0201) | 0.0131 (-0.0286–0.0536) | 6.7 (-18.8–26.2) | 5.1 (-11.2–21.1) | -0.8 (-1.9–0.0) |
| | Diet high in trans fatty acids | 0.00707 (0.000319–0.0139) | 0.0177 (0.000910–0.0352) | 9.0 (0.4–17.8) | 6.9 (0.4–13.6) | -0.8 (-2.1–0.2) |
| | Diet high in sodium | 0.0128 (0.000868–0.0337) | 0.0296 (0.00195–0.0794) | 17.4 (1.2–45.9) | 11.7 (0.8–31.4) | -1.2 (-5.3–2.1) |
| | Low physical activity | 0.00190 (0.000566–0.00324) | 0.00475 (0.00163–0.00799) | 2.7 (0.7–4.7) | 1.9 (0.6–3.3) | -1.0 (-2.0–0.4) |
| | Environmental/occupational risks | 0.0665 (0.0547–0.0770) | 0.163 (0.142–0.185) | 90.8 (74.4–105.2) | 65.2 (56.1–73.7) | -1.0 (-1.3–-0.6) |
| | Air pollution | 0.0394 (0.0269–0.0511) | 0.0682 (0.0513–0.0855) | 53.5 (36.6–69.5) | 27.1 (20.4–33.9) | -2.1 (-2.7–-1.3) |
| | Particulate matter pollution | 0.0394 (0.0269–0.0511) | 0.0682 (0.0513–0.0855) | 53.5 (36.6–69.5) | 27.1 (20.4–33.9) | -2.1 (-2.7–-1.3) |
| | Ambient particulate matter pollution | 0.0244 (0.0137–0.0359) | 0.0575 (0.0432–0.0724) | 33.1 (18.6–48.7) | 22.8 (17.1–28.7) | -1.1 (-2.2–0.2) |
| | Household air pollution from solid fuels | 0.0150 (0.00939–0.0220) | 0.0106 (0.00573–0.0190) | 20.3 (12.8–29.9) | 4.3 (2.3–7.6) | -4.7 (-5.8–-3.9) |
| | Non-optimal temperature | 0.00675 (0.00609–0.00776) | 0.0166 (0.0144–0.0193) | 9.2 (8.3–10.5) | 6.6 (5.7–7.7) | -1.0 (-1.2–-0.8) |
| | High temperature | -0.0000904 (-0.000535–0.000280) | 0.00294 (0.00123–0.00504) | -0.1 (-0.7–0.4) | 1.2 (0.5–2.0) | -- |
| | Low temperature | 0.00684 (0.00624–0.00761) | 0.0138 (0.0124–0.0156) | 9.3 (8.4–10.3) | 5.5 (4.9–6.2) | -1.6 (-1.8–-1.3) |
| | Other environmental risks | 0.0316 (0.0258–0.0376) | 0.105 (0.0874–0.120) | 43.8 (35.6–52.2) | 41.9 (35.0–48.0) | -0.1 (-0.4–0.1) |
| | Lead exposure | 0.0316 (0.0258–0.0376) | 0.105 (0.0874–0.120) | 43.8 (35.6–52.2) | 41.9 (35.0–48.0) | -0.1 (-0.4–0.1) |
| **Tropical Latin America** | | | | | | |
| | All risk factors | 0.212 (0.197–0.224) | 0.279 (0.249–0.302) | 265.5 (243.6–282.5) | 105.5 (93.7–114.1) | -2.8 (-3.0–-2.6) |
| | Metabolic risks | 0.179 (0.157–0.200) | 0.249 (0.220–0.275) | 226.6 (198.2–253.0) | 94.0 (83.1–104.1) | -2.7 (-3.0–-2.3) |
| | High fasting plasma glucose | 0.0253 (0.0156–0.0403) | 0.0352 (0.0242–0.0525) | 32.6 (20.5–52.3) | 13.3 (9.2–19.8) | -2.7 (-4.2–-1.0) |
| | High LDL cholesterol | 0.0563 (0.0342–0.0794) | 0.0655 (0.0400–0.0956) | 68.0 (38.9–97.9) | 24.5 (14.9–35.9) | -3.1 (-3.7–-2.5) |
| | High systolic blood pressure | 0.136 (0.0994–0.167) | 0.193 (0.159–0.227) | 173.5 (130.3–212.8) | 72.9 (59.8–85.7) | -2.6 (-3.2–-1.9) |
| | High body-mass index | 0.0220 (0.0119–0.0335) | 0.0524 (0.0294–0.0753) | 25.3 (13.8–37.9) | 19.6 (11.1–28.0) | -0.8 (-1.4–-0.2) |
| | Kidney dysfunction | 0.0274 (0.0200–0.0348) | 0.0366 (0.0262–0.0471) | 35.9 (25.6–46.2) | 13.8 (9.7–17.8) | -2.9 (-3.0–-2.8) |
| | Behavioral risks | 0.121 (0.0976–0.144) | 0.133 (0.0989–0.169) | 144.1 (112.2–173.0) | 50.0 (36.9–63.5) | -3.2 (-3.6–-2.9) |
| | Tobacco | 0.0614 (0.0528–0.0717) | 0.0485 (0.0411–0.0571) | 68.9 (58.3–81.1) | 18.0 (15.2–21.2) | -4.1 (-4.5–-3.7) |
| | Smoking | 0.0490 (0.0405–0.0590) | 0.0381 (0.0303–0.0467) | 52.6 (42.7–64.0) | 14.0 (11.1–17.2) | -4.0 (-4.6–-3.5) |
| | Chewing tobacco | 0.000351 (0.000114–0.000807) | 0.000477 (0.000156–0.00107) | 0.5 (0.2–1.1) | 0.2 (0.1–0.4) | -2.9 (-6.0–0.6) |
| | Secondhand smoke | 0.0157 (0.0117–0.0201) | 0.0117 (0.00875–0.0146) | 19.8 (14.7–25.2) | 4.4 (3.3–5.5) | -4.6 (-5.0–-4.1) |
| | High alcohol use | 0.00309 (0.000726–0.00719) | 0.00254 (-0.000125–0.00894) | 3.4 (1.1–7.6) | 1.0 (0.0–3.3) | -- |
| | Dietary risks | 0.0752 (0.0455–0.101) | 0.0915 (0.0521–0.132) | 90.7 (52.5–123.4) | 34.4 (19.6–49.6) | -2.9 (-3.5–-2.4) |
| | Diet low in fruits | 0.0132 (0.00616–0.0208) | 0.0172 (0.00809–0.0281) | 14.9 (7.5–23.4) | 6.5 (3.1–10.6) | -2.5 (-3.8–-1.2) |
| | Diet low in vegetables | 0.0161 (0.00976–0.0238) | 0.0197 (0.0136–0.0280) | 19.1 (11.9–28.2) | 7.4 (5.2–10.5) | -2.9 (-3.7–-2.0) |
| | Diet low in legumes | 0.00489 (-0.00378–0.0136) | 0.00559 (-0.00411–0.0150) | 5.8 (-4.4–16.3) | 2.1 (-1.5–5.6) | -3.1 (-4.3–-1.9) |
| | Diet low in whole grains | 0.0128 (0.00532–0.0201) | 0.0148 (0.00587–0.0238) | 14.7 (6.2–23.6) | 5.5 (2.2–8.9) | -3.0 (-4.4–-1.6) |
| | Diet low in nuts and seeds | 0.0136 (0.00368–0.0229) | 0.0173 (0.00455–0.0303) | 15.9 (4.3–27.1) | 6.5 (1.7–11.3) | -2.7 (-4.0–-1.9) |
| | Diet high in red meat | -0.000712 (-0.0131–0.00810) | 0.00283 (-0.00660–0.00814) | -0.1 (-10.5–7.7) | 1.0 (-2.5–3.0) | -- |
| | Diet high in processed meat | 0.000819 (0.0000544–0.00173) | 0.00143 (0.0000587–0.00334) | 0.9 (0.1–1.9) | 0.5 (0.0–1.2) | -1.7 (-3.9–0.4) |
| | Diet high in sugar-sweetened beverages | 0.00101 (0.000318–0.00231) | 0.00278 (0.00101–0.00559) | 1.1 (0.3–2.4) | 1.0 (0.4–2.1) | -0.1 (-3.3–4.1) |
| | Diet low in fiber | 0.00756 (0.00216–0.0172) | 0.00643 (0.00135–0.0163) | 8.6 (2.5–19.4) | 2.4 (0.5–6.1) | -3.8 (-7.6–-0.3) |
| | Diet low in seafood omega-3 fatty acids | 0.0106 (0.00259–0.0200) | 0.00992 (0.00231–0.0204) | 12.4 (3.0–23.9) | 3.7 (0.9–7.7) | -3.7 (-6.1–-2.1) |
| | Diet low in omega-6 polyunsaturated fatty acids | 0.000329 (-0.000699–0.00165) | 0.000316 (-0.000544–0.00207) | 0.4 (-0.8–1.9) | 0.1 (-0.2–0.8) | -3.6 (-11.8–1.9) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00864 | 0.000323 | 9.9 | 0.1 | -13.3 |
| | Diet high in trans fatty acids | (0.000394–0.0168) | (0.0000174–0.000646) | (0.4–19.4) | (0.0–0.2) | (-14.7–-12.3) |
| | | 0.0171 | 0.0216 | 21.4 | 8.2 | -2.9 |
| | Diet high in sodium | (0.000105–0.0490) | (0.000114–0.0659) | (0.1–61.6) | (0.0–24.8) | (-11.4–4.7) |
| | | 0.00578 | 0.00805 | 7.9 | 3.1 | -2.9 |
| | Low physical activity | (0.00157–0.00998) | (0.00226–0.0143) | (1.9–14.7) | (0.8–5.5) | (-4.0–-1.5) |
| | | 0.0806 | 0.0833 | 102.4 | 31.5 | -3.6 |
| | Environmental/occupational risks | (0.0621–0.100) | (0.0670–0.0980) | (79.7–127.0) | (25.3–37.1) | (-4.2–-3.1) |
| | | 0.0504 | 0.0341 | 63.7 | 12.9 | -4.8 |
| | Air pollution | (0.0303–0.0713) | (0.0232–0.0448) | (38.6–90.0) | (8.8–16.9) | (-6.0–-3.8) |
| | | 0.0504 | 0.0341 | 63.7 | 12.9 | -4.8 |
| | Particulate matter pollution | (0.0303–0.0713) | (0.0232–0.0448) | (38.6–90.0) | (8.8–16.9) | (-6.0–-3.8) |
| | | 0.0259 | 0.0321 | 32.2 | 12.1 | -3.0 |
| | Ambient particulate matter pollution | (0.0101–0.0485) | (0.0223–0.0425) | (12.6–60.3) | (8.4–16.0) | (-5.0–-0.4) |
| | | 0.0245 | 0.00207 | 31.5 | 0.8 | -11.2 |
| | Household air pollution from solid fuels | (0.0154–0.0369) | (0.000246–0.00643) | (20.1–47.0) | (0.1–2.4) | (-16.2–-8.6) |
| | | 0.00791 | 0.00905 | 9.9 | 3.4 | -3.2 |
| | Non-optimal temperature | (0.00688–0.00965) | (0.00739–0.0116) | (8.4–12.1) | (2.8–4.4) | (-3.5–-3.0) |
| | | 0.0000610 | 0.000825 | 0.1 | 0.3 | |
| | High temperature | (-0.000562–0.000852) | (-0.000156–0.00235) | (-0.7–1.1) | (-0.1–0.9) | -- |
| | | 0.00786 | 0.00825 | 9.8 | 3.1 | -3.5 |
| | Low temperature | (0.00706–0.00888) | (0.00718–0.00941) | (8.7–11.1) | (2.7–3.6) | (-3.7–-3.3) |
| | | 0.0323 | 0.0483 | 41.8 | 18.2 | -2.5 |
| | Other environmental risks | (0.0244–0.0411) | (0.0372–0.0596) | (31.5–53.6) | (14.0–22.6) | (-2.7–-2.3) |
| | | 0.0323 | 0.0483 | 41.8 | 18.2 | -2.5 |
| | Lead exposure | (0.0244–0.0411) | (0.0372–0.0596) | (31.5–53.6) | (14.0–22.6) | (-2.7–-2.3) |
| **North Africa and Middle East** | | | | | | |
| | | 0.671 | 1.23 | 506.6 | 311.9 | -1.5 |
| | All risk factors | (0.608–0.734) | (1.09–1.34) | (459.0–554.9) | (275.0–340.7) | (-1.8–-1.1) |
| | | 0.575 | 1.09 | 438.3 | 277.9 | -1.4 |
| | Metabolic risks | (0.501–0.643) | (0.958–1.22) | (382.3–489.6) | (242.0–310.3) | (-1.8–-0.9) |
| | | 0.0624 | 0.183 | 51.1 | 47.8 | -0.2 |
| | High fasting plasma glucose | (0.0492–0.0804) | (0.152–0.229) | (40.5–66.5) | (39.3–59.7) | (-1.1–0.6) |
| | | 0.180 | 0.320 | 125.9 | 74.0 | -1.6 |
| | High LDL cholesterol | (0.102–0.259) | (0.209–0.449) | (70.6–188.1) | (45.7–107.9) | (-2.2–-0.9) |
| | | 0.445 | 0.837 | 344.8 | 215.7 | -1.4 |
| | High systolic blood pressure | (0.342–0.538) | (0.670–0.987) | (269.9–415.4) | (172.2–254.6) | (-2.0–-0.7) |
| | | 0.0968 | 0.295 | 65.1 | 69.0 | 0.2 |
| | High body-mass index | (0.0498–0.144) | (0.164–0.420) | (34.7–97.3) | (40.7–99.0) | (-0.7–1.0) |
| | | 0.0897 | 0.170 | 70.7 | 45.0 | -1.4 |
| | Kidney dysfunction | (0.0638–0.120) | (0.120–0.237) | (48.4–94.4) | (31.0–63.1) | (-1.8–-0.9) |
| | | 0.328 | 0.574 | 232.7 | 137.8 | -1.6 |
| | Behavioral risks | (0.177–0.426) | (0.355–0.740) | (119.2–311.0) | (79.7–179.7) | (-2.1–-1.0) |
| | | 0.135 | 0.228 | 87.6 | 49.9 | -1.7 |
| | Tobacco | (0.109–0.158) | (0.185–0.276) | (69.9–103.6) | (40.1–60.3) | (-2.5–-1.0) |
| | | 0.0964 | 0.161 | 57.3 | 32.5 | -1.7 |
| | Smoking | (0.0745–0.123) | (0.125–0.202) | (44.3–74.3) | (24.7–41.4) | (-2.9–-0.7) |
| | | 0.00190 | 0.00201 | 1.4 | 0.5 | -3.1 |
| | Chewing tobacco | (0.000778–0.00367) | (0.000951–0.00378) | (0.6–2.7) | (0.2–0.9) | (-5.1–-0.7) |
| | | 0.0434 | 0.0762 | 32.9 | 19.0 | -1.7 |
| | Secondhand smoke | (0.0315–0.0556) | (0.0560–0.0974) | (24.1–41.8) | (13.9–24.2) | (-2.3–-1.0) |
| | | 0.000298 | 0.000272 | 0.2 | 0.1 | |
| | High alcohol use | (-0.000206–0.00148) | (-0.000280–0.00215) | (0.0–0.9) | (0.0–0.5) | -- |
| | | 0.227 | 0.401 | 163.2 | 97.8 | -1.5 |
| | Dietary risks | (0.0145–0.349) | (0.0845–0.611) | (19.7–255.7) | (22.6–150.7) | (-2.3–-0.8) |
| | | 0.0403 | 0.0597 | 27.0 | 13.7 | -2.1 |
| | Diet low in fruits | (0.0183–0.0643) | (0.0253–0.109) | (12.5–43.0) | (6.1–25.2) | (-4.1–-0.1) |
| | | 0.0333 | 0.0510 | 23.9 | 12.6 | -1.9 |
| | Diet low in vegetables | (0.0198–0.0484) | (0.0277–0.0796) | (14.2–34.7) | (6.9–19.1) | (-3.2–-0.7) |
| | | 0.0267 | 0.0440 | 18.0 | 10.2 | -1.7 |
| | Diet low in legumes | (-0.0255–0.0716) | (-0.0356–0.119) | (-16.2–49.4) | (-8.0–27.7) | (-3.1–-0.8) |
| | | 0.0296 | 0.0501 | 19.5 | 11.5 | -1.6 |
| | Diet low in whole grains | (0.0121–0.0514) | (0.0187–0.0860) | (8.1–34.2) | (4.2–19.6) | (-3.4–0.3) |
| | | 0.0508 | 0.0831 | 34.1 | 18.8 | -1.8 |
| | Diet low in nuts and seeds | (0.0155–0.0832) | (0.0224–0.147) | (10.1–57.1) | (5.0–33.9) | (-3.2–-0.8) |
| | | -0.00168 | 0.0000433 | -1.0 | 0.0 | |
| | Diet high in red meat | (-0.0132–0.00709) | (-0.00980–0.00787) | (-7.4–3.7) | (-1.9–1.5) | -- |
| | | 0.00142 | 0.00372 | 0.9 | 0.8 | -0.4 |
| | Diet high in processed meat | (-0.0000701–0.00307) | (-0.000199–0.00801) | (0.0–1.9) | (0.0–1.7) | (-2.0–0.8) |
| | | 0.00191 | 0.00646 | 1.1 | 1.3 | 0.4 |
| | Diet high in sugar-sweetened beverages | (0.000558–0.00479) | (0.00229–0.0115) | (0.3–2.8) | (0.5–2.4) | (-1.6–4.0) |
| | | 0.00868 | 0.0122 | 5.9 | 2.9 | -2.2 |
| | Diet low in fiber | (0.00177–0.0244) | (0.00184–0.0341) | (1.3–16.4) | (0.5–7.9) | (-7.2–2.5) |
| | | 0.0489 | 0.0654 | 33.0 | 15.3 | -2.3 |
| | Diet low in seafood omega-3 fatty acids | (0.0124–0.0876) | (0.0169–0.121) | (8.1–60.1) | (3.7–28.8) | (-3.7–-1.2) |
| | | 0.0309 | 0.0538 | 20.8 | 12.3 | -1.6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.101–0.119) | (-0.143–0.206) | (-64.8–80.9) | (-32.1–48.3) | (-2.5–-0.8) |
| | | 0.0234 | 0.0492 | 15.5 | 10.8 | -1.1 |
| | Diet high in trans fatty acids | (0.00105–0.0505) | (0.00276–0.0934) | (0.7–33.8) | (0.6–20.5) | (-2.2–0.2) |
| | | 0.0226 | 0.0509 | 22.2 | 16.1 | -1.0 |
| | Diet high in sodium | (0.0000802–0.0916) | (0.000421–0.188) | (0.2–79.7) | (0.2–54.3) | (-5.6–5.8) |
| | | 0.0237 | 0.0415 | 17.5 | 10.4 | -1.6 |
| | Low physical activity | (0.00915–0.0377) | (0.0153–0.0663) | (5.8–30.2) | (3.3–17.2) | (-2.2–-1.0) |
| | | 0.337 | 0.613 | 254.4 | 155.9 | -1.5 |
| | Environmental/occupational risks | (0.284–0.386) | (0.516–0.716) | (210.2–289.9) | (131.2–182.0) | (-1.9–-1.1) |
| | | 0.200 | 0.318 | 150.4 | 79.4 | -1.9 |
| | Air pollution | (0.158–0.239) | (0.244–0.390) | (119.0–180.0) | (60.9–97.4) | (-2.4–-1.5) |
| | | 0.200 | 0.318 | 150.4 | 79.4 | -1.9 |
| | Particulate matter pollution | (0.158–0.239) | (0.244–0.390) | (119.0–180.0) | (60.9–97.4) | (-2.4–-1.5) |
| | | 0.111 | 0.276 | 84.2 | 69.5 | -0.6 |
| | Ambient particulate matter pollution | (0.0830–0.137) | (0.210–0.337) | (63.2–104.4) | (53.1–84.8) | (-1.2–0.1) |
| | | 0.0897 | 0.0432 | 66.2 | 10.3 | -5.6 |
| | Household air pollution from solid fuels | (0.0640–0.119) | (0.0326–0.0531) | (47.2–88.9) | (7.8–12.7) | (-6.4–-4.9) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0679 | 0.120 | 50.5 | 30.0 | -1.6 |
| | Non-optimal temperature | (0.0546–0.0876) | (0.0910–0.166) | (41.0–65.2) | (23.3–41.1) | (-2.0–-1.1) |
| | | 0.0147 | 0.0403 | 10.4 | 9.7 | -0.2 |
| | High temperature | (0.00698–0.0268) | (0.0183–0.0735) | (4.7–19.0) | (4.4–17.6) | (-0.9–0.6) |
| | | 0.0542 | 0.0817 | 40.9 | 21.0 | -2.0 |
| | Low temperature | (0.0471–0.0638) | (0.0714–0.0966) | (35.4–47.8) | (18.1–24.7) | (-2.4–-1.5) |
| | | 0.136 | 0.307 | 104.4 | 79.7 | -0.8 |
| | Other environmental risks | (0.103–0.168) | (0.240–0.376) | (78.8–129.5) | (61.5–97.8) | (-1.4–-0.3) |
| | | 0.136 | 0.307 | 104.4 | 79.7 | -0.8 |
| | Lead exposure | (0.103–0.168) | (0.240–0.376) | (78.8–129.5) | (61.5–97.8) | (-1.4–-0.3) |
| **South Asia** | | | | | | |
| | | 1.22 | 3.27 | 245.3 | 237.0 | -0.1 |
| | All risk factors | (0.972–1.43) | (2.84–3.76) | (195.7–287.2) | (205.0–271.5) | (-0.8–0.7) |
| | | 0.948 | 2.66 | 194.1 | 194.1 | 0.0 |
| | Metabolic risks | (0.741–1.16) | (2.21–3.14) | (153.6–235.0) | (161.9–230.2) | (-0.7–0.8) |
| | | 0.0959 | 0.343 | 21.1 | 25.7 | 0.6 |
| | High fasting plasma glucose | (0.0675–0.132) | (0.270–0.456) | (14.7–28.8) | (20.0–33.8) | (-0.4–1.6) |
| | | 0.268 | 0.737 | 48.0 | 49.9 | 0.1 |
| | High LDL cholesterol | (0.159–0.406) | (0.468–1.04) | (26.9–76.2) | (30.6–72.1) | (-0.8–1.2) |
| | | 0.708 | 1.99 | 148.8 | 146.8 | 0.0 |
| | High systolic blood pressure | (0.491–0.953) | (1.52–2.49) | (104.8–195.3) | (112.6–183.8) | (-0.9–1.2) |
| | | 0.0247 | 0.236 | 4.3 | 15.5 | 3.9 |
| | High body-mass index | (0.0128–0.0402) | (0.132–0.347) | (2.2–7.0) | (8.9–22.6) | (2.6–5.2) |
| | | 0.186 | 0.489 | 39.3 | 36.9 | -0.2 |
| | Kidney dysfunction | (0.133–0.242) | (0.358–0.625) | (27.6–51.6) | (26.9–47.3) | (-0.9–0.6) |
| | | 0.781 | 1.88 | 149.5 | 131.5 | -0.4 |
| | Behavioral risks | (0.408–1.05) | (1.04–2.45) | (81.5–200.7) | (75.1–173.3) | (-1.1–0.4) |
| | | 0.310 | 0.635 | 58.1 | 44.1 | -0.8 |
| | Tobacco | (0.238–0.392) | (0.521–0.775) | (45.6–72.6) | (35.7–53.9) | (-1.6–0.1) |
| | | 0.193 | 0.360 | 34.1 | 24.0 | -1.1 |
| | Smoking | (0.139–0.253) | (0.284–0.458) | (24.6–44.9) | (18.5–30.8) | (-2.0–0.0) |
| | | 0.0518 | 0.126 | 10.7 | 9.3 | -0.4 |
| | Chewing tobacco | (0.0257–0.0925) | (0.0614–0.208) | (5.3–18.9) | (4.5–15.3) | (-2.5–1.5) |
| | | 0.0857 | 0.184 | 17.1 | 13.2 | -0.8 |
| | Secondhand smoke | (0.0619–0.113) | (0.135–0.235) | (12.2–22.5) | (9.6–16.9) | (-1.7–0.1) |
| | | -0.000688 | 0.00382 | 0.1 | 0.3 | |
| | High alcohol use | (-0.0114–0.0143) | (-0.00865–0.0296) | (-1.5–2.3) | (-0.4–1.9) | -- |
| | | 0.602 | 1.45 | 113.0 | 100.7 | -0.3 |
| | Dietary risks | (0.138–0.903) | (0.388–2.10) | (29.4–169.4) | (28.0–145.6) | (-1.1–0.5) |
| | | 0.217 | 0.528 | 39.4 | 36.0 | -0.3 |
| | Diet low in fruits | (0.0770–0.362) | (0.208–0.830) | (15.3–64.5) | (15.2–56.7) | (-1.0–0.6) |
| | | 0.101 | 0.223 | 19.9 | 16.3 | -0.6 |
| | Diet low in vegetables | (0.0553–0.156) | (0.130–0.321) | (11.5–30.6) | (9.7–23.2) | (-1.7–0.5) |
| | | 0.0457 | 0.0964 | 8.1 | 6.4 | -0.7 |
| | Diet low in legumes | (-0.0421–0.128) | (-0.0787–0.254) | (-7.5–23.4) | (-5.1–17.1) | (-2.1–0.5) |
| | | 0.0814 | 0.210 | 14.3 | 13.9 | -0.1 |
| | Diet low in whole grains | (0.0343–0.140) | (0.0919–0.336) | (5.9–24.9) | (5.9–22.2) | (-1.9–1.8) |
| | | 0.127 | 0.272 | 22.2 | 18.0 | -0.6 |
| | Diet low in nuts and seeds | (0.0400–0.214) | (0.0809–0.461) | (6.8–38.2) | (5.2–30.8) | (-1.9–0.5) |
| | | -0.00136 | -0.00336 | -0.2 | -0.2 | |
| | Diet high in red meat | (-0.00641–0.00163) | (-0.0158–0.00509) | (-1.1–0.3) | (-1.0–0.3) | -- |
| | | 0.00187 | 0.00702 | 0.3 | 0.5 | 1.1 |
| | Diet high in processed meat | (-0.000146–0.00408) | (-0.000404–0.0165) | (0.0–0.7) | (0.0–1.1) | (-0.7–3.4) |
| | | 0.00168 | 0.00824 | 0.3 | 0.5 | 2.0 |
| | Diet high in sugar-sweetened beverages | (0.000379–0.00489) | (0.00141–0.0251) | (0.1–0.7) | (0.1–1.6) | (-2.0–6.8) |
| | | 0.0692 | 0.126 | 12.2 | 8.4 | -1.1 |
| | Diet low in fiber | (0.0247–0.142) | (0.0359–0.266) | (4.4–24.9) | (2.4–17.8) | (-3.9–1.2) |
| | | 0.108 | 0.166 | 18.8 | 11.2 | -1.6 |
| | Diet low in seafood omega-3 fatty acids | (0.0248–0.199) | (0.0432–0.309) | (4.1–35.3) | (2.8–20.9) | (-3.2–-0.3) |
| | | 0.0797 | 0.184 | 14.0 | 12.3 | -0.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.277–0.317) | (-0.592–0.720) | (-47.2–56.8) | (-38.8–48.3) | (-1.3–0.5) |
| | | 0.0835 | 0.155 | 14.4 | 10.3 | -1.0 |
| | Diet high in trans fatty acids | (0.00372–0.172) | (0.00870–0.296) | (0.6–30.1) | (0.6–19.5) | (-2.2–0.3) |
| | | 0.0746 | 0.212 | 14.8 | 14.9 | 0.0 |
| | Diet high in sodium | (0.000670–0.239) | (0.00325–0.695) | (0.1–48.3) | (0.2–49.1) | (-5.2–6.5) |
| | | 0.0262 | 0.0665 | 5.8 | 5.2 | -0.3 |
| | Low physical activity | (0.0104–0.0440) | (0.0218–0.121) | (2.1–10.1) | (1.5–9.7) | (-1.6–0.9) |
| | | 0.725 | 1.87 | 145.3 | 134.9 | -0.2 |
| | Environmental/occupational risks | (0.544–0.891) | (1.52–2.22) | (108.3–177.9) | (108.8–160.1) | (-0.9–0.6) |
| | | 0.511 | 1.18 | 102.0 | 84.6 | -0.6 |
| | Air pollution | (0.369–0.644) | (0.937–1.47) | (72.6–128.9) | (66.6–105.7) | (-1.2–0.3) |
| | | 0.511 | 1.18 | 102.0 | 84.6 | -0.6 |
| | Particulate matter pollution | (0.369–0.644) | (0.937–1.47) | (72.6–128.9) | (66.6–105.7) | (-1.2–0.3) |
| | | 0.0965 | 0.599 | 19.1 | 42.9 | 2.4 |
| | Ambient particulate matter pollution | (0.0520–0.158) | (0.438–0.797) | (10.4–31.4) | (31.1–56.5) | (1.1–4.2) |
| | | 0.415 | 0.586 | 82.8 | 41.8 | -2.1 |
| | Household air pollution from solid fuels | (0.298–0.531) | (0.413–0.777) | (59.5–105.8) | (29.3–55.1) | (-2.9–-1.2) |
| | | 0.0810 | 0.240 | 16.1 | 17.2 | 0.2 |
| | Non-optimal temperature | (0.0521–0.118) | (0.160–0.338) | (10.3–23.2) | (11.5–24.1) | (-0.5–1.1) |
| | | 0.0286 | 0.115 | 5.6 | 8.3 | 1.2 |
| | High temperature | (0.0121–0.0473) | (0.0628–0.177) | (2.4–9.3) | (4.6–12.7) | (0.4–2.5) |
| | | 0.0541 | 0.130 | 10.8 | 9.3 | -0.4 |
| | Low temperature | (0.0375–0.0731) | (0.0966–0.170) | (7.6–14.5) | (7.0–12.1) | (-1.1–0.4) |
| | | 0.291 | 0.858 | 59.1 | 62.9 | 0.2 |
| | Other environmental risks | (0.207–0.370) | (0.602–1.10) | (41.3–76.3) | (43.6–81.1) | (-0.6–1.0) |
| | | 0.291 | 0.858 | 59.1 | 62.9 | 0.2 |
| | Lead exposure | (0.207–0.370) | (0.602–1.10) | (41.3–76.3) | (43.6–81.1) | (-0.6–1.0) |
| **Southeast Asia, East Asia, and Oceania** | | | | | | |
| | | 3.45 | 5.50 | 378.5 | 190.7 | -2.1 |
| | All risk factors | (2.97–3.87) | (4.76–6.04) | (329.2–424.0) | (164.5–209.5) | (-2.5–-1.6) |
| | | 2.70 | 4.68 | 298.9 | 162.2 | -1.9 |
| | Metabolic risks | (2.08–3.25) | (4.00–5.39) | (232.1–357.8) | (137.5–186.5) | (-2.4–-1.2) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.275 | 0.627 | 31.3 | 22.0 | -1.1 |
| | High fasting plasma glucose | (0.188–0.411) | (0.503–0.770) | (22.1–45.6) | (17.6–27.0) | (-2.1–0.0) |
| | | 0.524 | 1.15 | 54.5 | 39.7 | -1.0 |
| | High LDL cholesterol | (0.291–0.811) | (0.706–1.71) | (29.4–87.6) | (24.2–59.4) | (-1.7–0.0) |
| | | 2.21 | 3.75 | 247.2 | 130.0 | -1.9 |
| | High systolic blood pressure | (1.52–2.88) | (2.90–4.58) | (172.3–317.2) | (100.1–159.5) | (-2.8–-1.0) |
| | | 0.124 | 0.360 | 11.2 | 12.1 | 0.2 |
| | High body-mass index | (0.0725–0.195) | (0.204–0.556) | (6.5–19.0) | (6.8–18.9) | (-1.1–1.5) |
| | | 0.357 | 0.692 | 40.5 | 24.1 | -1.6 |
| | Kidney dysfunction | (0.254–0.477) | (0.476–0.914) | (28.1–54.9) | (16.4–32.1) | (-2.1–-1.0) |
| | | 2.01 | 2.92 | 206.9 | 99.6 | -2.2 |
| | Behavioral risks | (1.47–2.51) | (2.02–3.64) | (149.6–261.7) | (68.3–124.5) | (-2.8–-1.7) |
| | | 0.900 | 1.28 | 87.9 | 43.1 | -2.2 |
| | Tobacco | (0.728–1.09) | (1.09–1.51) | (71.2–106.4) | (36.5–50.7) | (-2.8–-1.5) |
| | | 0.694 | 0.961 | 64.4 | 31.7 | -2.1 |
| | Smoking | (0.550–0.892) | (0.785–1.16) | (50.9–83.2) | (25.9–38.4) | (-2.9–-1.2) |
| | | 0.0130 | 0.0197 | 1.5 | 0.7 | -2.4 |
| | Chewing tobacco | (0.00452–0.0271) | (0.00801–0.0402) | (0.5–3.0) | (0.3–1.4) | (-5.0–0.6) |
| | | 0.231 | 0.354 | 25.7 | 12.4 | -2.2 |
| | Secondhand smoke | (0.162–0.305) | (0.253–0.449) | (18.1–34.0) | (8.7–15.8) | (-2.9–-1.5) |
| | | 0.0594 | 0.0741 | 6.2 | 2.5 | -2.8 |
| | High alcohol use | (-0.000482–0.140) | (0.000996–0.175) | (0.5–14.1) | (0.0–5.8) | (-5.5–-0.5) |
| | | 1.39 | 1.97 | 143.1 | 67.3 | -2.3 |
| | Dietary risks | (0.606–2.01) | (0.858–2.83) | (59.7–209.0) | (29.2–97.4) | (-3.1–-1.5) |
| | | 0.409 | 0.448 | 40.9 | 15.4 | -3.0 |
| | Diet low in fruits | (0.141–0.645) | (0.165–0.761) | (15.6–64.7) | (5.8–26.0) | (-4.2–-2.0) |
| | | 0.136 | 0.124 | 14.9 | 4.2 | -3.8 |
| | Diet low in vegetables | (0.0652–0.213) | (0.0678–0.200) | (7.0–23.0) | (2.3–6.8) | (-5.1–-2.3) |
| | | 0.0947 | 0.195 | 9.6 | 6.8 | -1.1 |
| | Diet low in legumes | (-0.0894–0.244) | (-0.146–0.516) | (-8.8–25.3) | (-5.1–18.0) | (-2.3–-0.1) |
| | | 0.163 | 0.331 | 16.3 | 11.4 | -1.1 |
| | Diet low in whole grains | (0.0488–0.276) | (0.138–0.534) | (5.5–27.8) | (4.7–18.3) | (-2.3–0.5) |
| | | 0.131 | 0.184 | 13.3 | 6.4 | -2.2 |
| | Diet low in nuts and seeds | (0.0373–0.219) | (0.0476–0.353) | (3.7–22.7) | (1.7–12.3) | (-4.6–-0.5) |
| | | -0.0651 | -0.0229 | -5.6 | -0.7 | |
| | Diet high in red meat | (-0.381–0.124) | (-0.262–0.158) | (-33.1–10.6) | (-8.5–5.2) | -- |
| | | 0.00303 | 0.0129 | 0.3 | 0.4 | 1.2 |
| | Diet high in processed meat | (0.000262–0.00584) | (-0.000102–0.0300) | (0.0–0.6) | (0.0–1.0) | (-1.0–3.1) |
| | | 0.00159 | 0.0144 | 0.1 | 0.5 | 3.8 |
| | Diet high in sugar-sweetened beverages | (0.000518–0.00369) | (0.00560–0.0308) | (0.0–0.3) | (0.2–1.1) | (1.2–7.8) |
| | | 0.171 | 0.171 | 16.6 | 5.9 | -3.1 |
| | Diet low in fiber | (0.0199–0.396) | (0.0294–0.410) | (2.4–38.3) | (1.0–14.2) | (-6.3–-0.1) |
| | | 0.0937 | 0.0894 | 9.6 | 3.2 | -3.4 |
| | Diet low in seafood omega-3 fatty acids | (0.0212–0.174) | (0.0168–0.218) | (2.2–18.1) | (0.6–7.7) | (-7.0–-1.1) |
| | | 0.0766 | 0.105 | 7.7 | 3.6 | -2.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.219–0.288) | (-0.227–0.455) | (-21.3–29.7) | (-7.7–15.6) | (-3.8–-1.0) |
| | | 0.0568 | 0.104 | 5.7 | 3.6 | -1.4 |
| | Diet high in trans fatty acids | (0.00241–0.118) | (0.00511–0.215) | (0.2–11.9) | (0.2–7.4) | (-2.7–0.1) |
| | | 0.726 | 0.876 | 72.8 | 29.2 | -2.8 |
| | Diet high in sodium | (0.199–1.36) | (0.193–1.82) | (16.7–141.4) | (6.0–61.2) | (-5.2–-1.2) |
| | | 0.0582 | 0.126 | 6.7 | 4.4 | -1.2 |
| | Low physical activity | (0.0199–0.103) | (0.0400–0.227) | (1.7–12.4) | (1.4–8.2) | (-2.2–0.2) |
| | | 1.95 | 2.72 | 213.5 | 94.8 | -2.5 |
| | Environmental/occupational risks | (1.52–2.36) | (2.17–3.21) | (169.1–255.5) | (76.2–112.2) | (-3.0–-1.9) |
| | | 1.45 | 1.61 | 158.7 | 56.0 | -3.2 |
| | Air pollution | (1.05–1.84) | (1.20–2.01) | (115.7–200.4) | (42.2–69.7) | (-3.8–-2.5) |
| | | 1.45 | 1.61 | 158.7 | 56.0 | -3.2 |
| | Particulate matter pollution | (1.05–1.84) | (1.20–2.01) | (115.7–200.4) | (42.2–69.7) | (-3.8–-2.5) |
| | | 0.314 | 1.30 | 34.0 | 45.2 | 0.9 |
| | Ambient particulate matter pollution | (0.161–0.519) | (0.976–1.63) | (17.4–55.9) | (33.9–57.0) | (-0.7–2.5) |
| | | 1.14 | 0.323 | 124.7 | 11.1 | -7.3 |
| | Household air pollution from solid fuels | (0.773–1.48) | (0.132–0.643) | (85.5–161.3) | (4.4–22.3) | (-9.8–-5.3) |
| | | 0.283 | 0.398 | 30.8 | 14.0 | -2.4 |
| | Non-optimal temperature | (0.230–0.347) | (0.337–0.483) | (25.3–37.7) | (11.7–17.1) | (-2.9–-1.9) |
| | | 0.0177 | 0.0531 | 2.0 | 1.9 | -0.2 |
| | High temperature | (0.000620–0.0452) | (0.0220–0.109) | (0.1–5.1) | (0.8–3.8) | (-1.6–7.1) |
| | | 0.266 | 0.348 | 29.0 | 12.2 | -2.6 |
| | Low temperature | (0.226–0.308) | (0.299–0.392) | (24.6–33.3) | (10.4–13.9) | (-3.1–-2.1) |
| | | 0.544 | 1.21 | 61.0 | 42.7 | -1.1 |
| | Other environmental risks | (0.308–0.809) | (0.852–1.56) | (35.1–90.2) | (30.0–54.8) | (-1.8–-0.2) |
| | | 0.544 | 1.21 | 61.0 | 42.7 | -1.1 |
| | Lead exposure | (0.308–0.809) | (0.852–1.56) | (35.1–90.2) | (30.0–54.8) | (-1.8–-0.2) |
| **East Asia** | | | | | | |
| | | 2.79 | 4.04 | 407.7 | 179.9 | -2.5 |
| | All risk factors | (2.37–3.19) | (3.49–4.53) | (346.7–463.8) | (154.9–200.8) | (-3.0–-1.9) |
| | | 2.15 | 3.41 | 317.4 | 151.9 | -2.2 |
| | Metabolic risks | (1.63–2.66) | (2.78–4.04) | (242.3–387.5) | (123.7–178.9) | (-2.9–-1.5) |
| | | 0.229 | 0.507 | 34.4 | 22.6 | -1.3 |
| | High fasting plasma glucose | (0.156–0.349) | (0.403–0.629) | (24.2–51.0) | (17.8–28.2) | (-2.4–-0.2) |
| | | 0.395 | 0.828 | 54.4 | 36.8 | -1.2 |
| | High LDL cholesterol | (0.219–0.621) | (0.494–1.24) | (28.9–88.0) | (22.1–55.3) | (-2.0–-0.2) |
| | | 1.76 | 2.73 | 262.2 | 121.4 | -2.3 |
| | High systolic blood pressure | (1.15–2.35) | (1.99–3.49) | (174.6–344.9) | (88.2–156.1) | (-3.4–-1.2) |
| | | 0.104 | 0.254 | 12.3 | 11.0 | -0.3 |
| | High body-mass index | (0.0618–0.166) | (0.140–0.402) | (7.1–20.8) | (6.0–17.7) | (-1.9–1.1) |
| | | 0.266 | 0.475 | 40.5 | 21.4 | -1.9 |
| | Kidney dysfunction | (0.186–0.358) | (0.320–0.646) | (26.9–56.2) | (14.3–29.1) | (-2.6–-1.2) |
| | | 1.61 | 2.11 | 220.3 | 92.9 | -2.6 |
| | Behavioral risks | (1.17–2.04) | (1.51–2.68) | (159.5–282.4) | (65.9–118.3) | (-3.3–-2.0) |
| | | 0.726 | 0.938 | 92.9 | 40.7 | -2.5 |
| | Tobacco | (0.580–0.911) | (0.771–1.13) | (74.2–114.7) | (33.3–49.2) | (-3.2–-1.8) |
| | | 0.565 | 0.710 | 68.6 | 30.4 | -2.5 |
| | Smoking | (0.438–0.747) | (0.558–0.881) | (52.9–91.3) | (23.8–37.6) | (-3.4–-1.5) |
| | | 0.00419 | 0.00580 | 0.6 | 0.3 | -2.4 |
| | Chewing tobacco | (0.00136–0.00937) | (0.00176–0.0135) | (0.2–1.3) | (0.1–0.6) | (-5.5–1.2) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.185 | 0.259 | 27.4 | 11.6 | -2.6 |
| | Secondhand smoke | (0.130–0.250) | (0.180–0.336) | (19.2–36.9) | (8.0–15.0) | (-3.4–-1.8) |
| | | 0.0586 | 0.0642 | 8.0 | 2.7 | -3.3 |
| | High alcohol use | (0.00251–0.136) | (0.00436–0.152) | (0.9–17.9) | (0.1–6.5) | (-6.0–-1.1) |
| | | 1.10 | 1.40 | 151.1 | 61.7 | -2.7 |
| | Dietary risks | (0.549–1.61) | (0.668–2.00) | (72.2–223.6) | (29.2–88.9) | (-3.5–-1.9) |
| | | 0.335 | 0.309 | 45.0 | 13.8 | -3.6 |
| | Diet low in fruits | (0.121–0.546) | (0.114–0.526) | (18.0–72.4) | (5.1–23.4) | (-5.0–-2.5) |
| | | 0.0762 | 0.0294 | 12.2 | 1.4 | -6.7 |
| | Diet low in vegetables | (0.0251–0.131) | (0.00789–0.0712) | (4.5–20.3) | (0.4–3.3) | (-10.3–-3.4) |
| | | 0.0708 | 0.137 | 9.7 | 6.2 | -1.4 |
| | Diet low in legumes | (-0.0626–0.186) | (-0.100–0.370) | (-8.4–26.2) | (-4.5–16.7) | (-2.7–-0.3) |
| | | 0.116 | 0.215 | 15.4 | 9.6 | -1.4 |
| | Diet low in whole grains | (0.0311–0.208) | (0.0822–0.355) | (4.7–27.7) | (3.7–15.8) | (-3.1–0.6) |
| | | 0.0959 | 0.115 | 13.2 | 5.2 | -2.8 |
| | Diet low in nuts and seeds | (0.0264–0.167) | (0.0259–0.232) | (3.5–23.4) | (1.2–10.5) | (-6.1–-0.8) |
| | | -0.0620 | -0.0126 | -6.9 | -0.5 | |
| | Diet high in red meat | (-0.365–0.117) | (-0.219–0.128) | (-41.4–13.0) | (-9.4–5.6) | -- |
| | | 0.00232 | 0.0101 | 0.3 | 0.4 | 1.2 |
| | Diet high in processed meat | (0.000373–0.00447) | (0.000227–0.0239) | (0.1–0.6) | (0.0–1.1) | (-1.2–3.2) |
| | | 0.000942 | 0.00986 | 0.1 | 0.4 | 4.1 |
| | Diet high in sugar-sweetened beverages | (0.000321–0.00207) | (0.00361–0.0221) | (0.0–0.2) | (0.2–1.0) | (1.0–8.2) |
| | | 0.111 | 0.0661 | 14.6 | 3.1 | -4.7 |
| | Diet low in fiber | (0.00740–0.281) | (0.00543–0.204) | (1.4–37.0) | (0.3–9.3) | (-10.8–0.0) |
| | | 0.0812 | 0.0822 | 11.2 | 3.8 | -3.3 |
| | Diet low in seafood omega-3 fatty acids | (0.0181–0.153) | (0.0160–0.196) | (2.5–21.1) | (0.7–8.9) | (-6.9–-1.2) |
| | | 0.0521 | 0.0412 | 7.1 | 1.9 | -4.1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.137–0.195) | (-0.0762–0.203) | (-17.8–27.3) | (-3.4–9.2) | (-9.9–-1.8) |
| | | 0.0461 | 0.0906 | 6.2 | 4.1 | -1.3 |
| | Diet high in trans fatty acids | (0.00194–0.0966) | (0.00442–0.189) | (0.3–13.0) | (0.2–8.4) | (-2.6–0.2) |
| | | 0.613 | 0.680 | 80.9 | 29.2 | -3.1 |
| | Diet high in sodium | (0.184–1.13) | (0.172–1.37) | (20.0–155.7) | (7.0–60.0) | (-5.1–-1.4) |
| | | 0.0459 | 0.0951 | 7.0 | 4.3 | -1.5 |
| | Low physical activity | (0.0159–0.0830) | (0.0292–0.184) | (1.9–13.5) | (1.3–8.4) | (-2.8–0.2) |
| | | 1.62 | 2.12 | 236.4 | 94.8 | -2.8 |
| | Environmental/occupational risks | (1.25–1.97) | (1.74–2.52) | (185.7–286.1) | (78.1–112.1) | (-3.3–-2.2) |
| | | 1.19 | 1.23 | 172.8 | 54.7 | -3.5 |
| | Air pollution | (0.850–1.54) | (0.915–1.54) | (124.7–220.0) | (40.6–68.4) | (-4.2–-2.8) |
| | | 1.19 | 1.23 | 172.8 | 54.7 | -3.5 |
| | Particulate matter pollution | (0.850–1.54) | (0.915–1.54) | (124.7–220.0) | (40.6–68.4) | (-4.2–-2.8) |
| | | 0.255 | 1.07 | 36.8 | 47.7 | 0.8 |
| | Ambient particulate matter pollution | (0.114–0.450) | (0.803–1.34) | (16.2–64.7) | (35.8–59.7) | (-1.0–2.8) |
| | | 0.937 | 0.165 | 135.9 | 7.3 | -8.9 |
| | Household air pollution from solid fuels | (0.628–1.22) | (0.0372–0.414) | (93.4–176.3) | (1.6–18.4) | (-13.3–-6.1) |
| | | 0.271 | 0.366 | 39.4 | 16.3 | -2.7 |
| | Non-optimal temperature | (0.220–0.331) | (0.309–0.445) | (32.3–47.8) | (13.6–20.0) | (-3.2–-2.1) |
| | | 0.0141 | 0.0342 | 2.1 | 1.5 | |
| | High temperature | (-0.00167–0.0403) | (0.00706–0.0850) | (-0.2–6.0) | (0.3–3.9) | -- |
| | | 0.258 | 0.335 | 37.5 | 14.9 | -2.8 |
| | Low temperature | (0.219–0.298) | (0.288–0.377) | (31.6–43.0) | (12.7–16.9) | (-3.3–-2.3) |
| | | 0.450 | 0.956 | 67.6 | 43.0 | -1.4 |
| | Other environmental risks | (0.241–0.677) | (0.683–1.22) | (37.1–100.2) | (31.0–55.3) | (-2.1–-0.2) |
| | | 0.450 | 0.956 | 67.6 | 43.0 | -1.4 |
| | Lead exposure | (0.241–0.677) | (0.683–1.22) | (37.1–100.2) | (31.0–55.3) | (-2.1–-0.2) |
| **Oceania** | | | | | | |
| | | 0.00801 | 0.0234 | 338.8 | 338.3 | 0.0 |
| | All risk factors | (0.00646–0.00970) | (0.0201–0.0270) | (279.7–404.4) | (289.4–388.5) | (-0.6–0.6) |
| | | 0.00609 | 0.0192 | 263.0 | 278.5 | 0.2 |
| | Metabolic risks | (0.00486–0.00755) | (0.0160–0.0230) | (209.9–319.6) | (231.3–330.9) | (-0.5–0.8) |
| | | 0.000609 | 0.00203 | 29.1 | 32.0 | 0.3 |
| | High fasting plasma glucose | (0.000424–0.000897) | (0.00155–0.00280) | (20.9–41.3) | (24.1–43.7) | (-0.7–1.3) |
| | | 0.00204 | 0.00619 | 76.5 | 78.8 | 0.1 |
| | High LDL cholesterol | (0.00125–0.00281) | (0.00420–0.00843) | (43.7–108.8) | (51.0–110.7) | (-0.7–0.9) |
| | | 0.00411 | 0.0140 | 186.9 | 209.2 | 0.3 |
| | High systolic blood pressure | (0.00298–0.00552) | (0.0102–0.0178) | (136.0–245.5) | (153.2–263.3) | (-0.7–1.4) |
| | | 0.000934 | 0.00361 | 31.7 | 41.4 | 0.8 |
| | High body-mass index | (0.000481–0.00140) | (0.00178–0.00557) | (16.7–47.5) | (20.6–63.6) | (-0.1–1.8) |
| | | 0.00105 | 0.00322 | 48.1 | 50.8 | 0.2 |
| | Kidney dysfunction | (0.000772–0.00139) | (0.00245–0.00427) | (35.4–64.4) | (37.9–68.3) | (-0.4–0.7) |
| | | 0.00522 | 0.0149 | 202.7 | 198.2 | -0.1 |
| | Behavioral risks | (0.00330–0.00690) | (0.00882–0.0192) | (119.7–269.7) | (117.5–260.0) | (-0.7–0.5) |
| | | 0.00216 | 0.00586 | 75.8 | 70.9 | -0.2 |
| | Tobacco | (0.00160–0.00279) | (0.00476–0.00726) | (57.2–97.4) | (57.1–88.0) | (-1.1–0.6) |
| | | 0.00156 | 0.00397 | 49.0 | 42.3 | -0.4 |
| | Smoking | (0.00109–0.00210) | (0.00307–0.00525) | (33.8–68.4) | (31.7–57.7) | (-1.8–0.8) |
| | | 0.0000309 | 0.0000937 | 0.9 | 0.9 | 0.1 |
| | Chewing tobacco | (0.0000111–0.0000673) | (0.0000323–0.000197) | (0.3–1.9) | (0.3–1.9) | (-2.8–3.5) |
| | | 0.000711 | 0.00217 | 30.3 | 31.7 | 0.1 |
| | Secondhand smoke | (0.000501–0.000966) | (0.00157–0.00281) | (21.6–40.6) | (23.1–41.2) | (-0.7–0.9) |
| | | 0.00000779 | 0.00000791 | 0.4 | 0.3 | |
| | High alcohol use | (-0.0000252–0.0000677) | (-0.0000772–0.000193) | (-0.5–2.4) | (-0.6–2.2) | -- |
| | | 0.00405 | 0.0118 | 158.5 | 158.2 | 0.0 |
| | Dietary risks | (0.00133–0.00585) | (0.00413–0.0171) | (51.7–234.0) | (57.3–230.5) | (-0.9–0.8) |
| | | 0.000941 | 0.00221 | 33.5 | 27.2 | -0.6 |
| | Diet low in fruits | (0.000340–0.00161) | (0.000698–0.00401) | (12.5–56.0) | (8.9–49.4) | (-2.2–0.8) |
| | | 0.00113 | 0.00299 | 41.8 | 38.0 | -0.3 |
| | Diet low in vegetables | (0.000489–0.00176) | (0.00129–0.00474) | (19.4–65.8) | (17.1–59.8) | (-1.2–0.4) |
| | | 0.000335 | 0.00117 | 12.2 | 14.7 | 0.6 |
| | Diet low in legumes | (-0.000267–0.000944) | (-0.000997–0.00301) | (-10.1–34.3) | (-12.1–38.7) | (-0.9–1.9) |
| | | 0.00101 | 0.00311 | 36.0 | 38.5 | 0.2 |
| | Diet low in whole grains | (0.000509–0.00156) | (0.00175–0.00447) | (18.5–55.9) | (21.4–56.6) | (-0.7–1.0) |
| | | 0.000773 | 0.00275 | 27.5 | 33.8 | 0.6 |
| | Diet low in nuts and seeds | (0.000217–0.00133) | (0.000819–0.00456) | (7.2–46.5) | (9.5–56.4) | (-0.6–1.9) |
| | | -0.0000557 | -0.0000690 | -1.8 | -0.9 | |
| | Diet high in red meat | (-0.000471–0.000215) | (-0.000695–0.000485) | (-14.1–6.2) | (-7.6–5.1) | -- |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0000148 | 0.0000521 | 0.5 | 0.6 | 0.6 |
| | Diet high in processed meat | (-0.00000195–0.0000323) | (-0.00000840–0.000126) | (0.0–1.1) | (-0.1–1.5) | (-1.2–2.4) |
| | | 0.0000233 | 0.0000887 | 0.7 | 1.0 | 1.0 |
| | Diet high in sugar-sweetened beverages | (0.00000475–0.0000713) | (0.0000167–0.000283) | (0.1–2.1) | (0.2–3.0) | (-3.1–5.7) |
| | | 0.000110 | 0.000148 | 4.0 | 1.9 | -2.2 |
| | Diet low in fiber | (0.0000349–0.000262) | (0.0000114–0.000571) | (1.2–9.6) | (0.2–7.2) | (-9.2–2.5) |
| | | 0.000276 | 0.000972 | 9.9 | 12.2 | 0.6 |
| | Diet low in seafood omega-3 fatty acids | (0.0000557–0.000614) | (0.000242–0.00201) | (2.1–22.1) | (3.0–25.7) | (-2.0–3.2) |
| | | 0.000367 | 0.00141 | 13.0 | 17.5 | 0.9 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.00107–0.00142) | (-0.00452–0.00514) | (-36.1–50.3) | (-51.2–64.4) | (-0.1–1.9) |
| | | 0.000235 | 0.000636 | 8.2 | 7.7 | -0.2 |
| | Diet high in trans fatty acids | (0.0000105–0.000523) | (0.0000379–0.00129) | (0.4–18.3) | (0.4–15.8) | (-1.6–1.4) |
| | | 0.000879 | 0.00226 | 40.8 | 35.1 | -0.5 |
| | Diet high in sodium | (0.0000670–0.00210) | (0.000129–0.00600) | (2.9–96.6) | (1.9–90.2) | (-5.4–2.8) |
| | | 0.000110 | 0.000328 | 4.7 | 4.7 | 0.1 |
| | Low physical activity | (0.0000414–0.000170) | (0.000118–0.000538) | (1.6–8.0) | (1.7–8.3) | (-1.0–1.2) |
| | | 0.00396 | 0.0110 | 168.0 | 161.7 | -0.1 |
| | Environmental/occupational risks | (0.00295–0.00500) | (0.00854–0.0134) | (123.3–210.9) | (126.2–195.9) | (-0.7–0.5) |
| | | 0.00325 | 0.00847 | 137.6 | 122.5 | -0.4 |
| | Air pollution | (0.00235–0.00415) | (0.00643–0.0107) | (98.7–173.9) | (93.4–155.7) | (-1.0–0.3) |
| | | 0.00325 | 0.00847 | 137.6 | 122.5 | -0.4 |
| | Particulate matter pollution | (0.00235–0.00415) | (0.00643–0.0107) | (98.7–173.9) | (93.4–155.7) | (-1.0–0.3) |
| | | 0.000243 | 0.000845 | 9.9 | 12.2 | 0.6 |
| | Ambient particulate matter pollution | (0.0000748–0.000614) | (0.000600–0.00110) | (3.1–24.5) | (8.7–16.2) | (-2.1–4.1) |
| | | 0.00301 | 0.00764 | 127.8 | 110.4 | -0.4 |
| | Household air pollution from solid fuels | (0.00213–0.00391) | (0.00575–0.00970) | (91.2–163.8) | (83.7–139.2) | (-1.1–0.2) |
| | | 0.000303 | 0.000829 | 11.9 | 11.9 | 0.0 |
| | Non-optimal temperature | (0.000227–0.000379) | (0.000690–0.000998) | (9.1–14.6) | (9.9–14.3) | (-0.7–0.7) |
| | | -0.00000275 | 0.0000113 | -0.1 | 0.2 | |
| | High temperature | (-0.0000179–0.00000234) | (-0.00000990–0.0000201) | (-0.7–0.1) | (-0.1–0.3) | -- |
| | | 0.000306 | 0.000818 | 12.0 | 11.7 | -0.1 |
| | Low temperature | (0.000237–0.000379) | (0.000678–0.000988) | (9.4–14.6) | (9.7–14.1) | (-0.7–0.7) |
| | | 0.000871 | 0.00321 | 38.2 | 50.0 | 0.8 |
| | Other environmental risks | (0.000600–0.00114) | (0.00235–0.00419) | (26.7–49.8) | (36.2–64.5) | (0.1–1.6) |
| | | 0.000871 | 0.00321 | 38.2 | 50.0 | 0.8 |
| | Lead exposure | (0.000600–0.00114) | (0.00235–0.00419) | (26.7–49.8) | (36.2–64.5) | (0.1–1.6) |
| **Southeast Asia** | | | | | | |
| | | 0.651 | 1.43 | 297.5 | 214.5 | -1.0 |
| | All risk factors | (0.541–0.741) | (1.28–1.58) | (247.3–338.0) | (190.0–236.2) | (-1.4–-0.5) |
| | | 0.542 | 1.25 | 249.8 | 186.6 | -0.9 |
| | Metabolic risks | (0.442–0.640) | (1.06–1.42) | (207.5–290.0) | (159.9–213.1) | (-1.3–-0.2) |
| | | 0.0450 | 0.118 | 22.6 | 18.7 | -0.6 |
| | High fasting plasma glucose | (0.0333–0.0610) | (0.0940–0.154) | (16.4–30.4) | (15.0–24.3) | (-1.4–0.3) |
| | | 0.127 | 0.320 | 55.4 | 46.1 | -0.6 |
| | High LDL cholesterol | (0.0712–0.189) | (0.204–0.445) | (29.8–85.7) | (28.6–66.4) | (-1.3–0.3) |
| | | 0.447 | 1.01 | 207.9 | 151.9 | -1.0 |
| | High systolic blood pressure | (0.335–0.554) | (0.797–1.20) | (157.5–255.1) | (120.7–181.4) | (-1.6–-0.2) |
| | | 0.0191 | 0.103 | 7.4 | 13.9 | 1.9 |
| | High body-mass index | (0.0102–0.0312) | (0.0587–0.150) | (4.0–11.9) | (7.8–20.3) | (0.6–3.5) |
| | | 0.0898 | 0.213 | 42.2 | 32.3 | -0.8 |
| | Kidney dysfunction | (0.0661–0.117) | (0.155–0.273) | (30.2–55.1) | (22.9–41.7) | (-1.3–-0.3) |
| | | 0.391 | 0.794 | 168.9 | 114.4 | -1.2 |
| | Behavioral risks | (0.243–0.498) | (0.494–1.00) | (104.4–218.1) | (70.8–146.3) | (-1.7–-0.6) |
| | | 0.171 | 0.339 | 72.1 | 47.6 | -1.3 |
| | Tobacco | (0.138–0.209) | (0.288–0.396) | (57.4–86.6) | (40.1–55.7) | (-1.8–-0.6) |
| | | 0.127 | 0.247 | 50.7 | 33.6 | -1.2 |
| | Smoking | (0.100–0.161) | (0.200–0.294) | (39.9–65.2) | (27.1–40.0) | (-2.0–-0.5) |
| | | 0.00878 | 0.0138 | 4.2 | 2.1 | -2.1 |
| | Chewing tobacco | (0.00325–0.0171) | (0.00585–0.0269) | (1.5–8.2) | (0.9–4.2) | (-4.5–-0.7) |
| | | 0.0447 | 0.0928 | 20.7 | 13.9 | -1.2 |
| | Secondhand smoke | (0.0321–0.0584) | (0.0680–0.118) | (14.8–27.0) | (10.1–17.6) | (-1.8–-0.6) |
| | | 0.000806 | 0.00990 | 0.6 | 1.5 | |
| | High alcohol use | (-0.00415–0.00793) | (-0.00316–0.0300) | (-1.2–3.2) | (-0.2–4.1) | -- |
| | | 0.286 | 0.557 | 122.1 | 80.2 | -1.3 |
| | Dietary risks | (0.0794–0.417) | (0.190–0.827) | (33.1–180.1) | (27.5–120.3) | (-2.0–-0.5) |
| | | 0.0729 | 0.137 | 29.2 | 19.2 | -1.3 |
| | Diet low in fruits | (0.0249–0.121) | (0.0504–0.229) | (10.3–48.5) | (7.3–31.9) | (-2.1–-0.2) |
| | | 0.0590 | 0.0916 | 24.6 | 13.2 | -1.9 |
| | Diet low in vegetables | (0.0264–0.0925) | (0.0492–0.142) | (11.3–38.0) | (7.2–20.1) | (-2.9–-0.6) |
| | | 0.0236 | 0.0568 | 9.7 | 8.0 | -0.6 |
| | Diet low in legumes | (-0.0224–0.0645) | (-0.0469–0.151) | (-9.3–27.2) | (-6.5–21.4) | (-1.8–0.6) |
| | | 0.0465 | 0.113 | 19.2 | 16.0 | -0.6 |
| | Diet low in whole grains | (0.0183–0.0755) | (0.0499–0.176) | (7.4–32.2) | (6.9–24.8) | (-1.5–0.7) |
| | | 0.0340 | 0.0664 | 14.1 | 9.4 | -1.2 |
| | Diet low in nuts and seeds | (0.00995–0.0566) | (0.0184–0.119) | (4.2–23.7) | (2.6–16.7) | (-2.8–0.2) |
| | | -0.00305 | -0.0103 | -1.1 | -1.3 | |
| | Diet high in red meat | (-0.0145–0.00491) | (-0.0493–0.0284) | (-5.1–1.7) | (-6.4–3.7) | -- |
| | | 0.000689 | 0.00273 | 0.3 | 0.4 | 1.0 |
| | Diet high in processed meat | (-0.0000199–0.00142) | (-0.000183–0.00615) | (0.0–0.5) | (0.0–0.8) | (-0.5–2.9) |
| | | 0.000623 | 0.00449 | 0.2 | 0.6 | 3.0 |
| | Diet high in sugar-sweetened beverages | (0.000199–0.00148) | (0.00163–0.00832) | (0.1–0.5) | (0.2–1.1) | (0.7–6.5) |
| | | 0.0601 | 0.105 | 24.1 | 14.6 | -1.5 |
| | Diet low in fiber | (0.0127–0.117) | (0.0215–0.211) | (5.4–46.9) | (3.1–29.3) | (-3.5–0.0) |
| | | 0.0122 | 0.00618 | 5.2 | 0.9 | -5.2 |
| | Diet low in seafood omega-3 fatty acids | (0.00251–0.0273) | (0.000350–0.0219) | (1.1–11.6) | (0.1–3.2) | (-12.6–-1.3) |
| | | 0.0241 | 0.0625 | 10.0 | 8.8 | -0.4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0808–0.0936) | (-0.186–0.237) | (-32.3–39.2) | (-25.8–33.5) | (-1.2–0.6) |
| | | 0.0104 | 0.0124 | 4.2 | 1.8 | -2.6 |
| | Diet high in trans fatty acids | (0.000465–0.0231) | (0.000647–0.0252) | (0.2–9.6) | (0.1–3.7) | (-4.0–-0.8) |
| | | 0.112 | 0.194 | 48.5 | 28.0 | -1.7 |
| | Diet high in sodium | (0.0169–0.225) | (0.0191–0.434) | (6.6–99.5) | (2.6–63.9) | (-6.3–0.3) |
| | | 0.0123 | 0.0309 | 5.9 | 4.7 | -0.7 |
| | Low physical activity | (0.00406–0.0210) | (0.0108–0.0507) | (1.6–10.9) | (1.5–8.0) | (-1.6–0.4) |
| | | 0.323 | 0.583 | 148.2 | 88.0 | -1.6 |
| | Environmental/occupational risks | (0.244–0.398) | (0.459–0.700) | (112.2–181.6) | (69.2–105.1) | (-2.1–-0.9) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.259 | 0.374 | 118.4 | 56.3 | -2.3 |
| | Air pollution | (0.184–0.337) | (0.278–0.465) | (84.2–152.4) | (41.9–69.9) | (-2.9–-1.7) |
| | | 0.259 | 0.374 | 118.4 | 56.3 | -2.3 |
| | Particulate matter pollution | (0.184–0.337) | (0.278–0.465) | (84.2–152.4) | (41.9–69.9) | (-2.9–-1.7) |
| | | 0.0580 | 0.225 | 26.2 | 33.4 | 0.7 |
| | Ambient particulate matter pollution | (0.0277–0.0981) | (0.164–0.298) | (12.5–44.7) | (24.5–44.0) | (-0.9–2.8) |
| | | 0.201 | 0.150 | 92.1 | 22.9 | -4.2 |
| | Household air pollution from solid fuels | (0.139–0.259) | (0.0880–0.227) | (63.1–119.3) | (13.4–34.3) | (-5.5–-3.1) |
| | | 0.0116 | 0.0312 | 5.3 | 4.8 | -0.3 |
| | Non-optimal temperature | (0.00734–0.0165) | (0.0255–0.0399) | (3.4–7.6) | (3.8–6.1) | (-0.9–0.6) |
| | | 0.00362 | 0.0189 | 1.7 | 2.9 | 1.6 |
| | High temperature | (0.00123–0.00553) | (0.0144–0.0250) | (0.6–2.6) | (2.2–3.8) | (0.8–4.3) |
| | | 0.00802 | 0.0125 | 3.7 | 1.9 | -2.0 |
| | Low temperature | (0.00578–0.0110) | (0.0105–0.0154) | (2.6–5.0) | (1.6–2.3) | (-2.5–-1.3) |
| | | 0.0936 | 0.254 | 43.3 | 38.6 | -0.3 |
| | Other environmental risks | (0.0619–0.135) | (0.177–0.339) | (29.0–61.9) | (26.8–51.8) | (-1.0–0.5) |
| | | 0.0936 | 0.254 | 43.3 | 38.6 | -0.3 |
| | Lead exposure | (0.0619–0.135) | (0.177–0.339) | (29.0–61.9) | (26.8–51.8) | (-1.0–0.5) |
| **Sub-Saharan Africa** | | | | | | |
| | | 0.382 | 0.907 | 206.0 | 185.0 | -0.3 |
| | All risk factors | (0.314–0.452) | (0.770–1.05) | (170.2–244.0) | (157.3–214.4) | (-0.9–0.3) |
| | | 0.313 | 0.784 | 170.7 | 161.1 | -0.2 |
| | Metabolic risks | (0.252–0.386) | (0.648–0.935) | (138.0–207.1) | (133.0–190.5) | (-0.8–0.6) |
| | | 0.0221 | 0.0654 | 12.9 | 14.3 | 0.3 |
| | High fasting plasma glucose | (0.0145–0.0333) | (0.0475–0.0932) | (8.5–19.3) | (10.4–20.5) | (-0.9–1.6) |
| | | 0.0579 | 0.154 | 29.9 | 29.4 | -0.1 |
| | High LDL cholesterol | (0.0303–0.0895) | (0.0900–0.238) | (15.2–47.2) | (16.5–46.9) | (-1.0–1.0) |
| | | 0.260 | 0.659 | 142.5 | 136.6 | -0.1 |
| | High systolic blood pressure | (0.192–0.333) | (0.514–0.795) | (105.6–179.9) | (106.6–164.1) | (-0.8–0.8) |
| | | 0.0276 | 0.120 | 13.4 | 22.2 | 1.5 |
| | High body-mass index | (0.0160–0.0404) | (0.0695–0.171) | (7.6–19.5) | (13.0–32.3) | (0.3–2.7) |
| | | 0.0496 | 0.115 | 28.2 | 24.5 | -0.4 |
| | Kidney dysfunction | (0.0361–0.0658) | (0.0841–0.152) | (20.1–37.0) | (17.8–32.5) | (-1.1–0.2) |
| | | 0.176 | 0.394 | 89.8 | 76.4 | -0.5 |
| | Behavioral risks | (0.0806–0.246) | (0.191–0.549) | (41.7–128.0) | (38.7–107.5) | (-1.2–0.3) |
| | | 0.0417 | 0.0754 | 19.9 | 13.5 | -1.2 |
| | Tobacco | (0.0312–0.0541) | (0.0576–0.100) | (14.8–25.6) | (10.3–17.9) | (-2.3–-0.2) |
| | | 0.0286 | 0.0493 | 12.9 | 8.4 | -1.3 |
| | Smoking | (0.0201–0.0387) | (0.0337–0.0725) | (9.0–18.1) | (5.7–12.5) | (-2.9–0.1) |
| | | 0.00169 | 0.00326 | 0.9 | 0.7 | -0.9 |
| | Chewing tobacco | (0.000594–0.00370) | (0.00123–0.00707) | (0.3–1.9) | (0.2–1.4) | (-4.0–2.3) |
| | | 0.0128 | 0.0247 | 6.7 | 4.8 | -1.0 |
| | Secondhand smoke | (0.00861–0.0170) | (0.0173–0.0337) | (4.5–8.9) | (3.4–6.6) | (-1.8–-0.2) |
| | | 0.00156 | 0.00566 | 1.0 | 1.3 | |
| | High alcohol use | (-0.00169–0.00665) | (-0.00136–0.0173) | (-0.4–3.2) | (0.1–3.5) | -- |
| | | 0.144 | 0.332 | 73.8 | 64.5 | -0.4 |
| | Dietary risks | (0.0354–0.222) | (0.104–0.503) | (20.0–114.6) | (21.3–99.2) | (-1.2–0.4) |
| | | 0.0515 | 0.123 | 25.5 | 23.0 | -0.3 |
| | Diet low in fruits | (0.0228–0.0801) | (0.0597–0.189) | (12.0–39.5) | (11.5–35.2) | (-1.3–0.7) |
| | | 0.0521 | 0.112 | 26.1 | 21.4 | -0.6 |
| | Diet low in vegetables | (0.0283–0.0791) | (0.0620–0.162) | (14.5–39.3) | (11.7–31.0) | (-1.6–0.4) |
| | | 0.0111 | 0.0239 | 5.5 | 4.5 | -0.6 |
| | Diet low in legumes | (-0.0102–0.0296) | (-0.0214–0.0643) | (-5.1–15.1) | (-3.9–12.1) | (-2.0–0.6) |
| | | 0.00725 | 0.0194 | 3.4 | 3.5 | 0.0 |
| | Diet low in whole grains | (0.00253–0.0137) | (0.00614–0.0356) | (1.2–6.6) | (1.1–6.5) | (-2.0–2.2) |
| | | 0.0147 | 0.0277 | 7.3 | 5.1 | -1.1 |
| | Diet low in nuts and seeds | (0.00409–0.0250) | (0.00805–0.0498) | (2.0–12.6) | (1.5–9.3) | (-2.8–0.4) |
| | | -0.00256 | -0.00514 | -1.0 | -0.8 | |
| | Diet high in red meat | (-0.0132–0.00522) | (-0.0257–0.0108) | (-5.2–2.1) | (-4.0–1.7) | -- |
| | | 0.00102 | 0.00262 | 0.5 | 0.5 | -0.1 |
| | Diet high in processed meat | (-0.0000140–0.00240) | (-0.0000465–0.00627) | (0.0–1.1) | (0.0–1.1) | (-2.7–2.4) |
| | | 0.000327 | 0.00146 | 0.1 | 0.2 | 1.6 |
| | Diet high in sugar-sweetened beverages | (0.0000910–0.000823) | (0.000502–0.00371) | (0.0–0.4) | (0.1–0.6) | (-0.9–4.6) |
| | | 0.00403 | 0.00675 | 1.9 | 1.2 | -1.5 |
| | Diet low in fiber | (0.000917–0.0101) | (0.00101–0.0175) | (0.5–4.9) | (0.2–3.1) | (-5.6–2.5) |
| | | 0.0144 | 0.0349 | 7.3 | 6.5 | -0.3 |
| | Diet low in seafood omega-3 fatty acids | (0.00364–0.0283) | (0.00906–0.0643) | (1.8–14.5) | (1.6–12.2) | (-2.1–1.1) |
| | | 0.0130 | 0.0335 | 6.5 | 6.3 | -0.1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0425–0.0508) | (-0.109–0.128) | (-20.4–25.4) | (-19.4–23.9) | (-1.4–1.1) |
| | | 0.00547 | 0.0120 | 2.6 | 2.2 | -0.6 |
| | Diet high in trans fatty acids | (0.000231–0.0123) | (0.000766–0.0251) | (0.1–6.0) | (0.1–4.5) | (-2.2–1.3) |
| | | 0.0242 | 0.0502 | 13.3 | 10.7 | -0.7 |
| | Diet high in sodium | (0.000428–0.0773) | (0.000340–0.173) | (0.2–41.7) | (0.1–36.2) | (-8.8–3.1) |
| | | 0.00508 | 0.0115 | 2.9 | 2.4 | -0.5 |
| | Low physical activity | (0.00145–0.00951) | (0.00355–0.0202) | (0.7–5.6) | (0.7–4.3) | (-1.4–0.6) |
| | | 0.194 | 0.442 | 104.4 | 90.1 | -0.4 |
| | Environmental/occupational risks | (0.142–0.243) | (0.346–0.547) | (76.7–130.4) | (70.1–111.4) | (-1.1–0.3) |
| | | 0.153 | 0.320 | 81.6 | 64.8 | -0.7 |
| | Air pollution | (0.108–0.192) | (0.239–0.400) | (57.5–103.1) | (48.6–81.1) | (-1.4–0.0) |
| | | 0.153 | 0.320 | 81.6 | 64.8 | -0.7 |
| | Particulate matter pollution | (0.108–0.192) | (0.239–0.400) | (57.5–103.1) | (48.6–81.1) | (-1.4–0.0) |
| | | 0.0278 | 0.0811 | 15.0 | 16.5 | 0.3 |
| | Ambient particulate matter pollution | (0.0191–0.0389) | (0.0588–0.108) | (10.3–21.0) | (12.0–21.9) | (-0.5–1.3) |
| | | 0.125 | 0.239 | 66.6 | 48.3 | -1.0 |
| | Household air pollution from solid fuels | (0.0869–0.160) | (0.173–0.305) | (46.1–85.4) | (35.4–61.4) | (-1.7–-0.2) |
| | | 0.0151 | 0.0316 | 8.1 | 6.4 | -0.7 |
| | Non-optimal temperature | (0.0107–0.0209) | (0.0228–0.0405) | (5.9–11.0) | (4.7–8.2) | (-1.4–0.2) |
| | | 0.00309 | 0.00898 | 1.6 | 1.8 | |
| | High temperature | (-0.000144–0.00618) | (0.00210–0.0159) | (-0.1–3.2) | (0.4–3.1) | -- |
| | | 0.0121 | 0.0228 | 6.5 | 4.7 | -1.0 |
| | Low temperature | (0.00971–0.0148) | (0.0194–0.0266) | (5.2–7.9) | (4.0–5.5) | (-1.6–-0.2) |
| | | 0.0509 | 0.155 | 28.3 | 32.7 | 0.4 |
| | Other environmental risks | (0.0317–0.0760) | (0.0931–0.224) | (17.9–41.9) | (19.7–46.7) | (-0.5–1.4) |
| | | 0.0509 | 0.155 | 28.3 | 32.7 | 0.4 |
| | Lead exposure | (0.0317–0.0760) | (0.0931–0.224) | (17.9–41.9) | (19.7–46.7) | (-0.5–1.4) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| **Central Sub-Saharan Africa** | | | | | | |
| | All risk factors | 0.0427 (0.0312–0.0549) | 0.118 (0.0900–0.144) | 250.9 (187.6–315.6) | 230.4 (174.9–276.5) | -0.3 (-0.9–0.5) |
| | Metabolic risks | 0.0365 (0.0264–0.0480) | 0.102 (0.0760–0.124) | 217.8 (160.6–280.6) | 202.6 (149.3–247.3) | -0.2 (-0.8–0.5) |
| | High fasting plasma glucose | 0.00482 (0.00310–0.00700) | 0.0146 (0.0105–0.0202) | 32.1 (21.1–45.2) | 31.1 (21.9–42.7) | -0.1 (-1.1–1.0) |
| | High LDL cholesterol | 0.00679 (0.00338–0.0113) | 0.0202 (0.0111–0.0329) | 38.3 (18.6–67.3) | 36.5 (19.4–62.4) | -0.1 (-1.1–1.1) |
| | High systolic blood pressure | 0.0302 (0.0201–0.0425) | 0.0826 (0.0587–0.105) | 180.6 (122.1–243.2) | 165.5 (120.1–206.8) | -0.3 (-1.0–0.8) |
| | High body-mass index | 0.00287 (0.00155–0.00494) | 0.0179 (0.00975–0.0266) | 13.6 (7.3–24.6) | 30.3 (16.1–45.1) | 2.4 (0.8–4.0) |
| | Kidney dysfunction | 0.00591 (0.00386–0.00833) | 0.0162 (0.0112–0.0225) | 37.7 (23.7–53.1) | 34.0 (23.2–48.6) | -0.3 (-1.0–0.4) |
| | Behavioral risks | 0.0185 (0.00842–0.0283) | 0.0545 (0.0263–0.0790) | 95.8 (44.9–144.5) | 97.3 (47.6–141.9) | 0.0 (-0.7–1.0) |
| | Tobacco | 0.00402 (0.00247–0.00590) | 0.00958 (0.00639–0.0141) | 18.1 (11.5–25.5) | 15.0 (10.2–21.6) | -0.6 (-1.8–0.5) |
| | Smoking | 0.00270 (0.00159–0.00423) | 0.00623 (0.00370–0.0101) | 10.7 (6.3–16.6) | 8.7 (5.1–14.0) | -0.6 (-2.4–0.9) |
| | Chewing tobacco | 0.000136 (0.0000425–0.000300) | 0.000268 (0.0000823–0.000635) | 0.8 (0.2–1.7) | 0.5 (0.2–1.2) | -1.3 (-4.5–2.4) |
| | Secondhand smoke | 0.00127 (0.000741–0.00185) | 0.00329 (0.00209–0.00497) | 6.9 (4.1–10.0) | 6.0 (3.9–9.1) | -0.4 (-1.4–0.7) |
| | High alcohol use | 0.0000912 (-0.000335–0.000725) | 0.000565 (-0.000758–0.00230) | 1.0 (-0.6–3.5) | 1.3 (-0.4–3.8) | -- |
| | Dietary risks | 0.0155 (0.00338–0.0259) | 0.0471 (0.0154–0.0727) | 80.2 (19.6–129.5) | 84.4 (31.4–131.0) | 0.2 (-0.6–1.3) |
| | Diet low in fruits | 0.00462 (0.00192–0.00779) | 0.0153 (0.00718–0.0247) | 22.6 (10.2–37.3) | 26.2 (12.4–41.8) | 0.5 (-0.8–1.9) |
| | Diet low in vegetables | 0.00755 (0.00363–0.0115) | 0.0209 (0.0106–0.0304) | 37.0 (19.4–55.8) | 36.1 (18.4–52.7) | -0.1 (-1.0–0.9) |
| | Diet low in legumes | 0.00119 (-0.00109–0.00349) | 0.00418 (-0.00395–0.0115) | 6.2 (-5.6–18.5) | 7.2 (-6.9–19.7) | 0.5 (-1.3–1.9) |
| | Diet low in whole grains | 0.00166 (0.000531–0.00312) | 0.00567 (0.00212–0.0102) | 8.3 (2.7–15.6) | 9.6 (3.5–17.8) | 0.5 (-1.4–2.1) |
| | Diet low in nuts and seeds | 0.000799 (0.000221–0.00146) | 0.00396 (0.000968–0.00786) | 4.3 (1.1–8.0) | 6.8 (1.7–13.6) | 1.4 (-1.1–3.4) |
| | Diet high in red meat | -0.000208 (-0.000987–0.000347) | -0.000440 (-0.00237–0.000901) | -0.7 (-3.4–1.2) | -0.6 (-3.0–1.1) | -- |
| | Diet high in processed meat | 0.0000755 (0.00000411–0.000171) | 0.000222 (-0.000000924–0.000543) | 0.4 (0.0–0.8) | 0.4 (0.0–0.8) | -0.2 (-2.5–2.7) |
| | Diet high in sugar-sweetened beverages | 0.0000523 (0.0000132–0.000145) | 0.000110 (0.0000178–0.000329) | 0.2 (0.1–0.6) | 0.2 (0.0–0.5) | -1.1 (-5.3–3.9) |
| | Diet low in fiber | 0.000501 (0.000100–0.00125) | 0.00161 (0.000215–0.00468) | 2.5 (0.6–6.3) | 2.7 (0.4–7.8) | 0.2 (-5.0–3.9) |
| | Diet low in seafood omega-3 fatty acids | 0.00135 (0.000292–0.00312) | 0.00460 (0.00125–0.00904) | 6.9 (1.5–16.5) | 7.9 (2.1–15.6) | 0.4 (-1.7–2.0) |
| | Diet low in omega-6 polyunsaturated fatty acids | 0.00134 (-0.00474–0.00569) | 0.00454 (-0.0145–0.0171) | 6.8 (-22.6–29.7) | 7.9 (-23.0–29.2) | 0.4 (-0.9–1.8) |
| | Diet high in trans fatty acids | 0.000612 (0.0000250–0.00140) | 0.00169 (0.000112–0.00369) | 3.0 (0.1–6.8) | 2.8 (0.2–6.2) | -0.2 (-1.9–1.8) |
| | Diet high in sodium | 0.000971 (0.00000000655–0.00563) | 0.00289 (0.0000000572–0.0152) | 6.2 (0.0–33.4) | 6.0 (0.0–30.8) | -0.1 (-9.6–27.2) |
| | Low physical activity | 0.000564 (0.000155–0.00117) | 0.00152 (0.000379–0.00291) | 3.6 (0.5–8.2) | 3.2 (0.7–6.7) | -0.3 (-1.6–1.7) |
| | Environmental/occupational risks | 0.0217 (0.0146–0.0299) | 0.0577 (0.0402–0.0803) | 127.3 (87.4–172.8) | 113.6 (78.5–154.6) | -0.3 (-1.0–0.5) |
| | Air pollution | 0.0171 (0.0113–0.0229) | 0.0408 (0.0280–0.0540) | 99.9 (67.1–132.7) | 79.3 (55.0–103.8) | -0.7 (-1.5–0.1) |
| | Particulate matter pollution | 0.0171 (0.0113–0.0229) | 0.0408 (0.0280–0.0540) | 99.9 (67.1–132.7) | 79.3 (55.0–103.8) | -0.7 (-1.5–0.1) |
| | Ambient particulate matter pollution | 0.00258 (0.00149–0.00406) | 0.00867 (0.00633–0.0115) | 15.1 (8.8–24.0) | 16.7 (12.1–22.4) | 0.3 (-1.0–1.6) |
| | Household air pollution from solid fuels | 0.0145 (0.00927–0.0198) | 0.0321 (0.0212–0.0435) | 84.8 (55.9–114.6) | 62.6 (41.1–82.4) | -0.9 (-1.7–0.0) |
| | Non-optimal temperature | 0.000784 (0.0000323–0.00124) | 0.00122 (-0.00107–0.00223) | 4.4 (0.2–6.7) | 2.3 (-2.0–4.2) | -- |
| | High temperature | -0.0000880 (-0.000609–0.0000547) | -0.000501 (-0.00270–0.000249) | -0.5 (-3.5–0.3) | -1.0 (-5.1–0.4) | -- |
| | Low temperature | 0.000870 (0.000582–0.00122) | 0.00171 (0.00125–0.00217) | 4.9 (3.3–6.6) | 3.3 (2.4–4.2) | -1.2 (-2.1–-0.2) |
| | Other environmental risks | 0.00659 (0.00346–0.0110) | 0.0244 (0.0127–0.0397) | 40.0 (21.4–66.2) | 49.3 (25.7–80.3) | 0.6 (-0.4–1.6) |
| | Lead exposure | 0.00659 (0.00346–0.0110) | 0.0244 (0.0127–0.0397) | 40.0 (21.4–66.2) | 49.3 (25.7–80.3) | 0.6 (-0.4–1.6) |
| **Eastern Sub-Saharan Africa** | | | | | | |
| | All risk factors | 0.113 (0.0901–0.137) | 0.308 (0.257–0.360) | 165.4 (132.0–197.7) | 164.1 (136.6–191.3) | 0.0 (-0.7–0.8) |
| | Metabolic risks | 0.0889 (0.0691–0.113) | 0.259 (0.205–0.310) | 132.0 (103.6–165.9) | 139.1 (111.2–167.0) | 0.2 (-0.6–1.0) |
| | High fasting plasma glucose | 0.00276 (0.00172–0.00401) | 0.00949 (0.00646–0.0140) | 4.4 (2.7–6.5) | 5.3 (3.6–7.9) | 0.6 (-0.6–1.9) |
| | High LDL cholesterol | 0.0133 (0.00664–0.0212) | 0.0424 (0.0240–0.0687) | 18.3 (8.5–30.4) | 21.1 (11.3–35.0) | 0.4 (-0.6–1.6) |
| | High systolic blood pressure | 0.0767 (0.0557–0.101) | 0.226 (0.171–0.274) | 114.7 (83.8–150.6) | 122.4 (93.5–148.2) | 0.2 (-0.7–1.2) |
| | High body-mass index | 0.00510 (0.00272–0.00898) | 0.0292 (0.0170–0.0437) | 6.7 (3.5–12.2) | 14.5 (8.4–22.0) | 2.3 (0.7–4.1) |
| | Kidney dysfunction | 0.00995 (0.00668–0.0138) | 0.0270 (0.0180–0.0372) | 15.0 (9.8–21.1) | 14.7 (9.7–20.4) | -0.1 (-0.8–0.8) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.0585 | 0.150 | 82.2 | 77.4 | -0.2 |
| | Behavioral risks | (0.0302–0.0827) | (0.0866–0.210) | (43.8–117.1) | (43.8–108.0) | (-1.1–0.7) |
| | | 0.0116 | 0.0256 | 14.6 | 12.2 | -0.5 |
| | Tobacco | (0.00858–0.0154) | (0.0189–0.0351) | (10.8–19.4) | (8.9–16.4) | (-1.7–0.5) |
| | | 0.00783 | 0.0175 | 9.5 | 8.1 | -0.5 |
| | Smoking | (0.00544–0.0112) | (0.0116–0.0253) | (6.5–13.4) | (5.3–11.8) | (-2.2–1.0) |
| | | 0.000765 | 0.00147 | 1.0 | 0.7 | -0.9 |
| | Chewing tobacco | (0.000292–0.00162) | (0.000568–0.00308) | (0.4–2.1) | (0.3–1.5) | (-3.9–2.2) |
| | | 0.00336 | 0.00730 | 4.6 | 3.7 | -0.7 |
| | Secondhand smoke | (0.00219–0.00461) | (0.00491–0.0104) | (3.0–6.3) | (2.5–5.2) | (-1.7–0.2) |
| | | 0.000118 | 0.00146 | 0.4 | 1.0 | |
| | High alcohol use | (-0.00112–0.00155) | (-0.00130–0.00522) | (-1.1–2.2) | (-0.4–3.0) | -- |
| | | 0.0507 | 0.131 | 71.8 | 67.9 | -0.2 |
| | Dietary risks | (0.0183–0.0750) | (0.0590–0.193) | (27.1–107.1) | (31.4–99.8) | (-1.1–0.8) |
| | | 0.0189 | 0.0494 | 26.1 | 24.9 | -0.1 |
| | Diet low in fruits | (0.00857–0.0297) | (0.0247–0.0748) | (13.1–40.5) | (12.9–37.4) | (-1.2–1.0) |
| | | 0.0201 | 0.0484 | 28.2 | 24.8 | -0.4 |
| | Diet low in vegetables | (0.0106–0.0298) | (0.0259–0.0692) | (15.7–41.7) | (13.6–35.7) | (-1.5–0.7) |
| | | 0.00188 | 0.00524 | 2.4 | 2.5 | 0.1 |
| | Diet low in legumes | (-0.00166–0.00532) | (-0.00426–0.0140) | (-2.1–7.0) | (-2.0–6.9) | (-1.6–1.4) |
| | | 0.00152 | 0.00449 | 1.9 | 2.1 | 0.3 |
| | Diet low in whole grains | (0.000476–0.00286) | (0.00137–0.00845) | (0.6–3.7) | (0.6–4.0) | (-1.8–2.5) |
| | | 0.00469 | 0.0129 | 6.0 | 6.2 | 0.1 |
| | Diet low in nuts and seeds | (0.00143–0.00779) | (0.00380–0.0231) | (1.8–10.2) | (1.8–11.3) | (-1.7–1.6) |
| | | -0.000804 | -0.00164 | -0.9 | -0.7 | |
| | Diet high in red meat | (-0.00420–0.00134) | (-0.00717–0.00276) | (-4.5–1.4) | (-3.0–1.2) | -- |
| | | 0.000106 | 0.000405 | 0.1 | 0.2 | 1.1 |
| | Diet high in processed meat | (-0.0000103–0.000239) | (-0.0000494–0.000993) | (0.0–0.3) | (0.0–0.4) | (-1.0–3.4) |
| | | 0.0000698 | 0.000298 | 0.1 | 0.1 | 1.4 |
| | Diet high in sugar-sweetened beverages | (0.0000156–0.000209) | (0.0000477–0.000977) | (0.0–0.2) | (0.0–0.4) | (-2.7–6.3) |
| | | 0.000850 | 0.00231 | 1.1 | 1.1 | 0.0 |
| | Diet low in fiber | (0.000150–0.00227) | (0.000299–0.00603) | (0.2–2.7) | (0.2–2.8) | (-3.9–3.8) |
| | | 0.00397 | 0.0130 | 5.1 | 6.3 | 0.6 |
| | Diet low in seafood omega-3 fatty acids | (0.00106–0.00746) | (0.00333–0.0236) | (1.3–9.8) | (1.5–11.5) | (-1.0–2.1) |
| | | 0.00329 | 0.0104 | 4.3 | 5.0 | 0.5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0112–0.0126) | (-0.0331–0.0400) | (-13.8–16.3) | (-15.1–19.5) | (-1.0–1.8) |
| | | 0.00141 | 0.00387 | 1.8 | 1.8 | 0.1 |
| | Diet high in trans fatty acids | (0.0000592–0.00311) | (0.000254–0.00795) | (0.1–4.0) | (0.1–3.7) | (-1.6–2.2) |
| | | 0.0145 | 0.0286 | 22.2 | 16.1 | -1.0 |
| | Diet high in sodium | (0.000427–0.0379) | (0.000335–0.0796) | (0.6–57.4) | (0.2–44.1) | (-8.9–2.7) |
| | | 0.000684 | 0.00199 | 1.0 | 1.1 | 0.2 |
| | Low physical activity | (0.000161–0.00133) | (0.000514–0.00383) | (0.2–2.2) | (0.2–2.2) | (-1.0–2.5) |
| | | 0.0565 | 0.148 | 81.5 | 78.4 | -0.1 |
| | Environmental/occupational risks | (0.0408–0.0731) | (0.111–0.188) | (58.6–103.2) | (58.2–99.1) | (-0.9–0.7) |
| | | 0.0447 | 0.110 | 64.1 | 57.9 | -0.3 |
| | Air pollution | (0.0314–0.0581) | (0.0792–0.143) | (44.6–84.0) | (41.6–74.9) | (-1.1–0.6) |
| | | 0.0447 | 0.110 | 64.1 | 57.9 | -0.3 |
| | Particulate matter pollution | (0.0314–0.0581) | (0.0792–0.143) | (44.6–84.0) | (41.6–74.9) | (-1.1–0.6) |
| | | 0.00356 | 0.0128 | 5.0 | 6.7 | 0.9 |
| | Ambient particulate matter pollution | (0.00225–0.00526) | (0.00873–0.0173) | (3.2–7.4) | (4.6–9.1) | (-0.2–2.1) |
| | | 0.0412 | 0.0972 | 59.0 | 51.2 | -0.4 |
| | Household air pollution from solid fuels | (0.0286–0.0537) | (0.0698–0.126) | (40.6–77.9) | (36.4–66.5) | (-1.3–0.4) |
| | | 0.00539 | 0.0125 | 7.6 | 6.6 | -0.4 |
| | Non-optimal temperature | (0.00402–0.00695) | (0.0102–0.0152) | (5.7–9.8) | (5.4–8.0) | (-1.2–0.5) |
| | | 0.000196 | 0.00109 | 0.3 | 0.5 | |
| | High temperature | (-0.0000897–0.000529) | (0.000130–0.00230) | (-0.1–0.7) | (0.0–1.2) | -- |
| | | 0.00520 | 0.0114 | 7.3 | 6.1 | -0.6 |
| | Low temperature | (0.00392–0.00670) | (0.00937–0.0140) | (5.6–9.4) | (5.0–7.5) | (-1.4–0.5) |
| | | 0.0129 | 0.0456 | 19.4 | 24.9 | 0.8 |
| | Other environmental risks | (0.00672–0.0210) | (0.0244–0.0699) | (10.0–31.4) | (13.2–38.4) | (-0.2–1.9) |
| | | 0.0129 | 0.0456 | 19.4 | 24.9 | 0.8 |
| | Lead exposure | (0.00672–0.0210) | (0.0244–0.0699) | (10.0–31.4) | (13.2–38.4) | (-0.2–1.9) |
| **Southern Sub-Saharan Africa** | | | | | | |
| | | 0.0481 | 0.0919 | 195.3 | 150.2 | -0.8 |
| | All risk factors | (0.0426–0.0552) | (0.0822–0.101) | (172.4–223.6) | (133.4–165.9) | (-1.1–-0.3) |
| | | 0.0411 | 0.0826 | 168.0 | 135.6 | -0.6 |
| | Metabolic risks | (0.0354–0.0471) | (0.0716–0.0946) | (144.1–192.9) | (117.5–155.7) | (-1.1–-0.1) |
| | | 0.00342 | 0.00932 | 14.6 | 15.8 | 0.2 |
| | High fasting plasma glucose | (0.00251–0.00445) | (0.00740–0.0123) | (10.8–18.9) | (12.5–20.9) | (-0.8–1.2) |
| | | 0.00829 | 0.0149 | 32.7 | 23.5 | -1.0 |
| | High LDL cholesterol | (0.00476–0.0124) | (0.00872–0.0221) | (18.4–49.9) | (13.3–36.2) | (-1.8–-0.3) |
| | | 0.0340 | 0.0696 | 139.6 | 114.5 | -0.6 |
| | High systolic blood pressure | (0.0273–0.0412) | (0.0568–0.0821) | (113.3–170.3) | (93.8–135.7) | (-1.2–0.0) |
| | | 0.00752 | 0.0200 | 28.9 | 31.4 | 0.3 |
| | High body-mass index | (0.00467–0.0102) | (0.0128–0.0276) | (17.6–39.7) | (20.3–43.7) | (-0.5–1.2) |
| | | 0.00695 | 0.0135 | 29.1 | 22.5 | -0.8 |
| | Kidney dysfunction | (0.00538–0.00886) | (0.0102–0.0172) | (22.0–37.1) | (16.7–28.9) | (-1.2–-0.3) |
| | | 0.0263 | 0.0445 | 102.9 | 70.0 | -1.2 |
| | Behavioral risks | (0.0180–0.0333) | (0.0306–0.0553) | (71.2–132.5) | (48.5–87.4) | (-1.6–-0.6) |
| | | 0.0101 | 0.0127 | 38.3 | 19.0 | -2.1 |
| | Tobacco | (0.00814–0.0123) | (0.0104–0.0149) | (30.5–46.6) | (15.3–22.3) | (-2.8–-1.4) |
| | | 0.00719 | 0.00827 | 26.2 | 11.7 | -2.4 |
| | Smoking | (0.00564–0.00939) | (0.00643–0.0104) | (20.3–35.1) | (9.0–14.9) | (-3.4–-1.5) |
| | | 0.000227 | 0.000436 | 1.0 | 0.8 | -0.7 |
| | Chewing tobacco | (0.0000798–0.000475) | (0.000143–0.00101) | (0.4–2.1) | (0.3–1.9) | (-3.8–2.5) |
| | | 0.00324 | 0.00447 | 13.1 | 7.2 | -1.8 |
| | Secondhand smoke | (0.00231–0.00410) | (0.00332–0.00568) | (9.3–16.8) | (5.3–9.2) | (-2.3–-1.3) |
| | | 0.00106 | 0.00218 | 4.3 | 3.5 | -0.6 |
| | High alcohol use | (0.000126–0.00250) | (0.000728–0.00467) | (1.1–9.5) | (1.4–7.3) | (-1.7–2.0) |
| | | 0.0184 | 0.0332 | 71.8 | 52.3 | -1.0 |
| | Dietary risks | (0.00565–0.0263) | (0.0166–0.0445) | (22.3–104.6) | (26.6–70.5) | (-1.5–0.0) |
| | | 0.00785 | 0.0153 | 30.0 | 23.6 | -0.7 |
| | Diet low in fruits | (0.00396–0.0118) | (0.00783–0.0219) | (15.7–45.1) | (12.7–33.6) | (-1.4–0.1) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00570 | 0.0108 | 22.1 | 17.0 | -0.8 |
| | Diet low in vegetables | (0.00345–0.00810) | (0.00715–0.0146) | (13.3–31.5) | (11.5–22.8) | (-1.8–0.1) |
| | | 0.00195 | 0.00332 | 7.5 | 5.1 | -1.2 |
| | Diet low in legumes | (-0.00190–0.00523) | (-0.00289–0.00870) | (-7.2–20.2) | (-4.4–13.5) | (-2.0–-0.4) |
| | | 0.000208 | 0.000540 | 0.8 | 0.8 | 0.1 |
| | Diet low in whole grains | (0.0000484–0.000485) | (0.000113–0.00130) | (0.2–1.9) | (0.2–2.0) | (-4.1–4.6) |
| | | 0.00331 | 0.00534 | 12.6 | 8.1 | -1.3 |
| | Diet low in nuts and seeds | (0.00109–0.00550) | (0.00161–0.00905) | (4.0–21.0) | (2.4–14.0) | (-2.2–-0.7) |
| | | -0.000329 | -0.000720 | -1.0 | -0.9 | |
| | Diet high in red meat | (-0.00261–0.00144) | (-0.00503–0.00299) | (-8.5–4.8) | (-6.5–4.2) | -- |
| | | 0.000112 | 0.000229 | 0.4 | 0.3 | -0.5 |
| | Diet high in processed meat | (-0.00000249–0.000243) | (0.0000157–0.000502) | (0.0–0.9) | (0.0–0.7) | (-2.2–1.6) |
| | | 0.000145 | 0.000427 | 0.5 | 0.6 | 0.5 |
| | Diet high in sugar-sweetened beverages | (0.0000436–0.000349) | (0.000168–0.000823) | (0.2–1.2) | (0.2–1.2) | (-2.4–4.4) |
| | | 0.000493 | 0.00127 | 1.9 | 1.9 | 0.1 |
| | Diet low in fiber | (0.0000923–0.00128) | (0.000182–0.00338) | (0.4–4.8) | (0.3–5.1) | (-5.2–4.5) |
| | | 0.00218 | 0.00359 | 8.4 | 5.5 | -1.3 |
| | Diet low in seafood omega-3 fatty acids | (0.000565–0.00430) | (0.000917–0.00644) | (2.1–16.6) | (1.4–10.1) | (-2.6–-0.2) |
| | | 0.00150 | 0.00126 | 5.8 | 1.9 | -3.3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.00454–0.00580) | (-0.00244–0.00526) | (-17.0–22.4) | (-3.7–8.1) | (-5.7–-2.0) |
| | | 0.000587 | 0.000177 | 2.2 | 0.3 | -6.4 |
| | Diet high in trans fatty acids | (0.0000268–0.00125) | (0.0000113–0.000356) | (0.1–4.7) | (0.0–0.6) | (-7.9–-4.9) |
| | | 0.00175 | 0.00264 | 6.8 | 4.2 | -1.4 |
| | Diet high in sodium | (0.000000225–0.00741) | (0.000000103–0.0130) | (0.0–29.6) | (0.0–21.4) | (-14.8–7.5) |
| | | 0.00130 | 0.00229 | 5.4 | 3.8 | -1.0 |
| | Low physical activity | (0.000391–0.00231) | (0.000753–0.00375) | (1.5–10.0) | (1.1–6.5) | (-1.9–-0.1) |
| | | 0.0207 | 0.0341 | 84.2 | 55.8 | -1.2 |
| | Environmental/occupational risks | (0.0164–0.0246) | (0.0270–0.0417) | (66.9–99.5) | (44.3–67.9) | (-1.7–-0.7) |
| | | 0.0133 | 0.0170 | 54.0 | 27.6 | -2.0 |
| | Air pollution | (0.00964–0.0164) | (0.0121–0.0224) | (39.2–66.5) | (19.8–36.5) | (-2.6–-1.4) |
| | | 0.0133 | 0.0170 | 54.0 | 27.6 | -2.0 |
| | Particulate matter pollution | (0.00964–0.0164) | (0.0121–0.0224) | (39.2–66.5) | (19.8–36.5) | (-2.6–-1.4) |
| | | 0.00596 | 0.0109 | 24.2 | 17.7 | -1.0 |
| | Ambient particulate matter pollution | (0.00426–0.00783) | (0.00790–0.0142) | (17.1–31.7) | (12.8–23.0) | (-1.7–-0.1) |
| | | 0.00733 | 0.00609 | 29.8 | 9.9 | -3.3 |
| | Household air pollution from solid fuels | (0.00472–0.0102) | (0.00400–0.00922) | (19.2–41.4) | (6.4–15.0) | (-4.1–-2.7) |
| | | 0.00386 | 0.00661 | 15.6 | 10.8 | -1.1 |
| | Non-optimal temperature | (0.00332–0.00449) | (0.00581–0.00770) | (13.5–18.1) | (9.5–12.4) | (-1.5–-0.6) |
| | | 0.0000354 | 0.000194 | 0.1 | 0.3 | |
| | High temperature | (-0.0000450–0.000155) | (-0.0000661–0.000575) | (-0.2–0.6) | (-0.1–0.9) | -- |
| | | 0.00383 | 0.00642 | 15.5 | 10.5 | -1.2 |
| | Low temperature | (0.00334–0.00442) | (0.00570–0.00736) | (13.5–17.8) | (9.3–12.0) | (-1.6–-0.6) |
| | | 0.00661 | 0.0153 | 27.2 | 25.2 | -0.2 |
| | Other environmental risks | (0.00451–0.00906) | (0.00974–0.0211) | (18.5–36.9) | (16.0–34.8) | (-0.9–0.3) |
| | | 0.00661 | 0.0153 | 27.2 | 25.2 | -0.2 |
| | Lead exposure | (0.00451–0.00906) | (0.00974–0.0211) | (18.5–36.9) | (16.0–34.8) | (-0.9–0.3) |
| **Western Sub-Saharan Africa** | | | | | | |
| | | 0.178 | 0.390 | 237.6 | 206.6 | -0.4 |
| | All risk factors | (0.145–0.213) | (0.321–0.457) | (194.1–284.6) | (169.9–241.6) | (-1.1–0.3) |
| | | 0.146 | 0.340 | 197.3 | 181.7 | -0.2 |
| | Metabolic risks | (0.115–0.182) | (0.280–0.408) | (155.1–245.4) | (148.0–216.9) | (-1.0–0.5) |
| | | 0.0111 | 0.0320 | 16.1 | 18.7 | 0.5 |
| | High fasting plasma glucose | (0.00682–0.0184) | (0.0220–0.0495) | (10.0–26.7) | (13.0–29.0) | (-1.3–2.1) |
| | | 0.0295 | 0.0761 | 37.9 | 37.9 | 0.0 |
| | High LDL cholesterol | (0.0151–0.0456) | (0.0441–0.118) | (19.1–59.8) | (21.1–59.9) | (-1.0–1.2) |
| | | 0.119 | 0.282 | 161.0 | 151.1 | -0.2 |
| | High systolic blood pressure | (0.0841–0.156) | (0.217–0.349) | (115.7–208.6) | (117.0–184.3) | (-1.0–0.8) |
| | | 0.0121 | 0.0529 | 14.0 | 24.3 | 1.7 |
| | High body-mass index | (0.00645–0.0181) | (0.0285–0.0777) | (7.3–21.6) | (13.1–35.9) | (0.2–3.2) |
| | | 0.0268 | 0.0584 | 37.9 | 33.2 | -0.4 |
| | Kidney dysfunction | (0.0192–0.0355) | (0.0429–0.0785) | (26.2–50.0) | (24.0–44.9) | (-1.3–0.4) |
| | | 0.0724 | 0.145 | 90.8 | 71.8 | -0.7 |
| | Behavioral risks | (0.0225–0.106) | (0.0470–0.217) | (28.5–137.4) | (23.5–111.1) | (-1.5–0.2) |
| | | 0.0160 | 0.0275 | 18.7 | 12.7 | -1.2 |
| | Tobacco | (0.0113–0.0220) | (0.0195–0.0382) | (13.0–25.6) | (9.0–17.2) | (-2.6–0.0) |
| | | 0.0108 | 0.0173 | 12.1 | 7.4 | -1.5 |
| | Smoking | (0.00690–0.0162) | (0.0108–0.0280) | (7.6–18.1) | (4.7–12.1) | (-3.6–0.2) |
| | | 0.000564 | 0.00109 | 0.8 | 0.6 | -0.8 |
| | Chewing tobacco | (0.000191–0.00132) | (0.000386–0.00244) | (0.3–1.7) | (0.2–1.3) | (-3.8–2.7) |
| | | 0.00493 | 0.00969 | 6.2 | 4.9 | -0.7 |
| | Secondhand smoke | (0.00315–0.00675) | (0.00658–0.0134) | (4.0–8.5) | (3.3–6.8) | (-1.7–0.2) |
| | | 0.000290 | 0.00145 | 0.5 | 0.8 | |
| | High alcohol use | (-0.000762–0.00210) | (-0.00100–0.00527) | (-0.6–2.5) | (-0.2–2.6) | -- |
| | | 0.0594 | 0.120 | 74.8 | 59.7 | -0.7 |
| | Dietary risks | (0.00479–0.0976) | (0.00970–0.196) | (6.1–125.5) | (4.5–98.9) | (-1.7–0.4) |
| | | 0.0201 | 0.0428 | 24.0 | 19.8 | -0.6 |
| | Diet low in fruits | (0.00810–0.0322) | (0.0176–0.0709) | (10.2–38.4) | (8.5–33.5) | (-1.7–0.7) |
| | | 0.0188 | 0.0321 | 22.9 | 15.4 | -1.2 |
| | Diet low in vegetables | (0.00899–0.0305) | (0.0173–0.0478) | (11.5–36.9) | (8.4–22.6) | (-2.3–0.1) |
| | | 0.00604 | 0.0112 | 7.5 | 5.5 | -1.0 |
| | Diet low in legumes | (-0.00543–0.0158) | (-0.00949–0.0294) | (-6.7–19.9) | (-4.5–14.7) | (-2.5–0.3) |
| | | 0.00387 | 0.00873 | 4.6 | 4.1 | -0.4 |
| | Diet low in whole grains | (0.00135–0.00725) | (0.00269–0.0165) | (1.7–8.8) | (1.2–7.9) | (-2.8–2.0) |
| | | 0.00594 | 0.00551 | 7.5 | 2.7 | -3.1 |
| | Diet low in nuts and seeds | (0.00156–0.0103) | (0.00125–0.0124) | (1.8–13.1) | (0.6–6.3) | (-6.2–-0.5) |
| | | -0.00121 | -0.00234 | -1.2 | -0.9 | |
| | Diet high in red meat | (-0.00570–0.00210) | (-0.0111–0.00423) | (-5.6–2.1) | (-4.1–1.7) | -- |
| | | 0.000724 | 0.00176 | 0.8 | 0.8 | -0.1 |
| | Diet high in processed meat | (-0.00000849–0.00179) | (0.00000779–0.00441) | (0.0–2.0) | (0.1–2.0) | (-3.2–2.7) |
| | | 0.0000602 | 0.000630 | 0.1 | 0.3 | 4.2 |
| | Diet high in sugar-sweetened beverages | (0.0000157–0.000160) | (0.000103–0.00212) | (0.0–0.2) | (0.0–1.0) | (0.1–9.1) |
| | | 0.00218 | 0.00156 | 2.7 | 0.7 | -4.0 |
| | Diet low in fiber | (0.000498–0.00545) | (0.000261–0.00395) | (0.6–6.7) | (0.1–1.8) | (-7.8–-0.3) |

| Location Name | Risk factor | All-age death count attributable to Level 2 Cardiovascular Disease (millions) | | Age-standardized death rates attributable to Level 2 Cardiovascular Disease (per 100,000) | | Annualized rate of change (%) |
|---|---|---|---|---|---|---|
| | | 1990 | 2023 | 1990 | 2023 | 1990-2023 |
| | | 0.00694 | 0.0137 | 8.9 | 6.8 | -0.8 |
| | Diet low in seafood omega-3 fatty acids | (0.00161–0.0135) | (0.00346–0.0263) | (2.0–17.1) | (1.6–13.1) | (-3.1–0.9) |
| | | 0.00688 | 0.0173 | 8.6 | 8.5 | 0.0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (-0.0236–0.0268) | (-0.0605–0.0661) | (-28.1–33.8) | (-28.5–33.2) | (-1.4–1.2) |
| | | 0.00287 | 0.00622 | 3.5 | 3.0 | -0.5 |
| | Diet high in trans fatty acids | (0.000116–0.00659) | (0.000385–0.0133) | (0.1–8.0) | (0.2–6.2) | (-2.1–1.5) |
| | | 0.00699 | 0.0161 | 9.3 | 8.6 | -0.2 |
| | Diet high in sodium | (0.000000129–0.0292) | (0.00000382–0.0649) | (0.0–38.8) | (0.0–33.9) | (-9.4–23.0) |
| | | 0.00254 | 0.00571 | 3.5 | 3.1 | -0.3 |
| | Low physical activity | (0.000690–0.00483) | (0.00194–0.0105) | (0.8–6.9) | (0.9–5.9) | (-1.6–0.8) |
| | | 0.0954 | 0.202 | 127.8 | 108.2 | -0.5 |
| | Environmental/occupational risks | (0.0686–0.121) | (0.157–0.246) | (91.7–160.9) | (83.9–131.7) | (-1.2–0.2) |
| | | 0.0778 | 0.153 | 103.7 | 81.1 | -0.7 |
| | Air pollution | (0.0549–0.0993) | (0.115–0.191) | (73.0–133.1) | (61.2–101.3) | (-1.5–0.0) |
| | | 0.0778 | 0.153 | 103.7 | 81.1 | -0.7 |
| | Particulate matter pollution | (0.0549–0.0993) | (0.115–0.191) | (73.0–133.1) | (61.2–101.3) | (-1.5–0.0) |
| | | 0.0157 | 0.0488 | 20.8 | 26.0 | 0.7 |
| | Ambient particulate matter pollution | (0.0101–0.0222) | (0.0340–0.0649) | (13.5–29.4) | (18.3–34.2) | (-0.5–2.0) |
| | | 0.0621 | 0.104 | 82.9 | 55.0 | -1.2 |
| | Household air pollution from solid fuels | (0.0431–0.0809) | (0.0754–0.132) | (57.9–108.0) | (40.1–69.4) | (-2.0–-0.4) |
| | | 0.00508 | 0.0113 | 6.7 | 5.9 | -0.4 |
| | Non-optimal temperature | (0.00203–0.00899) | (0.00586–0.0171) | (2.8–11.6) | (3.1–8.9) | (-1.4–1.7) |
| | | 0.00295 | 0.00819 | 3.9 | 4.3 | 0.3 |
| | High temperature | (0.000577–0.00551) | (0.00334–0.0128) | (0.8–7.1) | (1.7–6.6) | (-1.0–4.4) |
| | | 0.00218 | 0.00320 | 2.8 | 1.7 | -1.6 |
| | Low temperature | (0.00128–0.00356) | (0.00196–0.00473) | (1.7–4.7) | (1.0–2.4) | (-2.4–-0.5) |
| | | 0.0249 | 0.0700 | 34.4 | 39.0 | 0.4 |
| | Other environmental risks | (0.0159–0.0358) | (0.0458–0.0990) | (22.5–48.6) | (25.5–54.8) | (-0.7–1.4) |
| | | 0.0249 | 0.0700 | 34.4 | 39.0 | 0.4 |
| | Lead exposure | (0.0159–0.0358) | (0.0458–0.0990) | (22.5–48.6) | (25.5–54.8) | (-0.7–1.4) |

**Table S10. Cardiovascular disease DALY rates by age and sex**

| | | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| **Cardiovascular diseases** | | | | | | | |
| | Under 5 | 2250 (1390–3280) | 1370 (909–2100) | 3610 (2610–4900) | 678.0 (420.4–991.4) | 438.7 (291.5–675.1) | 562.0 (406.3–762.2) |
| | 5 to 9 | 623 (473–811) | 548 (412–723) | 1170 (941–1420) | 172.6 (130.9–224.6) | 161.5 (121.5–212.9) | 167.2 (134.3–202.6) |
| | 10 to 14 | 833 (629–1040) | 857 (652–1130) | 1690 (1380–2000) | 237.1 (179.2–295.9) | 258.6 (196.9–341.7) | 247.5 (201.6–293.4) |
| | 15 to 19 | 1670 (1310–2080) | 1610 (1270–2040) | 3280 (2740–3890) | 505.4 (395.2–628.0) | 511.1 (405.2–650.7) | 508.1 (425.3–603.8) |
| | 20 to 24 | 2150 (1700–2660) | 1950 (1540–2490) | 4090 (3500–4740) | 702.4 (556.5–869.8) | 656.1 (518.0–841.2) | 679.6 (582.0–786.4) |
| | 25 to 29 | 3050 (2420–3790) | 2390 (1880–3070) | 5440 (4650–6340) | 1032.1 (819.0–1281.4) | 825.2 (648.0–1059.7) | 929.7 (794.5–1083.5) |
| | 30 to 34 | 5210 (4280–6390) | 3640 (2970–4510) | 8840 (7680–10100) | 1721.6 (1414.0–2112.5) | 1235.6 (1008.0–1533.3) | 1481.9 (1286.2–1697.6) |
| | 35 to 39 | 7790 (6640–9240) | 4590 (3850–5540) | 12400 (10800–14200) | 2633.2 (2245.9–3122.6) | 1591.8 (1337.2–1920.7) | 2119.2 (1846.8–2430.8) |
| | 40 to 44 | 11400 (9880–13200) | 6580 (5380–7870) | 18000 (16000–19800) | 4376.2 (3775.5–5040.5) | 2577.8 (2109.1–3083.7) | 3488.2 (3105.5–3835.7) |
| | 45 to 49 | 15200 (13600–17300) | 8080 (6620–9360) | 23300 (21000–25900) | 6362.1 (5683.9–7250.1) | 3445.3 (2823.1–3989.9) | 4917.3 (4425.0–5457.9) |
| | 50 to 54 | 21300 (18900–23700) | 11400 (9540–13200) | 32800 (29500–36000) | 9364.2 (8298.1–10412.5) | 5053.3 (4212.6–5822.3) | 7213.8 (6495.9–7930.6) |
| | 55 to 59 | 26200 (23300–28900) | 14400 (12400–16600) | 40600 (36900–44200) | 12827.7 (11449.2–14156.3) | 6888.3 (5930.6–7894.0) | 9816.6 (8928.6–10679.3) |
| | 60 to 64 | 30100 (27500–33000) | 17900 (15800–19900) | 48000 (44200–51200) | 18151.6 (16579.8–19895.7) | 10190.4 (9018.2–11370.0) | 14064.2 (12957.5–15007.6) |
| | 65 to 69 | 31700 (28700–34900) | 21100 (18400–23600) | 52800 (48600–56300) | 22942.0 (20786.5–25233.4) | 14096.6 (12264.8–15744.2) | 18338.3 (16862.4–19532.4) |
| | 70 to 74 | 29200 (26700–32200) | 22400 (19300–25100) | 51600 (47400–56000) | 28099.1 (25628.6–30941.8) | 18835.0 (16258.6–21149.5) | 23162.1 (21282.3–25124.0) |
| | 75 to 79 | 22700 (20200–25100) | 20500 (18100–22900) | 43200 (39100–46600) | 34339.5 (30543.9–37986.8) | 25687.9 (22747.9–28721.6) | 29610.6 (26861.1–31995.0) |
| | 80 to 84 | 17800 (15800–19600) | 19600 (16600–22300) | 37400 (33200–41100) | 45117.7 (40079.8–49559.4) | 36661.0 (31120.0–41813.8) | 40255.0 (35702.0–44208.5) |
| | 85 to 89 | 11700 (10200–13200) | 15800 (12900–17900) | 27600 (23300–30300) | 59173.8 (51514.3–66820.0) | 50301.8 (41049.5–56878.6) | 53728.6 (45525.4–59042.0) |
| | 90 to 94 | 5410 (4450–6070) | 9360 (7220–11000) | 14800 (11700–16700) | 77901.5 (64054.3–87383.6) | 70527.8 (54350.4–82507.6) | 73059.8 (58075.3–82518.9) |
| | 95 plus | 1740 (1390–1990) | 4300 (3120–5130) | 6030 (4550–6980) | 95695.2 (76562.1–109806.4) | 95935.6 (69701.5–114530.4) | 95866.3 (72339.2–110969.8) |
| **Rheumatic heart disease** | | | | | | | |
| | Under 5 | 94.0 (48.7–164) | 105 (48.5–184) | 199 (119–297) | 28.4 (14.7–49.4) | 33.8 (15.5–59.0) | 31.0 (18.4–46.2) |
| | 5 to 9 | 137 (89.5–208) | 114 (71.1–165) | 251 (175–336) | 38.0 (24.8–57.7) | 33.6 (20.9–48.7) | 35.9 (24.9–48.0) |
| | 10 to 14 | 236 (160–327) | 218 (135–329) | 454 (321–601) | 67.1 (45.6–93.1) | 65.9 (40.7–99.3) | 66.5 (47.0–88.1) |
| | 15 to 19 | 276 (185–391) | 365 (239–516) | 641 (460–837) | 83.6 (56.0–118.3) | 116.1 (76.1–164.4) | 99.4 (71.4–129.9) |
| | 20 to 24 | 384 (252–527) | 438 (282–642) | 823 (580–1070) | 125.6 (82.4–172.3) | 147.9 (95.1–216.4) | 136.6 (96.3–177.3) |
| | 25 to 29 | 445 (282–631) | 518 (327–770) | 963 (684–1270) | 150.3 (95.3–213.4) | 179.0 (112.9–265.9) | 164.5 (116.8–217.2) |
| | 30 to 34 | 459 (303–666) | 603 (362–937) | 1060 (717–1500) | 151.9 (100.0–220.3) | 204.9 (122.8–318.2) | 178.0 (120.1–251.4) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 35 to 39 | 540 (342–838) | 632 (363–969) | 1170 (782–1660) | 182.6 (115.7–283.2) | 219.2 (125.8–336.2) | 200.6 (133.8–284.9) |
| | 40 to 44 | 562 (347–938) | 717 (386–1170) | 1280 (806–1800) | 214.8 (132.8–358.7) | 281.1 (151.2–458.9) | 247.6 (156.0–348.9) |
| | 45 to 49 | 430 (270–710) | 586 (300–989) | 1020 (670–1490) | 180.0 (112.9–297.2) | 249.7 (127.7–421.5) | 214.5 (141.4–315.0) |
| | 50 to 54 | 439 (284–743) | 704 (347–1210) | 1140 (683–1760) | 192.8 (124.7–326.4) | 310.8 (153.0–534.0) | 251.6 (150.5–388.6) |
| | 55 to 59 | 459 (279–802) | 738 (347–1270) | 1200 (723–1810) | 225.2 (136.7–393.4) | 352.2 (165.3–605.4) | 289.6 (174.7–438.3) |
| | 60 to 64 | 407 (257–762) | 587 (299–968) | 994 (626–1520) | 245.0 (154.9–459.1) | 335.1 (170.5–552.7) | 291.3 (183.3–444.2) |
| | 65 to 69 | 403 (259–745) | 579 (323–945) | 982 (632–1430) | 291.6 (187.2–539.5) | 386.4 (215.5–629.8) | 340.9 (219.4–495.2) |
| | 70 to 74 | 309 (202–515) | 434 (234–645) | 743 (508–1040) | 297.3 (193.9–494.8) | 365.4 (197.2–543.4) | 333.6 (228.1–468.5) |
| | 75 to 79 | 241 (162–384) | 355 (209–503) | 595 (401–786) | 364.2 (245.3–581.0) | 445.2 (261.9–632.1) | 408.5 (275.1–539.2) |
| | 80 to 84 | 174 (114–275) | 276 (166–383) | 451 (311–609) | 441.3 (288.6–696.4) | 517.5 (310.3–717.0) | 485.1 (335.1–655.7) |
| | 85 to 89 | 112 (75.2–164) | 196 (125–276) | 307 (216–400) | 564.0 (379.4–825.8) | 621.8 (396.4–878.0) | 599.5 (420.7–780.5) |
| | 90 to 94 | 46.0 (31.2–65.2) | 101 (69.5–131) | 147 (107–190) | 663.0 (449.9–939.6) | 757.9 (523.6–986.4) | 725.3 (529.7–939.9) |
| | 95 plus | 14.0 (9.54–19.5) | 42.0 (28.4–57.7) | 55.9 (38.8–75.6) | 770.1 (525.5–1074.3) | 936.8 (634.0–1289.3) | 888.7 (616.6–1201.0) |
| **Ischemic heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 388 (278–546) | 423 (285–598) | 811 (626–1050) | 117.4 (84.0–165.3) | 134.8 (90.6–190.4) | 125.9 (97.2–162.4) |
| | 20 to 24 | 716 (534–964) | 547 (382–748) | 1260 (996–1590) | 234.2 (174.6–315.3) | 184.3 (129.0–252.1) | 209.6 (165.5–263.2) |
| | 25 to 29 | 1230 (932–1640) | 657 (484–910) | 1890 (1520–2380) | 417.2 (315.2–555.4) | 226.8 (167.0–314.1) | 323.0 (259.3–406.1) |
| | 30 to 34 | 2340 (1830–3020) | 1180 (867–1560) | 3520 (2880–4280) | 774.7 (605.9–998.1) | 399.9 (294.4–531.3) | 589.8 (483.1–716.9) |
| | 35 to 39 | 3630 (2970–4590) | 1510 (1140–1910) | 5140 (4370–6220) | 1228.0 (1004.8–1552.3) | 522.3 (394.4–664.0) | 879.7 (747.6–1065.5) |
| | 40 to 44 | 5630 (4720–6810) | 2280 (1710–2940) | 7910 (6840–9190) | 2153.7 (1803.1–2602.4) | 892.1 (671.2–1150.6) | 1530.7 (1322.8–1778.9) |
| | 45 to 49 | 7740 (6680–9120) | 2950 (2320–3700) | 10700 (9410–12300) | 3238.7 (2793.1–3815.6) | 1255.6 (989.8–1574.9) | 2256.4 (1986.2–2599.6) |
| | 50 to 54 | 11000 (9640–12700) | 4400 (3490–5430) | 15400 (13600–17400) | 4846.0 (4236.1–5594.4) | 1943.0 (1538.9–2399.3) | 3398.0 (2985.1–3832.6) |
| | 55 to 59 | 13700 (12100–15400) | 5890 (5000–7070) | 19500 (17700–21700) | 6695.3 (5948.2–7573.1) | 2807.3 (2385.7–3370.5) | 4724.2 (4283.1–5239.0) |
| | 60 to 64 | 15300 (13800–17100) | 7470 (6320–8770) | 22800 (20900–25000) | 9239.6 (8291.7–10294.7) | 4261.3 (3609.8–5005.2) | 6683.7 (6131.8–7311.5) |
| | 65 to 69 | 15400 (13800–17000) | 8820 (7450–10300) | 24200 (22300–26200) | 11146.0 (9975.3–12328.2) | 5882.8 (4966.1–6885.2) | 8406.7 (7744.6–9081.7) |
| | 70 to 74 | 13600 (12300–15100) | 9320 (7950–10700) | 22900 (20900–25000) | 13042.6 (11845.0–14504.3) | 7854.6 (6697.2–9021.2) | 10277.8 (9368.1–11221.4) |
| | 75 to 79 | 10100 (9060–11500) | 8370 (7160–9390) | 18500 (16700–20100) | 15353.1 (13712.5–17452.7) | 10506.4 (8991.6–11793.9) | 12703.9 (11465.3–13794.1) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 80 to 84 | 8090 (7110–9200) | 8230 (6850–9450) | 16300 (14200–18100) | 20506.8 (18008.8–23317.0) | 15417.3 (12818.6–17690.5) | 17580.3 (15309.3–19507.0) |
| | 85 to 89 | 5400 (4700–6070) | 6810 (5480–7770) | 12200 (10300–13500) | 27267.6 (23726.3–30660.5) | 21621.9 (17410.6–24690.2) | 23802.6 (20066.5–26368.4) |
| | 90 to 94 | 2590 (2120–2930) | 4090 (3170–4770) | 6680 (5310–7510) | 37255.3 (30532.5–42178.7) | 30820.2 (23879.3–35951.4) | 33029.9 (26242.8–37137.7) |
| | 95 plus | 853 (668–997) | 1860 (1350–2230) | 2710 (2040–3210) | 46991.0 (36812.5–54942.3) | 41487.1 (30130.0–49716.7) | 43074.8 (32404.6–50981.0) |
| **Stroke** | | | | | | | |
| | Under 5 | 1050 (565–1680) | 420 (234–743) | 1470 (938–2170) | 315.7 (170.6–508.2) | 134.6 (75.2–238.4) | 227.9 (145.8–338.1) |
| | 5 to 9 | 203 (142–279) | 194 (135–279) | 397 (304–518) | 56.3 (39.3–77.2) | 57.1 (39.7–82.3) | 56.7 (43.4–73.9) |
| | 10 to 14 | 257 (184–333) | 331 (228–464) | 587 (453–754) | 73.0 (52.3–94.9) | 99.9 (68.9–140.2) | 86.1 (66.4–110.4) |
| | 15 to 19 | 627 (459–832) | 505 (364–683) | 1130 (874–1450) | 189.7 (138.7–251.6) | 160.9 (115.9–217.5) | 175.6 (135.5–224.9) |
| | 20 to 24 | 615 (465–807) | 572 (421–794) | 1190 (936–1480) | 201.2 (152.3–264.1) | 192.9 (141.8–267.7) | 197.1 (155.4–246.6) |
| | 25 to 29 | 771 (600–991) | 711 (541–946) | 1480 (1180–1810) | 260.8 (202.9–335.0) | 245.5 (186.6–326.7) | 253.2 (201.4–309.6) |
| | 30 to 34 | 1410 (1070–1800) | 1130 (881–1510) | 2540 (2060–3090) | 465.7 (354.8–596.4) | 385.0 (299.1–511.3) | 425.9 (346.0–517.9) |
| | 35 to 39 | 2230 (1760–2820) | 1600 (1250–2070) | 3820 (3150–4530) | 752.4 (596.5–954.5) | 554.2 (432.2–718.0) | 654.6 (539.9–775.0) |
| | 40 to 44 | 3320 (2760–4030) | 2440 (1910–3100) | 5760 (4810–6650) | 1268.5 (1055.5–1542.4) | 956.3 (746.8–1214.7) | 1114.3 (931.0–1287.1) |
| | 45 to 49 | 4720 (4010–5770) | 3180 (2590–4010) | 7900 (6770–9060) | 1973.8 (1676.5–2415.8) | 1354.9 (1105.2–1709.0) | 1667.3 (1429.0–1912.2) |
| | 50 to 54 | 7010 (5900–8300) | 4610 (3670–5550) | 11600 (10100–13100) | 3081.0 (2593.4–3648.0) | 2034.1 (1621.2–2452.2) | 2558.8 (2214.1–2888.7) |
| | 55 to 59 | 8700 (7490–10000) | 5710 (4730–6790) | 14400 (12800–16100) | 4266.5 (3671.3–4903.6) | 2724.4 (2257.8–3238.7) | 3484.7 (3099.0–3881.4) |
| | 60 to 64 | 10500 (9060–11900) | 7120 (6040–8410) | 17600 (15500–19500) | 6301.7 (5458.3–7160.9) | 4062.2 (3445.8–4802.6) | 5151.9 (4542.4–5722.0) |
| | 65 to 69 | 11700 (10200–13300) | 8510 (7070–10000) | 20200 (18100–22400) | 8461.0 (7413.6–9591.9) | 5671.0 (4713.0–6699.7) | 7008.9 (6297.8–7773.5) |
| | 70 to 74 | 11200 (9800–12900) | 8950 (7440–10300) | 20200 (17900–22600) | 10769.6 (9417.1–12438.3) | 7539.9 (6267.8–8642.0) | 9048.5 (8053.3–10133.8) |
| | 75 to 79 | 8780 (7420–10100) | 8100 (6840–9520) | 16900 (15100–18800) | 13281.7 (11228.5–15268.5) | 10174.2 (8589.3–11952.9) | 11583.1 (10367.9–12910.1) |
| | 80 to 84 | 6520 (5690–7510) | 7230 (5830–8440) | 13800 (12000–15400) | 16532.0 (14411.3–19023.2) | 13547.7 (10910.7–15808.0) | 14816.0 (12938.7–16582.4) |
| | 85 to 89 | 4050 (3430–4620) | 5390 (4400–6290) | 9440 (8050–10600) | 20431.6 (17331.4–23305.7) | 17135.4 (13987.1–19981.7) | 18408.5 (15699.7–20717.2) |
| | 90 to 94 | 1660 (1350–1900) | 2850 (2250–3370) | 4500 (3600–5180) | 23894.1 (19375.9–27415.1) | 21434.4 (16929.9–25355.2) | 22279.1 (17820.6–25608.3) |
| | 95 plus | 475 (368–568) | 1220 (902–1460) | 1700 (1280–1990) | 26136.7 (20249.4–31280.7) | 27351.6 (20145.2–32567.1) | 27001.2 (20394.9–31693.9) |
| **Ischemic stroke** | | | | | | | |
| | Under 5 | 147 (62.2–289) | 77.0 (35.7–161) | 224 (122–368) | 44.4 (18.8–87.1) | 24.7 (11.5–51.6) | 34.8 (19.0–57.2) |
| | 5 to 9 | 54.0 (37.7–74.9) | 48.9 (33.4–72.1) | 103 (73.9–141) | 15.0 (10.4–20.7) | 14.4 (9.8–21.2) | 14.7 (10.6–20.2) |
| | 10 to 14 | 66.5 (48.0–88.8) | 76.1 (50.8–117) | 143 (105–188) | 18.9 (13.7–25.3) | 23.0 (15.3–35.3) | 20.9 (15.3–27.5) |

| | | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 15 to 19 | 125 (85.4–176) | 122 (82.3–183) | 247 (177–335) | 37.8 (25.8–53.2) | 38.8 (26.2–58.3) | 38.3 (27.4–51.9) |
| | 20 to 24 | 133 (95.7–175) | 142 (103–200) | 275 (206–354) | 43.4 (31.3–57.1) | 48.0 (34.6–67.4) | 45.7 (34.3–58.8) |
| | 25 to 29 | 164 (122–210) | 177 (128–243) | 340 (261–427) | 55.4 (41.1–71.1) | 61.0 (44.2–84.0) | 58.2 (44.5–73.0) |
| | 30 to 34 | 266 (200–340) | 265 (194–369) | 531 (407–662) | 87.9 (66.3–112.5) | 90.1 (66.0–125.4) | 89.0 (68.2–110.9) |
| | 35 to 39 | 399 (312–501) | 356 (266–458) | 755 (601–932) | 134.9 (105.4–169.3) | 123.4 (92.3–159.0) | 129.2 (102.9–159.5) |
| | 40 to 44 | 586 (464–730) | 503 (372–680) | 1090 (882–1320) | 224.1 (177.4–279.1) | 197.0 (145.7–266.6) | 210.7 (170.6–255.9) |
| | 45 to 49 | 1010 (833–1250) | 692 (514–917) | 1700 (1410–2040) | 423.3 (348.7–521.2) | 295.0 (219.2–390.9) | 359.8 (297.1–431.5) |
| | 50 to 54 | 1730 (1410–2060) | 1080 (829–1370) | 2810 (2310–3300) | 759.2 (618.5–904.8) | 475.6 (365.8–604.2) | 617.7 (509.3–727.2) |
| | 55 to 59 | 2470 (2070–2950) | 1520 (1180–1880) | 4000 (3410–4570) | 1212.0 (1014.2–1445.5) | 726.5 (563.4–895.8) | 965.9 (823.8–1105.8) |
| | 60 to 64 | 4160 (3520–4870) | 2550 (1970–3160) | 6710 (5760–7620) | 2506.8 (2116.8–2930.9) | 1456.1 (1121.9–1806.3) | 1967.3 (1687.8–2233.8) |
| | 65 to 69 | 5120 (4430–6160) | 3380 (2630–4090) | 8500 (7330–9680) | 3707.6 (3208.0–4457.3) | 2251.9 (1752.8–2725.6) | 2950.0 (2545.3–3358.7) |
| | 70 to 74 | 5960 (5150–6870) | 4760 (3830–5650) | 10700 (9520–12200) | 5729.5 (4948.7–6601.0) | 4014.7 (3226.5–4764.8) | 4815.6 (4272.6–5459.7) |
| | 75 to 79 | 4860 (4130–5630) | 4520 (3660–5340) | 9390 (8210–10700) | 7361.9 (6246.2–8524.9) | 5676.5 (4599.1–6699.3) | 6440.7 (5633.5–7324.1) |
| | 80 to 84 | 4110 (3540–4710) | 4690 (3800–5520) | 8800 (7750–9840) | 10422.4 (8956.7–11932.9) | 8783.3 (7109.9–10328.0) | 9479.9 (8350.2–10597.8) |
| | 85 to 89 | 2630 (2260–2980) | 3640 (3000–4220) | 6270 (5330–7040) | 13280.3 (11387.8–15060.4) | 11573.7 (9521.1–13422.3) | 12232.9 (10386.5–13726.2) |
| | 90 to 94 | 1130 (923–1280) | 2040 (1590–2390) | 3160 (2530–3610) | 16258.8 (13295.8–18439.5) | 15330.6 (11974.6–17974.9) | 15649.4 (12522.6–17854.2) |
| | 95 plus | 337 (267–406) | 929 (685–1110) | 1270 (967–1480) | 18584.6 (14727.2–22371.5) | 20740.8 (15307.5–24818.7) | 20118.8 (15371.7–23528.2) |
| **Intracerebral hemorrhage** | | | | | | | |
| | Under 5 | 713 (350–1210) | 275 (141–511) | 989 (564–1520) | 215.3 (105.6–364.0) | 88.3 (45.3–164.0) | 153.8 (87.7–235.9) |
| | 5 to 9 | 118 (77.5–176) | 114 (74.2–178) | 232 (169–314) | 32.7 (21.5–48.6) | 33.6 (21.9–52.3) | 33.1 (24.1–44.8) |
| | 10 to 14 | 145 (100–204) | 192 (125–289) | 337 (240–460) | 41.3 (28.5–58.1) | 58.0 (37.6–87.2) | 49.4 (35.2–67.4) |
| | 15 to 19 | 407 (269–574) | 313 (219–468) | 719 (530–927) | 123.0 (81.5–173.5) | 99.6 (69.7–148.9) | 111.6 (82.3–143.7) |
| | 20 to 24 | 387 (266–528) | 338 (236–477) | 726 (548–912) | 126.7 (87.0–172.8) | 114.0 (79.7–160.9) | 120.5 (91.0–151.4) |
| | 25 to 29 | 471 (347–633) | 414 (295–585) | 885 (672–1100) | 159.3 (117.2–213.9) | 142.8 (101.7–201.9) | 151.1 (114.8–188.4) |
| | 30 to 34 | 928 (672–1250) | 675 (502–975) | 1600 (1270–1980) | 306.9 (222.2–413.6) | 229.2 (170.4–331.2) | 268.6 (212.8–331.7) |
| | 35 to 39 | 1500 (1140–1940) | 958 (700–1320) | 2460 (2000–2980) | 508.4 (384.4–657.5) | 332.3 (242.9–456.7) | 421.5 (343.2–510.4) |
| | 40 to 44 | 2290 (1850–2850) | 1530 (1100–2060) | 3820 (3140–4470) | 876.4 (707.5–1089.0) | 599.1 (431.4–805.6) | 739.5 (606.9–864.3) |
| | 45 to 49 | 3220 (2660–4050) | 2040 (1620–2650) | 5260 (4440–6090) | 1345.7 (1114.1–1692.8) | 869.2 (692.0–1131.3) | 1109.7 (938.2–1286.2) |
| | 50 to 54 | 4670 (3850–5690) | 2970 (2270–3740) | 7640 (6440–8730) | 2050.7 (1693.1–2500.8) | 1310.1 (1002.7–1650.0) | 1681.3 (1417.3–1921.4) |
| | 55 to 59 | 5530 (4610–6520) | 3530 (2790–4350) | 9060 (7760–10400) | 2712.6 (2260.1–3198.5) | 1682.8 (1328.3–2074.0) | 2190.5 (1876.2–2507.4) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 60 to 64 | 5750 (4780–6840) | 3990 (3200–5090) | 9750 (8400–11200) | 3464.9 (2877.0–4120.8) | 2280.1 (1825.3–2903.6) | 2856.6 (2461.4–3273.8) |
| | 65 to 69 | 6020 (5040–7150) | 4530 (3540–5620) | 10600 (9090–11900) | 4357.9 (3650.2–5171.2) | 3021.8 (2363.2–3747.1) | 3662.5 (3154.5–4144.9) |
| | 70 to 74 | 4810 (3950–5850) | 3720 (2910–4570) | 8530 (7340–9860) | 4624.0 (3794.2–5622.5) | 3131.1 (2454.2–3846.9) | 3828.4 (3293.7–4427.7) |
| | 75 to 79 | 3590 (2930–4280) | 3210 (2520–3980) | 6800 (5850–7930) | 5437.4 (4427.7–6482.8) | 4026.2 (3159.3–4998.5) | 4666.0 (4011.5–5444.2) |
| | 80 to 84 | 2190 (1780–2710) | 2270 (1740–2880) | 4460 (3740–5280) | 5554.8 (4515.9–6869.3) | 4250.9 (3249.7–5388.4) | 4805.0 (4028.3–5690.7) |
| | 85 to 89 | 1280 (1010–1580) | 1560 (1180–1980) | 2840 (2270–3350) | 6474.8 (5085.0–7982.3) | 4945.0 (3747.6–6280.4) | 5535.9 (4417.4–6533.9) |
| | 90 to 94 | 475 (367–589) | 712 (524–929) | 1190 (924–1440) | 6838.9 (5288.7–8480.9) | 5364.1 (3944.5–6995.2) | 5870.5 (4571.1–7116.8) |
| | 95 plus | 122 (89.0–157) | 255 (179–334) | 378 (271–470) | 6729.5 (4900.6–8645.3) | 5703.4 (3989.4–7448.2) | 5999.4 (4309.0–7471.7) |
| **Subarachnoid hemorrhage** | | | | | | | |
| | Under 5 | 185 (73.8–362) | 67.3 (26.1–146) | 253 (119–451) | 56.0 (22.3–109.3) | 21.6 (8.4–46.9) | 39.3 (18.5–70.1) |
| | 5 to 9 | 31.1 (18.3–53.5) | 31.0 (18.3–56.3) | 62.1 (40.4–98.4) | 8.6 (5.1–14.8) | 9.1 (5.4–16.6) | 8.9 (5.8–14.0) |
| | 10 to 14 | 45.0 (28.9–71.3) | 62.6 (32.9–120) | 108 (69.9–172) | 12.8 (8.2–20.3) | 18.9 (9.9–36.1) | 15.8 (10.2–25.2) |
| | 15 to 19 | 95.2 (60.4–154) | 70.8 (42.9–125) | 166 (114–260) | 28.8 (18.3–46.5) | 22.5 (13.6–39.9) | 25.8 (17.7–40.3) |
| | 20 to 24 | 94.9 (66.2–143) | 91.7 (57.4–151) | 187 (141–269) | 31.0 (21.7–46.8) | 30.9 (19.4–50.9) | 31.0 (23.4–44.7) |
| | 25 to 29 | 137 (100–197) | 121 (81.4–186) | 257 (198–346) | 46.2 (33.8–66.5) | 41.7 (28.1–64.3) | 43.9 (33.8–59.2) |
| | 30 to 34 | 215 (160–304) | 194 (132–304) | 408 (318–553) | 70.9 (53.0–100.4) | 65.7 (44.9–103.2) | 68.4 (53.2–92.7) |
| | 35 to 39 | 323 (245–442) | 284 (207–427) | 607 (484–789) | 109.1 (82.9–149.4) | 98.6 (71.7–148.2) | 103.9 (82.9–135.1) |
| | 40 to 44 | 440 (326–577) | 409 (295–580) | 848 (681–1100) | 168.1 (124.6–220.6) | 160.2 (115.7–227.3) | 164.2 (131.9–211.9) |
| | 45 to 49 | 490 (377–641) | 447 (339–658) | 937 (764–1170) | 204.8 (157.9–268.2) | 190.6 (144.7–280.3) | 197.8 (161.3–246.5) |
| | 50 to 54 | 617 (478–803) | 563 (433–802) | 1180 (967–1500) | 271.1 (210.1–352.7) | 248.4 (191.1–354.3) | 259.8 (212.8–329.4) |
| | 55 to 59 | 697 (562–907) | 661 (516–915) | 1360 (1120–1680) | 341.9 (275.7–444.7) | 315.1 (246.2–436.5) | 328.3 (270.7–406.1) |
| | 60 to 64 | 548 (436–709) | 571 (451–772) | 1120 (944–1360) | 330.0 (262.6–427.1) | 326.0 (257.2–440.7) | 328.0 (276.5–399.3) |
| | 65 to 69 | 547 (443–683) | 596 (473–800) | 1140 (963–1370) | 395.5 (320.9–494.0) | 397.3 (315.4–533.5) | 396.4 (334.0–474.6) |
| | 70 to 74 | 433 (351–539) | 468 (382–583) | 901 (766–1060) | 416.2 (337.4–517.7) | 394.1 (321.8–491.0) | 404.4 (343.8–474.6) |
| | 75 to 79 | 319 (259–393) | 376 (310–484) | 694 (591–828) | 482.4 (391.8–594.3) | 471.5 (388.9–607.0) | 476.4 (405.3–568.1) |
| | 80 to 84 | 219 (177–269) | 274 (212–338) | 493 (420–571) | 554.8 (449.3–681.8) | 513.6 (397.5–632.4) | 531.1 (452.2–614.8) |
| | 85 to 89 | 134 (111–165) | 194 (152–242) | 328 (267–382) | 676.4 (561.9–832.7) | 616.7 (481.7–769.1) | 639.7 (520.3–745.7) |
| | 90 to 94 | 55.3 (44.6–68.2) | 98.2 (74.3–120) | 153 (120–182) | 796.4 (642.4–981.7) | 739.7 (559.4–905.7) | 759.2 (592.2–898.8) |
| | 95 plus | 14.9 (11.2–18.8) | 40.6 (29.0–50.4) | 55.6 (41.3–66.6) | 822.6 (617.5–1034.9) | 907.5 (646.9–1125.3) | 883.0 (656.9–1058.6) |
| **Hypertensive heart disease** | | | | | | | |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 32.7 (19.8–52.8) | 46.5 (24.2–76.9) | 79.1 (51.3–115) | 9.9 (6.0–16.0) | 14.8 (7.7–24.5) | 12.3 (8.0–17.8) |
| | 20 to 24 | 56.5 (35.2–86.7) | 51.6 (27.6–83.4) | 108 (74.5–152) | 18.5 (11.5–28.4) | 17.4 (9.3–28.1) | 17.9 (12.4–25.2) |
| | 25 to 29 | 94.8 (62.2–142) | 86.7 (48.3–141) | 182 (129–252) | 32.0 (21.0–47.9) | 30.0 (16.7–48.6) | 31.0 (22.1–43.1) |
| | 30 to 34 | 215 (143–331) | 177 (102–289) | 392 (279–541) | 71.2 (47.2–109.4) | 60.0 (34.5–98.0) | 65.7 (46.7–90.6) |
| | 35 to 39 | 336 (227–509) | 253 (146–397) | 589 (420–798) | 113.6 (76.6–172.1) | 87.8 (50.8–137.8) | 100.9 (72.0–136.6) |
| | 40 to 44 | 537 (372–783) | 384 (222–593) | 921 (691–1210) | 205.4 (142.2–299.4) | 150.4 (87.2–232.3) | 178.2 (133.7–234.3) |
| | 45 to 49 | 781 (567–1110) | 560 (348–872) | 1340 (1040–1770) | 326.6 (237.1–466.0) | 238.6 (148.3–371.6) | 283.0 (219.5–373.4) |
| | 50 to 54 | 1110 (817–1540) | 788 (510–1180) | 1900 (1460–2460) | 486.6 (359.1–674.6) | 347.8 (225.0–521.6) | 417.4 (320.6–542.2) |
| | 55 to 59 | 1340 (989–1770) | 1000 (665–1480) | 2340 (1820–2970) | 655.0 (484.7–866.7) | 478.7 (317.0–705.3) | 565.6 (440.6–717.1) |
| | 60 to 64 | 1650 (1240–2190) | 1300 (885–1890) | 2960 (2330–3730) | 994.3 (749.7–1319.8) | 744.4 (504.9–1079.1) | 866.0 (682.9–1091.9) |
| | 65 to 69 | 1750 (1350–2250) | 1590 (1130–2240) | 3340 (2660–4150) | 1263.3 (980.0–1629.6) | 1060.4 (753.9–1493.4) | 1157.7 (922.5–1439.6) |
| | 70 to 74 | 1730 (1330–2200) | 1790 (1270–2500) | 3520 (2810–4410) | 1659.0 (1280.3–2110.2) | 1508.3 (1067.2–2106.9) | 1578.7 (1259.9–1979.3) |
| | 75 to 79 | 1410 (1130–1820) | 1760 (1290–2320) | 3170 (2480–3930) | 2133.2 (1710.2–2760.5) | 2206.0 (1618.9–2912.3) | 2173.0 (1698.5–2695.9) |
| | 80 to 84 | 1200 (926–1530) | 1830 (1320–2410) | 3030 (2340–3660) | 3042.5 (2347.1–3865.8) | 3431.2 (2478.1–4517.8) | 3266.0 (2519.4–3938.9) |
| | 85 to 89 | 860 (664–1080) | 1610 (1190–2020) | 2470 (1900–2960) | 4340.3 (3352.6–5476.6) | 5108.5 (3780.1–6421.1) | 4811.8 (3703.1–5770.0) |
| | 90 to 94 | 418 (324–510) | 1010 (746–1230) | 1430 (1080–1700) | 6017.8 (4665.8–7344.6) | 7591.3 (5620.6–9279.6) | 7051.0 (5360.4–8391.2) |
| | 95 plus | 146 (112–185) | 512 (363–635) | 658 (479–804) | 8053.7 (6162.6–10186.9) | 11432.2 (8109.0–14187.2) | 10457.6 (7613.2–12772.1) |
| **Non-rheumatic valvular heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 27.1 (14.9–44.3) | 24.6 (12.0–42.0) | 51.6 (33.4–75.3) | 8.2 (4.5–13.4) | 7.8 (3.8–13.4) | 8.0 (5.2–11.7) |
| | 20 to 24 | 29.7 (17.8–46.0) | 24.6 (13.1–41.6) | 54.3 (36.0–81.8) | 9.7 (5.8–15.0) | 8.3 (4.4–14.0) | 9.0 (6.0–13.6) |
| | 25 to 29 | 30.8 (19.8–46.5) | 24.2 (13.5–40.5) | 55.0 (37.2–80.0) | 10.4 (6.7–15.7) | 8.4 (4.7–14.0) | 9.4 (6.4–13.7) |
| | 30 to 34 | 37.9 (24.4–57.0) | 29.5 (16.9–49.8) | 67.5 (47.5–96.7) | 12.5 (8.1–18.8) | 10.0 (5.7–16.9) | 11.3 (8.0–16.2) |
| | 35 to 39 | 46.6 (30.4–66.3) | 31.4 (18.7–49.6) | 78.0 (57.5–106) | 15.8 (10.3–22.4) | 10.9 (6.5–17.2) | 13.4 (9.9–18.2) |
| | 40 to 44 | 57.3 (40.3–80.8) | 39.5 (25.0–61.4) | 96.8 (73.3–130) | 21.9 (15.4–30.9) | 15.5 (9.8–24.1) | 18.7 (14.2–25.2) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 45 to 49 | 61.4 (46.3–84.8) | 42.5 (28.1–62.0) | 104 (81.6–133) | 25.7 (19.4–35.5) | 18.1 (12.0–26.4) | 21.9 (17.2–28.0) |
| | 50 to 54 | 81.7 (62.8–105) | 51.2 (35.6–74.0) | 133 (108–168) | 35.9 (27.6–46.2) | 22.6 (15.7–32.7) | 29.3 (23.8–37.0) |
| | 55 to 59 | 101 (81.3–126) | 61.7 (47.6–84.0) | 163 (138–202) | 49.6 (39.9–61.7) | 29.4 (22.7–40.1) | 39.4 (33.3–48.9) |
| | 60 to 64 | 135 (111–172) | 88.2 (68.5–118) | 223 (190–275) | 81.3 (66.6–103.5) | 50.3 (39.1–67.2) | 65.4 (55.7–80.4) |
| | 65 to 69 | 164 (137–199) | 120 (92.4–159) | 284 (246–335) | 118.5 (99.3–144.0) | 79.9 (61.6–106.2) | 98.4 (85.5–116.3) |
| | 70 to 74 | 196 (166–236) | 153 (123–190) | 349 (302–413) | 188.6 (160.0–227.0) | 129.1 (103.3–160.4) | 156.9 (135.8–185.5) |
| | 75 to 79 | 200 (173–240) | 180 (144–218) | 380 (327–445) | 303.2 (262.6–363.5) | 225.9 (181.3–273.1) | 261.0 (224.6–305.4) |
| | 80 to 84 | 204 (174–241) | 224 (180–264) | 428 (354–500) | 517.4 (440.0–610.5) | 419.6 (337.1–493.6) | 461.1 (381.6–538.8) |
| | 85 to 89 | 178 (149–202) | 258 (199–300) | 436 (344–497) | 896.9 (749.7–1018.0) | 820.1 (631.2–954.5) | 849.7 (671.6–970.0) |
| | 90 to 94 | 109 (89.7–122) | 228 (165–265) | 336 (254–385) | 1567.2 (1292.6–1752.9) | 1715.1 (1242.7–1994.4) | 1664.3 (1257.0–1906.7) |
| | 95 plus | 41.9 (33.4–47.4) | 143 (102–172) | 185 (135–218) | 2305.6 (1842.1–2608.7) | 3200.0 (2271.2–3834.6) | 2942.0 (2147.1–3466.1) |
| **Non-rheumatic calcific aortic valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 14.2 (8.03–24.7) | 8.10 (3.31–14.6) | 22.3 (13.3–34.4) | 4.3 (2.4–7.5) | 2.6 (1.1–4.6) | 3.5 (2.1–5.3) |
| | 20 to 24 | 16.0 (9.24–26.2) | 7.69 (3.38–14.6) | 23.7 (15.3–37.3) | 5.2 (3.0–8.6) | 2.6 (1.1–4.9) | 3.9 (2.5–6.2) |
| | 25 to 29 | 17.5 (10.9–26.7) | 8.26 (4.14–15.2) | 25.8 (17.3–38.1) | 5.9 (3.7–9.0) | 2.9 (1.4–5.3) | 4.4 (3.0–6.5) |
| | 30 to 34 | 22.5 (14.2–34.4) | 11.1 (5.90–19.0) | 33.5 (22.5–49.6) | 7.4 (4.7–11.4) | 3.8 (2.0–6.4) | 5.6 (3.8–8.3) |
| | 35 to 39 | 29.4 (19.1–43.4) | 11.3 (6.02–18.2) | 40.7 (28.9–56.1) | 9.9 (6.5–14.7) | 3.9 (2.1–6.3) | 7.0 (4.9–9.6) |
| | 40 to 44 | 35.9 (24.5–52.4) | 15.6 (9.71–26.7) | 51.5 (38.6–71.1) | 13.7 (9.4–20.0) | 6.1 (3.8–10.5) | 10.0 (7.5–13.8) |
| | 45 to 49 | 41.8 (31.3–56.9) | 17.6 (11.0–27.0) | 59.4 (46.6–76.6) | 17.5 (13.1–23.8) | 7.5 (4.7–11.5) | 12.5 (9.8–16.2) |
| | 50 to 54 | 54.8 (41.6–72.4) | 23.5 (15.9–35.5) | 78.3 (62.8–96.5) | 24.1 (18.3–31.8) | 10.4 (7.0–15.7) | 17.2 (13.8–21.2) |
| | 55 to 59 | 68.9 (55.6–87.1) | 30.3 (22.8–40.8) | 99.3 (80.5–119) | 33.8 (27.3–42.7) | 14.5 (10.9–19.5) | 24.0 (19.5–28.8) |
| | 60 to 64 | 93.0 (75.3–115) | 47.5 (37.4–62.7) | 140 (121–166) | 56.0 (45.4–69.0) | 27.1 (21.3–35.8) | 41.2 (35.4–48.7) |
| | 65 to 69 | 113 (95.0–136) | 70.5 (55.4–93.5) | 184 (155–213) | 82.0 (68.8–98.3) | 47.0 (36.9–62.4) | 63.8 (53.9–74.0) |
| | 70 to 74 | 136 (117–159) | 95.9 (77.0–120) | 232 (205–263) | 130.9 (113.0–153.3) | 80.8 (64.8–100.9) | 104.2 (92.0–118.2) |
| | 75 to 79 | 141 (123–160) | 119 (98.6–140) | 259 (229–294) | 212.8 (185.9–242.6) | 149.2 (123.8–176.4) | 178.0 (157.2–201.9) |
| | 80 to 84 | 153 (130–174) | 166 (135–195) | 319 (268–362) | 388.2 (328.9–441.4) | 311.2 (252.5–365.9) | 343.9 (288.2–389.9) |
| | 85 to 89 | 141 (118–157) | 205 (154–238) | 346 (272–391) | 711.1 (594.0–790.9) | 651.4 (490.1–755.4) | 674.5 (529.9–762.0) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 90 to 94 | 90.2 (74.4–101) | 189 (136–221) | 279 (210–321) | 1299.7 (1071.3–1456.8) | 1425.3 (1024.7–1664.9) | 1382.2 (1040.3–1586.1) |
| | 95 plus | 34.9 (27.7–40.2) | 122 (84.4–146) | 157 (113–183) | 1923.3 (1527.0–2214.7) | 2715.3 (1885.0–3269.0) | 2486.8 (1788.3–2906.9) |
| **Non-rheumatic degenerative mitral valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 11.6 (5.23–22.3) | 15.3 (6.76–29.2) | 26.9 (15.8–42.0) | 3.5 (1.6–6.8) | 4.9 (2.2–9.3) | 4.2 (2.5–6.5) |
| | 20 to 24 | 12.5 (6.12–24.0) | 15.5 (7.41–28.0) | 28.1 (16.8–44.3) | 4.1 (2.0–7.8) | 5.2 (2.5–9.4) | 4.7 (2.8–7.4) |
| | 25 to 29 | 12.0 (6.22–21.7) | 14.3 (7.53–27.1) | 26.3 (16.6–42.5) | 4.0 (2.1–7.3) | 4.9 (2.6–9.4) | 4.5 (2.8–7.3) |
| | 30 to 34 | 14.5 (7.80–25.4) | 17.2 (8.61–32.7) | 31.7 (20.2–48.8) | 4.8 (2.6–8.4) | 5.8 (2.9–11.1) | 5.3 (3.4–8.2) |
| | 35 to 39 | 16.2 (8.93–28.6) | 18.5 (10.1–32.6) | 34.7 (22.8–53.8) | 5.5 (3.0–9.7) | 6.4 (3.5–11.3) | 5.9 (3.9–9.2) |
| | 40 to 44 | 20.2 (11.6–34.4) | 22.4 (13.0–36.9) | 42.6 (29.0–62.6) | 7.7 (4.4–13.2) | 8.8 (5.1–14.4) | 8.2 (5.6–12.1) |
| | 45 to 49 | 18.5 (12.0–29.2) | 23.5 (14.3–40.0) | 42.0 (30.4–61.0) | 7.8 (5.0–12.2) | 10.0 (6.1–17.0) | 8.9 (6.4–12.9) |
| | 50 to 54 | 25.5 (16.8–41.0) | 25.9 (15.3–42.0) | 51.4 (37.8–75.3) | 11.2 (7.4–18.0) | 11.4 (6.8–18.6) | 11.3 (8.3–16.6) |
| | 55 to 59 | 30.3 (21.4–44.2) | 29.4 (19.9–46.0) | 59.7 (45.9–85.6) | 14.9 (10.5–21.7) | 14.0 (9.5–21.9) | 14.4 (11.1–20.7) |
| | 60 to 64 | 40.1 (29.6–58.3) | 38.1 (26.3–53.6) | 78.2 (61.8–107) | 24.1 (17.8–35.1) | 21.7 (15.0–30.6) | 22.9 (18.1–31.2) |
| | 65 to 69 | 48.4 (36.4–67.7) | 46.6 (33.9–65.2) | 95.1 (74.1–125) | 35.1 (26.4–49.0) | 31.1 (22.6–43.5) | 33.0 (25.7–43.5) |
| | 70 to 74 | 58.2 (43.8–76.6) | 54.6 (41.1–73.2) | 113 (90.5–146) | 56.0 (42.1–73.7) | 46.0 (34.6–61.7) | 50.7 (40.7–65.7) |
| | 75 to 79 | 58.2 (43.3–75.7) | 58.8 (43.7–77.6) | 117 (90.6–152) | 88.1 (65.5–114.5) | 73.8 (54.9–97.5) | 80.3 (62.2–104.5) |
| | 80 to 84 | 49.6 (38.1–66.6) | 55.5 (41.7–70.6) | 105 (81.0–133) | 125.7 (96.5–168.7) | 104.0 (78.0–132.1) | 113.2 (87.2–143.4) |
| | 85 to 89 | 35.9 (27.9–45.9) | 51.2 (39.0–66.1) | 87.1 (68.1–108) | 181.1 (140.7–231.5) | 162.7 (124.0–210.1) | 169.8 (132.8–211.2) |
| | 90 to 94 | 18.1 (14.3–22.5) | 37.4 (27.5–45.5) | 55.5 (42.5–66.9) | 260.8 (206.6–323.9) | 281.4 (207.0–342.8) | 274.3 (210.3–331.1) |
| | 95 plus | 6.86 (5.35–8.13) | 21.2 (15.0–26.3) | 28.1 (21.1–34.0) | 377.8 (294.8–447.9) | 473.9 (335.6–586.8) | 446.2 (334.5–540.9) |
| **Other non-rheumatic valve diseases** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 1.28 (0.629–2.63) | 1.17 (0.522–2.48) | 2.45 (1.50–4.41) | 0.4 (0.2–0.8) | 0.4 (0.2–0.8) | 0.4 (0.2–0.7) |
| | 20 to 24 | 1.20 (0.572–2.54) | 1.38 (0.598–3.04) | 2.58 (1.54–4.59) | 0.4 (0.2–0.8) | 0.5 (0.2–1.0) | 0.4 (0.3–0.8) |

| | | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 25 to 29 | 1.32 (0.657–2.78) | 1.63 (0.680–3.58) | 2.95 (1.75–5.15) | 0.4 (0.2–0.9) | 0.6 (0.2–1.2) | 0.5 (0.3–0.9) |
| | 30 to 34 | 0.956 (0.493–1.91) | 1.27 (0.566–2.88) | 2.23 (1.26–3.93) | 0.3 (0.2–0.6) | 0.4 (0.2–1.0) | 0.4 (0.2–0.7) |
| | 35 to 39 | 0.992 (0.506–1.98) | 1.62 (0.611–3.25) | 2.61 (1.41–4.42) | 0.3 (0.2–0.7) | 0.6 (0.2–1.1) | 0.4 (0.2–0.8) |
| | 40 to 44 | 1.20 (0.627–2.32) | 1.52 (0.713–3.07) | 2.73 (1.70–4.54) | 0.5 (0.2–0.9) | 0.6 (0.3–1.2) | 0.5 (0.3–0.9) |
| | 45 to 49 | 1.07 (0.575–1.99) | 1.44 (0.673–2.92) | 2.51 (1.47–4.32) | 0.4 (0.2–0.8) | 0.6 (0.3–1.2) | 0.5 (0.3–0.9) |
| | 50 to 54 | 1.47 (0.750–2.64) | 1.71 (0.824–3.79) | 3.18 (1.94–5.46) | 0.6 (0.3–1.2) | 0.8 (0.4–1.7) | 0.7 (0.4–1.2) |
| | 55 to 59 | 1.96 (1.05–3.63) | 1.98 (0.868–4.07) | 3.94 (2.39–6.59) | 1.0 (0.5–1.8) | 0.9 (0.4–1.9) | 1.0 (0.6–1.6) |
| | 60 to 64 | 2.02 (0.948–3.84) | 2.57 (1.09–5.34) | 4.59 (2.72–7.73) | 1.2 (0.6–2.3) | 1.5 (0.6–3.0) | 1.3 (0.8–2.3) |
| | 65 to 69 | 2.03 (0.993–3.63) | 2.67 (1.28–5.59) | 4.71 (2.67–7.65) | 1.5 (0.7–2.6) | 1.8 (0.9–3.7) | 1.6 (0.9–2.7) |
| | 70 to 74 | 1.79 (0.967–3.32) | 2.62 (1.37–5.66) | 4.41 (2.77–7.28) | 1.7 (0.9–3.2) | 2.2 (1.2–4.8) | 2.0 (1.2–3.3) |
| | 75 to 79 | 1.52 (0.811–2.94) | 2.33 (1.10–4.71) | 3.85 (2.38–6.41) | 2.3 (1.2–4.5) | 2.9 (1.4–5.9) | 2.6 (1.6–4.4) |
| | 80 to 84 | 1.37 (0.667–2.50) | 2.36 (1.08–4.84) | 3.73 (2.19–6.17) | 3.5 (1.7–6.3) | 4.4 (2.0–9.1) | 4.0 (2.4–6.6) |
| | 85 to 89 | 0.923 (0.472–1.58) | 1.86 (0.752–4.18) | 2.78 (1.39–4.95) | 4.7 (2.4–8.0) | 5.9 (2.4–13.3) | 5.4 (2.7–9.6) |
| | 90 to 94 | 0.458 (0.229–0.799) | 1.11 (0.426–2.81) | 1.57 (0.830–3.36) | 6.6 (3.3–11.5) | 8.4 (3.2–21.1) | 7.8 (4.1–16.6) |
| | 95 plus | 0.0824 (0.0292–0.140) | 0.485 (0.223–1.06) | 0.567 (0.285–1.13) | 4.5 (1.6–7.7) | 10.8 (5.0–23.7) | 9.0 (4.5–18.0) |
| **Cardiomyopathy and myocarditis** | | | | | | | |
| | Under 5 | 555 (285–933) | 406 (203–702) | 961 (589–1440) | 167.5 (86.1–281.7) | 130.2 (65.2–225.2) | 149.4 (91.6–224.2) |
| | 5 to 9 | 107 (67.4–162) | 87.1 (52.5–137) | 194 (133–267) | 29.7 (18.7–44.8) | 25.6 (15.5–40.3) | 27.7 (19.0–38.1) |
| | 10 to 14 | 99.7 (63.7–147) | 95.2 (55.1–155) | 195 (133–267) | 28.4 (18.1–41.8) | 28.7 (16.6–46.8) | 28.6 (19.5–39.1) |
| | 15 to 19 | 154 (101–230) | 85.2 (49.3–132) | 239 (162–322) | 46.5 (30.5–69.5) | 27.1 (15.7–41.9) | 37.1 (25.1–50.0) |
| | 20 to 24 | 164 (114–233) | 115 (66.8–180) | 279 (199–367) | 53.5 (37.4–76.3) | 38.9 (22.5–60.6) | 46.3 (33.1–60.9) |
| | 25 to 29 | 237 (174–344) | 164 (98.6–241) | 401 (295–535) | 80.0 (58.7–116.2) | 56.8 (34.1–83.3) | 68.5 (50.4–91.4) |
| | 30 to 34 | 394 (299–551) | 199 (128–299) | 593 (463–763) | 130.2 (98.9–182.1) | 67.6 (43.4–101.4) | 99.3 (77.5–127.9) |
| | 35 to 39 | 567 (466–728) | 241 (167–344) | 808 (663–972) | 191.7 (157.7–246.2) | 83.6 (58.0–119.3) | 138.3 (113.5–166.5) |
| | 40 to 44 | 690 (568–876) | 267 (185–364) | 958 (796–1150) | 263.9 (217.1–334.9) | 104.7 (72.5–142.7) | 185.3 (154.1–222.9) |
| | 45 to 49 | 729 (611–912) | 256 (183–351) | 985 (839–1150) | 304.8 (255.7–381.4) | 109.1 (78.0–149.5) | 207.9 (177.2–243.9) |
| | 50 to 54 | 732 (613–917) | 258 (189–343) | 989 (842–1180) | 321.4 (269.4–402.8) | 113.8 (83.4–151.3) | 217.8 (185.5–259.4) |
| | 55 to 59 | 762 (619–959) | 290 (218–391) | 1050 (874–1240) | 373.6 (303.3–470.3) | 138.3 (104.1–186.3) | 254.3 (211.3–300.8) |
| | 60 to 64 | 714 (583–885) | 298 (219–396) | 1010 (845–1210) | 430.0 (351.4–533.2) | 170.2 (125.1–226.1) | 296.7 (247.7–354.9) |
| | 65 to 69 | 592 (484–735) | 277 (212–375) | 869 (725–1020) | 428.7 (350.2–532.2) | 184.7 (141.5–250.3) | 301.7 (251.5–355.0) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 70 to 74 | 424 (349–544) | 247 (187–318) | 670 (573–813) | 407.2 (336.0–523.3) | 208.1 (157.3–267.6) | 301.1 (257.2–365.0) |
| | 75 to 79 | 316 (260–393) | 235 (178–314) | 550 (457–648) | 477.7 (393.1–594.7) | 294.7 (223.8–394.4) | 377.7 (313.9–444.9) |
| | 80 to 84 | 245 (200–302) | 247 (195–318) | 493 (407–573) | 621.9 (505.9–765.9) | 463.0 (365.2–594.8) | 530.5 (438.4–617.0) |
| | 85 to 89 | 178 (145–219) | 223 (173–281) | 401 (326–465) | 898.5 (734.1–1103.5) | 709.7 (551.2–894.1) | 782.6 (634.8–906.2) |
| | 90 to 94 | 87.6 (70.7–107) | 146 (109–181) | 233 (183–274) | 1261.6 (1018.7–1536.3) | 1096.7 (822.5–1363.1) | 1153.3 (903.5–1356.4) |
| | 95 plus | 31.3 (24.3–38.9) | 78.7 (56.3–99.4) | 110 (82.1–132) | 1722.0 (1335.9–2141.4) | 1757.8 (1256.9–2220.0) | 1747.5 (1305.1–2094.7) |
| **Myocarditis** | | | | | | | |
| | Under 5 | 105 (47.1–217) | 57.7 (24.0–127) | 162 (85.2–264) | 31.6 (14.2–65.4) | 18.5 (7.7–40.8) | 25.3 (13.2–41.1) |
| | 5 to 9 | 15.7 (9.28–26.2) | 14.0 (6.92–26.5) | 29.7 (19.4–44.9) | 4.3 (2.6–7.3) | 4.1 (2.0–7.8) | 4.2 (2.8–6.4) |
| | 10 to 14 | 16.4 (9.47–28.6) | 12.6 (6.19–24.0) | 29.0 (18.8–42.9) | 4.7 (2.7–8.1) | 3.8 (1.9–7.2) | 4.3 (2.8–6.3) |
| | 15 to 19 | 17.2 (9.61–29.6) | 12.9 (6.14–28.4) | 30.1 (19.0–47.8) | 5.2 (2.9–8.9) | 4.1 (2.0–9.0) | 4.7 (3.0–7.4) |
| | 20 to 24 | 16.5 (9.64–27.1) | 12.3 (6.26–28.6) | 28.8 (18.0–45.6) | 5.4 (3.2–8.9) | 4.2 (2.1–9.7) | 4.8 (3.0–7.6) |
| | 25 to 29 | 19.0 (11.5–34.0) | 13.0 (5.94–30.8) | 32.0 (20.4–52.6) | 6.4 (3.9–11.5) | 4.5 (2.1–10.6) | 5.5 (3.5–9.0) |
| | 30 to 34 | 21.1 (13.2–36.1) | 14.7 (6.55–33.4) | 35.9 (23.5–57.1) | 7.0 (4.4–11.9) | 5.0 (2.2–11.3) | 6.0 (3.9–9.6) |
| | 35 to 39 | 24.8 (15.9–43.0) | 13.8 (7.12–29.9) | 38.6 (25.7–60.5) | 8.4 (5.4–14.6) | 4.8 (2.5–10.4) | 6.6 (4.4–10.4) |
| | 40 to 44 | 23.4 (15.2–39.5) | 12.4 (6.34–27.1) | 35.8 (23.9–56.4) | 8.9 (5.8–15.1) | 4.9 (2.5–10.6) | 6.9 (4.6–10.9) |
| | 45 to 49 | 19.8 (13.0–31.3) | 10.9 (5.73–23.3) | 30.7 (21.1–48.2) | 8.3 (5.4–13.1) | 4.7 (2.4–9.9) | 6.5 (4.5–10.2) |
| | 50 to 54 | 19.3 (12.8–30.4) | 10.9 (5.22–21.9) | 30.2 (19.7–43.4) | 8.5 (5.6–13.4) | 4.8 (2.3–9.7) | 6.6 (4.3–9.6) |
| | 55 to 59 | 17.3 (11.5–26.6) | 9.56 (4.92–17.6) | 26.8 (17.5–39.9) | 8.5 (5.6–13.1) | 4.6 (2.3–8.4) | 6.5 (4.2–9.6) |
| | 60 to 64 | 15.1 (10.4–23.2) | 8.83 (4.53–15.8) | 23.9 (15.9–35.2) | 9.1 (6.2–14.0) | 5.0 (2.6–9.0) | 7.0 (4.7–10.3) |
| | 65 to 69 | 14.4 (9.55–21.7) | 9.66 (4.87–18.2) | 24.0 (15.0–35.2) | 10.4 (6.9–15.7) | 6.4 (3.2–12.2) | 8.3 (5.2–12.2) |
| | 70 to 74 | 11.5 (7.33–17.3) | 9.04 (4.34–15.4) | 20.5 (13.0–28.8) | 11.1 (7.0–16.6) | 7.6 (3.7–13.0) | 9.2 (5.8–12.9) |
| | 75 to 79 | 9.30 (5.54–14.4) | 8.73 (4.18–14.2) | 18.0 (10.8–26.1) | 14.1 (8.4–21.8) | 11.0 (5.3–17.9) | 12.4 (7.4–17.9) |
| | 80 to 84 | 8.97 (5.44–13.2) | 10.5 (5.76–16.6) | 19.5 (11.6–27.6) | 22.7 (13.8–33.5) | 19.7 (10.8–31.1) | 21.0 (12.5–29.8) |
| | 85 to 89 | 6.66 (3.94–10.2) | 10.2 (6.16–16.0) | 16.9 (10.9–23.3) | 33.6 (19.9–51.7) | 32.5 (19.6–50.8) | 32.9 (21.2–45.5) |
| | 90 to 94 | 4.18 (2.34–6.35) | 6.64 (3.93–10.6) | 10.8 (6.88–15.3) | 60.2 (33.7–91.4) | 50.0 (29.6–79.9) | 53.5 (34.0–75.8) |
| | 95 plus | 1.77 (0.904–2.85) | 4.03 (2.31–6.60) | 5.80 (3.31–8.74) | 97.5 (49.8–157.0) | 90.0 (51.6–147.3) | 92.2 (52.6–138.8) |
| **Alcoholic cardiomyopathy** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 5.34 (3.98–8.01) | 2.20 (1.45–3.77) | 7.54 (5.73–10.0) | 1.6 (1.2–2.4) | 0.7 (0.5–1.2) | 1.2 (0.9–1.6) |
| | 20 to 24 | 9.33 (6.76–13.1) | 3.59 (2.58–5.42) | 12.9 (10.1–18.0) | 3.1 (2.2–4.3) | 1.2 (0.9–1.8) | 2.1 (1.7–3.0) |
| | 25 to 29 | 26.5 (21.0–36.3) | 9.12 (6.94–12.2) | 35.6 (28.8–45.7) | 9.0 (7.1–12.3) | 3.1 (2.4–4.2) | 6.1 (4.9–7.8) |
| | 30 to 34 | 90.0 (76.1–110) | 24.0 (20.0–29.1) | 114 (98.6–136) | 29.8 (25.2–36.2) | 8.2 (6.8–9.9) | 19.1 (16.5–22.8) |
| | 35 to 39 | 178 (151–215) | 44.1 (37.4–53.0) | 222 (193–261) | 60.2 (50.9–72.7) | 15.3 (13.0–18.4) | 38.0 (33.0–44.7) |
| | 40 to 44 | 221 (195–256) | 52.5 (44.8–63.0) | 274 (246–309) | 84.6 (74.5–97.7) | 20.6 (17.6–24.7) | 53.0 (47.6–59.7) |
| | 45 to 49 | 249 (215–291) | 53.7 (45.6–64.1) | 302 (272–347) | 104.0 (90.0–121.7) | 22.9 (19.4–27.3) | 63.8 (57.4–73.2) |
| | 50 to 54 | 243 (213–281) | 50.9 (43.8–60.5) | 294 (265–335) | 106.9 (93.7–123.5) | 22.5 (19.3–26.7) | 64.8 (58.4–73.8) |
| | 55 to 59 | 228 (199–269) | 49.6 (42.6–59.3) | 278 (247–322) | 112.0 (97.6–131.8) | 23.7 (20.3–28.3) | 67.2 (59.8–77.8) |
| | 60 to 64 | 207 (184–236) | 44.1 (37.5–53.0) | 251 (229–282) | 124.4 (111.0–141.9) | 25.1 (21.4–30.2) | 73.4 (67.0–82.6) |
| | 65 to 69 | 149 (131–177) | 31.3 (26.3–38.0) | 180 (162–207) | 107.7 (94.6–128.1) | 20.9 (17.5–25.3) | 62.5 (56.3–71.8) |
| | 70 to 74 | 74.7 (64.7–88.6) | 15.6 (12.8–19.8) | 90.2 (79.3–105) | 71.8 (62.2–85.2) | 13.1 (10.8–16.6) | 40.5 (35.6–47.0) |
| | 75 to 79 | 40.1 (34.2–49.1) | 8.99 (7.22–11.5) | 49.1 (43.2–58.0) | 60.7 (51.8–74.3) | 11.3 (9.1–14.5) | 33.7 (29.6–39.8) |
| | 80 to 84 | 16.1 (12.5–20.8) | 5.11 (3.70–6.92) | 21.2 (17.3–26.3) | 40.8 (31.7–52.7) | 9.6 (6.9–13.0) | 22.8 (18.7–28.3) |
| | 85 to 89 | 9.62 (7.58–11.9) | 4.40 (3.11–6.23) | 14.0 (11.5–17.2) | 48.6 (38.2–60.2) | 14.0 (9.9–19.8) | 27.3 (22.5–33.6) |
| | 90 to 94 | 4.56 (3.54–5.74) | 2.91 (2.07–4.04) | 7.48 (5.91–9.27) | 65.7 (51.0–82.7) | 22.0 (15.6–30.5) | 37.0 (29.2–45.9) |
| | 95 plus | 1.70 (1.26–2.17) | 1.24 (0.871–1.69) | 2.94 (2.21–3.67) | 93.5 (69.2–119.4) | 27.7 (19.4–37.8) | 46.7 (35.1–58.4) |
| **Other cardiomyopathy** | | | | | | | |
| | Under 5 | 450 (230–759) | 348 (177–599) | 798 (494–1200) | 135.9 (69.5–229.1) | 111.7 (56.8–192.2) | 124.2 (76.9–186.7) |
| | 5 to 9 | 91.5 (53.8–140) | 73.0 (41.8–116) | 165 (108–233) | 25.3 (14.9–38.8) | 21.5 (12.3–34.2) | 23.5 (15.5–33.2) |
| | 10 to 14 | 83.4 (52.3–124) | 82.6 (45.3–137) | 166 (111–234) | 23.7 (14.9–35.2) | 24.9 (13.7–41.4) | 24.3 (16.3–34.3) |
| | 15 to 19 | 131 (83.2–200) | 70.1 (41.2–114) | 201 (134–278) | 39.7 (25.2–60.4) | 22.3 (13.1–36.4) | 31.2 (20.7–43.1) |
| | 20 to 24 | 138 (92.6–198) | 99.4 (54.9–158) | 237 (163–315) | 45.1 (30.3–64.8) | 33.5 (18.5–53.2) | 39.4 (27.1–52.2) |
| | 25 to 29 | 191 (133–282) | 142 (81.8–218) | 334 (234–456) | 64.7 (45.0–95.4) | 49.1 (28.3–75.2) | 57.0 (40.1–77.9) |
| | 30 to 34 | 283 (201–413) | 160 (97.3–248) | 443 (322–589) | 93.5 (66.3–136.6) | 54.4 (33.1–84.3) | 74.2 (54.0–98.7) |
| | 35 to 39 | 364 (282–504) | 183 (117–281) | 547 (421–694) | 123.1 (95.3–170.5) | 63.5 (40.5–97.5) | 93.7 (72.0–118.8) |
| | 40 to 44 | 446 (343–612) | 202 (129–296) | 648 (504–817) | 170.4 (131.0–233.8) | 79.3 (50.6–115.9) | 125.4 (97.6–158.1) |
| | 45 to 49 | 460 (353–617) | 191 (126–279) | 652 (518–815) | 192.6 (147.8–258.1) | 81.5 (53.8–118.9) | 137.6 (109.5–172.0) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 50 to 54 | 469 (365–628) | 196 (134–279) | 665 (533–823) | 206.0 (160.5–276.1) | 86.5 (59.0–123.2) | 146.4 (117.3–181.2) |
| | 55 to 59 | 516 (390–706) | 231 (163–327) | 747 (584–923) | 253.1 (191.1–346.1) | 110.1 (77.6–156.1) | 180.6 (141.1–223.1) |
| | 60 to 64 | 492 (367–643) | 245 (172–340) | 738 (583–926) | 296.6 (220.7–387.4) | 140.1 (98.1–193.8) | 216.2 (170.9–271.5) |
| | 65 to 69 | 429 (328–579) | 236 (177–337) | 665 (536–819) | 310.6 (237.4–418.7) | 157.4 (118.1–224.4) | 230.9 (185.9–284.1) |
| | 70 to 74 | 337 (265–454) | 222 (165–293) | 560 (467–685) | 324.3 (254.6–436.2) | 187.3 (139.0–247.2) | 251.3 (209.6–307.7) |
| | 75 to 79 | 266 (212–337) | 217 (163–296) | 483 (395–582) | 402.9 (320.9–510.8) | 272.4 (204.7–372.2) | 331.6 (271.0–399.4) |
| | 80 to 84 | 220 (178–271) | 232 (181–302) | 452 (370–528) | 558.3 (450.2–685.5) | 433.7 (338.2–564.8) | 486.7 (398.7–568.4) |
| | 85 to 89 | 162 (132–198) | 209 (163–266) | 370 (301–433) | 816.3 (665.0–1002.1) | 663.2 (519.1–844.1) | 722.4 (587.2–844.2) |
| | 90 to 94 | 78.8 (63.5–95.9) | 136 (102–170) | 215 (167–253) | 1135.6 (915.1–1380.9) | 1024.7 (771.3–1283.5) | 1062.8 (826.5–1250.3) |
| | 95 plus | 27.8 (21.5–34.7) | 73.4 (52.5–91.8) | 101 (76.0–123) | 1531.1 (1182.9–1913.5) | 1640.1 (1173.4–2049.7) | 1608.7 (1206.9–1951.8) |
| **Pulmonary Arterial Hypertension** | | | | | | | |
| | Under 5 | 79.8 (32.5–159) | 51.9 (22.7–92.2) | 132 (69.9–227) | 24.1 (9.8–47.9) | 16.6 (7.3–29.6) | 20.5 (10.9–35.3) |
| | 5 to 9 | 9.17 (4.22–20.0) | 8.82 (4.04–17.2) | 18.0 (9.52–32.5) | 2.5 (1.2–5.5) | 2.6 (1.2–5.1) | 2.6 (1.4–4.6) |
| | 10 to 14 | 9.73 (4.72–20.8) | 9.65 (4.78–18.2) | 19.4 (10.9–34.8) | 2.8 (1.3–5.9) | 2.9 (1.4–5.5) | 2.8 (1.6–5.1) |
| | 15 to 19 | 10.9 (5.27–22.2) | 16.9 (7.94–31.4) | 27.9 (16.2–46.6) | 3.3 (1.6–6.7) | 5.4 (2.5–10.0) | 4.3 (2.5–7.2) |
| | 20 to 24 | 11.1 (5.62–20.7) | 17.5 (8.60–31.6) | 28.6 (17.9–47.3) | 3.6 (1.8–6.8) | 5.9 (2.9–10.7) | 4.8 (3.0–7.8) |
| | 25 to 29 | 12.0 (6.86–21.3) | 19.9 (10.4–35.3) | 31.9 (20.5–52.1) | 4.1 (2.3–7.2) | 6.9 (3.6–12.2) | 5.5 (3.5–8.9) |
| | 30 to 34 | 10.9 (6.53–18.8) | 19.4 (10.8–34.2) | 30.3 (20.4–45.9) | 3.6 (2.2–6.2) | 6.6 (3.7–11.6) | 5.1 (3.4–7.7) |
| | 35 to 39 | 12.0 (7.51–19.2) | 19.0 (11.5–29.6) | 31.0 (21.6–45.1) | 4.0 (2.5–6.5) | 6.6 (4.0–10.3) | 5.3 (3.7–7.7) |
| | 40 to 44 | 15.5 (10.1–24.0) | 21.5 (12.9–36.2) | 37.0 (26.7–53.7) | 5.9 (3.9–9.2) | 8.4 (5.0–14.2) | 7.2 (5.2–10.4) |
| | 45 to 49 | 11.0 (7.50–16.3) | 15.7 (9.93–25.0) | 26.7 (19.7–37.5) | 4.6 (3.1–6.8) | 6.7 (4.2–10.6) | 5.6 (4.2–7.9) |
| | 50 to 54 | 14.4 (10.0–20.0) | 18.4 (12.1–27.9) | 32.8 (25.1–45.9) | 6.3 (4.4–8.8) | 8.1 (5.4–12.3) | 7.2 (5.5–10.1) |
| | 55 to 59 | 17.8 (12.7–24.4) | 20.9 (14.6–31.5) | 38.7 (29.5–52.9) | 8.7 (6.2–12.0) | 10.0 (7.0–15.0) | 9.4 (7.1–12.8) |
| | 60 to 64 | 19.3 (12.9–27.6) | 20.0 (14.1–29.4) | 39.3 (30.0–54.1) | 11.6 (7.8–16.6) | 11.4 (8.1–16.8) | 11.5 (8.8–15.8) |
| | 65 to 69 | 21.3 (14.6–29.0) | 23.1 (16.4–33.8) | 44.3 (34.0–59.3) | 15.4 (10.6–21.0) | 15.4 (10.9–22.5) | 15.4 (11.8–20.6) |
| | 70 to 74 | 21.3 (14.3–30.0) | 22.5 (16.1–31.8) | 43.8 (33.1–57.4) | 20.5 (13.8–28.9) | 19.0 (13.6–26.8) | 19.7 (14.9–25.8) |
| | 75 to 79 | 18.0 (12.1–25.2) | 21.9 (15.6–31.5) | 39.9 (30.3–55.3) | 27.3 (18.4–38.2) | 27.5 (19.6–39.5) | 27.4 (20.8–37.9) |
| | 80 to 84 | 15.1 (9.76–21.8) | 19.3 (13.2–29.4) | 34.4 (24.3–46.8) | 38.1 (24.7–55.2) | 36.2 (24.7–55.0) | 37.0 (26.2–50.4) |
| | 85 to 89 | 9.63 (6.33–13.6) | 15.6 (10.9–21.9) | 25.2 (18.4–33.9) | 48.6 (32.0–68.5) | 49.4 (34.7–69.6) | 49.1 (35.9–66.1) |
| | 90 to 94 | 4.38 (3.05–5.98) | 9.66 (6.69–13.7) | 14.0 (10.1–18.7) | 63.2 (43.9–86.2) | 72.8 (50.4–103.3) | 69.5 (49.9–92.4) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 95 plus | 1.30 (0.951–1.66) | 4.98 (3.27–6.86) | 6.28 (4.28–8.36) | 71.8 (52.4–91.4) | 111.1 (73.1–153.1) | 99.8 (68.0–132.8) |
| **Atrial fibrillation and flutter** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | 7.93 (5.70–10.8) | 5.27 (3.47–7.75) | 13.2 (9.76–17.2) | 2.6 (1.9–3.6) | 1.8 (1.2–2.6) | 2.2 (1.6–2.9) |
| | 35 to 39 | 23.0 (14.2–35.7) | 13.6 (8.31–20.3) | 36.6 (22.6–55.8) | 7.8 (4.8–12.1) | 4.7 (2.9–7.1) | 6.3 (3.9–9.6) |
| | 40 to 44 | 56.7 (37.5–83.0) | 34.4 (22.0–49.1) | 91.1 (60.1–132) | 21.7 (14.3–31.7) | 13.5 (8.6–19.3) | 17.6 (11.6–25.5) |
| | 45 to 49 | 113 (79.5–155) | 70.2 (48.0–99.6) | 183 (130–248) | 47.3 (33.3–64.9) | 29.9 (20.4–42.5) | 38.7 (27.4–52.4) |
| | 50 to 54 | 191 (130–263) | 121 (83.1–166) | 312 (215–425) | 84.0 (56.9–115.5) | 53.5 (36.7–73.4) | 68.8 (47.3–93.6) |
| | 55 to 59 | 296 (213–416) | 200 (147–282) | 496 (360–697) | 145.2 (104.3–203.9) | 95.2 (70.0–134.7) | 119.9 (87.1–168.6) |
| | 60 to 64 | 405 (302–574) | 289 (220–395) | 694 (530–966) | 243.6 (181.8–345.9) | 165.2 (125.6–225.4) | 203.4 (155.2–283.0) |
| | 65 to 69 | 530 (394–735) | 411 (309–550) | 941 (709–1280) | 383.6 (285.3–532.1) | 274.3 (205.9–366.8) | 326.7 (246.1–444.2) |
| | 70 to 74 | 652 (494–886) | 567 (436–753) | 1220 (932–1630) | 626.3 (474.6–851.7) | 478.0 (367.1–634.1) | 547.3 (418.7–733.9) |
| | 75 to 79 | 654 (502–839) | 649 (501–825) | 1300 (1010–1650) | 989.1 (759.0–1269.8) | 814.8 (629.4–1036.2) | 893.9 (693.4–1133.5) |
| | 80 to 84 | 664 (535–822) | 809 (656–1000) | 1470 (1200–1790) | 1682.2 (1354.3–2082.2) | 1515.5 (1228.3–1881.6) | 1586.3 (1291.0–1929.4) |
| | 85 to 89 | 498 (417–586) | 767 (636–900) | 1270 (1050–1480) | 2515.5 (2106.4–2957.5) | 2436.1 (2019.3–2860.6) | 2466.8 (2055.2–2894.4) |
| | 90 to 94 | 295 (248–337) | 581 (454–689) | 876 (704–1010) | 4254.7 (3574.0–4850.5) | 4373.8 (3420.0–5191.5) | 4332.9 (3484.5–4971.8) |
| | 95 plus | 111 (89.2–127) | 256 (189–307) | 366 (280–431) | 6101.3 (4914.0–6986.0) | 5707.6 (4231.3–6853.6) | 5821.2 (4444.2–6855.2) |
| **Aortic aneurysm** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 13.1 (8.46–20.8) | 6.82 (4.14–10.4) | 20.0 (14.3–27.7) | 4.0 (2.6–6.3) | 2.2 (1.3–3.3) | 3.1 (2.2–4.3) |
| | 20 to 24 | 19.6 (13.3–29.8) | 10.2 (6.23–15.1) | 29.8 (22.3–41.4) | 6.4 (4.4–9.8) | 3.5 (2.1–5.1) | 4.9 (3.7–6.9) |
| | 25 to 29 | 27.8 (20.8–39.4) | 12.5 (8.34–17.6) | 40.3 (31.8–52.7) | 9.4 (7.0–13.3) | 4.3 (2.9–6.1) | 6.9 (5.4–9.0) |

| Cause Names | Age Group | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 30 to 34 | 50.3 (38.4–69.9) | 18.6 (13.4–25.4) | 68.9 (56.0–86.6) | 16.6 (12.7–23.1) | 6.3 (4.6–8.6) | 11.5 (9.4–14.5) |
| | 35 to 39 | 75.9 (61.8–98.1) | 24.7 (18.2–32.8) | 101 (83.3–123) | 25.7 (20.9–33.2) | 8.6 (6.3–11.4) | 17.2 (14.3–21.1) |
| | 40 to 44 | 109 (91.1–139) | 32.6 (25.0–42.4) | 142 (121–170) | 41.8 (34.8–53.2) | 12.8 (9.8–16.6) | 27.5 (23.3–32.9) |
| | 45 to 49 | 142 (120–168) | 43.8 (34.4–54.6) | 186 (162–213) | 59.3 (50.3–70.2) | 18.7 (14.7–23.3) | 39.2 (34.2–45.0) |
| | 50 to 54 | 182 (154–213) | 58.6 (48.1–71.2) | 240 (209–273) | 79.8 (67.6–93.8) | 25.9 (21.3–31.4) | 52.9 (46.1–60.2) |
| | 55 to 59 | 224 (198–258) | 74.7 (62.9–90.6) | 299 (266–336) | 110.0 (96.9–126.6) | 35.6 (30.0–43.2) | 72.3 (64.3–81.3) |
| | 60 to 64 | 277 (243–327) | 99.4 (85.1–116) | 376 (337–430) | 166.8 (146.3–196.6) | 56.7 (48.6–66.2) | 110.3 (98.7–126.0) |
| | 65 to 69 | 309 (273–358) | 126 (109–146) | 435 (389–489) | 223.6 (197.4–259.1) | 84.2 (72.5–97.4) | 151.0 (135.0–169.8) |
| | 70 to 74 | 296 (266–335) | 144 (124–165) | 440 (396–486) | 284.5 (256.2–322.1) | 121.0 (104.5–138.6) | 197.4 (177.6–218.3) |
| | 75 to 79 | 236 (210–267) | 139 (120–160) | 374 (337–418) | 356.5 (317.7–404.3) | 174.4 (150.3–200.5) | 257.0 (230.9–286.7) |
| | 80 to 84 | 167 (144–188) | 124 (99.6–144) | 291 (249–324) | 423.0 (365.8–476.0) | 231.9 (186.6–269.7) | 313.1 (267.7–348.9) |
| | 85 to 89 | 107 (91.6–121) | 104 (77.9–121) | 212 (171–242) | 541.5 (462.4–611.6) | 331.7 (247.6–383.7) | 412.8 (334.4–471.2) |
| | 90 to 94 | 48.9 (40.6–55.5) | 65.8 (45.9–78.5) | 115 (88.9–132) | 704.4 (585.0–799.4) | 495.8 (345.9–591.0) | 567.5 (439.5–651.9) |
| | 95 plus | 13.8 (10.8–16.0) | 33.2 (21.3–41.2) | 47.0 (32.2–56.2) | 761.8 (596.0–881.7) | 741.7 (474.5–920.3) | 747.5 (511.1–893.2) |
| **Lower extremity peripheral arterial disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | 10.7 (7.84–15.3) | 6.81 (4.74–9.87) | 17.5 (13.7–22.3) | 4.1 (3.0–5.8) | 2.7 (1.9–3.9) | 3.4 (2.6–4.3) |
| | 45 to 49 | 14.9 (11.9–19.2) | 9.22 (6.84–12.7) | 24.1 (20.1–28.8) | 6.2 (5.0–8.0) | 3.9 (2.9–5.4) | 5.1 (4.2–6.1) |
| | 50 to 54 | 33.6 (27.2–41.9) | 18.1 (14.1–24.1) | 51.7 (43.7–60.5) | 14.8 (11.9–18.4) | 8.0 (6.2–10.7) | 11.4 (9.6–13.3) |
| | 55 to 59 | 61.3 (50.2–75.6) | 35.4 (26.5–50.9) | 96.7 (78.0–121) | 30.1 (24.6–37.1) | 16.9 (12.6–24.3) | 23.4 (18.9–29.3) |
| | 60 to 64 | 111 (90.2–137) | 67.4 (47.5–103) | 178 (142–238) | 66.9 (54.3–82.5) | 38.5 (27.1–58.7) | 52.3 (41.7–69.8) |
| | 65 to 69 | 153 (121–199) | 108 (70.6–178) | 261 (193–378) | 110.4 (87.4–143.7) | 72.1 (47.1–118.6) | 90.4 (67.1–131.1) |
| | 70 to 74 | 166 (127–222) | 140 (90.8–229) | 306 (221–451) | 159.7 (122.0–213.3) | 118.0 (76.5–192.5) | 137.5 (99.3–202.4) |

| | | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 75 to 79 | 144 (109–190) | 144 (98.4–228) | 287 (207–421) | 217.7 (165.0–287.4) | 180.3 (123.6–286.4) | 197.3 (142.2–288.6) |
| | 80 to 84 | 113 (85.8–148) | 141 (98.9–206) | 254 (187–355) | 286.3 (217.4–373.8) | 263.5 (185.2–386.5) | 273.2 (201.3–382.3) |
| | 85 to 89 | 78.7 (60.8–101) | 123 (91.5–168) | 201 (153–269) | 397.4 (307.2–509.2) | 389.3 (290.7–533.1) | 392.4 (298.1–524.6) |
| | 90 to 94 | 40.8 (32.5–51.8) | 83.0 (63.3–107) | 124 (97.2–160) | 587.1 (467.7–746.6) | 625.4 (476.8–807.1) | 612.2 (480.6–789.4) |
| | 95 plus | 14.9 (11.6–19.4) | 45.6 (34.4–58.9) | 60.6 (45.7–77.7) | 822.9 (636.6–1066.7) | 1019.1 (769.1–1316.2) | 962.5 (725.6–1234.2) |
| **Endocarditis** | | | | | | | |
| | Under 5 | 74.3 (35.4–150) | 54.5 (25.8–106) | 129 (78.9–209) | 22.4 (10.7–45.4) | 17.5 (8.3–34.0) | 20.0 (12.3–32.5) |
| | 5 to 9 | 13.9 (8.38–24.3) | 19.0 (8.69–35.2) | 32.9 (20.2–52.6) | 3.8 (2.3–6.7) | 5.6 (2.6–10.4) | 4.7 (2.9–7.5) |
| | 10 to 14 | 25.0 (14.2–42.1) | 25.0 (12.3–43.6) | 50.0 (31.7–74.1) | 7.1 (4.0–12.0) | 7.6 (3.7–13.2) | 7.3 (4.7–10.9) |
| | 15 to 19 | 39.1 (23.8–63.1) | 41.9 (22.3–70.5) | 81.0 (55.2–115) | 11.8 (7.2–19.1) | 13.3 (7.1–22.4) | 12.6 (8.6–17.8) |
| | 20 to 24 | 50.5 (33.0–80.0) | 50.9 (28.5–82.2) | 101 (71.0–142) | 16.5 (10.8–26.2) | 17.2 (9.6–27.7) | 16.8 (11.8–23.7) |
| | 25 to 29 | 65.6 (44.0–93.9) | 56.2 (35.5–85.6) | 122 (87.5–163) | 22.2 (14.9–31.8) | 19.4 (12.3–29.6) | 20.8 (15.0–27.9) |
| | 30 to 34 | 87.8 (60.2–136) | 61.8 (39.8–89.4) | 150 (109–200) | 29.0 (19.9–44.9) | 21.0 (13.5–30.4) | 25.1 (18.2–33.6) |
| | 35 to 39 | 95.8 (70.0–146) | 58.3 (37.5–88.0) | 154 (118–205) | 32.4 (23.7–49.4) | 20.2 (13.0–30.5) | 26.4 (20.3–35.2) |
| | 40 to 44 | 99.6 (71.0–140) | 63.5 (41.9–94.6) | 163 (126–205) | 38.1 (27.2–53.4) | 24.9 (16.4–37.1) | 31.6 (24.5–39.7) |
| | 45 to 49 | 90.5 (67.4–123) | 54.0 (37.8–77.7) | 145 (118–182) | 37.9 (28.2–51.6) | 23.0 (16.1–33.1) | 30.5 (24.8–38.4) |
| | 50 to 54 | 89.4 (69.3–121) | 56.8 (40.8–80.9) | 146 (123–180) | 39.3 (30.4–53.3) | 25.1 (18.0–35.7) | 32.2 (27.0–39.6) |
| | 55 to 59 | 92.2 (73.2–122) | 59.1 (45.2–80.1) | 151 (129–185) | 45.2 (35.9–59.7) | 28.2 (21.5–38.2) | 36.6 (31.2–44.8) |
| | 60 to 64 | 93.1 (76.2–119) | 61.7 (49.3–79.9) | 155 (133–185) | 56.1 (45.9–71.9) | 35.2 (28.1–45.6) | 45.4 (39.1–54.3) |
| | 65 to 69 | 89.1 (75.2–112) | 66.0 (53.7–82.4) | 155 (137–182) | 64.5 (54.4–81.2) | 44.0 (35.8–55.0) | 53.8 (47.6–63.3) |
| | 70 to 74 | 80.3 (67.7–98.1) | 63.2 (52.9–77.6) | 143 (126–166) | 77.2 (65.1–94.3) | 53.2 (44.6–65.4) | 64.4 (56.7–74.6) |
| | 75 to 79 | 66.5 (57.3–80.3) | 61.3 (51.3–73.3) | 128 (113–144) | 100.6 (86.7–121.5) | 76.9 (64.4–92.1) | 87.7 (77.9–99.1) |
| | 80 to 84 | 53.5 (47.0–61.7) | 63.0 (49.9–74.0) | 117 (98.6–130) | 135.5 (119.0–156.3) | 118.0 (93.5–138.6) | 125.4 (106.1–140.5) |
| | 85 to 89 | 41.5 (35.3–47.9) | 61.9 (47.1–72.4) | 103 (82.0–117) | 209.7 (178.2–242.0) | 196.7 (149.6–229.9) | 201.7 (159.9–227.6) |
| | 90 to 94 | 23.4 (19.1–26.9) | 50.4 (36.4–60.1) | 73.8 (56.0–85.0) | 337.1 (274.9–387.0) | 379.3 (274.2–452.5) | 364.8 (277.0–420.6) |
| | 95 plus | 8.18 (6.53–9.75) | 29.1 (20.5–35.5) | 37.3 (27.3–44.1) | 450.5 (359.6–537.2) | 650.2 (456.7–791.7) | 592.6 (433.3–700.1) |
| **Other cardiovascular and circulatory diseases** | | | | | | | |
| | Under 5 | 397 (228–607) | 330 (182–540) | 728 (471–1040) | 119.9 (68.9–183.3) | 106.0 (58.3–173.2) | 113.2 (73.2–162.2) |
| | 5 to 9 | 153 (96.1–218) | 125 (81.1–188) | 278 (200–372) | 42.2 (26.6–60.4) | 36.9 (23.9–55.5) | 39.7 (28.6–53.1) |

| | | DALYs (Disability-Adjusted Life Years) count (thousands) | | | DALYs (Disability-Adjusted Life Years) age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 10 to 14 | 206 (140–278) | 178 (112–263) | 384 (276–504) | 58.6 (40.0–79.0) | 53.7 (33.8–79.3) | 56.2 (40.5–73.9) |
| | 15 to 19 | 103 (64.9–153) | 89.9 (54.8–138) | 193 (129–263) | 31.1 (19.6–46.3) | 28.6 (17.4–44.0) | 29.9 (20.0–40.8) |
| | 20 to 24 | 101 (67.9–145) | 118 (72.8–183) | 219 (153–299) | 33.1 (22.2–47.3) | 39.8 (24.5–61.6) | 36.4 (25.5–49.6) |
| | 25 to 29 | 135 (91.5–206) | 140 (88.5–209) | 275 (195–370) | 45.8 (30.9–69.7) | 48.2 (30.6–72.2) | 47.0 (33.3–63.1) |
| | 30 to 34 | 192 (136–269) | 213 (138–324) | 405 (290–541) | 63.5 (44.8–88.9) | 72.5 (46.9–110.2) | 67.9 (48.6–90.6) |
| | 35 to 39 | 235 (174–315) | 213 (144–304) | 447 (337–584) | 79.3 (58.8–106.7) | 73.8 (49.9–105.5) | 76.6 (57.7–100.0) |
| | 40 to 44 | 357 (255–503) | 295 (200–424) | 651 (465–917) | 136.4 (97.3–192.3) | 115.4 (78.5–166.2) | 126.0 (90.0–177.5) |
| | 45 to 49 | 376 (263–502) | 321 (217–472) | 697 (499–976) | 157.1 (109.9–210.2) | 137.0 (92.7–201.3) | 147.2 (105.4–206.0) |
| | 50 to 54 | 401 (291–522) | 364 (241–503) | 765 (559–1040) | 176.2 (128.0–229.3) | 160.6 (106.6–222.1) | 168.4 (123.2–228.9) |
| | 55 to 59 | 455 (346–608) | 361 (259–489) | 816 (614–1080) | 223.1 (169.9–298.3) | 172.3 (123.4–233.4) | 197.3 (148.3–260.0) |
| | 60 to 64 | 522 (404–659) | 455 (333–605) | 977 (752–1230) | 314.6 (243.6–396.8) | 259.7 (190.0–345.5) | 286.4 (220.4–360.8) |
| | 65 to 69 | 602 (430–848) | 512 (381–725) | 1110 (828–1530) | 435.5 (310.9–613.7) | 341.5 (254.2–483.5) | 386.6 (287.3–532.1) |
| | 70 to 74 | 589 (432–830) | 523 (389–730) | 1110 (831–1560) | 566.6 (415.1–798.2) | 440.4 (327.5–615.2) | 499.3 (373.2–698.4) |
| | 75 to 79 | 486 (353–665) | 447 (339–608) | 933 (696–1280) | 735.1 (535.0–1005.7) | 561.6 (425.1–763.7) | 640.3 (477.5–878.7) |
| | 80 to 84 | 352 (263–474) | 374 (283–510) | 725 (562–951) | 890.6 (665.5–1199.8) | 699.6 (529.4–954.5) | 780.8 (605.5–1024.3) |
| | 85 to 89 | 210 (158–281) | 277 (214–351) | 488 (378–626) | 1062.2 (798.2–1416.6) | 881.2 (680.5–1114.7) | 951.1 (738.0–1220.1) |
| | 90 to 94 | 90.0 (69.3–115) | 155 (120–198) | 245 (197–307) | 1296.2 (997.5–1652.1) | 1165.0 (907.0–1487.9) | 1210.1 (976.8–1519.4) |
| | 95 plus | 27.4 (20.6–36.6) | 69.0 (51.4–89.3) | 96.3 (72.1–127) | 1507.6 (1132.7–2015.8) | 1540.3 (1146.9–1994.2) | 1530.8 (1145.3–2014.7) |

**Table S11. Summary exposure value (SEV) and annualized rate of change by sex and location**

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| **Global** | | | | | | | | | | |
| | | 25·5 (22·2–28·0) 13·9 | 23·3 (19·6–25·0) 14·7 | 24·4 (20·8–26·4) 14·3 | 24·1 (20·9–26·2) 19·5 | 23·0 (19·8–24·3) 21·0 | 23·5 (20·4–25·2) 20·3 | -0·2 (-0·3–-0·1) 1·0 | 0·0 (-0·2–0·1) 1·1 | -0·1 (-0·2–0·0) 1·0 |
| | All risk factors | | | | | | | | | |
| | Metabolic risks | (12·1–16·4) 14·9 | (12·7–17·4) 13·8 | (12·5–16·9) 14·4 | (17·7–21·6) 17·7 | (19·1–23·3) 17·4 | (18·4–22·4) 17·6 | (0·6–1·5) 0·5 | (0·6–1·6) 0·7 | (0·6–1·6) 0·6 |
| | High fasting plasma glucose | (9·9–23·5) 43·1 | (9·1–22·4) 45·8 | (9·5–22·9) 44·6 | (13·3–24·4) 43·0 | (12·7–25·2) 45·2 | (13·0–24·8) 44·2 | (-0·9–2·1) 0·0 | (-0·8–2·4) 0·0 | (-0·9–2·2) 0·0 |
| | High LDL cholesterol | (35·1–52·1) 28·2 | (36·5–56·4) 26·1 | (35·8–54·4) 27·3 | (35·0–52·6) 32·6 | (36·3–55·7) 27·8 | (35·8–54·4) 30·3 | (-0·7–0·7) 0·4 | (-0·9–0·7) 0·2 | (-0·8–0·7) 0·3 |
| | High systolic blood pressure | (16·4–43·1) 12·5 | (15·2–41·4) 14·0 | (15·9–42·4) 13·2 | (27·1–38·7) 19·2 | (22·7–33·4) 21·6 | (25·0–36·0) 20·4 | (-0·8–1·9) 1·3 | (-1·2–1·6) 1·3 | (-1·0–1·7) 1·3 |
| | High body-mass index | (10·5–14·7) 2·9 | (11·7–16·4) 3·0 | (11·1–15·6) 2·9 | (17·5–21·2) 2·9 | (19·7–23·8) 3·0 | (18·6–22·5) 2·9 | (0·8–1·8) 0·0 | (0·8–1·9) 0·0 | (0·8–1·9) 0·0 |
| | Kidney dysfunction | (1·9–4·9) 21·8 | (1·9–4·9) 18·4 | (1·9–4·9) 20·1 | (2·0–4·9) 19·0 | (2·0–5·0) 16·6 | (2·0–4·9) 17·8 | (-0·1–0·0) -0·4 | (-0·1–0·1) -0·3 | (-0·1–0·1) -0·4 |
| | Behavioral risks | (17·4–26·0) 34·4 | (14·5–20·7) 23·1 | (16·2–23·2) 28·7 | (15·3–22·7) 26·2 | (13·4–18·3) 15·9 | (14·6–20·4) 21·0 | (-0·6–-0·3) -0·8 | (-0·5–-0·1) -1·1 | (-0·6–-0·2) -0·9 |
| | Tobacco | (26·4–45·6) 37·1 | (20·0–27·9) 10·1 | (23·3–36·7) 23·5 | (19·8–36·1) 27·1 | (13·7–19·2) 6·0 | (16·7–27·3) 16·4 | (-1·1–-0·5) -1·0 | (-1·5–-0·7) -1·6 | (-1·2–-0·6) -1·1 |
| | Smoking | (20·0–61·5) 5·8 | (5·1–19·7) 2·5 | (12·6–40·6) 4·1 | (13·8–47·8) 5·2 | (3·0–12·8) 2·4 | (8·4–29·8) 3·8 | (-1·3–-0·6) -0·3 | (-2·3–-0·9) -0·2 | (-1·5–-0·7) -0·3 |
| | Chewing tobacco | (3·4–8·9) 36·5 | (1·3–4·6) 50·6 | (2·3–6·8) 43·6 | (3·7–7·5) 30·6 | (1·3–4·1) 37·3 | (2·5–5·8) 33·9 | (-1·9–1·5) -0·5 | (-2·6–2·2) -0·9 | (-2·1–1·7) -0·8 |
| | Secondhand smoke | (33·2–40·1) 9·1 | (47·0–54·1) 4·6 | (40·1–47·1) 6·8 | (27·4–34·1) 8·0 | (33·7–41·3) 3·4 | (30·6–37·8) 5·7 | (-1·0–-0·1) -0·4 | (-1·3–-0·5) -0·9 | (-1·2–-0·3) -0·5 |
| | High alcohol use | (6·8–12·7) 41·2 | (3·1–6·4) 38·8 | (4·9–9·5) 39·9 | (6·0–10·8) 39·9 | (2·5–4·5) 37·0 | (4·3–7·8) 38·4 | (-0·7–0·0) -0·1 | (-1·6–-0·3) -0·1 | (-1·0–-0·1) -0·1 |
| | Dietary risks | (32·5–49·0) 45·7 | (28·1–46·2) 40·3 | (31·2–47·3) 42·9 | (30·3–47·4) 42·6 | (27·7–44·1) 38·5 | (28·9–45·2) 40·5 | (-0·5–0·3) -0·2 | (-0·6–0·3) -0·1 | (-0·5–0·3) -0·2 |
| | Diet low in fruits | (36·7–52·5) 28·8 | (31·8–46·8) 29·1 | (34·2–49·5) 28·9 | (35·6–48·8) 25·9 | (31·8–44·5) 26·3 | (33·7–46·6) 26·1 | (-0·7–0·4) -0·3 | (-0·7–0·6) -0·3 | (-0·7–0·5) -0·3 |
| | Diet low in vegetables | (17·2–36·4) 48·8 | (16·8–36·3) 52·8 | (17·0–36·5) 50·9 | (15·5–32·3) 40·1 | (14·9–32·0) 44·2 | (15·2–31·9) 42·2 | (-1·1–0·5) -0·6 | (-1·0–0·4) -0·5 | (-1·1–0·4) -0·6 |
| | Diet low in legumes | (0·0–64·9) 39·7 | (0·0–68·9) 40·7 | (0·0–67·0) 40·3 | (0·0–56·4) 39·4 | (0·0–60·9) 41·5 | (0·0–58·7) 40·4 | (-1·6–0·4) 0·0 | (-1·5–0·3) 0·1 | (-1·5–0·4) 0·0 |
| | Diet low in whole grains | (30·6–50·2) 56·0 | (31·8–51·1) 57·3 | (31·2–50·6) 56·7 | (29·9–50·3) 41·3 | (31·9–52·4) 42·7 | (30·9–51·4) 42·0 | (-1·0–0·9) -0·9 | (-0·9–1·0) -0·9 | (-0·9–1·0) -0·9 |
| | Diet low in nuts and seeds | (46·5–66·8) 30·1 | (48·0–67·7) 22·3 | (47·3–67·3) 26·1 | (30·9–52·4) 31·1 | (32·2–53·7) 22·4 | (31·6–53·0) 26·7 | (-1·9–0·0) 0·1 | (-1·9–0·0) 0·0 | (-1·9–0·0) 0·1 |
| | Diet high in red meat | (0·0–44·8) 13·8 | (0·0–34·4) 12·3 | (0·0–39·6) 13·0 | (0·0–46·5) 14·6 | (0·0–34·6) 12·9 | (0·0–40·4) 13·7 | (-0·7–1·2) 0·2 | (-0·8–0·9) 0·2 | (-0·7–1·1) 0·2 |
| | Diet high in processed meat | (10·0–18·2) 11·5 | (8·3–16·8) 8·9 | (9·1–17·6) 10·2 | (11·5–18·1) 18·9 | (9·9–16·1) 14·6 | (10·8–17·1) 16·7 | (-0·8–1·1) 1·5 | (-0·9–1·2) 1·5 | (-0·9–1·1) 1·5 |
| | Diet high in sugar-sweetened beverages | (4·9–20·4) 28·8 | (3·8–16·5) 32·8 | (4·3–18·3) 30·8 | (13·6–26·1) 19·1 | (10·2–20·8) 22·2 | (11·9–23·4) 20·7 | (-0·4–4·2) -1·2 | (-0·5–4·4) -1·2 | (-0·4–4·3) -1·2 |
| | Diet low in fiber | (15·3–45·2) 41·8 | (17·9–49·8) 47·5 | (16·7–47·5) 44·7 | (8·7–32·6) 25·8 | (9·9–37·6) 32·0 | (9·3–35·2) 28·9 | (-3·7–1·1) -1·5 | (-3·7–1·1) -1·2 | (-3·7–1·1) -1·3 |
| | Diet low in seafood omega-3 fatty acids | (28·8–53·7) 70·3 | (34·8–58·6) 67·9 | (31·8–56·1) 69·1 | (13·1–39·8) 58·9 | (17·6–46·0) 56·8 | (15·4–42·9) 57·9 | (-3·1–0·1) -0·5 | (-2·6–0·1) -0·5 | (-2·8–0·1) -0·5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (42·0–84·0) 49·3 | (40·5–81·6) 45·9 | (41·2–82·8) 47·6 | (35·0–74·6) 30·7 | (33·7–72·3) 28·3 | (34·3–73·4) 29·5 | (-1·0–-0·1) -1·4 | (-1·1–0·0) -1·5 | (-1·0–-0·1) -1·5 |
| | Diet high in trans fatty acids | (33·9–62·5) 47·0 | (31·2–59·1) 35·8 | (32·5–61·0) 41·3 | (20·2–41·6) 47·4 | (18·9–38·5) 34·9 | (19·7–40·2) 41·1 | (-2·7–0·0) 0·0 | (-2·8–0·0) -0·1 | (-2·8–0·0) 0·0 |
| | Diet high in sodium | (22·7–71·2) 12·8 | (13·8–60·7) 20·6 | (18·2–66·5) 16·8 | (21·4–73·7) 13·9 | (12·5–61·4) 23·0 | (16·6–67·2) 18·5 | (-1·2–1·4) 0·3 | (-1·5–1·3) 0·3 | (-1·4–1·4) 0·3 |
| | Low physical activity | (10·3–15·4) 44·5 | (17·5–23·6) 41·9 | (14·0–19·5) 43·2 | (11·3–16·6) 36·4 | (19·5–26·7) 34·5 | (15·6–21·5) 35·4 | (-0·1–0·6) -0·6 | (0·1–0·6) -0·6 | (0·1–0·5) -0·6 |
| | Environmental/occupational risks | (34·6–50·5) 47·1 | (32·4–47·9) 46·0 | (33·5–49·2) 46·5 | (27·1–43·6) 36·2 | (26·0–41·6) 35·7 | (26·5–42·6) 35·9 | (-0·9–-0·4) -0·8 | (-0·8–-0·4) -0·8 | (-0·8–-0·4) -0·8 |
| | Air pollution | (30·2–69·9) 50·9 | (29·2–68·7) 49·7 | (29·6–69·3) 50·3 | (22·2–57·6) 38·9 | (22·0–57·3) 38·3 | (22·2–57·4) 38·6 | (-1·1–-0·4) -0·8 | (-1·0–-0·4) -0·8 | (-1·1–-0·4) -0·8 |
| | Particulate matter pollution | (27·4–79·6) 22·8 | (26·9–79·0) 21·0 | (27·2–79·3) 21·9 | (20·8–67·7) 31·2 | (20·5–67·4) 29·1 | (20·6–67·5) 30·1 | (-1·1–-0·4) 1·0 | (-1·0–-0·4) 1·0 | (-1·1–-0·4) 1·0 |
| | Ambient particulate matter pollution | (10·9–56·1) 32·8 | (10·3–52·5) 33·9 | (10·8–54·5) 33·3 | (16·7–60·9) 15·7 | (15·3–57·2) 17·4 | (16·0–59·1) 16·5 | (0·3–1·6) -2·2 | (0·3–1·7) -2·0 | (0·3–1·6) -2·1 |
| | Household air pollution from solid fuels | (16·4–55·2) 28·8 | (17·7–56·5) 28·3 | (17·1–55·8) 28·5 | (7·1–32·3) 32·4 | (8·3–35·1) 31·9 | (7·7–33·6) 32·2 | (-3·1–-1·4) 0·4 | (-2·8–-1·3) 0·4 | (-2·9–-1·4) 0·4 |
| | Non-optimal temperature | (28·1–29·7) 31·2 | (27·6–29·4) 30·5 | (27·8–29·6) 30·9 | (31·2–33·5) 40·7 | (30·8–33·0) 40·1 | (31·0–33·2) 40·4 | (0·2–0·5) 0·8 | (0·2–0·5) 0·8 | (0·2–0·5) 0·8 |
| | High temperature | (29·0–33·3) 25·8 | (28·4–32·6) 25·5 | (28·7–32·9) 25·6 | (37·6–43·3) 24·4 | (37·1–42·7) 24·1 | (37·4–43·0) 24·2 | (0·7–0·9) -0·2 | (0·7–0·9) -0·2 | (0·7–0·9) -0·2 |
| | Low temperature | (24·6–27·4) 45·3 | (24·3–27·1) 38·5 | (24·5–27·3) 41·9 | (23·0–26·3) 43·6 | (22·7–26·0) 38·5 | (22·9–26·1) 41·1 | (-0·2–-0·1) -0·1 | (-0·2–-0·1) 0·0 | (-0·2–-0·1) -0·1 |
| | Other environmental risks | (14·7–54·7) 54·2 | (13·9–47·7) 44·4 | (14·3–51·2) 49·2 | (13·1–51·0) 51·8 | (12·6–45·7) 44·5 | (12·8–48·3) 48·1 | (-0·4–0·3) -0·1 | (-0·4–0·4) 0·0 | (-0·4–0·4) -0·1 |
| | Lead exposure | (8·8–65·5) | (7·5–56·1) | (8·1–60·7) | (7·7–60·5) | (6·8–52·5) | (7·3–56·4) | (-0·5–0·4) | (-0·4–0·5) | (-0·5–0·4) |
| **Low SDI** | | | | | | | | | | |
| | | 24·6 (21·0–27·1) 7·1 | 23·9 (20·1–25·7) 8·8 | 24·2 (20·9–26·2) 7·9 | 23·8 (20·5–26·1) 11·7 | 23·8 (20·5–25·3) 14·4 | 23·8 (20·7–25·6) 13·1 | -0·1 (-0·2–0·0) 1·5 | 0·0 (-0·2–0·1) 1·5 | 0·0 (-0·2–0·1) 1·5 |
| | All risk factors | | | | | | | | | |
| | Metabolic risks | (5·7–9·1) 10·1 | (7·0–11·0) 9·6 | (6·4–10·0) 9·9 | (10·3–13·4) 13·3 | (12·8–16·3) 13·4 | (11·6–14·8) 13·4 | (1·0–2·2) 0·9 | (0·9–2·3) 1·0 | (1·0–2·2) 0·9 |
| | High fasting plasma glucose | (6·9–15·5) 28·0 | (6·4–15·9) 31·4 | (6·6–15·7) 29·7 | (9·7–19·0) 32·5 | (9·5–20·6) 36·6 | (9·5–19·8) 34·6 | (-0·6–2·3) 0·5 | (-0·6–2·7) 0·5 | (-0·6–2·5) 0·5 |
| | High LDL cholesterol | (20·7–36·4) 25·8 | (22·6–42·0) 26·9 | (21·7–39·4) 26·3 | (24·7–41·3) 30·6 | (27·3–48·0) 28·6 | (26·0–44·8) 29·6 | (-0·3–1·2) 0·7 | (-0·6–1·4) 0·3 | (-0·4–1·4) 0·5 |
| | High systolic blood pressure | (12·6–44·1) 4·7 | (13·1–47·9) 7·0 | (12·8–45·9) 5·9 | (25·3–36·7) 9·9 | (23·7–34·2) 13·6 | (24·6–35·4) 11·8 | (-1·0–2·6) 2·2 | (-1·5–2·4) 2·0 | (-1·3–2·5) 2·1 |
| | High body-mass index | (3·8–5·8) 3·4 | (5·5–9·0) 3·4 | (4·6–7·3) 3·4 | (8·4–11·4) 3·2 | (12·0–15·4) 3·3 | (10·3–13·4) 3·3 | (1·5–3·0) -0·1 | (1·2–2·9) 0·0 | (1·3–2·9) -0·1 |
| | Kidney dysfunction | (2·3–5·6) | (2·2–5·6) | (2·2–5·6) | (2·2–5·3) | (2·2–5·5) | (2·2–5·4) | (-0·2–-0·1) | (-0·1–0·0) | (-0·1–0·0) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 16·2 | 15·8 | 16·0 | 14·5 | 14·8 | 14·6 | -0·3 | -0·2 | -0·3 |
| | Behavioral risks | (11·6–19·9) | (11·7–18·1) | (11·8–18·7) | (10·5–17·5) | (11·0–16·3) | (10·9–16·8) | (-0·6–-0·1) | (-0·5–-0·1) | (-0·6–-0·0) |
| | | 24·7 | 15·4 | 20·1 | 18·6 | 11·2 | 14·9 | -0·9 | -1·0 | -0·9 |
| | Tobacco | (19·3–33·3) | (13·5–18·2) | (16·8–25·7) | (14·3–25·6) | (9·8–13·2) | (12·2–18·9) | (-1·3–-0·4) | (-1·5–-0·4) | (-1·4–-0·4) |
| | | 20·2 | 3·0 | 11·8 | 15·0 | 2·2 | 8·5 | -0·9 | -1·0 | -1·0 |
| | Smoking | (10·3–37·6) | (1·1–7·6) | (5·9–22·7) | (7·4–30·2) | (0·9–5·4) | (4·2–17·4) | (-1·6–-0·3) | (-2·9–-0·8) | (-1·8–-0·2) |
| | | 15·1 | 7·3 | 11·2 | 11·2 | 6·1 | 8·6 | -0·9 | -0·4 | -0·7 |
| | Chewing tobacco | (9·0–22·9) | (3·8–12·5) | (6·4–17·6) | (8·1–15·4) | (3·8–9·8) | (5·9–12·6) | (-2·5–0·8) | (-2·7–1·7) | (-2·6–1·1) |
| | | 30·3 | 37·9 | 34·1 | 25·9 | 29·3 | 27·6 | -0·5 | -0·8 | -0·6 |
| | Secondhand smoke | (27·5–33·1) | (34·9–40·9) | (31·2–36·9) | (23·3–28·9) | (26·2–32·8) | (24·8–30·8) | (-1·0–0·0) | (-1·2–-0·3) | (-1·1–-0·2) |
| | | 3·3 | 1·0 | 2·2 | 3·5 | 1·1 | 2·3 | 0·1 | 0·2 | 0·1 |
| | High alcohol use | (2·3–4·7) | (0·6–1·7) | (1·5–3·2) | (2·5–4·7) | (0·7–1·5) | (1·6–3·1) | (-0·6–0·9) | (-1·1–1·6) | (-0·8–1·0) |
| | | 43·1 | 43·0 | 43·1 | 40·8 | 40·5 | 40·7 | -0·2 | -0·2 | -0·2 |
| | Dietary risks | (28·4–50·8) | (25·0–51·6) | (26·7–51·2) | (27·8–48·4) | (24·2–48·9) | (26·0–48·9) | (-0·6–0·2) | (-0·6–0·2) | (-0·6–0·2) |
| | | 54·4 | 52·3 | 53·4 | 52·0 | 49·6 | 50·8 | -0·1 | -0·2 | -0·2 |
| | Diet low in fruits | (42·7–60·0) | (40·6–58·6) | (41·7–59·3) | (41·3–59·7) | (39·4–57·6) | (40·3–58·7) | (-0·7–0·5) | (-0·7–0·5) | (-0·7–0·5) |
| | | 52·6 | 52·5 | 52·5 | 47·5 | 47·4 | 47·4 | -0·3 | -0·3 | -0·3 |
| | Diet low in vegetables | (27·7–61·2) | (27·5–61·5) | (27·6–61·3) | (25·7–57·7) | (25·0–57·4) | (25·3–57·5) | (-0·9–0·3) | (-0·9–0·3) | (-0·9–0·3) |
| | | 42·9 | 45·8 | 44·3 | 36·5 | 39·4 | 38·0 | -0·5 | -0·5 | -0·5 |
| | Diet low in legumes | (0·0–58·5) | (0·0–62·0) | (0·0–60·2) | (0·0–50·9) | (0·0–54·5) | (0·0–52·7) | (-1·5–0·5) | (-1·4–0·5) | (-1·5–0·5) |
| | | 30·1 | 31·2 | 30·6 | 32·3 | 34·4 | 33·3 | 0·2 | 0·3 | 0·3 |
| | Diet low in whole grains | (23·2–38·4) | (24·0–39·9) | (23·5–39·0) | (24·1–43·0) | (25·8–45·9) | (25·0–44·6) | (-0·8–1·2) | (-0·7–1·3) | (-0·8–1·2) |
| | | 63·3 | 63·1 | 63·2 | 53·4 | 53·6 | 53·5 | -0·5 | -0·5 | -0·5 |
| | Diet low in nuts and seeds | (55·3–71·8) | (55·5–71·5) | (55·3–71·6) | (42·1–63·4) | (42·5–63·4) | (42·2–63·4) | (-1·2–0·1) | (-1·2–0·1) | (-1·2–0·1) |
| | | 11·6 | 8·6 | 10·1 | 12·9 | 9·6 | 11·2 | 0·4 | 0·5 | 0·4 |
| | Diet high in red meat | (0·0–17·5) | (0·0–13·0) | (0·0–15·4) | (0·0–20·4) | (0·0–14·9) | (0·0–17·7) | (-0·7–1·5) | (-0·9–2·5) | (-0·8–1·6) |
| | | 3·9 | 3·6 | 3·7 | 4·9 | 4·5 | 4·7 | 0·7 | 0·7 | 0·7 |
| | Diet high in processed meat | (2·7–5·5) | (2·6–5·0) | (2·6–5·3) | (3·1–7·1) | (2·9–6·4) | (3·0–6·8) | (-0·9–2·0) | (-0·7–2·1) | (-0·8–2·0) |
| | | 2·5 | 2·1 | 2·3 | 4·0 | 3·3 | 3·7 | 1·3 | 1·2 | 1·3 |
| | Diet high in sugar-sweetened beverages | (1·1–5·2) | (1·0–4·2) | (1·0–4·7) | (1·6–9·3) | (1·4–7·6) | (1·5–8·4) | (-1·9–4·9) | (-1·7–4·7) | (-1·8–4·8) |
| | | 32·3 | 33·8 | 33·1 | 24·0 | 26·7 | 25·4 | -1·0 | -0·8 | -0·9 |
| | Diet low in fiber | (19·2–42·9) | (20·1–45·2) | (19·6–44·1) | (12·2–36·7) | (13·9–39·9) | (13·1–38·4) | (-2·7–0·7) | (-2·4–0·8) | (-2·5–0·7) |
| | | 56·4 | 62·3 | 59·3 | 42·4 | 48·2 | 45·3 | -0·9 | -0·8 | -0·8 |
| | Diet low in seafood omega-3 fatty acids | (46·9–65·2) | (53·1–70·4) | (50·0–67·8) | (29·0–53·4) | (34·6–58·5) | (31·8–55·9) | (-1·8–0·0) | (-1·6–-0·1) | (-1·7–0·0) |
| | | 85·7 | 85·2 | 85·5 | 83·0 | 82·1 | 82·6 | -0·1 | -0·1 | -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·5–98·2) | (48·3–97·8) | (48·4–98·0) | (48·3–96·1) | (48·0–95·3) | (48·2–95·7) | (-0·2–0·0) | (-0·2–0·0) | (-0·2–0·0) |
| | | 51·8 | 47·4 | 49·6 | 34·0 | 31·3 | 32·6 | -1·3 | -1·3 | -1·3 |
| | Diet high in trans fatty acids | (35·8–65·0) | (32·3–60·3) | (34·1–62·6) | (22·5–45·9) | (21·0–42·5) | (21·9–44·3) | (-2·6–-0·2) | (-2·6–-0·2) | (-2·6–-0·2) |
| | | 8·5 | 14·6 | 11·5 | 8·4 | 16·4 | 12·5 | 0·0 | 0·4 | 0·2 |
| | Low physical activity | (6·6–10·7) | (11·9–17·7) | (9·5–13·9) | (6·6–10·6) | (13·6–19·4) | (10·2–15·0) | (-0·4–0·4) | (0·1–0·7) | (0·0–0·5) |
| | | 56·2 | 53·6 | 54·9 | 52·2 | 49·9 | 51·0 | -0·2 | -0·2 | -0·2 |
| | Environmental/occupational risks | (46·3–60·0) | (43·8–57·5) | (45·3–58·7) | (42·3–57·8) | (40·4–55·6) | (41·4–56·7) | (-0·5–-0·1) | (-0·5–0·0) | (-0·5–-0·1) |
| | | 60·5 | 60·0 | 60·3 | 56·1 | 55·5 | 55·8 | -0·2 | -0·2 | -0·2 |
| | Air pollution | (39·5–80·9) | (38·9–80·9) | (39·2–80·9) | (37·7–78·0) | (37·2–78·0) | (37·5–78·1) | (-0·4–-0·1) | (-0·4–-0·1) | (-0·4–-0·1) |
| | | 68·7 | 68·0 | 68·3 | 62·4 | 61·8 | 62·1 | -0·3 | -0·3 | -0·3 |
| | Particulate matter pollution | (38·0–95·2) | (37·7–95·2) | (37·9–95·2) | (34·5–90·7) | (34·2–90·4) | (34·4–90·6) | (-0·4–-0·1) | (-0·4–-0·1) | (-0·4–-0·1) |
| | | 13·2 | 10·6 | 11·9 | 20·0 | 16·5 | 18·3 | 1·4 | 1·5 | 1·5 |
| | Ambient particulate matter pollution | (5·4–42·9) | (4·2–36·5) | (4·7–39·8) | (10·3–51·0) | (7·5–45·3) | (9·1–48·0) | (0·2–2·6) | (0·2–2·7) | (0·2–2·6) |
| | | 57·1 | 59·6 | 58·3 | 44·5 | 47·6 | 46·1 | -0·8 | -0·7 | -0·7 |
| | Household air pollution from solid fuels | (32·6–86·7) | (33·7–89·0) | (33·4–87·8) | (23·2–75·7) | (25·4–79·5) | (24·6–77·5) | (-1·2–-0·3) | (-1·0–-0·2) | (-1·1–-0·3) |
| | | 32·3 | 31·6 | 31·9 | 35·7 | 35·2 | 35·5 | 0·3 | 0·3 | 0·3 |
| | Non-optimal temperature | (29·6–36·4) | (28·9–35·7) | (29·3–36·0) | (33·7–37·7) | (33·3–37·2) | (33·5–37·4) | (-0·1–0·6) | (0·0–0·6) | (-0·1–0·6) |
| | | 41·2 | 40·3 | 40·7 | 47·6 | 46·9 | 47·3 | 0·4 | 0·5 | 0·5 |
| | High temperature | (38·4–44·1) | (37·6–43·4) | (38·0–43·8) | (44·5–50·2) | (43·8–49·5) | (44·1–49·8) | (0·2–0·6) | (0·2–0·6) | (0·2–0·6) |
| | | 29·2 | 28·7 | 29·0 | 26·8 | 26·5 | 26·6 | -0·3 | -0·2 | -0·3 |
| | Low temperature | (26·2–34·0) | (25·7–33·4) | (26·0–33·7) | (24·3–30·3) | (23·9–29·9) | (24·1–30·1) | (-0·4–-0·1) | (-0·4–-0·1) | (-0·4–-0·1) |
| | | 50·5 | 44·0 | 47·2 | 51·6 | 45·4 | 48·5 | 0·1 | 0·1 | 0·1 |
| | Other environmental risks | (14·9–61·0) | (13·9–53·9) | (14·4–57·5) | (14·9–61·6) | (14·1–55·3) | (14·5–58·5) | (-0·2–0·5) | (-0·3–0·6) | (-0·2–0·5) |
| | | 60·9 | 51·6 | 56·3 | 62·4 | 53·5 | 57·9 | 0·1 | 0·1 | 0·1 |
| | Lead exposure | (10·1–73·0) | (8·7–64·9) | (9·4–69·0) | (9·8–72·7) | (8·6–63·8) | (9·2–68·2) | (-0·3–0·6) | (-0·3–0·8) | (-0·3–0·7) |
| **Low-middle SDI** | | | | | | | | | | |
| | | 25·1 | 22·3 | 23·7 | 23·6 | 22·4 | 23·0 | -0·2 | 0·0 | -0·1 |
| | All risk factors | (21·9–27·6) | (19·0–24·6) | (20·7–26·0) | (20·7–25·7) | (19·3–24·1) | (20·0–24·9) | (-0·3–0·0) | (-0·2–0·2) | (-0·3–0·0) |
| | | 7·8 | 9·2 | 8·5 | 13·3 | 16·6 | 15·0 | 1·6 | 1·8 | 1·7 |
| | Metabolic risks | (6·3–9·8) | (7·4–11·5) | (6·8–10·7) | (11·8–15·2) | (14·7–19·1) | (13·3–17·1) | (1·1–2·3) | (1·2–2·5) | (1·2–2·4) |
| | | 12·1 | 12·4 | 12·2 | 15·8 | 17·4 | 16·6 | 0·8 | 1·1 | 0·9 |
| | High fasting plasma glucose | (8·2–18·9) | (7·9–20·5) | (8·0–19·7) | (11·2–24·0) | (11·8–28·3) | (11·6–26·0) | (-0·8–2·3) | (-0·7–2·8) | (-0·7–2·6) |
| | | 31·2 | 34·1 | 32·7 | 34·5 | 37·5 | 36·1 | 0·3 | 0·3 | 0·3 |
| | High LDL cholesterol | (23·6–40·3) | (24·6–45·1) | (24·1–42·7) | (26·2–43·8) | (27·6–49·5) | (27·2–46·9) | (-0·5–1·1) | (-0·8–1·3) | (-0·6–1·2) |
| | | 26·8 | 28·6 | 27·7 | 31·9 | 28·5 | 30·3 | 0·7 | 0·1 | 0·4 |
| | High systolic blood pressure | (12·5–47·1) | (13·8–51·1) | (13·1–49·2) | (25·9–38·4) | (22·5–35·7) | (24·2–37·0) | (-1·2–2·9) | (-1·8–2·4) | (-1·5–2·6) |
| | | 5·2 | 7·1 | 6·1 | 11·5 | 16·1 | 13·8 | 2·4 | 2·5 | 2·5 |
| | High body-mass index | (4·3–6·4) | (5·6–8·7) | (4·9–7·5) | (10·3–13·1) | (14·5–18·3) | (12·4–15·6) | (1·8–3·1) | (1·8–3·2) | (1·8–3·2) |
| | | 3·7 | 3·7 | 3·7 | 3·4 | 3·6 | 3·5 | -0·3 | -0·1 | -0·2 |
| | Kidney dysfunction | (2·5–6·1) | (2·4–5·9) | (2·4–6·0) | (2·3–5·6) | (2·4–5·8) | (2·4–5·7) | (-0·3–-0·2) | (-0·1–0·0) | (-0·2–-0·1) |
| | | 17·8 | 16·5 | 17·2 | 15·2 | 15·1 | 15·2 | -0·5 | -0·3 | -0·4 |
| | Behavioral risks | (13·4–21·8) | (12·5–19·4) | (13·2–20·2) | (11·5–18·3) | (11·6–16·8) | (11·7–17·5) | (-0·7–-0·2) | (-0·6–0·0) | (-0·6–-0·1) |
| | | 30·2 | 19·4 | 24·9 | 21·3 | 12·8 | 17·0 | -1·0 | -1·3 | -1·1 |
| | Tobacco | (23·7–40·1) | (17·3–22·7) | (20·8–31·6) | (17·0–28·7) | (11·3–14·6) | (14·2–21·1) | (-1·5–-0·6) | (-1·8–-0·8) | (-1·6–-0·7) |
| | | 24·2 | 3·6 | 14·1 | 15·4 | 2·0 | 8·6 | -1·4 | -1·8 | -1·5 |
| | Smoking | (12·5–44·6) | (1·4–8·3) | (7·1–26·9) | (7·6–31·5) | (0·8–5·0) | (4·2–17·9) | (-2·0–-0·9) | (-3·5–0·0) | (-2·3–-0·9) |
| | | 17·8 | 9·5 | 13·7 | 12·7 | 6·1 | 9·4 | -1·0 | -1·3 | -1·1 |
| | Chewing tobacco | (10·3–27·6) | (5·0–15·7) | (7·8–21·7) | (9·3–17·3) | (3·5–10·1) | (6·5–13·7) | (-2·7–0·7) | (-3·6–0·9) | (-3·0–0·7) |
| | | 36·4 | 47·7 | 42·0 | 30·7 | 32·7 | 31·7 | -0·5 | -1·1 | -0·8 |
| | Secondhand smoke | (33·8–39·4) | (44·5–51·2) | (39·0–45·2) | (27·9–33·8) | (29·1–37·1) | (28·6–35·4) | (-1·0–0·0) | (-1·6–-0·7) | (-1·3–-0·4) |
| | | 3·9 | 0·7 | 2·3 | 3·6 | 0·6 | 2·1 | -0·2 | -0·4 | -0·3 |
| | High alcohol use | (2·7–5·5) | (0·4–1·0) | (1·6–3·3) | (2·6–4·9) | (0·4–0·8) | (1·5–2·9) | (-1·0–0·6) | (-1·8–1·0) | (-1·2–0·6) |
| | | 42·1 | 41·5 | 41·8 | 40·7 | 39·1 | 39·9 | -0·1 | -0·2 | -0·1 |
| | Dietary risks | (30·7–49·0) | (26·7–49·8) | (28·8–49·4) | (30·8–47·2) | (25·9–46·8) | (28·7–46·8) | (-0·5–0·3) | (-0·6–0·3) | (-0·6–0·3) |
| | | 56·3 | 54·1 | 55·2 | 55·3 | 53·0 | 54·2 | -0·1 | -0·1 | -0·1 |
| | Diet low in fruits | (44·3–62·0) | (42·6–60·0) | (43·4–60·9) | (44·4–62·6) | (42·4–60·8) | (43·4–61·6) | (-0·4–0·4) | (-0·4–0·5) | (-0·4–0·4) |
| | | 38·7 | 39·8 | 39·2 | 33·4 | 34·3 | 33·9 | -0·4 | -0·4 | -0·4 |
| | Diet low in vegetables | (22·4–48·2) | (22·5–49·8) | (22·4–49·1) | (19·4–39·8) | (19·4–41·4) | (19·4–40·6) | (-1·1–0·2) | (-1·1–0·2) | (-1·1–0·2) |
| | | 37·3 | 39·4 | 38·3 | 30·9 | 33·6 | 32·3 | -0·6 | -0·5 | -0·5 |
| | Diet low in legumes | (0·0–50·9) | (0·0–53·2) | (0·0–52·0) | (0·0–43·1) | (0·0–46·6) | (0·0–44·9) | (-1·5–0·4) | (-1·4–0·4) | (-1·5–0·4) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 31·9 | 32·4 | 32·1 | 33·6 | 35·1 | 34·3 | 0·1 | 0·2 | 0·2 |
| | Diet low in whole grains | (23·7–41·7) 66·3 | (23·7–42·6) 67·5 | (23·7–42·1) 66·9 | (23·9–46·1) 54·6 | (24·6–48·4) 55·0 | (24·2–47·3) 54·8 | (-1·1–1·3) -0·6 | (-1·0–1·4) -0·6 | (-1·1–1·4) -0·6 |
| | Diet low in nuts and seeds | (56·9–75·9) 10·5 | (58·5–76·7) 8·0 | (57·7–76·3) 9·3 | (45·0–63·5) 13·2 | (46·0–63·7) 10·1 | (45·5–63·6) 11·6 | (-1·2–0·0) 0·9 | (-1·2–0·0) 1·0 | (-1·2–0·0) 0·9 |
| | Diet high in red meat | (0·0–17·0) 3·7 | (0·0–12·9) 3·5 | (0·0–14·8) 3·6 | (0·0–20·8) 4·9 | (0·0–15·6) 4·7 | (0·0–18·2) 4·8 | (-0·4–4·7) 0·8 | (-0·4–7·5) 0·9 | (-0·3–4·8) 0·8 |
| | Diet high in processed meat | (2·7–5·3) 4·0 | (2·5–4·9) 3·2 | (2·6–5·1) 3·6 | (3·3–6·7) 7·8 | (3·2–6·4) 6·3 | (3·3–6·6) 7·1 | (-0·5–2·1) 2·1 | (-0·4–2·1) 2·1 | (-0·4–2·1) 2·1 |
| | Diet high in sugar-sweetened beverages | (1·6–8·2) 30·5 | (1·3–6·5) 35·2 | (1·5–7·4) 32·8 | (3·7–16·5) 19·9 | (3·1–13·3) 23·6 | (3·4–14·8) 21·8 | (-0·6–5·3) -1·4 | (-0·5–5·1) -1·3 | (-0·5–5·2) -1·4 |
| | Diet low in fiber | (16·5–46·2) 62·0 | (19·7–51·6) 66·8 | (18·1–48·9) 64·4 | (8·4–36·1) 42·6 | (10·1–41·0) 48·7 | (9·3–38·6) 45·7 | (-4·3–1·3) -1·2 | (-4·0–1·1) -1·0 | (-4·1–1·2) -1·1 |
| | Diet low in seafood omega-3 fatty acids | (52·6–70·1) 80·7 | (58·2–74·2) 79·1 | (55·3–72·0) 79·9 | (27·1–55·0) 78·3 | (33·2–60·0) 76·7 | (30·2–57·5) 77·5 | (-2·4–-0·2) -0·1 | (-2·0–-0·2) -0·1 | (-2·2–-0·2) -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (45·7–92·7) 60·8 | (44·9–91·1) 56·3 | (45·3–91·9) 58·6 | (46·2–91·4) 48·1 | (45·5–90·0) 44·2 | (45·8–90·7) 46·1 | (-0·2–0·1) -0·7 | (-0·3–0·1) -0·7 | (-0·3–0·1) -0·7 |
| | Diet high in trans fatty acids | (42·5–75·7) 38·9 | (38·7–71·6) 29·8 | (40·6–73·4) 34·4 | (31·7–64·3) 41·1 | (29·1–59·1) 27·8 | (31·0–62·0) 34·4 | (-2·0–0·3) 0·2 | (-2·1–0·4) -0·3 | (-2·0–0·3) 0·0 |
| | Diet high in sodium | (8·7–68·1) 12·0 | (5·4–58·5) 18·0 | (7·1–63·9) 15·0 | (9·3–72·0) 11·9 | (3·4–57·7) 19·5 | (6·2–64·8) 15·8 | (-2·3–2·8) 0·0 | (-3·3–2·0) 0·2 | (-2·7–2·5) 0·2 |
| | Low physical activity | (9·6–14·8) 53·1 | (14·8–21·4) 50·3 | (12·4–17·8) 51·7 | (9·7–14·5) 43·7 | (16·3–22·9) 41·2 | (13·2–18·4) 42·4 | (-0·5–0·5) -0·6 | (-0·1–0·6) -0·6 | (-0·2–0·4) -0·6 |
| | Environmental/occupational risks | (43·1–57·3) 57·4 | (40·6–54·6) 56·7 | (41·9–55·9) 57·1 | (33·3–51·1) 47·9 | (31·2–48·8) 47·3 | (32·2–49·9) 47·6 | (-1·0–-0·3) -0·6 | (-1·1–-0·3) -0·6 | (-1·0–-0·3) -0·6 |
| | Air pollution | (37·4–78·3) 64·4 | (36·8–78·0) 63·6 | (37·1–78·2) 64·0 | (31·0–71·0) 52·1 | (30·8–70·8) 51·3 | (30·9–70·9) 51·7 | (-0·8–-0·2) -0·7 | (-0·8–-0·2) -0·7 | (-0·8–-0·2) -0·7 |
| | Particulate matter pollution | (35·7–90·6) 51·2 | (35·3–90·4) 53·5 | (35·5–90·5) 52·3 | (28·8–82·8) 27·8 | (28·5–82·6) 30·8 | (28·7–82·7) 29·3 | (-0·9–-0·2) -2·0 | (-0·9–-0·2) -1·8 | (-0·9–-0·2) -1·9 |
| | Household air pollution from solid fuels | (28·8–79·8) 36·2 | (30·4–82·3) 35·3 | (30·0–81·0) 35·7 | (13·5–58·7) 40·2 | (15·9–62·4) 39·5 | (14·9–60·3) 39·8 | (-2·9–-0·6) 0·3 | (-2·5–-0·6) 0·3 | (-2·7–-0·6) 0·3 |
| | Non-optimal temperature | (34·2–38·0) 47·1 | (33·5–37·0) 45·7 | (33·9–37·5) 46·4 | (37·2–42·6) 54·2 | (36·6–41·7) 53·2 | (36·9–42·2) 53·7 | (0·1–0·5) 0·4 | (0·1–0·5) 0·5 | (0·1–0·5) 0·4 |
| | High temperature | (43·4–50·1) 32·2 | (42·2–48·5) 31·8 | (42·8–49·3) 32·0 | (48·3–58·4) 28·9 | (47·6–57·2) 28·3 | (47·9–57·8) 28·6 | (0·3–0·5) -0·3 | (0·3–0·6) -0·4 | (0·3–0·5) -0·3 |
| | Low temperature | (29·6–36·2) 52·1 | (29·2–35·7) 46·8 | (29·4–36·0) 49·5 | (26·6–32·0) 51·0 | (26·0–31·3) 45·7 | (26·3–31·6) 48·3 | (-0·4–-0·2) -0·1 | (-0·4–-0·2) -0·1 | (-0·4–-0·2) -0·1 |
| | Other environmental risks | (15·5–63·1) 63·3 | (14·8–58·1) 55·6 | (15·1–60·6) 59·5 | (14·3–61·0) 61·7 | (13·8–55·5) 54·1 | (14·1–58·2) 57·9 | (-0·4–0·4) -0·1 | (-0·5–0·4) -0·1 | (-0·4–0·4) -0·1 |
| | Lead exposure | (10·6–77·0) | (9·5–70·1) | (10·1–73·6) | (9·4–71·9) | (8·6–64·5) | (9·0–68·3) | (-0·4–0·5) | (-0·6–0·6) | (-0·5–0·5) |
| **Middle SDI** | | | | | | | | | | |
| | | 24·8 | 22·7 | 23·8 | 23·4 | 22·2 | 22·8 | -0·2 | -0·1 | -0·1 |
| | All risk factors | (21·2–27·3) 11·4 | (19·3–24·3) 12·8 | (20·0–25·5) 12·1 | (20·4–25·7) 18·9 | (19·1–23·5) 22·1 | (19·7–24·6) 20·5 | (-0·3–0·0) 1·5 | (-0·2–0·1) 1·7 | (-0·3–0·0) 1·6 |
| | Metabolic risks | (9·7–13·8) 12·9 | (10·9–15·1) 13·0 | (10·3–14·5) 13·0 | (17·2–20·7) 15·1 | (20·1–24·1) 16·2 | (18·7–22·4) 15·6 | (1·1–2·1) 0·5 | (1·1–2·2) 0·7 | (1·1–2·1) 0·6 |
| | High fasting plasma glucose | (8·7–20·3) 39·2 | (8·5–20·8) 43·0 | (8·6–20·6) 41·2 | (11·4–20·5) 42·8 | (11·7–22·9) 45·7 | (11·6–21·6) 44·3 | (-0·9–2·0) 0·3 | (-0·8–2·2) 0·2 | (-0·9–2·1) 0·2 |
| | High LDL cholesterol | (30·3–49·2) 28·1 | (32·3–55·5) 27·7 | (31·5–52·3) 28·0 | (33·4–53·6) 34·1 | (34·7–58·4) 30·7 | (34·0–56·0) 32·5 | (-0·6–1·0) 0·7 | (-0·8–1·1) 0·4 | (-0·7–1·1) 0·6 |
| | High systolic blood pressure | (14·1–47·6) 9·4 | (14·2–48·0) 11·3 | (14·2–47·9) 10·4 | (28·3–40·7) 18·3 | (25·5–36·5) 22·7 | (27·3–38·3) 20·5 | (-0·9–2·6) 2·0 | (-1·3–2·3) 2·1 | (-1·1–2·4) 2·1 |
| | High body-mass index | (7·8–11·2) 3·0 | (9·5–13·3) 3·3 | (8·6–12·3) 3·2 | (16·6–20·2) 3·1 | (20·6–24·8) 3·3 | (18·8–22·4) 3·2 | (1·5–2·6) 0·1 | (1·6–2·7) 0·1 | (1·5–2·6) 0·1 |
| | Kidney dysfunction | (2·0–5·2) 19·6 | (2·2–5·4) 15·9 | (2·1–5·3) 17·7 | (2·0–5·3) 19·0 | (2·2–5·5) 15·2 | (2·1–5·4) 17·1 | (0·0–0·1) -0·1 | (0·0–0·1) -0·1 | (0·0–0·1) -0·1 |
| | Behavioral risks | (14·8–24·0) 34·8 | (12·4–17·9) 21·3 | (13·3–20·7) 28·0 | (14·7–23·0) 31·5 | (12·2–16·7) 18·7 | (14·1–19·6) 25·0 | (-0·3–0·1) -0·3 | (-0·4–0·1) -0·4 | (-0·3–0·1) -0·3 |
| | Tobacco | (26·9–46·3) 38·0 | (19·5–24·2) 4·0 | (23·3–35·0) 20·7 | (24·0–42·4) 33·8 | (17·1–20·8) 2·4 | (20·7–31·1) 18·0 | (-0·6–0·0) -0·3 | (-0·7–-0·1) -1·6 | (-0·6–0·0) -0·4 |
| | Smoking | (20·7–63·4) 2·3 | (1·7–9·3) 1·3 | (11·1–35·5) 1·8 | (17·5–57·4) 1·8 | (1·0–5·7) 0·9 | (9·2–32·0) 1·4 | (-0·8–0·1) -0·6 | (-2·9–-0·2) -1·1 | (-0·9–0·0) -0·8 |
| | Chewing tobacco | (1·2–4·1) 36·8 | (0·6–2·6) 56·2 | (0·9–3·3) 46·6 | (1·0–3·2) 34·2 | (0·4–1·9) 50·9 | (0·7–2·6) 42·5 | (-2·8–1·7) -0·2 | (-4·2–2·1) -0·3 | (-3·3–1·8) -0·3 |
| | Secondhand smoke | (34·2–39·6) 4·9 | (52·9–59·4) 1·0 | (43·7–49·6) 2·9 | (32·0–36·8) 6·1 | (47·6–54·4) 1·3 | (39·8–45·5) 3·7 | (-0·6–0·1) 0·7 | (-0·6–0·0) 0·6 | (-0·6–0·0) 0·7 |
| | High alcohol use | (3·4–6·7) 41·8 | (0·6–1·6) 40·8 | (2·0–4·0) 41·3 | (4·5–8·1) 36·4 | (0·9–1·7) 34·4 | (2·7–5·0) 35·4 | (0·2–1·2) -0·4 | (-0·4–1·7) -0·5 | (0·2–1·3) -0·5 |
| | Dietary risks | (32·3–48·8) 43·2 | (26·3–48·3) 39·6 | (29·4–48·3) 41·4 | (26·3–44·1) 34·8 | (24·8–41·7) 31·5 | (25·5–42·5) 33·1 | (-1·0–0·0) -0·7 | (-1·0–-0·1) -0·7 | (-1·0–-0·1) -0·7 |
| | Diet low in fruits | (34·3–50·0) 35·3 | (31·0–46·3) 37·1 | (32·6–48·2) 36·2 | (27·8–41·3) 24·9 | (24·6–38·1) 26·0 | (26·2–39·7) 25·4 | (-1·3–0·1) -1·1 | (-1·4–0·1) -1·1 | (-1·4–0·1) -1·1 |
| | Diet low in vegetables | (20·0–44·0) 55·5 | (20·2–45·9) 59·2 | (20·1–45·0) 57·4 | (15·5–33·8) 45·4 | (15·1–33·7) 49·6 | (15·3–33·8) 47·5 | (-2·1–-0·1) -0·6 | (-2·0–-0·2) -0·5 | (-2·0–-0·2) -0·6 |
| | Diet low in legumes | (0·0–72·3) 39·6 | (0·0–75·9) 42·3 | (0·0–74·1) 41·0 | (0·0–62·7) 39·2 | (0·0–67·0) 42·6 | (0·0–64·9) 40·9 | (-1·6–0·3) 0·0 | (-1·5–0·3) 0·0 | (-1·5–0·3) 0·0 |
| | Diet low in whole grains | (30·5–49·0) 62·5 | (33·1–51·3) 63·7 | (31·8–50·2) 63·1 | (29·1–50·0) 44·9 | (32·7–53·1) 45·5 | (31·0–51·6) 45·2 | (-1·0–0·9) -1·0 | (-0·9–0·9) -1·0 | (-0·9–0·9) -1·0 |
| | Diet low in nuts and seeds | (52·2–73·8) 19·5 | (53·6–74·6) 14·3 | (52·9–74·2) 16·9 | (31·9–57·8) 25·7 | (32·5–58·1) 18·6 | (32·2–58·0) 22·1 | (-2·1–-0·1) 1·1 | (-2·1–-0·1) 1·2 | (-2·1–-0·1) 1·1 |
| | Diet high in red meat | (0·0–30·5) 4·1 | (0·0–22·0) 3·7 | (0·0–26·2) 3·9 | (0·0–39·3) 6·2 | (0·0–29·3) 5·7 | (0·0–34·3) 5·9 | (-0·3–6·0) 1·3 | (-0·2–6·8) 1·3 | (-0·3–6·1) 1·3 |
| | Diet high in processed meat | (2·9–5·5) 4·1 | (2·7–4·9) 3·2 | (2·8–5·2) 3·7 | (4·6–8·5) 10·0 | (4·3–7·6) 7·9 | (4·5–8·0) 8·9 | (0·3–2·2) 2·8 | (0·4–2·2) 2·9 | (0·4–2·2) 2·9 |
| | Diet high in sugar-sweetened beverages | (1·9–8·1) 44·8 | (1·5–6·4) 48·7 | (1·7–7·2) 46·8 | (6·9–15·2) 31·0 | (5·5–11·8) 33·0 | (6·2–13·5) 32·0 | (0·9–5·2) -1·2 | (1·0–5·0) -1·3 | (0·9–5·1) -1·2 |
| | Diet low in fiber | (25·6–63·1) 39·1 | (27·9–67·6) 45·4 | (26·8–65·4) 42·3 | (13·1–50·7) 18·8 | (13·9–53·9) 23·7 | (13·5–52·4) 21·3 | (-3·4–0·8) -2·3 | (-3·5–0·7) -2·0 | (-3·5–0·8) -2·2 |
| | Diet low in seafood omega-3 fatty acids | (26·5–51·1) 76·0 | (33·2–56·6) 74·7 | (30·0–53·9) 75·3 | (9·1–30·2) 64·3 | (12·5–36·5) 62·4 | (10·8–33·4) 63·3 | (-4·0–-0·5) -0·5 | (-3·6–-0·5) -0·5 | (-3·8–-0·5) -0·5 |
| | Diet low in omega-6 polyunsaturated fatty acids | (45·0–89·2) 40·0 | (44·3–88·0) 36·8 | (44·7–88·6) 38·3 | (38·2–79·5) 27·9 | (37·1–77·5) 25·8 | (37·7–78·5) 26·8 | (-0·9–-0·1) -1·1 | (-1·0–-0·2) -1·1 | (-0·9–-0·1) -1·1 |
| | Diet high in trans fatty acids | (26·7–51·9) 50·1 | (24·4–48·5) 40·4 | (25·5–50·0) 45·1 | (19·7–36·0) 46·5 | (18·3–33·4) 35·2 | (19·1–34·8) 40·8 | (-2·2–-0·1) -0·3 | (-2·3–0·0) -0·5 | (-2·3–-0·1) -0·4 |
| | Diet high in sodium | (22·6–73·1) | (14·2–63·5) | (18·0–67·9) | (17·6–73·2) | (10·0–60·9) | (13·6–66·7) | (-2·2–1·2) | (-2·8–1·0) | (-2·4–1·1) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 12·9 | 21·8 | 17·4 | 13·6 | 24·3 | 19·0 | 0·2 | 0·3 | 0·3 |
| | Low physical activity | (10·3–15·7) 44·6 | (18·5–24·7) 42·0 | (14·5–20·0) 43·3 | (11·1–16·1) 29·6 | (20·7–27·7) 27·6 | (16·2–21·9) 28·6 | (-0·2–0·6) -1·3 | (0·0–0·6) -1·3 | (0·0–0·5) -1·3 |
| | Environmental/occupational risks | (34·2–52·0) 50·5 | (32·2–49·6) 50·1 | (33·2–50·8) 50·3 | (21·1–38·8) 32·0 | (20·0–36·7) 32·0 | (20·5–37·7) 32·0 | (-1·7–-0·8) -1·4 | (-1·7–-0·8) -1·4 | (-1·7–-0·8) -1·4 |
| | Air pollution | (33·1–74·2) 55·5 | (32·8–73·9) 54·9 | (33·0–74·0) 55·2 | (18·6–57·3) 33·1 | (18·8–57·7) 32·9 | (18·8–57·5) 33·0 | (-2·0–-0·6) -1·6 | (-2·0–-0·6) -1·6 | (-2·0–-0·6) -1·6 |
| | Particulate matter pollution | (31·4–85·2) 19·5 | (31·1–85·3) 16·6 | (31·3–85·2) 18·1 | (18·6–65·8) 35·6 | (18·6–66·4) 34·0 | (18·7–66·1) 34·8 | (-2·1–-0·6) 1·9 | (-2·1–-0·6) 2·3 | (-2·1–-0·6) 2·1 |
| | Ambient particulate matter pollution | (8·8–49·2) 39·3 | (7·0–44·1) 41·9 | (7·7–46·6) 40·6 | (18·3–67·5) 7·4 | (17·2–65·0) 9·1 | (17·8–66·3) 8·3 | (0·9–2·8) -5·4 | (1·1–3·2) -4·9 | (1·0–3·0) -5·1 |
| | Household air pollution from solid fuels | (20·8–66·7) 20·5 | (22·8–70·4) 20·2 | (22·2–68·4) 20·3 | (2·5–21·7) 25·7 | (3·7–24·2) 25·5 | (3·2–22·9) 25·6 | (-7·6–-3·2) 0·7 | (-6·8–-3·0) 0·7 | (-7·1–-3·1) 0·7 |
| | Non-optimal temperature | (19·2–22·3) 23·3 | (18·9–22·1) 23·1 | (19·1–22·2) 23·2 | (24·4–27·1) 34·1 | (24·2–27·0) 34·0 | (24·3–27·0) 34·1 | (0·4–0·9) 1·2 | (0·4–0·9) 1·2 | (0·4–0·9) 1·2 |
| | High temperature | (21·3–25·6) 16·4 | (21·2–25·5) 16·1 | (21·2–25·5) 16·2 | (31·1–36·8) 15·8 | (30·9–36·6) 15·6 | (31·0–36·6) 15·7 | (0·9–1·4) -0·1 | (0·9–1·4) -0·1 | (0·9–1·4) -0·1 |
| | Low temperature | (15·3–17·8) 46·8 | (15·0–17·5) 39·8 | (15·2–17·6) 43·3 | (14·6–17·4) 43·5 | (14·5–17·2) 38·0 | (14·6–17·3) 40·7 | (-0·2–0·0) -0·2 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·2 |
| | Other environmental risks | (13·1–56·2) 58·9 | (12·0–49·5) 48·9 | (12·6–52·7) 53·8 | (11·2–51·3) 54·8 | (10·5–45·0) 46·8 | (10·8–48·0) 50·8 | (-0·5–0·2) -0·2 | (-0·5–0·4) -0·1 | (-0·5–0·3) -0·2 |
| | Lead exposure | (9·7–72·1) | (8·3–62·7) | (9·0–67·4) | (8·4–65·1) | (7·3–55·9) | (7·8–60·2) | (-0·5–0·3) | (-0·6–0·5) | (-0·5–0·4) |
| **High-middle SDI** | | | | | | | | | | |
| | | 26·1 | 23·2 | 24·7 | 23·5 | 21·9 | 22·7 | -0·3 | -0·2 | -0·2 |
| | All risk factors | (22·5–28·6) 13·1 | (19·6–24·9) 14·8 | (20·8–26·5) 13·9 | (20·3–25·7) 21·3 | (19·0–23·4) 23·7 | (19·6–24·4) 22·5 | (-0·5–-0·2) 1·5 | (-0·3–0·0) 1·4 | (-0·4–-0·1) 1·5 |
| | Metabolic risks | (10·9–16·0) 17·8 | (12·4–17·6) 17·3 | (11·7–16·9) 17·6 | (19·0–23·7) 19·5 | (21·4–26·2) 20·3 | (20·3–25·0) 19·9 | (0·9–2·0) 0·3 | (0·9–2·0) 0·5 | (0·9–2·0) 0·4 |
| | High fasting plasma glucose | (11·3–29·1) 39·4 | (10·9–28·7) 41·5 | (11·1–28·9) 40·5 | (14·6–26·6) 44·7 | (14·9–28·6) 46·4 | (14·7–27·6) 45·6 | (-1·2–2·0) 0·4 | (-1·0–2·2) 0·3 | (-1·1–2·1) 0·4 |
| | High LDL cholesterol | (30·4–49·3) 23·1 | (31·1–53·6) 21·4 | (30·8–51·4) 22·3 | (35·1–55·2) 32·0 | (35·9–58·6) 26·5 | (35·5–57·0) 29·3 | (-0·4–1·2) 1·2 | (-0·6–1·2) 0·8 | (-0·5–1·2) 1·0 |
| | High systolic blood pressure | (9·8–43·2) 10·7 | (9·3–42·2) 13·1 | (9·6–42·8) 11·9 | (24·7–41·0) 20·5 | (20·3–35·0) 24·1 | (22·5–38·0) 22·3 | (-0·9–3·3) 2·0 | (-1·3–2·9) 1·8 | (-1·1–3·1) 1·9 |
| | High body-mass index | (8·8–12·7) 3·2 | (10·9–15·7) 3·2 | (9·8–14·1) 3·2 | (18·4–23·1) 3·2 | (22·0–26·6) 3·2 | (20·2–24·9) 3·2 | (1·3–2·6) 0·0 | (1·3–2·5) 0·0 | (1·3–2·5) 0·0 |
| | Kidney dysfunction | (2·1–5·2) 21·6 | (2·1–5·3) 16·6 | (2·1–5·2) 19·2 | (2·2–5·2) 19·1 | (2·2–5·2) 15·6 | (2·2–5·2) 17·3 | (-0·1–0·1) -0·4 | (-0·1–0·1) -0·2 | (-0·1–0·1) -0·3 |
| | Behavioral risks | (17·2–25·8) 35·2 | (12·9–18·7) 22·0 | (15·3–22·2) 28·7 | (15·3–22·6) 26·4 | (12·5–17·4) 15·0 | (14·1–19·8) 20·6 | (-0·6–-0·2) -0·9 | (-0·4–0·0) -1·2 | (-0·5–-0·1) -1·0 |
| | Tobacco | (26·9–46·7) 38·4 | (19·8–25·4) 5·0 | (23·7–36·1) 22·0 | (19·9–36·0) 26·6 | (13·2–17·3) 2·8 | (16·6–26·3) 14·5 | (-1·2–-0·5) -1·1 | (-1·6–-0·7) -1·8 | (-1·3–-0·6) -1·3 |
| | Smoking | (20·7–63·8) 4·6 | (2·2–10·8) 2·0 | (11·6–37·3) 3·3 | (13·7–46·4) 4·7 | (1·2–6·3) 2·0 | (7·5–25·8) 3·4 | (-1·6–-0·7) 0·2 | (-3·0–-0·6) 0·1 | (-1·8–-0·8) 0·1 |
| | Chewing tobacco | (2·6–7·3) 36·7 | (1·0–3·8) 56·9 | (1·8–5·6) 46·6 | (3·4–6·6) 31·1 | (1·0–3·7) 39·1 | (2·2–5·2) 35·2 | (-1·5–2·0) -0·5 | (-2·6–2·7) -1·1 | (-1·9–2·1) -0·9 |
| | Secondhand smoke | (32·7–40·9) 8·4 | (52·8–60·9) 1·7 | (42·6–50·7) 5·1 | (27·6–35·3) 8·2 | (35·3–43·8) 2·0 | (31·5–39·6) 5·1 | (-1·0–0·0) -0·1 | (-1·5–-0·8) 0·5 | (-1·3–-0·4) 0·0 |
| | High alcohol use | (6·1–11·7) 42·7 | (1·1–2·5) 41·5 | (3·7–7·2) 42·1 | (6·0–11·0) 39·9 | (1·4–2·7) 37·4 | (3·7–6·9) 38·7 | (-0·5–0·3) -0·2 | (-0·4–1·3) -0·3 | (-0·5–0·5) -0·3 |
| | Dietary risks | (33·9–50·9) 49·7 | (29·7–49·6) 45·0 | (32·6–49·8) 47·4 | (30·6–47·9) 44·2 | (27·8–44·2) 40·7 | (29·0–45·9) 42·4 | (-0·7–0·3) -0·3 | (-0·8–0·2) -0·3 | (-0·8–0·2) -0·3 |
| | Diet low in fruits | (39·9–59·2) 26·1 | (35·3–53·8) 27·4 | (37·7–56·6) 26·7 | (37·1–51·0) 21·4 | (34·0–46·9) 22·2 | (35·6–49·0) 21·8 | (-0·9–0·3) -0·6 | (-0·9–0·4) -0·6 | (-0·9–0·4) -0·6 |
| | Diet low in vegetables | (15·5–34·8) 52·4 | (15·2–35·8) 56·0 | (15·4–35·3) 54·2 | (12·6–29·6) 37·5 | (12·4–28·2) 41·7 | (12·8–29·0) 39·6 | (-1·8–0·7) -1·0 | (-1·5–0·4) -0·9 | (-1·6–0·5) -1·0 |
| | Diet low in legumes | (0·0–70·6) 40·2 | (0·0–73·7) 41·4 | (0·0–72·2) 40·8 | (0·0–54·9) 37·7 | (0·0–59·3) 40·5 | (0·0–57·1) 39·1 | (-2·2–0·2) -0·2 | (-2·0–0·2) -0·1 | (-2·1–0·2) -0·1 |
| | Diet low in whole grains | (30·2–52·5) 61·4 | (31·3–53·2) 63·4 | (30·8–53·0) 62·4 | (26·7–50·5) 42·6 | (28·9–53·9) 44·6 | (27·8–52·4) 43·6 | (-1·3–0·9) -1·1 | (-1·1–1·0) -1·1 | (-1·2–0·9) -1·1 |
| | Diet low in nuts and seeds | (49·8–73·2) 26·5 | (52·5–74·4) 19·1 | (51·1–73·8) 22·8 | (29·4–56·2) 30·2 | (31·5–57·9) 21·6 | (30·5–57·1) 25·8 | (-2·3–-0·1) 0·6 | (-2·2–-0·1) 0·9 | (-2·2–-0·1) 0·6 |
| | Diet high in red meat | (0·0–42·9) 4·3 | (0·0–30·7) 4·0 | (0·0–36·8) 4·1 | (0·0–46·9) 6·7 | (0·0–34·9) 6·1 | (0·0–41·0) 6·4 | (-1·1–5·7) 1·4 | (-0·9–9·5) 1·3 | (-1·0–6·1) 1·3 |
| | Diet high in processed meat | (3·1–5·7) 8·6 | (3·0–5·3) 7·0 | (3·0–5·5) 7·8 | (5·1–9·0) 18·6 | (4·8–7·9) 15·0 | (4·9–8·4) 16·8 | (0·4–2·4) 2·5 | (0·4–2·2) 2·5 | (0·5–2·3) 2·5 |
| | Diet high in sugar-sweetened beverages | (3·8–15·0) 33·4 | (3·0–12·7) 37·3 | (3·3–13·8) 35·3 | (13·7–24·7) 15·1 | (10·7–20·1) 18·0 | (12·2–22·3) 16·6 | (0·6–4·9) -2·6 | (0·6–5·1) -2·4 | (0·6–5·0) -2·5 |
| | Diet low in fiber | (15·4–55·0) 49·0 | (18·2–59·4) 55·4 | (16·8–57·2) 52·2 | (4·7–31·3) 22·9 | (6·1–35·7) 30·0 | (5·4–33·5) 26·5 | (-6·0–0·6) -2·5 | (-5·6–0·6) -2·0 | (-5·8–0·6) -2·2 |
| | Diet low in seafood omega-3 fatty acids | (33·0–61·7) 72·5 | (40·9–66·4) 70·4 | (36·9–64·0) 71·4 | (7·8–40·0) 55·1 | (12·7–46·9) 52·2 | (10·3–43·6) 53·6 | (-5·1–-0·5) -0·8 | (-4·1–-0·4) -0·9 | (-4·5–-0·4) -0·9 |
| | Diet low in omega-6 polyunsaturated fatty acids | (44·1–86·9) 47·7 | (42·8–85·0) 44·0 | (43·5–86·0) 45·9 | (32·8–73·6) 38·1 | (30·8–70·5) 35·2 | (31·8–72·1) 36·6 | (-1·6–-0·1) -0·7 | (-1·7–-0·2) -0·7 | (-1·7–-0·2) -0·7 |
| | Diet high in trans fatty acids | (31·8–61·8) 56·1 | (29·1–57·7) 45·9 | (30·5–59·6) 51·1 | (24·8–51·8) 54·5 | (23·2–48·2) 42·1 | (24·2–50·1) 48·2 | (-2·0–0·5) -0·1 | (-2·1–0·5) -0·3 | (-2·1–0·5) -0·2 |
| | Diet high in sodium | (31·7–78·6) 13·3 | (23·6–68·1) 20·5 | (28·1–72·9) 16·9 | (29·0–79·0) 15·3 | (19·7–66·3) 24·5 | (24·2–72·1) 20·0 | (-1·2–1·0) 0·4 | (-1·5–0·7) 0·5 | (-1·4–0·8) 0·5 |
| | Low physical activity | (10·6–16·6) 46·2 | (17·1–24·2) 43·6 | (14·2–19·9) 44·9 | (12·6–18·6) 31·0 | (20·0–29·1) 28·8 | (16·9–23·7) 29·9 | (-0·1–1·0) -1·2 | (0·1–0·9) -1·3 | (0·2–0·8) -1·3 |
| | Environmental/occupational risks | (35·7–52·5) 52·6 | (33·2–50·0) 51·9 | (34·5–51·3) 52·3 | (21·9–40·0) 34·6 | (20·4–37·8) 34·0 | (21·2–38·8) 34·3 | (-1·7–-0·8) -1·3 | (-1·7–-0·8) -1·3 | (-1·7–-0·8) -1·3 |
| | Air pollution | (34·3–77·5) 56·1 | (33·6–76·8) 55·2 | (33·9–77·2) 55·7 | (20·8–59·8) 35·2 | (20·2–59·2) 34·4 | (20·5–59·5) 34·8 | (-1·8–-0·6) -1·5 | (-1·8–-0·6) -1·5 | (-1·8–-0·6) -1·5 |
| | Particulate matter pollution | (31·1–86·1) 24·4 | (30·7–85·8) 21·3 | (30·9–86·0) 22·9 | (19·9–68·0) 45·2 | (19·6–67·3) 43·8 | (19·7–67·7) 44·5 | (-1·9–-0·6) 2·0 | (-1·9–-0·6) 2·4 | (-1·9–-0·6) 2·2 |
| | Ambient particulate matter pollution | (11·0–60·8) 35·4 | (9·2–56·9) 37·9 | (10·1–58·9) 36·7 | (23·7–73·8) 3·1 | (23·0–72·6) 4·1 | (23·3–73·2) 3·6 | (0·6–2·9) -8·7 | (0·7–3·3) -7·7 | (0·7–3·1) -8·2 |
| | Household air pollution from solid fuels | (18·8–63·1) 28·8 | (20·8–66·7) 28·5 | (19·9–64·8) 28·7 | (0·3–11·2) 31·4 | (0·5–13·3) 31·0 | (0·4–12·2) 31·2 | (-14·4–-4·9) 0·3 | (-12·6–-4·2) 0·3 | (-13·3–-4·5) 0·3 |
| | Non-optimal temperature | (28·0–29·7) 30·8 | (27·7–29·4) 30·2 | (27·8–29·6) 30·5 | (30·1–32·6) 40·1 | (29·8–32·2) 39·6 | (29·9–32·4) 39·9 | (0·1–0·4) 0·8 | (0·1–0·4) 0·8 | (0·1–0·4) 0·8 |
| | High temperature | (28·2–33·5) 26·5 | (27·6–32·8) 26·3 | (27·9–33·2) 26·4 | (36·1–43·2) 24·5 | (35·7–42·7) 24·3 | (35·9–43·0) 24·4 | (0·6–0·9) -0·2 | (0·6–1·0) -0·2 | (0·6–1·0) -0·2 |
| | Low temperature | (25·2–28·2) | (25·1–28·1) | (25·2–28·2) | (23·1–26·5) | (22·9–26·3) | (23·0–26·4) | (-0·3–-0·2) | (-0·3–-0·2) | (-0·3–-0·2) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | Other environmental risks | 49·2 (15·1–59·3) | 42·1 (14·2–53·5) | 45·7 (14·6–56·4) | 46·8 (13·9–55·6) | 41·0 (13·3–49·4) | 43·9 (13·6–52·5) | -0·1 (-0·5–0·4) | -0·1 (-0·5–0·5) | -0·1 (-0·5–0·4) |
| | Lead exposure | 61·0 (10·5–74·3) | 50·6 (9·4–64·7) | 55·9 (10·0–69·5) | 57·1 (8·8–66·9) | 48·7 (7·8–57·7) | 52·9 (8·3–62·1) | -0·2 (-0·7–0·5) | -0·1 (-0·7–0·6) | -0·2 (-0·7–0·5) |
| **High SDI** | | | | | | | | | | |
| | All risk factors | 25·7 (22·1–28·4) | 23·6 (19·9–25·2) | 24·7 (20·8–26·6) | 24·8 (21·3–26·9) | 23·4 (20·2–24·9) | 24·1 (20·8–26·0) | -0·1 (-0·2–0·0) | 0·0 (-0·2–0·1) | -0·1 (-0·2–0·1) |
| | Metabolic risks | 19·0 (16·8–21·9) | 18·4 (16·1–21·1) | 18·7 (16·4–21·5) | 25·4 (24·7–29·3) | 25·4 (23·3–28·0) | 26·2 (24·0–28·7) | 1·0 (0·6–1·5) | 1·0 (0·5–1·5) | 1·0 (0·6–1·5) |
| | High fasting plasma glucose | 15·7 (10·5–24·3) | 13·7 (8·9–21·8) | 14·7 (9·7–23·0) | 19·5 (14·7–26·6) | 17·1 (12·8–24·2) | 18·3 (13·8–25·4) | 0·7 (-0·7–2·2) | 0·7 (-0·8–2·3) | 0·7 (-0·7–2·2) |
| | High LDL cholesterol | 51·5 (43·8–59·9) | 52·9 (44·2–62·8) | 52·4 (44·2–61·5) | 49·1 (41·6–57·5) | 50·2 (42·8–58·4) | 49·7 (42·4–58·0) | -0·1 (-0·7–0·4) | -0·2 (-0·8–0·4) | -0·2 (-0·8–0·4) |
| | High systolic blood pressure | 30·8 (21·9–42·0) | 26·0 (18·3–36·5) | 28·6 (20·2–39·4) | 33·3 (26·8–40·9) | 27·2 (21·3–34·9) | 30·4 (24·4–37·9) | 0·3 (-0·6–1·2) | 0·2 (-0·8–1·2) | 0·2 (-0·7–1·2) |
| | High body-mass index | 18·5 (15·8–21·5) | 18·5 (15·8–21·6) | 18·6 (15·8–21·7) | 27·8 (25·4–30·3) | 26·9 (24·5–29·8) | 27·4 (25·0–30·2) | 1·2 (0·7–1·7) | 1·1 (0·6–1·7) | 1·2 (0·7–1·7) |
| | Kidney dysfunction | 2·5 (1·6–4·3) | 2·6 (1·7–4·5) | 2·6 (1·6–4·4) | 2·5 (1·6–4·3) | 2·6 (1·7–4·4) | 2·5 (1·7–4·3) | -0·1 (-0·1–0·0) | -0·1 (-0·2–0·1) | -0·1 (-0·1–0·1) |
| | Behavioral risks | 25·2 (20·1–30·0) | 21·0 (17·2–23·6) | 23·1 (19·3–26·7) | 23·1 (18·5–27·4) | 19·7 (16·7–21·9) | 21·4 (18·2–24·6) | -0·3 (-0·4–-0·1) | -0·2 (-0·4–0·0) | -0·2 (-0·4–-0·1) |
| | Tobacco | 39·0 (30·0–50·9) | 28·1 (24·0–34·9) | 33·4 (27·0–42·8) | 31·6 (23·8–43·3) | 21·3 (18·1–26·8) | 26·4 (20·9–34·9) | -0·6 (-0·9–-0·4) | -0·8 (-1·1–-0·6) | -0·7 (-1·0–-0·5) |
| | Smoking | 44·0 (23·9–70·5) | 16·1 (8·5–30·2) | 29·6 (15·9–50·1) | 34·2 (17·6–60·0) | 11·7 (5·9–24·1) | 22·9 (11·8–41·5) | -0·8 (-1·1–-0·4) | -1·0 (-1·5–-0·4) | -0·8 (-1·1–-0·4) |
| | Chewing tobacco | 1·3 (0·7–2·2) | 0·4 (0·2–0·9) | 0·8 (0·4–1·5) | 1·4 (0·8–2·5) | 0·5 (0·2–1·1) | 1·0 (0·5–1·8) | 0·3 (-2·1–2·9) | 0·8 (-2·5–4·3) | 0·5 (-2·1–3·4) |
| | Secondhand smoke | 40·2 (36·3–44·0) | 53·8 (49·8–57·5) | 47·0 (43·1–50·7) | 34·7 (30·7–39·0) | 41·5 (38·0–45·4) | 38·0 (34·3–42·1) | -0·4 (-0·9–0·0) | -0·8 (-1·1–-0·4) | -0·6 (-1·0–-0·2) |
| | High alcohol use | 13·5 (10·0–19·1) | 8·6 (5·9–12·0) | 11·0 (8·0–15·6) | 13·0 (9·6–17·4) | 7·7 (5·6–10·6) | 10·4 (7·7–14·0) | -0·1 (-0·4–0·2) | -0·3 (-1·0–0·3) | -0·2 (-0·6–0·2) |
| | Dietary risks | 39·5 (30·2–48·3) | 32·8 (26·5–43·7) | 36·1 (28·3–45·6) | 39·6 (29·8–48·5) | 34·9 (25·6–43·8) | 37·3 (28·0–46·2) | 0·0 (-0·4–0·4) | -0·1 (-0·6–0·4) | 0·0 (-0·5–0·4) |
| | Diet low in fruits | 39·5 (32·3–46·4) | 35·8 (26·1–39·1) | 36·1 (29·2–42·5) | 35·8 (29·4–41·4) | 29·5 (23·4–34·5) | 32·7 (26·4–37·9) | -0·3 (-0·9–0·4) | -0·3 (-1·1–0·5) | -0·3 (-1·0–0·5) |
| | Diet low in vegetables | 19·9 (12·4–25·8) | 20·2 (12·5–25·7) | 20·0 (12·3–25·7) | 17·1 (10·7–22·4) | 16·8 (10·1–20·6) | 17·0 (10·4–21·4) | -0·4 (-1·4–0·5) | -0·5 (-1·4–0·3) | -0·5 (-1·4–0·4) |
| | Diet low in legumes | 50·1 (0·0–66·0) | 55·1 (0·0–71·0) | 52·7 (0·0–68·6) | 44·2 (0·0–60·4) | 49·5 (0·0–65·6) | 46·9 (0·0–63·0) | -0·4 (-1·3–0·6) | -0·3 (-1·2–0·5) | -0·3 (-1·3–0·5) |
| | Diet low in whole grains | 43·3 (33·6–54·1) | 43·6 (34·6–53·9) | 43·4 (34·2–53·8) | 44·7 (35·2–54·7) | 46·1 (36·5–55·7) | 45·4 (35·7–55·2) | 0·1 (-0·8–0·9) | 0·2 (-0·6–1·0) | 0·1 (-0·7–0·9) |
| | Diet low in nuts and seeds | 47·6 (37·8–58·9) | 49·6 (39·9–60·4) | 48·6 (38·9–59·7) | 29·9 (21·3–40·1) | 31·5 (22·5–41·7) | 30·7 (21·9–40·9) | -1·4 (-2·7–-0·3) | -1·4 (-2·6–-0·4) | -1·4 (-2·6–-0·3) |
| | Diet high in red meat | 42·5 (0·0–61·8) | 31·0 (0·0–47·9) | 36·5 (0·0–54·5) | 45·8 (0·0–67·6) | 33·0 (0·0–52·2) | 39·3 (0·0–60·1) | 0·2 (-0·6–1·2) | 0·2 (-0·5–1·1) | 0·2 (-0·5–1·1) |
| | Diet high in processed meat | 23·5 (17·1–30·7) | 19·8 (13·1–27·2) | 21·6 (15·0–28·8) | 26·9 (21·3–33·7) | 23·7 (17·6–30·4) | 25·3 (19·4–31·9) | 0·4 (-0·6–1·5) | 0·6 (-0·6–1·7) | 0·5 (-0·6–1·6) |
| | Diet high in sugar-sweetened beverages | 17·6 (7·4–30·7) | 12·7 (5·4–23·9) | 15·0 (6·4–27·1) | 30·2 (18·5–46·0) | 22·9 (13·4–37·1) | 26·6 (15·9–41·5) | 1·8 (-0·6–4·8) | 1·9 (-0·7–5·1) | 1·9 (-0·6–5·0) |
| | Diet high in fiber | 22·2 (10·4–36·7) | 27·1 (13·8–42·2) | 24·8 (12·3–39·5) | 15·6 (7·8–26·7) | 19·2 (9·1–33·5) | 17·4 (8·4–30·2) | -1·1 (-3·3–1·6) | -1·1 (-3·6–1·5) | -1·1 (-3·5–1·5) |
| | Diet low in seafood omega-3 fatty acids | 31·3 (17·3–44·4) | 37·6 (23·5–50·3) | 34·6 (20·5–47·5) | 17·5 (6·0–32·6) | 23·7 (9·6–39·1) | 20·6 (7·8–35·8) | -1·9 (-4·4–0·5) | -1·5 (-3·5–0·4) | -1·7 (-3·9–0·4) |
| | Diet low in omega-6 polyunsaturated fatty acids | 62·1 (38·0–76·3) | 59·5 (36·4–73·6) | 60·8 (37·2–74·9) | 43·1 (26·0–59·1) | 40·1 (24·1–55·7) | 41·6 (25·0–57·4) | -1·1 (-2·0–-0·3) | -1·2 (-2·1–-0·4) | -1·2 (-2·0–-0·3) |
| | Diet high in trans fatty acids | 48·6 (33·7–61·4) | 45·8 (31·4–58·7) | 47·1 (32·5–60·2) | 19·7 (12·8–27·5) | 18·2 (12·0–25·4) | 18·9 (12·4–26·5) | -2·8 (-4·1–-1·6) | -2·8 (-4·2–-1·7) | -2·8 (-4·1–-1·7) |
| | Diet high in sodium | 49·6 (25·1–73·3) | 35·7 (14·8–60·8) | 42·4 (19·8–67·5) | 53·4 (28·1–76·9) | 38·3 (16·2–64·2) | 45·8 (22·1–70·4) | 0·3 (-0·6–1·4) | 0·3 (-0·9–1·6) | 0·3 (-0·6–1·5) |
| | Low physical activity | 13·4 (10·5–16·2) | 21·8 (18·2–25·3) | 17·8 (14·7–20·8) | 15·5 (12·4–18·8) | 25·0 (20·6–29·3) | 20·3 (16·6–24·0) | 0·4 (0·1–0·8) | 0·4 (0·1–0·7) | 0·4 (0·1–0·6) |
| | Environmental/occupational risks | 34·3 (24·8–42·3) | 31·9 (22·9–40·0) | 33·1 (23·9–41·1) | 23·5 (16·4–31·8) | 21·6 (15·0–30·2) | 22·5 (15·7–31·0) | -1·2 (-1·5–-0·8) | -1·2 (-1·5–-0·8) | -1·2 (-1·5–-0·8) |
| | Air pollution | 37·8 (21·5–61·6) | 36·9 (20·9–60·6) | 37·4 (21·2–61·0) | 23·1 (12·2–43·9) | 22·1 (11·4–42·6) | 22·6 (11·8–43·3) | -1·6 (-2·1–-0·7) | -1·6 (-2·3–-0·7) | -1·6 (-2·2–-0·7) |
| | Particulate matter pollution | 37·0 (20·1–66·2) | 35·9 (19·4–65·6) | 36·5 (19·7–65·9) | 21·5 (11·8–48·3) | 20·4 (11·1–46·8) | 20·9 (11·4–47·6) | -1·7 (-2·2–-1·0) | -1·8 (-2·3–-1·0) | -1·7 (-2·3–-1·0) |
| | Ambient particulate matter pollution | 28·4 (14·1–62·5) | 27·5 (13·5–61·0) | 27·9 (13·6–61·8) | 29·5 (15·8–56·4) | 28·5 (15·1–55·1) | 29·0 (15·5–55·7) | 0·2 (-0·5–0·9) | 0·2 (-0·5–0·9) | 0·2 (-0·5–0·9) |
| | Household air pollution from solid fuels | 15·7 (7·5–28·7) | 16·2 (8·0–29·7) | 15·9 (7·8–29·2) | 0·7 (0·0–2·9) | 1·0 (0·1–3·5) | 0·9 (0·1–3·2) | -11·5 (-18·3–-5·9) | -10·1 (-16·4–-5·3) | -10·7 (-17·2–-5·6) |
| | Non-optimal temperature | 27·6 (27·0–28·7) | 27·4 (26·7–28·5) | 27·5 (26·8–28·6) | 30·0 (28·9–31·3) | 29·4 (28·4–30·7) | 29·7 (28·7–31·0) | 0·3 (0·1–0·4) | 0·2 (0·1–0·3) | 0·2 (0·1–0·3) |
| | High temperature | 25·2 (21·9–27·9) | 24·9 (21·6–27·6) | 25·1 (21·8–27·7) | 33·3 (29·7–36·2) | 32·5 (29·0–35·4) | 32·9 (29·4–35·8) | 0·8 (0·7–1·0) | 0·8 (0·7–0·9) | 0·8 (0·7–0·9) |
| | Low temperature | 24·8 (23·9–26·0) | 24·7 (23·8–25·9) | 24·8 (23·8–26·0) | 24·1 (22·8–25·5) | 23·7 (22·5–25·1) | 23·9 (22·6–25·3) | -0·1 (-0·1–0·0) | -0·1 (-0·2–-0·1) | -0·1 (-0·2–-0·1) |
| | Other environmental risks | 40·7 (15·4–49·9) | 34·1 (14·6–42·5) | 37·4 (15·0–46·1) | 35·8 (13·5–42·9) | 31·8 (13·2–38·7) | 33·8 (13·3–40·9) | -0·4 (-0·7–-0·1) | -0·2 (-0·6–0·1) | -0·3 (-0·6–0·0) |
| | Lead exposure | 46·7 (7·1–57·4) | 37·1 (6·0–47·7) | 41·8 (6·5–52·7) | 39·9 (5·4–47·4) | 34·1 (4·7–40·9) | 37·1 (5·1–44·2) | -0·5 (-0·9–-0·1) | -0·3 (-0·8–0·2) | -0·4 (-0·8–0·0) |
| **Central Europe, Eastern** | | | | | | | | | | |
| | All risk factors | 24·2 (20·3–27·0) | 21·2 (17·9–23·1) | 22·7 (19·0–25·0) | 24·1 (21·3–26·5) | 21·5 (18·7–23·2) | 22·9 (20·2–24·7) | 0·0 (-0·2–0·2) | 0·0 (-0·2–0·2) | 0·0 (-0·2–0·2) |
| | Metabolic risks | 20·0 (17·5–22·9) | 19·8 (17·2–22·4) | 20·0 (17·5–22·7) | 24·6 (22·1–27·2) | 24·3 (22·2–26·9) | 24·6 (22·4–27·1) | 0·6 (0·1–1·2) | 0·6 (0·2–1·2) | 0·6 (0·2–1·1) |
| | High fasting plasma glucose | 10·8 (6·9–17·9) | 9·2 (5·8–15·9) | 9·9 (6·3–16·8) | 13·7 (9·1–21·1) | 13·3 (8·5–22·5) | 13·5 (8·8–21·7) | 0·7 (-1·0–2·5) | 1·1 (-0·7–3·1) | 0·9 (-0·9–2·8) |
| | High LDL cholesterol | 56·7 (47·6–66·7) | 57·9 (47·4–69·8) | 57·7 (47·8–68·8) | 52·9 (43·6–64·6) | 52·9 (42·4–65·4) | 53·0 (43·0–65·1) | -0·2 (-0·9–0·4) | -0·3 (-1·1–0·5) | -0·3 (-1·0–0·4) |
| | High systolic blood pressure | 41·3 (29·7–54·6) | 35·7 (24·9–48·6) | 38·7 (27·5–51·8) | 43·4 (34·1–53·5) | 36·8 (27·7–47·3) | 40·2 (30·9–50·7) | 0·2 (-1·1–1·5) | 0·1 (-1·4–1·6) | 0·1 (-1·2–1·5) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 20·1 (16·8–24·1) | 21·4 (18·0–25·1) | 20·9 (17·6–24·8) | 26·3 (23·2–28·7) | 27·1 (25·0–29·5) | 26·9 (24·2–29·2) | 0·8 (0·2–1·4) | 0·7 (0·2–1·3) | 0·8 (0·2–1·3) |
| | High body-mass index | 3·1 | 2·7 | 2·9 | 3·1 | 2·8 | 2·9 | 0·0 | 0·0 | 0·0 |
| | Kidney dysfunction | (2·0–5·1) 25·8 | (1·7–4·6) 19·4 | (1·8–4·8) 22·4 | (2·0–5·1) 24·3 | (1·8–4·7) 19·1 | (1·9–4·9) 21·6 | (0·0–0·0) -0·2 | (0·0–0·1) 0·0 | (0·0–0·1) -0·1 |
| | Behavioral risks | (20·7–30·8) 39·7 | (16·1–22·0) 26·3 | (18·2–25·9) 32·3 | (19·5–28·6) 33·7 | (16·6–21·4) 22·4 | (18·1–24·7) 27·7 | (-0·4–0·1) -0·5 | (-0·3–0·2) -0·5 | (-0·4–0·1) -0·5 |
| | Tobacco | (29·9–52·1) 45·7 | (22·6–32·4) 12·4 | (26·0–41·4) 27·7 | (25·3–45·4) 37·6 | (18·8–27·9) 13·0 | (22·0–36·0) 24·6 | (-0·8–-0·2) -0·6 | (-0·9–-0·1) 0·1 | (-0·8–-0·2) -0·4 |
| | Smoking | (24·5–74·2) 0·7 | (5·7–25·1) 0·3 | (14·6–47·0) 0·5 | (19·6–64·7) 1·1 | (6·8–26·0) 0·4 | (12·9–44·0) 0·7 | (-1·1–-0·1) 1·1 | (-0·9–1·2) 0·3 | (-1·0–0·2) 0·8 |
| | Chewing tobacco | (0·3–1·5) 38·3 | (0·1–0·7) 52·4 | (0·2–1·1) 45·7 | (0·4–2·1) 34·7 | (0·1–0·8) 40·6 | (0·3–1·4) 37·7 | (-2·0–4·3) -0·3 | (-3·0–3·8) -0·8 | (-2·3–4·2) -0·6 |
| | Secondhand smoke | (34·2–42·5) 14·3 | (47·6–57·0) 8·0 | (41·2–50·1) 11·0 | (30·7–39·0) 14·6 | (36·3–45·3) 8·0 | (33·5–42·2) 11·2 | (-0·8–0·2) 0·1 | (-1·2–-0·3) 0·0 | (-1·1–-0·1) 0·1 |
| | High alcohol use | (10·2–19·8) 42·6 | (4·6–11·6) 36·2 | (7·5–15·1) 39·1 | (11·0–19·4) 39·7 | (5·6–10·9) 33·3 | (8·2–15·2) 36·3 | (-0·4–0·6) -0·2 | (-1·0–1·1) -0·3 | (-0·6–0·8) -0·2 |
| | Dietary risks | (32·2–51·6) 43·5 | (26·5–45·9) 36·7 | (29·4–48·6) 39·8 | (28·6–49·4) 38·2 | (22·4–42·1) 32·5 | (25·6–45·2) 35·2 | (-0·8–0·3) -0·4 | (-0·8–0·3) -0·4 | (-0·8–0·3) -0·4 |
| | Diet low in fruits | (33·5–51·9) 23·8 | (27·7–44·7) 23·1 | (30·4–48·2) 23·4 | (30·0–47·4) 19·3 | (24·0–41·7) 19·6 | (26·8–44·4) 19·5 | (-1·2–0·5) -0·6 | (-1·3–0·6) -0·5 | (-1·2–0·5) -0·6 |
| | Diet low in vegetables | (14·4–30·9) 70·8 | (14·4–29·9) 74·0 | (14·4–30·3) 72·6 | (11·5–28·2) 67·1 | (11·8–27·6) 71·0 | (11·7–27·9) 69·1 | (-2·4–0·5) -0·2 | (-2·2–0·7) -0·1 | (-2·3–0·6) -0·1 |
| | Diet low in legumes | (0·0–88·0) 33·5 | (0·0–90·4) 34·4 | (0·0–89·3) 34·0 | (0·0–85·2) 37·8 | (0·0–88·3) 40·5 | (0·0–86·8) 39·3 | (-0·8–0·4) 0·4 | (-0·6–0·3) 0·5 | (-0·7–0·4) 0·4 |
| | Diet low in whole grains | (24·8–43·8) 74·3 | (25·7–45·2) 74·7 | (25·2–44·3) 74·5 | (27·7–50·1) 63·3 | (29·4–53·9) 63·8 | (28·6–52·1) 63·5 | (-0·8–1·5) -0·5 | (-0·6–1·7) -0·5 | (-0·7–1·6) -0·5 |
| | Diet low in nuts and seeds | (66·2–81·2) 43·3 | (66·6–81·5) 30·4 | (66·5–81·4) 36·2 | (52·5–72·9) 41·3 | (52·9–73·4) 29·3 | (52·7–73·2) 34·9 | (-1·2–0·0) -0·1 | (-1·2–0·0) -0·1 | (-1·2–0·0) -0·1 |
| | Diet high in red meat | (0·0–64·2) 30·6 | (0·0–48·6) 28·4 | (0·0–55·6) 29·4 | (0·0–61·7) 29·6 | (0·0–45·8) 26·2 | (0·0–53·0) 27·8 | (-1·0–1·2) -0·1 | (-1·3–1·4) -0·2 | (-1·1–1·3) -0·2 |
| | Diet high in processed meat | (21·2–40·2) 14·9 | (19·0–38·5) 9·9 | (19·8–39·4) 12·1 | (21·0–38·6) 22·6 | (18·0–35·8) 16·6 | (19·4–37·2) 19·4 | (-1·2–0·8) 1·3 | (-1·4–0·9) 1·6 | (-1·3–0·9) 1·4 |
| | Diet high in sugar-sweetened beverages | (5·9–27·0) 11·4 | (4·0–19·0) 15·4 | (4·8–22·5) 13·5 | (16·1–30·9) 10·4 | (11·0–25·1) 14·2 | (13·4–27·9) 12·4 | (-0·7–3·8) -0·3 | (-0·6–4·2) -0·2 | (-0·6–4·1) -0·3 |
| | Diet low in fiber | (4·2–21·2) 36·9 | (6·3–27·2) 43·0 | (5·4–24·5) 40·2 | (3·4–22·3) 29·6 | (5·2–28·5) 35·6 | (4·4–25·6) 32·7 | (-4·3–3·4) -0·7 | (-3·9–3·1) -0·6 | (-4·0–3·2) -0·6 |
| | Diet low in seafood omega-3 fatty acids | (23·0–50·9) 79·3 | (28·6–56·3) 77·8 | (25·9–53·7) 78·4 | (16·1–43·9) 73·1 | (21·1–50·3) 71·2 | (18·7–47·3) 72·1 | (-2·5–0·9) -0·2 | (-2·2–0·8) -0·3 | (-2·3–0·8) -0·3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (46·3–93·2) 38·4 | (45·5–91·9) 35·5 | (45·8–92·4) 36·8 | (43·9–88·5) 21·7 | (43·2–86·8) 20·5 | (43·5–87·6) 21·1 | (-0·6–0·1) -1·7 | (-0·7–0·1) -1·7 | (-0·7–0·1) -1·7 |
| | Diet high in trans fatty acids | (25·2–51·6) 55·2 | (23·2–48·2) 31·0 | (24·1–49·7) 42·1 | (14·4–30·2) 53·3 | (13·7–28·2) 27·4 | (14·3–29·2) 39·6 | (-3·1–-0·1) -0·1 | (-3·1–0·0) -0·4 | (-3·1–0·0) -0·2 |
| | Diet high in sodium | (22·8–81·6) 7·9 | (6·8–59·4) 15·3 | (14·2–69·9) 12·0 | (18·2–82·9) 8·9 | (4·0–59·4) 17·1 | (10·6–68·8) 13·3 | (-2·2–1·6) 0·3 | (-3·5–1·4) 0·3 | (-2·5–1·5) 0·3 |
| | Low physical activity | (6·2–9·9) 33·3 | (12·6–18·3) 31·3 | (9·9–14·3) 32·2 | (6·7–11·0) 24·7 | (13·6–20·5) 23·0 | (10·9–15·9) 23·9 | (-0·1–0·8) -0·9 | (0·0–0·8) -0·9 | (0·0–0·6) -0·9 |
| | Environmental/occupational risks | (23·5–42·3) 36·3 | (22·0–40·7) 35·8 | (22·7–41·4) 36·0 | (17·1–34·7) 20·3 | (15·9–33·0) 19·8 | (16·4–33·8) 20·0 | (-1·3–-0·5) -1·8 | (-1·4–-0·5) -1·8 | (-1·4–-0·5) -1·8 |
| | Air pollution | (19·8–62·3) 35·6 | (19·7–61·9) 35·0 | (19·7–62·0) 35·3 | (10·4–42·0) 19·8 | (10·1–41·4) 19·1 | (10·2–41·7) 19·4 | (-2·7–-0·8) -1·8 | (-2·8–-0·8) -1·8 | (-2·7–-0·8) -1·8 |
| | Particulate matter pollution | (18·1–71·9) 38·9 | (17·8–71·7) 37·9 | (18·0–71·8) 38·4 | (10·3–50·2) 24·7 | (10·0–49·2) 24·2 | (10·1–49·7) 24·5 | (-2·8–-0·8) -1·4 | (-2·7–-0·8) -1·4 | (-2·8–-0·8) -1·4 |
| | Ambient particulate matter pollution | (17·0–69·9) 7·4 | (16·2–68·7) 8·3 | (16·6–69·2) 7·9 | (12·5–57·9) 2·1 | (12·2–57·4) 2·4 | (12·3–57·6) 2·3 | (-2·6–-0·3) -3·8 | (-2·6–-0·3) -3·7 | (-2·6–-0·3) -3·7 |
| | Household air pollution from solid fuels | (3·0–22·1) 27·8 | (3·4–23·7) 27·8 | (3·1–22·9) 27·8 | (0·7–6·8) 31·1 | (0·8–7·1) 31·1 | (0·8–7·0) 31·1 | (-5·3–-2·7) 0·3 | (-5·1–-2·6) 0·3 | (-5·2–-2·6) 0·3 |
| | Non-optimal temperature | (26·7–29·2) 21·5 | (26·7–29·2) 21·5 | (26·7–29·2) 21·5 | (29·2–34·3) 34·4 | (29·2–34·4) 34·4 | (29·2–34·4) 34·4 | (0·2–0·6) 1·4 | (0·2–0·6) 1·4 | (0·2–0·6) 1·4 |
| | High temperature | (18·2–24·1) 26·0 | (18·2–24·1) 26·0 | (18·2–24·1) 26·0 | (30·1–37·5) 25·4 | (30·0–37·4) 25·5 | (30·0–37·5) 25·4 | (1·2–1·8) -0·1 | (1·2–1·8) -0·1 | (1·2–1·8) -0·1 |
| | Low temperature | (24·9–27·2) 42·8 | (24·9–27·2) 37·8 | (24·9–27·2) 40·2 | (24·0–27·0) 41·9 | (24·0–27·0) 38·3 | (24·0–27·0) 40·0 | (-0·1–0·0) -0·1 | (-0·1–0·0) 0·0 | (-0·1–0·0) 0·0 |
| | Other environmental risks | (19·3–51·9) 44·1 | (18·8–46·6) 37·0 | (19·1–49·1) 40·4 | (18·7–50·4) 42·8 | (18·3–46·9) 37·6 | (18·5–48·5) 40·1 | (-0·3–0·2) -0·1 | (-0·2–0·3) 0·0 | (-0·2–0·2) 0·0 |
| | Lead exposure | (5·9–53·6) | (5·1–45·5) | (5·5–49·2) | (5·7–50·9) | (5·0–45·1) | (5·3–47·8) | (-0·4–0·2) | (-0·3–0·4) | (-0·3–0·3) |
| **Central Asia** | | | | | | | | | | |
| | | 22·0 (18·2–24·3) | 19·9 (17·2–21·7) | 21·0 (17·7–23·0) | 22·7 (20·1–24·8) | 20·8 (18·2–22·7) | 21·8 (19·2–23·6) | 0·1 (-0·1–0·3) | 0·1 (-0·1–0·4) | 0·1 (-0·1–0·3) |
| | All risk factors | 19·9 | 20·5 | 20·3 | 23·4 | 25·0 | 24·3 | 0·5 | 0·6 | 0·5 |
| | Metabolic risks | (17·2–23·0) 11·2 | (17·3–23·9) 10·2 | (17·4–23·5) 10·7 | (20·6–26·1) 13·4 | (22·2–27·7) 13·7 | (21·5–27·0) 13·6 | (-0·1–1·1) 0·5 | (0·1–1·3) 0·9 | (0·0–1·1) 0·7 |
| | High fasting plasma glucose | (8·0–15·8) 38·2 | (7·1–15·0) 42·0 | (7·6–15·4) 40·4 | (10·6–17·0) 39·3 | (10·3–18·6) 43·2 | (10·5–17·8) 41·5 | (-0·6–1·6) 0·1 | (-0·4–2·2) 0·1 | (-0·5–1·9) 0·1 |
| | High LDL cholesterol | (29·1–48·3) 41·2 | (30·8–55·3) 35·2 | (30·1–52·0) 38·3 | (30·6–49·8) 44·1 | (32·3–56·2) 37·4 | (31·5–53·1) 40·9 | (-0·8–0·9) 0·2 | (-1·0–1·1) 0·2 | (-0·9–1·0) 0·2 |
| | High systolic blood pressure | (21·2–65·6) 20·0 | (17·0–60·2) 22·1 | (19·1–63·1) 21·2 | (36·3–51·4) 24·5 | (29·9–45·7) 27·9 | (33·2–48·2) 26·4 | (-1·3–2·3) 0·6 | (-1·6–2·4) 0·7 | (-1·5–2·4) 0·7 |
| | High body-mass index | (16·5–24·6) 3·4 | (17·9–27·3) 4·5 | (17·2–26·0) 4·0 | (20·9–28·4) 3·7 | (24·1–31·8) 4·7 | (22·6–30·3) 4·2 | (-0·1–1·3) 0·2 | (0·0–1·4) 0·1 | (-0·1–1·4) 0·1 |
| | Kidney dysfunction | (2·1–5·6) 19·9 | (2·4–6·8) 15·1 | (2·3–6·3) 17·4 | (2·3–5·9) 18·0 | (2·5–7·0) 14·6 | (2·4–6·5) 16·2 | (0·1–0·3) -0·3 | (0·1–0·2) -0·1 | (0·1–0·2) -0·2 |
| | Behavioral risks | (14·9–24·4) 31·9 | (12·1–17·5) 17·1 | (13·2–20·3) 24·0 | (14·1–21·7) 27·7 | (11·9–16·5) 15·6 | (13·5–18·8) 21·4 | (-0·6–0·0) -0·4 | (-0·4–0·2) -0·3 | (-0·5–0·0) -0·3 |
| | Tobacco | (23·6–44·8) 36·8 | (15·2–19·6) 2·6 | (19·2–31·1) 18·6 | (20·5–39·1) 29·3 | (13·9–17·8) 2·4 | (17·1–27·4) 15·3 | (-0·9–0·1) -0·7 | (-0·7–0·2) -0·3 | (-0·8–0·1) -0·6 |
| | Smoking | (19·5–64·9) 2·0 | (0·9–6·8) 0·4 | (9·7–34·2) 1·1 | (14·8–53·6) 2·5 | (0·9–5·6) 0·4 | (7·6–29·0) 1·4 | (-1·5–0·0) 0·7 | (-2·8–1·8) 0·1 | (-1·5–0·2) 0·7 |
| | Chewing tobacco | (0·9–3·8) 32·1 | (0·1–0·8) 44·7 | (0·5–2·2) 38·7 | (1·1–4·8) 30·9 | (0·1–0·8) 40·8 | (0·6–2·8) 36·0 | (-2·3–3·7) -0·1 | (-3·3–3·6) -0·3 | (-2·4–3·8) -0·2 |
| | Secondhand smoke | (28·5–35·9) 7·9 | (40·5–48·9) 3·6 | (34·7–42·7) 5·6 | (26·9–35·2) 6·9 | (36·4–45·6) 2·3 | (31·8–40·6) 4·5 | (-0·7–0·5) -0·4 | (-0·7–0·2) -1·4 | (-0·7–0·3) -0·6 |
| | High alcohol use | (5·3–10·9) 41·0 | (2·1–5·2) 34·7 | (3·7–7·7) 37·6 | (5·1–9·0) 33·4 | (1·5–3·2) 27·4 | (3·3–6·0) 30·3 | (-1·0–0·2) -0·6 | (-2·6–-0·2) -0·7 | (-1·4–0·1) -0·7 |
| | Dietary risks | (29·4–50·3) | (23·7–44·4) | (26·0–46·8) | (21·5–43·9) | (16·7–36·9) | (18·9–40·0) | (-1·5–0·0) | (-1·6–0·0) | (-1·5–-0·1) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 42·8 | 36·5 | 39·4 | 33·4 | 27·9 | 30·6 | -0·7 | -0·8 | -0·8 |
| | Diet low in fruits | (33·2–51·1) 23·4 | (27·4–44·5) 23·1 | (30·1–47·6) 23·3 | (24·4–40·8) 10·5 | (19·2–36·0) 11·1 | (21·8–38·2) 10·8 | (-1·6–0·1) -2·4 | (-2·0–0·2) -2·2 | (-1·8–0·2) -2·3 |
| | Diet low in vegetables | (14·5–31·0) 87·0 | (14·5–30·2) 87·0 | (14·2–30·6) 87·0 | (3·2–20·9) 77·2 | (3·6–21·3) 78·8 | (3·4–21·1) 78·0 | (-5·8–-0·3) -0·4 | (-5·5–-0·2) -0·3 | (-5·6–-0·2) -0·3 |
| | Diet low in legumes | (0·0–99·1) 32·8 | (0·0–99·0) 35·1 | (0·0–99·1) 34·1 | (0·0–92·6) 35·2 | (0·0–93·8) 39·7 | (0·0–93·2) 37·6 | (-0·7–0·0) 0·2 | (-0·6–0·0) 0·4 | (-0·6–0·0) 0·3 |
| | Diet low in whole grains | (24·3–42·5) 71·8 | (26·3–45·2) 71·8 | (25·4–44·0) 71·8 | (25·4–46·2) 62·9 | (28·7–51·7) 62·9 | (27·1–49·0) 62·9 | (-0·9–1·5) -0·4 | (-0·7–1·5) -0·4 | (-0·8–1·5) -0·4 |
| | Diet low in nuts and seeds | (62·2–79·3) 36·5 | (62·1–79·3) 26·6 | (62·1–79·3) 31·2 | (51·6–72·9) 42·1 | (51·6–72·9) 31·6 | (51·6–72·9) 36·6 | (-1·1–0·1) 0·4 | (-1·1–0·1) 0·5 | (-1·1–0·1) 0·5 |
| | Diet high in red meat | (0·0–56·1) 14·9 | (0·0–42·8) 12·8 | (0·0–48·7) 13·7 | (0·0–63·3) 18·1 | (0·0–49·9) 16·4 | (0·0–56·2) 17·2 | (-0·7–2·1) 0·6 | (-0·8–3·5) 0·8 | (-0·6–2·6) 0·7 |
| | Diet high in processed meat | (8·8–24·7) 9·5 | (7·7–20·9) 7·4 | (8·2–22·7) 8·4 | (10·3–28·4) 13·9 | (9·1–26·0) 11·7 | (9·7–27·1) 12·7 | (-1·5–2·6) 1·2 | (-1·3–2·8) 1·4 | (-1·4–2·7) 1·3 |
| | Diet high in sugar-sweetened beverages | (2·9–21·0) 21·3 | (2·4–16·5) 26·8 | (2·6–18·6) 24·2 | (4·5–32·0) 8·6 | (3·8–28·5) 12·0 | (4·1–30·2) 10·3 | (-2·6–5·6) -2·7 | (-2·5–5·7) -2·4 | (-2·5–5·7) -2·6 |
| | Diet low in fiber | (8·7–37·4) 67·5 | (11·7–44·8) 72·5 | (10·3–41·4) 70·1 | (2·6–18·9) 60·5 | (4·1–24·6) 66·3 | (3·4–21·9) 63·5 | (-6·7–0·8) -0·3 | (-6·1–0·8) -0·3 | (-6·3–0·8) -0·3 |
| | Diet low in seafood omega-3 fatty acids | (55·8–75·3) 81·0 | (63·2–79·1) 79·6 | (59·7–77·3) 80·2 | (46·6–70·0) 75·0 | (54·0–74·6) 72·7 | (50·5–72·5) 73·8 | (-1·2–0·3) -0·2 | (-0·9–0·3) -0·3 | (-1·0–0·3) -0·3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·3–94·7) 39·0 | (47·5–93·5) 36·8 | (47·9–94·0) 37·8 | (45·8–89·6) 30·8 | (44·5–87·7) 28·8 | (45·0–88·6) 29·7 | (-0·6–0·0) -0·7 | (-0·6–0·0) -0·7 | (-0·6–0·0) -0·7 |
| | Diet high in trans fatty acids | (26·7–50·1) 56·9 | (25·1–48·0) 30·0 | (25·8–49·1) 42·6 | (21·0–41·7) 46·1 | (19·7–38·7) 21·1 | (20·6–40·2) 33·0 | (-2·0–0·3) -0·6 | (-2·0–0·3) -1·1 | (-2·0–0·3) -0·8 |
| | Diet high in sodium | (16·3–88·1) 5·8 | (4·0–60·8) 11·8 | (9·7–72·2) 9·1 | (8·3–82·4) 5·8 | (0·6–55·6) 12·8 | (4·0–66·9) 9·5 | (-4·4–1·3) 0·0 | (-7·7–0·7) 0·2 | (-4·9–1·2) 0·1 |
| | Low physical activity | (4·4–7·6) 37·5 | (9·5–14·2) 35·5 | (7·3–10·9) 36·4 | (4·4–7·3) 32·3 | (10·1–15·6) 30·4 | (7·6–11·6) 31·3 | (-0·6–0·5) -0·5 | (-0·3–0·7) -0·5 | (-0·3–0·5) -0·5 |
| | Environmental/occupational risks | (27·6–46·8) 36·9 | (25·7–44·9) 36·8 | (26·5–45·8) 36·8 | (22·5–41·5) 31·6 | (21·2–39·9) 31·0 | (21·8–40·7) 31·3 | (-0·9–-0·1) -0·5 | (-0·9–-0·1) -0·5 | (-0·9–-0·1) -0·5 |
| | Air pollution | (19·5–62·5) 37·4 | (19·8–63·2) 37·2 | (19·6–62·9) 37·3 | (18·2–57·7) 32·1 | (17·7–57·3) 31·3 | (17·9–57·5) 31·7 | (-1·4–0·5) -0·5 | (-1·4–0·4) -0·5 | (-1·4–0·4) -0·5 |
| | Particulate matter pollution | (18·1–73·8) 28·2 | (18·9–73·3) 25·8 | (18·5–73·7) 26·9 | (17·8–66·3) 36·6 | (17·3–66·2) 35·3 | (17·5–66·2) 35·9 | (-1·5–0·6) 0·8 | (-1·5–0·4) 1·0 | (-1·5–0·5) 0·9 |
| | Ambient particulate matter pollution | (9·6–64·7) 16·1 | (8·4–61·9) 18·1 | (9·1–63·4) 17·2 | (19·0–68·6) 5·9 | (18·5–67·1) 6·8 | (18·7–67·8) 6·4 | (-0·9–3·1) -3·0 | (-0·7–3·4) -3·0 | (-0·8–3·3) -3·0 |
| | Household air pollution from solid fuels | (6·9–46·2) 33·6 | (8·4–49·3) 33·6 | (7·6–47·8) 33·6 | (2·2–18·2) 37·0 | (2·8–19·1) 36·9 | (2·6–18·6) 37·0 | (-4·4–-1·8) 0·3 | (-4·2–-1·8) 0·3 | (-4·3–-1·8) 0·3 |
| | Non-optimal temperature | (31·8–36·3) 34·3 | (31·8–36·3) 34·3 | (31·8–36·3) 34·3 | (34·2–41·4) 53·0 | (34·1–41·4) 52·9 | (34·1–41·4) 52·9 | (0·1–0·5) 1·3 | (0·1–0·5) 1·3 | (0·1–0·5) 1·3 |
| | High temperature | (30·1–37·6) 28·8 | (30·0–37·6) 28·7 | (30·0–37·6) 28·7 | (46·6–57·9) 26·2 | (46·5–57·8) 26·2 | (46·6–57·9) 26·2 | (1·2–1·5) -0·3 | (1·2–1·5) -0·3 | (1·2–1·5) -0·3 |
| | Low temperature | (27·2–30·3) 44·2 | (27·2–30·3) 39·5 | (27·2–30·3) 41·7 | (24·8–27·9) 44·2 | (24·8–27·9) 41·1 | (24·8–27·9) 42·6 | (-0·4–-0·2) 0·0 | (-0·4–-0·2) 0·1 | (-0·4–-0·2) 0·1 |
| | Other environmental risks | (18·8–59·0) 45·5 | (18·2–52·9) 38·7 | (18·5–55·5) 41·9 | (17·3–57·4) 46·0 | (17·1–54·1) 41·5 | (17·2–55·8) 43·7 | (-0·3–0·3) 0·0 | (-0·3–0·5) 0·2 | (-0·3–0·4) 0·1 |
| | Lead exposure | (6·3–59·3) | (5·5–51·0) | (5·9–54·9) | (6·3–59·2) | (5·8–53·7) | (6·0–56·6) | (-0·3–0·5) | (-0·2–0·8) | (-0·3–0·6) |
| **Central Europe** | | | | | | | | | | |
| | | 24·8 | 21·7 | 23·3 | 24·7 | 22·4 | 23·6 | 0·0 | 0·1 | 0·0 |
| | All risk factors | (20·6–28·0) 23·4 | (18·3–23·7) 17·5 | (19·4–25·6) 20·5 | (21·3–27·4) 29·4 | (19·3–24·2) 22·8 | (20·5–25·6) 26·2 | (-0·2–0·2) 0·7 | (-0·1–0·3) 0·8 | (-0·1–0·2) 0·7 |
| | Metabolic risks | (19·9–27·6) 15·8 | (14·8–20·9) 10·7 | (17·3–24·2) 13·1 | (26·7–32·9) 20·6 | (20·1–26·0) 16·0 | (23·6–29·5) 18·3 | (0·2–1·3) 0·8 | (0·1–1·4) 1·2 | (0·2–1·4) 1·0 |
| | High fasting plasma glucose | (8·9–29·6) 59·6 | (6·2–20·4) 59·3 | (7·6–24·9) 59·7 | (12·0–35·6) 56·6 | (9·4–29·4) 54·3 | (10·7–32·5) 55·6 | (-1·4–3·2) -0·2 | (-1·0–3·6) -0·3 | (-1·2–3·3) -0·2 |
| | High LDL cholesterol | (50·8–69·9) 42·1 | (48·9–71·7) 36·1 | (50·0–71·0) 39·3 | (47·3–67·3) 45·4 | (46·2–64·6) 34·2 | (46·7–66·2) 40·0 | (-0·8–0·4) 0·2 | (-0·9–0·3) -0·2 | (-0·8–0·4) 0·1 |
| | High systolic blood pressure | (30·7–54·7) 23·7 | (25·9–47·6) 17·6 | (28·4–51·4) 20·7 | (38·9–53·2) 31·1 | (27·6–41·9) 24·2 | (33·4–47·6) 27·7 | (-0·5–1·2) 0·8 | (-0·9–0·8) 1·0 | (-0·7–1·0) 0·9 |
| | High body-mass index | (19·2–29·0) 2·3 | (14·1–21·9) 1·9 | (16·6–25·5) 2·1 | (28·1–33·6) 2·2 | (21·3–27·8) 1·9 | (25·0–30·7) 2·0 | (0·1–1·4) -0·1 | (0·2–1·7) 0·0 | (0·2–1·5) -0·1 |
| | Kidney dysfunction | (1·4–3·9) 27·3 | (1·2–3·4) 21·8 | (1·3–3·6) 24·5 | (1·4–3·8) 25·9 | (1·2–3·3) 21·4 | (1·3–3·5) 23·7 | (-0·2–-0·1) -0·2 | (0·0–0·0) -0·1 | (-0·1–0·0) -0·1 |
| | Behavioral risks | (21·8–32·6) 42·7 | (17·9–25·5) 33·9 | (20·2–28·8) 38·0 | (21·2–30·6) 34·1 | (18·1–24·3) 27·4 | (20·0–27·2) 30·7 | (-0·4–0·1) -0·7 | (-0·3–0·2) -0·6 | (-0·3–0·1) -0·6 |
| | Tobacco | (32·4–55·1) 48·5 | (27·5–44·8) 26·4 | (30·0–49·6) 36·9 | (25·9–46·1) 35·0 | (21·9–36·8) 22·2 | (24·0–40·8) 28·4 | (-1·0–-0·4) -1·0 | (-1·0–-0·3) -0·5 | (-1·0–-0·3) -0·8 |
| | Smoking | (26·6–77·4) 0·5 | (12·8–50·1) 0·3 | (19·8–62·9) 0·4 | (17·8–60·5) 0·7 | (11·4–42·0) 0·4 | (14·8–52·5) 0·5 | (-1·5–-0·5) 0·9 | (-1·5–0·5) 0·8 | (-1·4–-0·2) 0·9 |
| | Chewing tobacco | (0·2–1·0) 45·4 | (0·1–0·6) 52·5 | (0·2–0·8) 49·0 | (0·3–1·3) 40·5 | (0·1–0·8) 40·0 | (0·2–1·1) 40·2 | (-2·2–4·3) -0·3 | (-2·5–4·3) -0·8 | (-2·3–4·3) -0·6 |
| | Secondhand smoke | (41·1–49·5) 15·4 | (48·0–56·6) 8·3 | (44·7–53·1) 11·8 | (36·2–45·1) 17·3 | (35·6–44·5) 9·3 | (36·0–44·7) 13·3 | (-0·8–0·1) 0·3 | (-1·3–-0·4) 0·4 | (-1·0–-0·1) 0·4 |
| | High alcohol use | (11·2–21·1) 46·4 | (5·2–11·4) 39·1 | (8·4–16·0) 42·6 | (12·9–22·4) 46·2 | (6·4–12·5) 36·8 | (9·8–17·6) 41·5 | (-0·1–0·8) 0·0 | (-0·5–1·2) -0·2 | (-0·1–0·9) -0·1 |
| | Dietary risks | (35·9–55·7) 42·7 | (27·7–47·8) 34·0 | (32·2–51·7) 38·2 | (34·8–56·4) 39·2 | (24·9–46·7) 31·1 | (30·3–51·6) 35·1 | (-0·5–0·5) -0·3 | (-0·8–0·4) -0·3 | (-0·6–0·4) -0·3 |
| | Diet low in fruits | (32·3–52·6) 23·8 | (25·0–42·3) 22·0 | (28·4–47·3) 22·9 | (29·9–49·8) 21·0 | (22·6–41·4) 20·0 | (26·2–45·5) 20·5 | (-1·2–0·7) -0·4 | (-1·3–0·8) -0·3 | (-1·3–0·8) -0·3 |
| | Diet low in vegetables | (13·8–31·7) 63·0 | (13·3–29·1) 66·8 | (13·5–30·3) 65·0 | (12·0–31·0) 59·7 | (11·9–28·9) 64·2 | (12·0–30·1) 61·9 | (-2·2–1·0) -0·2 | (-2·0–1·0) -0·1 | (-2·1–1·0) -0·1 |
| | Diet low in legumes | (0·0–81·5) 38·5 | (0·0–84·7) 36·2 | (0·0–83·1) 37·3 | (0·0–79·0) 44·2 | (0·0–82·9) 43·3 | (0·0–81·0) 43·8 | (-1·0–0·6) 0·4 | (-0·8–0·5) 0·5 | (-0·9–0·6) 0·5 |
| | Diet low in whole grains | (27·6–51·3) 71·8 | (26·5–48·7) 72·1 | (27·1–50·1) 72·0 | (31·8–57·8) 56·9 | (31·1–58·2) 57·4 | (31·5–58·3) 57·1 | (-0·8–1·7) -0·7 | (-0·6–1·7) -0·7 | (-0·7–1·7) -0·7 |
| | Diet low in nuts and seeds | (64·8–79·2) 46·1 | (65·3–79·3) 30·3 | (65·0–79·3) 37·8 | (45·3–67·5) 47·3 | (45·8–68·2) 31·8 | (45·5–67·9) 39·4 | (-1·5–-0·1) 0·1 | (-1·4–-0·1) 0·1 | (-1·4–-0·1) 0·1 |
| | Diet high in red meat | (0·0–67·5) 18·5 | (0·0–47·7) 14·0 | (0·0–57·4) 16·1 | (0·0–70·4) 31·2 | (0·0–50·9) 24·9 | (0·0–59·8) 28·0 | (-1·1–1·3) 1·6 | (-1·3–2·1) 1·8 | (-1·2–1·5) 1·7 |
| | Diet high in processed meat | (11·0–29·1) 28·0 | (8·5–22·2) 18·4 | (9·7–25·4) 23·0 | (20·9–42·2) 43·9 | (16·7–35·2) 31·3 | (18·7–38·2) 37·5 | (0·2–2·9) 1·4 | (0·4–3·1) 1·6 | (0·3–3·0) 1·5 |
| | Diet high in sugar-sweetened beverages | (10·6–50·4) 9·5 | (7·1–35·0) 12·9 | (8·8–42·2) 11·3 | (30·2–60·0) 12·2 | (20·5–47·8) 16·1 | (25·2–53·4) 14·2 | (-0·7–3·9) 0·8 | (-0·7–4·5) 0·7 | (-0·6–4·2) 0·7 |
| | Diet low in fiber | (4·3–17·3) | (6·5–22·2) | (5·5–19·8) | (4·6–22·7) | (7·0–28·4) | (5·8–25·7) | (-2·6–3·8) | (-2·3–3·2) | (-2·5–3·4) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 48·7 | 56·0 | 52·6 | 33·1 | 40·9 | 37·1 | -1·2 | -1·0 | -1·1 |
| | Diet low in seafood omega-3 fatty acids | (34·4–61·6) 77·8 | (42·2–66·5) 76·4 | (38·4–64·2) 77·0 | (15·2–49·7) 70·2 | (23·0–56·4) 68·1 | (19·2–53·3) 69·1 | (-3·1–0·3) -0·3 | (-2·5–0·3) -0·3 | (-2·8–0·3) -0·3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (45·1–91·9) 43·9 | (44·5–90·5) 40·8 | (44·8–91·2) 42·3 | (42·0–86·0) 10·9 | (41·2–84·1) 10·0 | (41·6–85·0) 10·4 | (-0·7–0·0) -4·2 | (-0·8–0·0) -4·3 | (-0·8–0·0) -4·3 |
| | Diet high in trans fatty acids | (28·4–58·8) 73·5 | (26·4–55·8) 49·1 | (27·4–57·1) 61·2 | (7·0–15·4) 72·6 | (6·6–14·0) 39·4 | (6·8–14·7) 56·0 | (-5·6–-2·6) 0·0 | (-5·7–-2·5) -0·7 | (-5·7–-2·6) -0·3 |
| | Diet high in sodium | (48·0–94·5) 10·7 | (19·2–72·0) 20·8 | (34·4–82·2) 16·0 | (41·4–94·7) 12·7 | (10·2–69·0) 23·7 | (24·7–81·2) 18·4 | (-1·3–0·8) 0·5 | (-3·5–0·5) 0·4 | (-2·0–0·7) 0·4 |
| | Low physical activity | (8·2–13·1) 33·2 | (17·4–24·4) 31·2 | (13·3–18·9) 32·2 | (9·6–15·9) 22·7 | (19·7–28·1) 21·0 | (15·1–22·0) 21·8 | (0·0–1·1) -1·2 | (0·0–0·8) -1·2 | (0·1–0·7) -1·2 |
| | Environmental/occupational risks | (23·6–42·2) 39·1 | (21·8–40·5) 39·1 | (22·7–41·4) 39·1 | (14·7–33·2) 19·1 | (13·5–31·8) 18·7 | (14·1–32·5) 18·9 | (-1·7–-0·5) -2·2 | (-1·8–-0·6) -2·2 | (-1·7–-0·6) -2·2 |
| | Air pollution | (21·0–69·5) 38·5 | (21·3–69·6) 38·3 | (21·2–69·6) 38·4 | (10·4–42·6) 18·9 | (10·1–41·9) 18·5 | (10·2–42·2) 18·7 | (-3·4–-0·9) -2·2 | (-3·4–-0·9) -2·2 | (-3·4–-0·9) -2·2 |
| | Particulate matter pollution | (19·4–75·3) 37·0 | (20·1–75·6) 35·1 | (19·7–75·5) 36·0 | (10·4–52·1) 25·0 | (10·1–51·0) 24·9 | (10·3–51·6) 25·0 | (-3·3–-0·8) -1·2 | (-3·3–-0·9) -1·0 | (-3·3–-0·9) -1·1 |
| | Ambient particulate matter pollution | (14·2–71·9) 11·1 | (13·4–70·1) 12·9 | (13·8–71·1) 12·0 | (12·9–61·3) 1·0 | (12·9–60·3) 1·3 | (12·9–60·6) 1·2 | (-2·8–0·2) -7·2 | (-2·6–0·4) -7·0 | (-2·7–0·3) -7·1 |
| | Household air pollution from solid fuels | (4·4–32·4) 24·3 | (5·3–36·1) 24·3 | (4·9–34·4) 24·3 | (0·1–3·4) 25·7 | (0·1–4·2) 25·7 | (0·1–3·6) 25·7 | (-12·5–-4·4) 0·2 | (-11·8–-4·2) 0·2 | (-12·1–-4·3) 0·2 |
| | Non-optimal temperature | (23·0–25·4) 16·7 | (23·0–25·4) 16·7 | (23·0–25·4) 16·7 | (24·0–27·6) 24·5 | (24·0–27·6) 24·4 | (24·0–27·6) 24·5 | (0·0–0·3) 1·2 | (0·0–0·3) 1·2 | (0·0–0·3) 1·2 |
| | High temperature | (12·4–20·9) 23·9 | (12·4–20·9) 23·9 | (12·4–20·9) 23·9 | (20·6–27·4) 23·7 | (20·6–27·3) 23·7 | (20·6–27·3) 23·7 | (0·6–2·0) 0·0 | (0·6–1·9) 0·0 | (0·6–2·0) 0·0 |
| | Low temperature | (22·6–25·2) 41·0 | (22·6–25·2) 35·5 | (22·6–25·2) 38·2 | (21·9–25·6) 37·2 | (21·9–25·6) 33·4 | (21·9–25·6) 35·3 | (-0·1–0·1) -0·3 | (-0·1–0·1) -0·2 | (-0·1–0·1) -0·2 |
| | Other environmental risks | (17·6–50·8) 43·3 | (17·0–44·6) 35·4 | (17·3–47·6) 39·2 | (16·7–46·2) 37·6 | (16·3–42·0) 32·2 | (16·5–44·0) 34·9 | (-0·5–-0·1) -0·4 | (-0·4–0·0) -0·3 | (-0·4–-0·1) -0·4 |
| | Lead exposure | (5·7–53·8) | (4·8–43·7) | (5·2–48·6) | (4·7–45·7) | (4·0–39·2) | (4·3–42·4) | (-0·7–-0·2) | (-0·6–0·0) | (-0·6–-0·1) |
| **Eastern Europe** | | | | | | | | | | |
| | | 24·6 | 21·5 | 23·0 | 24·6 | 21·6 | 23·1 | 0·0 | 0·0 | 0·0 |
| | All risk factors | (20·8–27·5) 17·9 | (18·1–23·5) 20·8 | (19·4–25·4) 19·6 | (21·7–27·4) 22·7 | (18·9–23·7) 24·9 | (20·5–25·2) 24·1 | (-0·2–0·3) 0·7 | (-0·2–0·3) 0·5 | (-0·2–0·2) 0·6 |
| | Metabolic risks | (15·9–20·2) 7·8 | (18·6–23·1) 8·3 | (17·5–21·9) 8·1 | (20·0–25·6) 9·8 | (22·5–27·7) 11·9 | (21·3–26·7) 11·0 | (0·2–1·3) 0·7 | (0·1–1·0) 1·1 | (0·2–1·1) 0·9 |
| | High fasting plasma glucose | (5·2–12·1) 59·1 | (5·2–14·3) 60·3 | (5·3–13·3) 60·3 | (6·7–15·4) 56·4 | (7·1–20·8) 55·9 | (7·0–18·1) 56·3 | (-1·0–2·3) -0·1 | (-0·8–3·3) -0·2 | (-0·9–2·8) -0·2 |
| | High LDL cholesterol | (49·6–69·1) 40·4 | (49·5–71·9) 35·5 | (50·1–71·3) 38·3 | (46·1–68·7) 41·9 | (44·2–69·3) 38·0 | (45·4–69·4) 40·0 | (-0·8–0·5) 0·1 | (-1·1–0·6) 0·2 | (-1·0–0·5) 0·1 |
| | High systolic blood pressure | (30·3–51·8) 18·1 | (26·1–47·2) 23·1 | (28·5–49·9) 21·0 | (27·6–58·2) 24·5 | (24·1–55·3) 28·4 | (26·1–57·0) 26·8 | (-1·6–1·7) 0·9 | (-1·7–2·0) 0·6 | (-1·7–1·8) 0·7 |
| | High body-mass index | (15·4–21·1) 3·6 | (19·9–26·4) 2·8 | (18·1–24·2) 3·1 | (21·0–28·0) 3·6 | (25·5–31·3) 2·7 | (23·4–29·6) 3·1 | (0·2–1·6) 0·0 | (0·1–1·1) -0·1 | (0·2–1·3) -0·1 |
| | Kidney dysfunction | (2·3–5·8) 26·9 | (1·8–4·8) 19·4 | (2·0–5·2) 22·8 | (2·3–5·8) 26·7 | (1·8–4·6) 20·1 | (2·0–5·1) 23·3 | (-0·1–0·0) 0·0 | (-0·2–-0·1) 0·1 | (-0·1–0·0) 0·1 |
| | Behavioral risks | (21·8–32·2) 40·7 | (16·3–22·4) 25·4 | (18·6–26·4) 32·2 | (21·2–31·7) 37·1 | (17·4–22·6) 23·6 | (19·4–26·6) 29·8 | (-0·3–0·3) -0·3 | (-0·2–0·4) -0·2 | (-0·2–0·3) -0·2 |
| | Tobacco | (30·8–53·2) 45·9 | (22·6–29·9) 7·1 | (26·5–40·0) 24·5 | (27·5–49·2) 42·3 | (20·0–29·5) 12·5 | (23·9–38·2) 26·2 | (-0·6–0·1) -0·2 | (-0·6–0·1) 1·7 | (-0·6–0·1) 0·2 |
| | Smoking | (24·6–73·9) 0·5 | (2·9–16·1) 0·4 | (12·8–41·1) 0·4 | (22·2–70·4) 0·5 | (6·3–25·3) 0·4 | (13·8–45·3) 0·4 | (-0·8–0·3) -0·2 | (0·3–3·1) 0·1 | (-0·5–0·8) 0·0 |
| | Chewing tobacco | (0·2–1·1) 37·0 | (0·1–0·8) 55·6 | (0·2–0·9) 46·9 | (0·2–1·0) 34·8 | (0·1–0·8) 42·5 | (0·2–0·9) 38·8 | (-3·3–3·2) -0·2 | (-3·2–3·7) -0·8 | (-3·3–3·4) -0·6 |
| | Secondhand smoke | (32·8–41·2) 15·6 | (50·6–60·6) 9·1 | (42·2–51·5) 12·1 | (30·8–39·1) 16·9 | (38·0–47·2) 10·0 | (34·6–43·4) 13·3 | (-0·7–0·3) 0·2 | (-1·2–-0·4) 0·3 | (-1·0–-0·1) 0·3 |
| | High alcohol use | (10·5–21·9) 40·6 | (5·0–13·7) 35·2 | (7·6–17·6) 37·5 | (12·5–22·7) 38·1 | (7·0–13·8) 33·4 | (9·7–18·2) 35·5 | (-0·3–0·9) -0·2 | (-0·8–1·5) -0·2 | (-0·5–1·1) -0·2 |
| | Dietary risks | (30·5–51·0) 44·0 | (26·6–45·1) 38·1 | (28·2–47·4) 40·8 | (26·9–47·6) 39·3 | (22·9–42·0) 34·7 | (24·7–44·2) 36·9 | (-0·8–0·3) -0·3 | (-0·7–0·4) -0·3 | (-0·8–0·3) -0·3 |
| | Diet low in fruits | (33·8–52·9) 23·8 | (28·5–46·2) 23·7 | (30·9–49·2) 23·8 | (31·3–48·2) 21·8 | (26·1–43·9) 22·5 | (28·5–45·9) 22·2 | (-1·1–0·5) -0·3 | (-1·2–0·7) -0·2 | (-1·2–0·6) -0·2 |
| | Diet low in vegetables | (15·2–31·2) 71·6 | (14·9–30·5) 74·9 | (15·2–31·0) 73·4 | (13·6–29·4) 67·3 | (13·6–31·0) 71·4 | (13·6–30·2) 69·5 | (-1·8–0·8) -0·2 | (-1·7–0·9) -0·1 | (-1·7–0·8) -0·2 |
| | Diet low in legumes | (0·0–89·2) 30·6 | (0·0–91·5) 33·3 | (0·0–90·5) 32·1 | (0·0–85·9) 34·7 | (0·0–89·0) 39·2 | (0·0–87·6) 37·2 | (-0·9–0·4) 0·4 | (-0·7–0·3) 0·5 | (-0·8–0·4) 0·4 |
| | Diet low in whole grains | (22·5–39·9) 76·3 | (24·6–43·7) 76·5 | (23·7–41·9) 76·5 | (24·7–46·2) 67·1 | (27·7–53·1) 67·3 | (26·2–49·4) 67·2 | (-0·8–1·6) -0·4 | (-0·7–1·7) -0·4 | (-0·8–1·6) -0·4 |
| | Diet low in nuts and seeds | (68·1–82·8) 43·0 | (68·4–82·9) 31·2 | (68·3–82·9) 36·4 | (56·7–75·9) 37·4 | (57·0–76·2) 27·1 | (56·9–76·1) 31·8 | (-1·0–0·0) -0·4 | (-1·0–0·0) -0·4 | (-1·0–0·0) -0·4 |
| | Diet high in red meat | (0·0–64·4) 41·2 | (0·0–50·6) 38·9 | (0·0–56·5) 40·0 | (0·0–59·4) 33·0 | (0·0–43·9) 30·4 | (0·0–51·0) 31·6 | (-1·8–1·1) -0·7 | (-3·7–1·2) -0·8 | (-2·1–1·2) -0·7 |
| | Diet high in processed meat | (30·2–51·6) 8·1 | (26·8–51·3) 6·1 | (28·3–51·5) 7·0 | (23·2–45·0) 13·4 | (20·9–42·6) 10·7 | (22·1–43·7) 11·9 | (-1·6–0·3) 1·5 | (-1·9–0·4) 1·7 | (-1·8–0·3) 1·6 |
| | Diet high in sugar-sweetened beverages | (3·5–15·8) 10·1 | (2·6–12·0) 14·0 | (3·0–13·8) 12·2 | (7·7–24·3) 10·1 | (5·9–19·6) 14·1 | (6·7–21·8) 12·2 | (-1·3–4·9) 0·0 | (-1·2–4·9) 0·0 | (-1·3–4·9) 0·0 |
| | Diet low in fiber | (2·7–21·1) 22·9 | (4·5–27·4) 30·0 | (3·7–24·6) 26·8 | (2·7–22·1) 14·9 | (4·3–28·7) 21·0 | (3·6–25·7) 18·2 | (-4·8–4·7) -1·3 | (-4·2–4·2) -1·1 | (-4·4–4·4) -1·2 |
| | Diet low in seafood omega-3 fatty acids | (8·5–39·3) 79·9 | (13·8–46·7) 78·1 | (11·4–43·5) 78·8 | (4·3–30·1) 74·0 | (7·8–37·8) 72·2 | (6·2–34·3) 73·0 | (-5·2–1·6) -0·2 | (-4·2–1·2) -0·2 | (-4·6–1·3) -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (46·6–94·0) 35·0 | (45·5–92·6) 32·6 | (45·9–93·2) 33·7 | (43·8–89·4) 24·5 | (43·3–87·6) 22·9 | (43·5–88·4) 23·6 | (-0·6–0·1) -1·1 | (-0·7–0·1) -1·1 | (-0·6–0·1) -1·1 |
| | Diet high in trans fatty acids | (22·9–47·6) 43·8 | (21·3–44·4) 22·2 | (22·0–46·0) 31·6 | (16·1–34·6) 44·7 | (15·2–31·9) 23·1 | (15·9–33·0) 32·8 | (-2·5–0·1) 0·1 | (-2·6–0·2) 0·1 | (-2·5–0·2) 0·1 |
| | Diet high in sodium | (7·1–74·4) 6·7 | (1·2–54·5) 13·2 | (3·7–62·3) 10·4 | (7·9–76·2) 7·6 | (1·4–54·9) 15·0 | (4·2–64·6) 11·7 | (-3·2–3·6) 0·4 | (-3·3–5·1) 0·4 | (-3·1–3·8) 0·4 |
| | Low physical activity | (5·0–8·6) 31·6 | (10·2–16·6) 29·7 | (8·2–12·8) 30·6 | (5·5–9·8) 20·9 | (11·5–19·2) 19·4 | (9·2–14·5) 20·1 | (-0·4–1·0) -1·2 | (-0·3–1·2) -1·3 | (-0·2–0·9) -1·3 |
| | Environmental/occupational risks | (22·0–41·5) 34·6 | (20·4–39·8) 33·9 | (21·1–40·6) 34·2 | (13·7–30·6) 15·1 | (12·6–29·1) 14·8 | (13·2–29·8) 14·9 | (-1·9–-0·6) -2·5 | (-1·9–-0·6) -2·5 | (-1·9–-0·6) -2·5 |
| | Air pollution | (16·8–63·4) 33·2 | (16·5–62·0) 32·4 | (16·6–62·6) 32·8 | (7·0–34·3) 13·2 | (6·9–33·6) 12·8 | (7·0–34·0) 13·0 | (-4·1–-0·9) -2·8 | (-4·1–-0·9) -2·8 | (-4·1–-0·9) -2·8 |
| | Particulate matter pollution | (13·4–70·0) 43·4 | (13·2–69·7) 43·0 | (13·3–69·9) 43·2 | (6·7–37·9) 17·7 | (6·6–36·6) 17·7 | (6·6–37·2) 17·7 | (-4·2–-1·2) -2·7 | (-4·2–-1·2) -2·7 | (-4·2–-1·2) -2·7 |
| | Ambient particulate matter pollution | (17·2–76·7) | (17·1–76·1) | (17·1–76·4) | (8·8–49·7) | (8·8–49·7) | (8·8–49·7) | (-4·3–-0·9) | (-4·3–-0·9) | (-4·3–-0·9) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 2·4 | 2·8 | 2·6 | 0·4 | 0·5 | 0·5 | -5·3 | -5·2 | -5·2 |
| | Household air pollution from solid fuels | (0·6–7·0) | (0·8–7·8) | (0·8–7·3) | (0·1–1·2) | (0·1–1·5) | (0·1–1·4) | (-8·2–-3·2) | (-7·9–-3·0) | (-8·0–-3·1) |
| | | 27·9 | 27·9 | 27·9 | 30·7 | 30·7 | 30·7 | 0·3 | 0·3 | 0·3 |
| | Non-optimal temperature | (26·0–29·6) | (26·0–29·5) | (26·0–29·5) | (27·5–34·9) | (27·4–34·9) | (27·5–34·9) | (0·0–0·6) | (0·0–0·6) | (0·0–0·6) |
| | | 20·1 | 20·1 | 20·1 | 29·2 | 29·2 | 29·2 | 1·1 | 1·1 | 1·1 |
| | High temperature | (16·6–22·5) | (16·5–22·5) | (16·6–22·5) | (24·8–32·7) | (24·8–32·8) | (24·8–32·7) | (0·8–1·6) | (0·9–1·6) | (0·8–1·6) |
| | | 26·2 | 26·2 | 26·2 | 26·0 | 26·0 | 26·0 | 0·0 | 0·0 | 0·0 |
| | Low temperature | (25·0–27·8) | (25·0–27·8) | (25·0–27·8) | (24·2–27·8) | (24·2–27·8) | (24·2–27·8) | (-0·1–0·1) | (-0·1–0·1) | (-0·1–0·1) |
| | | 43·5 | 38·7 | 41·0 | 43·7 | 39·9 | 41·6 | 0·0 | 0·1 | 0·1 |
| | Other environmental risks | (20·3–54·0) | (19·7–48·7) | (20·0–51·1) | (20·8–54·4) | (20·3–50·4) | (20·6–52·2) | (-0·2–0·2) | (-0·2–0·4) | (-0·2–0·3) |
| | | 44·4 | 37·5 | 40·7 | 44·4 | 38·9 | 41·5 | 0·0 | 0·1 | 0·1 |
| | Lead exposure | (6·0–54·3) | (5·1–46·1) | (5·5–49·9) | (6·0–54·0) | (5·3–48·2) | (5·6–50·8) | (-0·3–0·3) | (-0·3–0·5) | (-0·3–0·4) |
| **High-income** | | | | | | | | | | |
| | | 25·1 | 23·5 | 24·3 | 25·1 | 24·4 | 24·8 | 0·0 | 0·1 | 0·1 |
| | All risk factors | (21·6–27·8) | (19·5–25·4) | (20·7–26·6) | (21·2–27·4) | (20·9–26·2) | (21·1–26·8) | (-0·1–0·1) | (0·0–0·3) | (-0·1–0·2) |
| | | 22·4 | 20·3 | 21·4 | 30·0 | 27·7 | 28·8 | 0·9 | 0·9 | 0·9 |
| | Metabolic risks | (20·2–25·0) | (18·2–22·9) | (19·1–23·9) | (27·8–32·3) | (25·4–29·9) | (26·6–31·0) | (0·5–1·2) | (0·5–1·3) | (0·5–1·3) |
| | | 14·1 | 11·3 | 12·7 | 18·5 | 15·8 | 17·1 | 0·8 | 1·0 | 0·9 |
| | High fasting plasma glucose | (9·9–21·0) | (7·9–17·4) | (8·9–19·2) | (14·0–25·5) | (12·2–21·8) | (13·0–23·7) | (-0·5–2·2) | (-0·3–2·4) | (-0·4–2·3) |
| | | 58·0 | 57·8 | 58·1 | 50·4 | 51·9 | 51·3 | -0·4 | -0·3 | -0·4 |
| | High LDL cholesterol | (51·2–65·2) | (50·9–66·5) | (51·2–66·1) | (44·3–57·7) | (45·5–59·3) | (44·9–58·6) | (-1·0–0·0) | (-0·9–0·2) | (-0·9–0·1) |
| | | 34·6 | 26·6 | 30·7 | 30·8 | 21·9 | 26·4 | -0·3 | -0·6 | -0·5 |
| | High systolic blood pressure | (27·8–41·7) | (20·9–33·0) | (24·4–37·6) | (25·7–36·5) | (17·3–27·8) | (21·5–32·2) | (-0·8–0·2) | (-1·1–-0·1) | (-0·9–0·0) |
| | | 22·9 | 21·2 | 22·1 | 32·6 | 30·4 | 31·5 | 1·1 | 1·1 | 1·1 |
| | High body-mass index | (20·1–26·0) | (18·6–24·0) | (19·4–25·1) | (30·2–34·9) | (27·9–32·6) | (29·2–33·8) | (0·7–1·5) | (0·6–1·6) | (0·6–1·5) |
| | | 2·4 | 2·5 | 2·5 | 2·4 | 2·5 | 2·4 | 0·0 | -0·1 | 0·0 |
| | Kidney dysfunction | (1·5–4·1) | (1·6–4·3) | (1·5–4·2) | (1·5–4·1) | (1·6–4·2) | (1·6–4·2) | (0·0–0·0) | (-0·1–0·0) | (-0·1–0·0) |
| | | 26·8 | 25·0 | 25·9 | 23·6 | 23·0 | 23·3 | -0·4 | -0·3 | -0·3 |
| | Behavioral risks | (21·5–31·9) | (21·3–28·8) | (21·5–30·3) | (18·7–27·9) | (19·6–25·9) | (19·4–26·8) | (-0·6–-0·2) | (-0·4–-0·1) | (-0·5–-0·2) |
| | | 37·2 | 30·2 | 33·5 | 25·6 | 20·4 | 23·0 | -1·1 | -1·2 | -1·1 |
| | Tobacco | (28·3–48·7) | (24·4–39·9) | (26·3–44·0) | (19·2–36·8) | (15·9–29·1) | (17·6–33·1) | (-1·4–-0·8) | (-1·5–-0·9) | (-1·4–-0·8) |
| | | 42·0 | 25·4 | 33·4 | 27·1 | 19·0 | 23·0 | -1·3 | -0·9 | -1·1 |
| | Smoking | (22·5–67·5) | (13·5–45·6) | (17·9–55·8) | (13·5–53·0) | (9·6–37·8) | (11·6–45·4) | (-1·7–-0·8) | (-1·3–-0·4) | (-1·5–-0·7) |
| | | 1·6 | 0·3 | 0·9 | 1·7 | 0·4 | 1·1 | 0·2 | 1·1 | 0·4 |
| | Chewing tobacco | (1·0–2·5) | (0·1–0·5) | (0·6–1·5) | (1·1–2·6) | (0·1–0·8) | (0·7–1·7) | (-1·8–2·3) | (-2·2–4·7) | (-1·8–2·8) |
| | | 40·1 | 45·3 | 42·7 | 30·6 | 27·5 | 29·0 | -0·8 | -1·5 | -1·2 |
| | Secondhand smoke | (36·7–43·4) | (42·1–48·4) | (39·4–46·0) | (27·5–34·2) | (25·5–29·7) | (26·5–32·0) | (-1·3–-0·4) | (-1·8–-1·2) | (-1·6–-0·8) |
| | | 17·4 | 15·1 | 16·2 | 16·2 | 13·7 | 15·0 | -0·2 | -0·3 | -0·2 |
| | High alcohol use | (12·8–24·5) | (10·1–21·4) | (11·7–23·1) | (11·6–21·8) | (9·7–19·1) | (10·8–20·3) | (-0·5–0·1) | (-0·9–0·2) | (-0·6–0·1) |
| | | 37·9 | 33·4 | 35·6 | 41·0 | 34·7 | 37·8 | 0·2 | 0·1 | 0·2 |
| | Dietary risks | (28·7–47·7) | (24·9–42·1) | (26·7–45·1) | (31·2–51·0) | (25·1–44·1) | (28·0–47·3) | (-0·1–0·6) | (-0·3–0·5) | (-0·2–0·5) |
| | | 33·2 | 25·7 | 29·4 | 34·1 | 26·4 | 30·2 | 0·1 | 0·1 | 0·1 |
| | Diet low in fruits | (27·2–37·9) | (20·3–30·2) | (23·7–34·0) | (27·4–39·4) | (20·0–31·6) | (23·6–35·6) | (-0·6–0·7) | (-0·7–0·9) | (-0·6–0·8) |
| | | 23·8 | 22·9 | 23·4 | 25·5 | 23·8 | 24·6 | 0·2 | 0·1 | 0·2 |
| | Diet low in vegetables | (15·3–28·6) | (14·8–27·3) | (15·2–27·8) | (15·2–30·6) | (13·9–28·1) | (14·4–29·4) | (-0·3–0·8) | (-0·4–0·6) | (-0·4–0·7) |
| | | 41·5 | 47·2 | 44·5 | 45·3 | 50·2 | 47·8 | 0·3 | 0·2 | 0·2 |
| | Diet low in legumes | (0·0–55·2) | (0·0–61·7) | (0·0–58·6) | (0·0–59·3) | (0·0–64·7) | (0·0–62·0) | (-0·5–1·1) | (-0·5–0·9) | (-0·5–1·0) |
| | | 46·3 | 46·3 | 46·3 | 48·8 | 49·4 | 49·1 | 0·2 | 0·2 | 0·2 |
| | Diet low in whole grains | (37·3–56·1) | (37·6–55·4) | (37·7–55·8) | (39·9–57·5) | (40·3–57·0) | (40·2–57·1) | (-0·5–0·8) | (-0·3–0·7) | (-0·4–0·8) |
| | | 40·0 | 40·7 | 40·4 | 29·7 | 30·2 | 29·9 | -0·9 | -0·9 | -0·9 |
| | Diet low in nuts and seeds | (31·4–50·3) | (32·2–51·1) | (31·9–50·7) | (23·5–36·8) | (24·2–37·4) | (23·9–37·2) | (-1·8–0·0) | (-1·8–0·0) | (-1·8–0·0) |
| | | 48·7 | 35·9 | 42·0 | 51·2 | 36·4 | 43·7 | 0·1 | 0·0 | 0·1 |
| | Diet high in red meat | (0·0–67·8) | (0·0–53·3) | (0·0–60·2) | (0·0–72·1) | (0·0–55·3) | (0·0–63·6) | (-0·5–0·7) | (-1·7–0·8) | (-0·5–0·7) |
| | | 35·4 | 26·8 | 31·0 | 47·5 | 40·3 | 43·8 | 0·9 | 1·2 | 1·1 |
| | Diet high in processed meat | (25·3–46·6) | (17·3–37·6) | (21·3–42·0) | (38·0–56·7) | (30·6–50·0) | (34·3–53·3) | (-0·2–1·9) | (0·0–2·4) | (-0·1–2·1) |
| | | 26·4 | 18·8 | 22·4 | 42·6 | 32·9 | 37·7 | 1·4 | 1·7 | 1·6 |
| | Diet high in sugar-sweetened beverages | (11·2–46·0) | (8·0–35·2) | (9·5–40·3) | (25·9–62·4) | (19·3–50·8) | (22·5–56·2) | (-0·8–4·5) | (-0·8–5·1) | (-0·8–4·8) |
| | | 21·3 | 28·5 | 25·0 | 20·5 | 24·9 | 22·7 | -0·1 | -0·4 | -0·3 |
| | Diet low in fiber | (11·6–32·6) | (16·3–40·9) | (13·9–36·9) | (11·9–29·8) | (12·7–38·8) | (12·6–34·0) | (-1·5–1·7) | (-2·5–1·5) | (-2·0–1·5) |
| | | 21·8 | 28·2 | 25·1 | 16·1 | 22·1 | 19·1 | -0·9 | -0·7 | -0·8 |
| | Diet low in seafood omega-3 fatty acids | (10·9–33·2) | (16·3–40·2) | (13·7–36·8) | (6·2–29·1) | (9·4–35·8) | (7·8–32·4) | (-3·8–1·6) | (-3·0–1·3) | (-3·3–1·4) |
| | | 54·3 | 51·3 | 52·7 | 41·8 | 38·9 | 40·3 | -0·8 | -0·8 | -0·8 |
| | Diet low in omega-6 polyunsaturated fatty acids | (33·2–67·6) | (31·7–64·2) | (32·5–65·8) | (26·0–53·1) | (24·1–50·5) | (25·2–51·8) | (-1·4–-0·2) | (-1·5–-0·2) | (-1·5–-0·2) |
| | | 58·4 | 55·5 | 56·9 | 12·6 | 11·5 | 12·0 | -4·6 | -4·8 | -4·7 |
| | Diet high in trans fatty acids | (42·3–71·3) | (39·5–69·1) | (40·9–70·0) | (8·4–17·1) | (7·6–15·5) | (8·1–16·3) | (-5·9–-3·3) | (-6·1–-3·3) | (-6·0–-3·3) |
| | | 37·9 | 26·4 | 31·9 | 40·4 | 23·2 | 31·6 | 0·2 | -0·4 | 0·0 |
| | Diet high in sodium | (12·5–65·8) | (6·4–54·7) | (9·3–59·8) | (10·7–70·9) | (2·1–52·9) | (6·6–60·8) | (-1·4–1·5) | (-4·4–1·0) | (-2·2–1·4) |
| | | 16·3 | 25·6 | 21·1 | 17·0 | 27·6 | 22·4 | 0·1 | 0·2 | 0·2 |
| | Low physical activity | (12·8–19·6) | (21·6–29·1) | (17·4–24·6) | (13·6–20·3) | (23·3–32·1) | (18·4–26·2) | (-0·2–0·5) | (-0·1–0·5) | (-0·1–0·4) |
| | | 23·5 | 21·3 | 22·4 | 17·5 | 16·0 | 16·7 | -0·9 | -0·9 | -0·9 |
| | Environmental/occupational risks | (15·4–34·2) | (14·1–32·1) | (14·7–33·1) | (11·0–26·6) | (10·0–24·7) | (10·4–25·6) | (-1·3–-0·5) | (-1·3–-0·5) | (-1·3–-0·5) |
| | | 25·1 | 24·7 | 24·9 | 13·3 | 13·1 | 13·2 | -1·9 | -1·9 | -1·9 |
| | Air pollution | (11·7–49·0) | (11·5–48·0) | (11·6–48·5) | (5·5–29·6) | (5·4–29·1) | (5·4–29·4) | (-3·3–-0·6) | (-3·3–-0·7) | (-3·3–-0·7) |
| | | 20·7 | 20·2 | 20·4 | 10·3 | 9·9 | 10·1 | -2·1 | -2·1 | -2·1 |
| | Particulate matter pollution | (9·6–55·0) | (9·3–54·0) | (9·4–54·5) | (5·0–27·4) | (4·8–26·4) | (4·9–26·9) | (-3·4–-1·0) | (-3·4–-1·1) | (-3·4–-1·0) |
| | | 27·9 | 27·8 | 27·8 | 14·1 | 14·1 | 14·1 | -2·1 | -2·1 | -2·1 |
| | Ambient particulate matter pollution | (12·6–62·1) | (12·6–62·0) | (12·6–62·0) | (6·8–35·8) | (6·9–35·3) | (6·9–35·4) | (-3·3–-0·9) | (-3·3–-0·9) | (-3·3–-0·9) |
| | | 0·8 | 1·0 | 0·9 | 0·1 | 0·1 | 0·1 | -6·9 | -6·8 | -6·8 |
| | Household air pollution from solid fuels | (0·3–2·4) | (0·3–2·5) | (0·3–2·4) | (0·0–0·5) | (0·0–0·7) | (0·0–0·6) | (-23·4–-2·2) | (-23·1–-1·9) | (-23·3–-2·0) |
| | | 25·8 | 25·8 | 25·8 | 26·5 | 26·5 | 26·5 | 0·1 | 0·1 | 0·1 |
| | Non-optimal temperature | (24·7–27·1) | (24·7–27·1) | (24·7–27·1) | (25·7–28·0) | (25·7–28·0) | (25·7–28·0) | (0·0–0·2) | (0·0–0·2) | (0·0–0·2) |
| | | 22·4 | 22·4 | 22·4 | 26·8 | 26·7 | 26·8 | 0·5 | 0·5 | 0·5 |
| | High temperature | (19·5–25·2) | (19·5–25·2) | (19·5–25·2) | (23·6–29·3) | (23·6–29·2) | (23·6–29·3) | (0·3–0·7) | (0·3–0·7) | (0·3–0·7) |
| | | 24·0 | 24·0 | 24·0 | 23·1 | 23·1 | 23·1 | -0·1 | -0·1 | -0·1 |
| | Low temperature | (22·7–25·5) | (22·7–25·5) | (22·7–25·5) | (21·8–24·8) | (21·8–24·8) | (21·8–24·8) | (-0·2–0·0) | (-0·2–0·0) | (-0·2–0·0) |
| | | 37·0 | 30·4 | 33·6 | 29·3 | 25·8 | 27·6 | -0·7 | -0·5 | -0·6 |
| | Other environmental risks | (14·4–45·3) | (13·6–37·8) | (13·9–41·4) | (12·7–36·4) | (12·3–32·6) | (12·5–34·4) | (-1·0–-0·4) | (-0·8–-0·3) | (-0·9–-0·4) |
| | | 40·9 | 31·3 | 36·0 | 29·9 | 24·9 | 27·3 | -0·9 | -0·7 | -0·8 |
| | Lead exposure | (5·5–49·2) | (4·3–37·9) | (4·9–43·3) | (3·5–35·4) | (2·9–29·9) | (3·2–32·6) | (-1·4–-0·8) | (-1·3–-0·5) | (-1·3–-0·6) |
| **Australasia** | | | | | | | | | | |
| | | 24·7 | 23·1 | 24·0 | 24·7 | 24·1 | 24·4 | 0·0 | 0·1 | 0·1 |
| | All risk factors | (21·5–27·6) | (20·3–25·4) | (20·9–26·4) | (20·3–27·4) | (20·8–26·2) | (20·4–26·7) | (-0·2–0·2) | (-0·1–0·3) | (-0·1–0·2) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 22·3 | 19·3 | 20·8 | 31·3 | 28·6 | 29·9 | 1·0 | 1·2 | 1·1 |
| | Metabolic risks | (19·9–25·2) | (16·8–21·9) | (18·3–23·5) | (28·6–34·3) | (25·8–31·4) | (27·3–32·8) | (0·6–1·5) | (0·7–1·8) | (0·6–1·6) |
| | | 9·1 | 6·6 | 7·8 | 16·9 | 14·8 | 15·9 | 1·9 | 2·4 | 2·1 |
| | High fasting plasma glucose | (6·5–13·3) | (4·9–10·2) | (5·7–11·7) | (11·9–26·4) | (10·2–24·4) | (11·0–25·3) | (0·4–3·6) | (0·7–4·3) | (0·6–3·9) |
| | | 63·3 | 60·2 | 61·9 | 57·3 | 58·1 | 57·8 | -0·3 | -0·1 | -0·2 |
| | High LDL cholesterol | (55·9–70·3) | (52·0–68·2) | (54·1–69·5) | (48·9–65·6) | (47·3–68·2) | (47·9–66·9) | (-0·9–0·2) | (-0·9–0·5) | (-0·9–0·3) |
| | | 35·0 | 23·5 | 29·3 | 31·2 | 24·8 | 28·0 | -0·3 | 0·2 | -0·1 |
| | High systolic blood pressure | (28·9–40·5) | (19·0–28·4) | (24·1–34·5) | (19·0–46·7) | (14·1–40·1) | (16·6–43·4) | (-1·7–0·8) | (-1·5–1·5) | (-1·6–1·2) |
| | | 24·1 | 21·4 | 22·8 | 35·4 | 32·3 | 33·9 | 1·2 | 1·2 | 1·2 |
| | High body-mass index | (20·7–27·2) | (18·1–24·7) | (19·4–25·9) | (31·2–39·3) | (28·3–35·9) | (29·9–37·7) | (0·6–1·7) | (0·6–1·9) | (0·6–1·8) |
| | | 1·7 | 2·4 | 2·1 | 1·7 | 2·2 | 2·0 | -0·1 | -0·2 | -0·2 |
| | Kidney dysfunction | (1·1–3·2) | (1·5–4·1) | (1·3–3·8) | (1·1–3·1) | (1·4–3·9) | (1·2–3·5) | (-0·2–0·0) | (-0·3–-0·1) | (-0·3–-0·1) |
| | | 24·9 | 25·8 | 25·4 | 22·3 | 23·1 | 22·7 | -0·3 | -0·3 | -0·3 |
| | Behavioral risks | (20·0–29·7) | (22·2–30·0) | (21·2–29·7) | (17·5–25·9) | (19·4–27·1) | (18·5–26·2) | (-0·5–-0·1) | (-0·6–-0·1) | (-0·6–-0·1) |
| | | 30·7 | 28·5 | 29·5 | 20·6 | 18·5 | 19·5 | -1·2 | -1·3 | -1·3 |
| | Tobacco | (23·6–41·5) | (22·7–38·4) | (23·1–39·7) | (15·4–29·5) | (13·3–29·5) | (14·5–28·8) | (-1·6–-0·9) | (-1·9–-0·7) | (-1·7–-0·8) |
| | | 32·0 | 25·3 | 28·6 | 19·1 | 18·6 | 18·8 | -1·6 | -0·9 | -1·3 |
| | Smoking | (16·6–55·4) | (13·1–47·0) | (14·9–51·0) | (9·4–37·6) | (8·2–42·7) | (8·8–39·6) | (-2·2–-1·0) | (-1·9–0·1) | (-1·9–-0·6) |
| | | 0·7 | 0·3 | 0·5 | 0·7 | 0·3 | 0·5 | -0·1 | 0·6 | 0·1 |
| | Chewing tobacco | (0·3–1·5) | (0·1–0·6) | (0·2–1·0) | (0·3–1·5) | (0·1–0·7) | (0·2–1·1) | (-3·2–3·3) | (-2·7–4·2) | (-3·1–3·6) |
| | | 38·6 | 40·5 | 39·5 | 28·8 | 22·6 | 25·7 | -0·9 | -1·8 | -1·3 |
| | Secondhand smoke | (34·3–42·9) | (36·3–44·9) | (35·3–43·9) | (26·9–31·0) | (20·5–25·3) | (23·6–28·1) | (-1·3–-0·4) | (-2·2–-1·3) | (-1·7–-0·8) |
| | | 17·5 | 17·0 | 17·2 | 17·0 | 14·0 | 15·5 | -0·1 | -0·6 | -0·3 |
| | High alcohol use | (12·1–24·2) | (11·2–24·3) | (11·8–24·0) | (12·0–23·3) | (9·5–18·9) | (10·5–21·1) | (-0·6–0·5) | (-1·5–0·2) | (-1·0–0·3) |
| | | 37·2 | 31·9 | 34·5 | 38·9 | 34·3 | 36·5 | 0·1 | 0·2 | 0·2 |
| | Dietary risks | (27·8–47·0) | (23·1–40·2) | (25·4–43·5) | (28·5–48·4) | (25·4–42·8) | (26·9–45·8) | (-0·3–0·6) | (-0·3–0·8) | (-0·3–0·6) |
| | | 34·9 | 27·4 | 31·0 | 35·8 | 29·4 | 32·5 | 0·1 | 0·2 | 0·1 |
| | Diet low in fruits | (28·7–39·3) | (20·9–31·8) | (24·8–35·4) | (28·1–43·5) | (21·1–37·4) | (24·8–40·1) | (-0·6–0·7) | (-0·7–1·2) | (-0·6–1·0) |
| | | 28·4 | 25·7 | 27·0 | 28·4 | 27·3 | 27·8 | 0·0 | 0·2 | 0·1 |
| | Diet low in vegetables | (19·3–33·0) | (17·3–30·3) | (18·2–31·6) | (17·6–35·8) | (16·6–34·1) | (17·0–34·9) | (-0·7–0·7) | (-0·5–0·9) | (-0·6–0·8) |
| | | 34·6 | 38·5 | 36·6 | 44·4 | 50·0 | 47·3 | 0·8 | 0·8 | 0·8 |
| | Diet low in legumes | (0·0–49·8) | (0·0–55·1) | (0·0–52·5) | (0·0–64·3) | (0·0–70·5) | (0·0–67·4) | (-0·5–2·0) | (-0·4–2·0) | (-0·5–2·0) |
| | | 48·4 | 48·2 | 48·3 | 56·4 | 57·2 | 56·8 | 0·5 | 0·5 | 0·5 |
| | Diet low in whole grains | (38·8–57·1) | (37·9–55·7) | (38·4–56·3) | (44·1–72·1) | (44·3–71·6) | (44·0–71·9) | (-0·3–1·2) | (-0·2–1·3) | (-0·2–1·2) |
| | | 41·1 | 41·4 | 41·2 | 23·1 | 23·4 | 23·2 | -1·7 | -1·7 | -1·7 |
| | Diet low in nuts and seeds | (28·7–53·5) | (29·0–53·8) | (28·8–53·7) | (9·3–38·7) | (9·5–39·1) | (9·4–38·9) | (-4·5–0·2) | (-4·4–0·2) | (-4·5–0·2) |
| | | 54·8 | 50·0 | 52·3 | 59·5 | 48·6 | 53·9 | 0·2 | -0·1 | 0·1 |
| | Diet high in red meat | (0·0–74·0) | (0·0–69·2) | (0·0–71·5) | (0·0–81·7) | (0·0–70·7) | (0·0–75·2) | (-0·2–0·8) | (-1·2–0·7) | (-0·5–0·8) |
| | | 20·7 | 16·5 | 18·5 | 34·1 | 28·8 | 31·4 | 1·5 | 1·7 | 1·6 |
| | Diet high in processed meat | (12·4–31·4) | (10·2–24·8) | (11·2–28·0) | (22·5–51·1) | (17·8–45·0) | (20·3–48·0) | (-0·3–3·4) | (-0·3–3·6) | (-0·3–3·5) |
| | | 32·6 | 23·4 | 27·9 | 39·4 | 29·5 | 34·3 | 0·6 | 0·7 | 0·6 |
| | Diet high in sugar-sweetened beverages | (15·3–50·4) | (10·6–40·3) | (12·9–44·6) | (20·2–63·9) | (14·3–52·1) | (17·2–57·5) | (-1·9–3·6) | (-2·1–4·1) | (-1·9–3·8) |
| | | 25·5 | 30·6 | 28·1 | 22·7 | 27·8 | 25·3 | -0·4 | -0·3 | -0·3 |
| | Diet low in fiber | (12·6–42·5) | (15·1–49·1) | (14·0–45·8) | (8·3–40·9) | (10·7–49·1) | (9·8–44·4) | (-3·6–2·5) | (-3·4–2·3) | (-3·5–2·4) |
| | | 23·2 | 31·0 | 27·2 | 11·8 | 18·0 | 15·0 | -2·0 | -1·7 | -1·8 |
| | Diet low in seafood omega-3 fatty acids | (9·1–37·5) | (16·6–45·1) | (13·0–41·3) | (1·4–26·9) | (3·9–34·3) | (2·7–30·7) | (-7·3–1·4) | (-5·5–1·0) | (-6·2–1·2) |
| | | 79·5 | 78·2 | 78·9 | 76·9 | 75·0 | 75·9 | -0·1 | -0·1 | -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (46·6–93·2) | (46·3–91·9) | (46·4–92·5) | (45·5–91·8) | (44·5–90·3) | (45·0–91·0) | (-0·4–0·2) | (-0·5–0·1) | (-0·4–0·1) |
| | | 76·2 | 72·3 | 74·2 | 63·0 | 59·1 | 61·0 | -0·6 | -0·6 | -0·6 |
| | Diet high in trans fatty acids | (54·6–92·8) | (50·7–90·0) | (52·6–90·9) | (41·8–82·3) | (38·7–77·4) | (41·0–80·2) | (-1·8–0·4) | (-1·9–0·4) | (-1·8–0·4) |
| | | 29·9 | 14·4 | 22·1 | 28·2 | 15·0 | 21·5 | -0·2 | 0·1 | -0·1 |
| | Diet high in sodium | (2·7–64·3) | (0·0–44·7) | (1·4–54·8) | (3·0–64·8) | (0·0–47·3) | (1·5–57·2) | (-3·1–3·8) | (-12·3–46·4) | (-3·2–3·8) |
| | | 24·1 | 33·0 | 28·7 | 30·0 | 43·7 | 36·9 | 0·7 | 0·8 | 0·8 |
| | Low physical activity | (19·1–28·9) | (26·9–39·5) | (23·8–32·9) | (23·2–36·0) | (35·1–51·0) | (30·3–43·0) | (0·0–1·4) | (0·2–1·5) | (0·3–1·2) |
| | | 17·0 | 15·2 | 16·1 | 15·4 | 14·1 | 14·7 | -0·3 | -0·2 | -0·3 |
| | Environmental/occupational risks | (10·3–25·8) | (9·4–23·8) | (9·9–24·8) | (9·2–22·7) | (8·4–21·1) | (8·8–21·8) | (-1·0–0·1) | (-1·0–0·2) | (-1·0–0·2) |
| | | 11·2 | 11·1 | 11·2 | 8·9 | 8·8 | 8·9 | -0·7 | -0·7 | -0·7 |
| | Air pollution | (0·3–29·0) | (0·3–28·6) | (0·3–28·8) | (2·3–24·7) | (2·2–24·4) | (2·2–24·6) | (-3·5–8·0) | (-3·6–7·3) | (-3·5–7·7) |
| | | 6·0 | 6·0 | 6·0 | 5·6 | 5·5 | 5·5 | -0·2 | -0·3 | -0·2 |
| | Particulate matter pollution | (0·2–21·0) | (0·2–20·2) | (0·2–20·6) | (2·0–15·4) | (2·0–14·9) | (2·0–15·2) | (-3·8–9·5) | (-3·8–8·5) | (-3·8–9·0) |
| | | 8·0 | 8·1 | 8·1 | 7·6 | 7·6 | 7·6 | -0·2 | -0·2 | -0·2 |
| | Ambient particulate matter pollution | (0·2–30·7) | (0·3–30·8) | (0·3–30·7) | (2·7–21·4) | (2·7–21·4) | (2·7–21·4) | (-3·8–9·5) | (-3·8–8·7) | (-3·8–9·1) |
| | | 0·2 | 0·3 | 0·3 | 0·1 | 0·1 | 0·1 | -3·1 | -3·4 | -3·3 |
| | Household air pollution from solid fuels | (0·0–1·4) | (0·0–1·7) | (0·0–1·6) | (0·0–0·6) | (0·0–0·8) | (0·0–0·7) | (-19·0–1·5) | (-19·0–0·3) | (-19·0–0·9) |
| | | 21·0 | 21·0 | 21·0 | 19·9 | 19·9 | 19·9 | -0·2 | -0·2 | -0·2 |
| | Non-optimal temperature | (19·0–24·4) | (19·0–24·4) | (19·0–24·4) | (18·1–22·7) | (18·1–22·7) | (18·1–22·7) | (-0·3–0·0) | (-0·3–0·0) | (-0·3–0·0) |
| | | 21·1 | 21·0 | 21·0 | 18·5 | 18·5 | 18·5 | -0·4 | -0·4 | -0·4 |
| | High temperature | (17·3–27·9) | (17·3–27·9) | (17·3–27·9) | (15·7–21·9) | (15·7–21·9) | (15·7–21·9) | (-0·8–-0·1) | (-0·8–-0·1) | (-0·8–-0·1) |
| | | 20·6 | 20·6 | 20·6 | 19·5 | 19·5 | 19·5 | -0·2 | -0·2 | -0·2 |
| | Low temperature | (18·4–24·5) | (18·4–24·5) | (18·4–24·5) | (17·5–22·8) | (17·5–22·8) | (17·5–22·8) | (-0·4–0·0) | (-0·4–0·0) | (-0·4–0·0) |
| | | 34·8 | 27·9 | 31·3 | 27·6 | 24·2 | 25·9 | -0·7 | -0·4 | -0·6 |
| | Other environmental risks | (6·3–47·2) | (5·8–38·9) | (6·0–42·9) | (4·9–38·0) | (4·6–32·8) | (4·8–35·3) | (-1·0–-0·5) | (-0·8–-0·1) | (-0·9–-0·3) |
| | | 46·4 | 36·4 | 41·3 | 36·0 | 31·0 | 33·5 | -0·8 | -0·5 | -0·6 |
| | Lead exposure | (6·1–64·6) | (5·3–50·6) | (5·7–57·7) | (4·4–50·3) | (3·9–44·0) | (4·1–47·2) | (-1·1–-0·5) | (-1·0–-0·1) | (-1·1–-0·4) |
| **High-income Asia Pacific** | | | | | | | | | | |
| | | 26·2 | 23·9 | 25·1 | 24·2 | 22·9 | 23·6 | -0·2 | -0·1 | -0·2 |
| | All risk factors | (21·9–29·2) | (20·7–26·6) | (21·0–27·7) | (20·8–27·1) | (19·6–25·1) | (20·3–26·1) | (-0·4–0·0) | (-0·4–0·1) | (-0·4–0·0) |
| | | 14·9 | 12·7 | 13·8 | 19·7 | 15·3 | 17·6 | 0·9 | 0·6 | 0·7 |
| | Metabolic risks | (12·5–17·8) | (10·5–15·6) | (11·6–16·8) | (17·2–22·4) | (13·2–17·8) | (15·5–20·0) | (0·2–1·5) | (0·0–1·2) | (0·1–1·4) |
| | | 16·0 | 14·4 | 15·3 | 17·3 | 13·7 | 15·5 | 0·2 | -0·1 | 0·1 |
| | High fasting plasma glucose | (10·7–26·1) | (9·2–24·4) | (9·9–25·3) | (12·2–25·8) | (9·7–21·1) | (11·1–23·6) | (-1·4–2·0) | (-1·9–1·7) | (-1·7–1·9) |
| | | 46·4 | 49·1 | 47·9 | 50·9 | 53·3 | 52·2 | 0·3 | 0·3 | 0·3 |
| | High LDL cholesterol | (39·9–53·1) | (42·2–56·1) | (41·2–54·7) | (44·2–57·8) | (44·8–61·9) | (44·5–58·9) | (-0·2–0·7) | (-0·3–0·7) | (-0·2–0·7) |
| | | 38·4 | 29·2 | 33·8 | 26·2 | 16·2 | 21·3 | -1·2 | -1·8 | -1·4 |
| | High systolic blood pressure | (32·7–43·9) | (24·6–33·7) | (28·7–38·8) | (19·2–33·6) | (13·1–19·4) | (16·7–26·1) | (-2·3–-0·1) | (-2·2–-1·2) | (-2·2–-0·6) |
| | | 12·1 | 10·3 | 11·3 | 18·9 | 14·5 | 16·8 | 1·4 | 1·0 | 1·2 |
| | High body-mass index | (9·8–14·8) | (8·5–12·6) | (9·4–13·8) | (16·3–21·6) | (12·4–17·0) | (14·6–19·1) | (0·6–2·1) | (0·1–1·8) | (0·4–1·9) |
| | | 3·4 | 3·4 | 3·4 | 3·3 | 3·1 | 3·2 | -0·1 | -0·3 | -0·2 |
| | Kidney dysfunction | (2·1–5·5) | (2·0–5·6) | (2·1–5·5) | (2·1–5·3) | (2·0–5·1) | (2·0–5·2) | (-0·1–-0·1) | (-0·4–-0·2) | (-0·3–-0·2) |
| | | 27·9 | 22·6 | 25·2 | 23·8 | 20·5 | 22·2 | -0·5 | -0·3 | -0·4 |
| | Behavioral risks | (22·2–33·2) | (18·6–26·5) | (20·6–29·5) | (18·4–28·6) | (16·9–23·7) | (17·7–25·8) | (-0·8–-0·2) | (-0·7–0·0) | (-0·7–-0·1) |
| | | 43·5 | 28·8 | 35·9 | 30·1 | 17·7 | 24·0 | -1·1 | -1·5 | -1·2 |
| | Tobacco | (32·8–55·0) | (25·1–34·8) | (29·0–44·4) | (22·2–42·4) | (14·4–23·5) | (18·5–32·7) | (-1·4–-0·8) | (-2·0–-1·0) | (-1·6–-0·9) |
| | | 52·5 | 11·9 | 31·7 | 33·1 | 9·4 | 21·3 | -1·4 | -0·7 | -1·2 |
| | Smoking | (28·9–79·6) | (5·7–25·5) | (17·3–51·0) | (16·2–58·9) | (3·8–21·8) | (10·4–39·1) | (-1·9–-0·9) | (-2·4–0·9) | (-1·7–-0·6) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 0·8 | 0·3 | 0·5 | 0·8 | 0·5 | 0·7 | 0·2 | 1·2 | 0·6 |
| | Chewing tobacco | (0·3–1·6) 39·3 | (0·1–0·7) 63·0 | (0·2–1·1) 51·3 | (0·3–1·7) 32·2 | (0·2–1·0) 34·0 | (0·2–1·3) 33·1 | (-2·9–3·6) -0·6 | (-2·2–4·7) -1·9 | (-2·7–4·0) -1·3 |
| | Secondhand smoke | (34·5–44·2) 16·2 | (57·7–67·8) 14·2 | (46·3–56·2) 15·1 | (27·6–37·6) 15·0 | (29·2–39·5) 12·3 | (28·4–38·5) 13·6 | (-1·2–0·0) -0·2 | (-2·4–-1·4) -0·4 | (-1·9–-0·8) -0·3 |
| | High alcohol use | (11·2–23·8) 42·6 | (8·7–21·2) 39·7 | (10·1–22·3) 41·2 | (10·0–20·8) 40·9 | (7·5–17·5) 35·7 | (8·8–18·9) 38·3 | (-1·0–0·4) -0·1 | (-1·5–0·5) -0·3 | (-1·1–0·4) -0·2 |
| | Dietary risks | (33·2–50·9) 40·5 | (28·3–47·5) 32·9 | (31·5–49·2) 36·6 | (31·7–50·0) 42·5 | (25·7–44·3) 33·4 | (28·8–47·0) 38·0 | (-0·5–0·2) 0·1 | (-0·8–0·1) 0·0 | (-0·6–0·2) 0·1 |
| | Diet low in fruits | (34·3–46·4) 17·6 | (27·4–37·6) 17·5 | (30·8–42·0) 17·5 | (34·6–48·0) 19·0 | (26·7–38·4) 17·5 | (30·7–43·2) 18·3 | (-0·4–0·6) 0·2 | (-0·5–0·7) 0·0 | (-0·4–0·6) 0·1 |
| | Diet low in vegetables | (9·0–25·0) 17·9 | (9·6–23·9) 20·4 | (9·2–24·5) 19·2 | (11·6–24·9) 25·3 | (10·7–22·7) 27·8 | (11·2–23·8) 26·6 | (-1·3–1·9) 1·0 | (-1·3–1·5) 0·9 | (-1·3–1·7) 1·0 |
| | Diet low in legumes | (0·0–25·9) 49·7 | (0·0–29·4) 50·9 | (0·0–27·7) 50·3 | (0·0–33·9) 53·8 | (0·0–36·9) 53·9 | (0·0–35·4) 53·9 | (0·0–1·9) 0·2 | (0·0–1·8) 0·2 | (0·0–1·8) 0·2 |
| | Diet low in whole grains | (39·9–60·3) 49·7 | (41·0–60·6) 49·9 | (40·5–60·5) 49·8 | (43·1–64·6) 45·6 | (42·6–61·7) 45·6 | (43·0–63·1) 45·6 | (-0·5–1·0) -0·3 | (-0·4–0·7) -0·3 | (-0·5–0·9) -0·3 |
| | Diet low in nuts and seeds | (40·0–59·0) 29·5 | (40·1–59·0) 20·8 | (40·2–59·0) 25·0 | (40·0–50·8) 38·7 | (41·0–51·4) 26·4 | (40·7–50·9) 32·5 | (-0·9–0·5) 0·8 | (-0·9–0·4) 0·7 | (-0·9–0·5) 0·8 |
| | Diet high in red meat | (0·0–45·4) 16·2 | (0·0–30·8) 13·8 | (0·0–37·7) 14·9 | (0·0–59·3) 29·6 | (0·0–41·5) 23·5 | (0·0–50·5) 26·5 | (0·0–7·3) 1·8 | (0·0–22·9) 1·6 | (0·0–7·9) 1·7 |
| | Diet high in processed meat | (10·5–22·6) 21·2 | (9·1–18·7) 15·3 | (9·7–20·6) 18·1 | (23·4–37·8) 25·0 | (19·6–28·2) 17·7 | (21·6–33·2) 21·4 | (0·5–3·0) 0·5 | (0·6–2·8) 0·4 | (0·6–2·9) 0·5 |
| | Diet high in sugar-sweetened beverages | (8·5–38·8) 34·9 | (6·2–29·6) 39·5 | (7·3–34·0) 37·3 | (13·3–43·8) 45·2 | (9·5–32·0) 51·1 | (11·4–37·9) 48·1 | (-2·3–4·0) 0·8 | (-2·4–4·0) 0·8 | (-2·4–4·0) 0·8 |
| | Diet low in fiber | (18·4–48·1) 2·9 | (21·0–52·7) 5·0 | (19·7–50·5) 4·0 | (25·0–54·7) 1·2 | (28·2–61·3) 2·2 | (26·6–57·9) 1·7 | (-0·4–2·2) -2·8 | (-0·3–2·0) -2·5 | (-0·4–2·1) -2·6 |
| | Diet low in seafood omega-3 fatty acids | (0·5–7·2) 68·0 | (1·2–10·9) 64·8 | (0·8–9·1) 66·3 | (0·0–4·0) 43·8 | (0·3–6·2) 40·3 | (0·2–5·1) 42·0 | (-9·1–3·3) -1·3 | (-6·5–2·1) -1·4 | (-7·2–2·5) -1·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (42·6–81·9) 39·4 | (41·0–78·7) 36·9 | (41·8–80·2) 38·1 | (26·2–60·5) 38·6 | (23·9–56·7) 35·9 | (25·2–58·6) 37·3 | (-2·4–-0·5) -0·1 | (-2·6–-0·5) -0·1 | (-2·5–-0·5) -0·1 |
| | Diet high in trans fatty acids | (26·3–52·1) 70·7 | (24·4–49·1) 56·5 | (25·3–50·5) 63·6 | (26·0–51·8) 50·1 | (23·7–47·9) 35·3 | (25·0–49·8) 42·8 | (-1·4–1·0) -1·0 | (-1·5–1·0) -1·4 | (-1·4–1·0) -1·2 |
| | Diet high in sodium | (47·7–90·6) 25·0 | (32·1–75·8) 35·1 | (40·1–82·6) 30·3 | (21·9–75·3) 26·0 | (9·2–58·7) 35·3 | (15·3–68·7) 30·7 | (-2·8–-0·4) 0·1 | (-4·5–-0·5) 0·0 | (-3·2–-0·5) 0·0 |
| | Low physical activity | (19·4–31·5) 22·1 | (28·2–41·6) 20·0 | (24·4–35·4) 21·0 | (20·2–32·6) 20·2 | (28·1–41·9) 18·6 | (25·0–36·0) 19·4 | (-0·7–0·8) -0·3 | (-0·6–0·7) -0·2 | (-0·4–0·5) -0·2 |
| | Environmental/occupational risks | (14·0–33·3) 21·3 | (12·5–31·0) 20·9 | (13·3–32·2) 21·1 | (13·4–30·1) 21·0 | (12·3–28·4) 20·5 | (12·8–29·3) 20·8 | (-0·9–0·4) 0·0 | (-0·9–0·5) -0·1 | (-0·9–0·4) 0·0 |
| | Air pollution | (6·1–47·3) 17·9 | (6·0–46·0) 17·4 | (6·0–46·7) 17·7 | (9·9–43·7) 17·4 | (9·6–42·7) 16·8 | (9·7–43·2) 17·1 | (-1·6–2·5) -0·1 | (-1·6–2·4) -0·1 | (-1·6–2·5) -0·1 |
| | Particulate matter pollution | (4·1–50·7) 24·4 | (4·0–49·3) 24·3 | (4·0–50·0) 24·3 | (9·3–46·8) 24·2 | (9·1–45·4) 24·2 | (9·2–46·1) 24·2 | (-1·9–3·0) 0·0 | (-1·9–2·9) 0·0 | (-1·9–2·9) 0·0 |
| | Ambient particulate matter pollution | (5·7–61·5) 0·6 | (5·7–61·3) 0·7 | (5·7–61·4) 0·7 | (12·5–57·5) 0·1 | (12·5–57·1) 0·1 | (12·5–57·3) 0·1 | (-1·9–3·3) -5·8 | (-1·9–3·3) -5·9 | (-1·9–3·3) -5·8 |
| | Household air pollution from solid fuels | (0·1–1·8) 28·7 | (0·2–2·2) 28·7 | (0·1–2·0) 28·7 | (0·0–0·5) 30·3 | (0·0–0·8) 30·3 | (0·0–0·7) 30·3 | (-28·1–-0·4) 0·2 | (-28·0–-0·4) 0·2 | (-28·1–-0·4) 0·2 |
| | Non-optimal temperature | (27·2–30·2) 28·5 | (27·2–30·2) 28·5 | (27·2–30·2) 28·5 | (28·7–32·6) 34·7 | (28·7–32·6) 34·7 | (28·7–32·6) 34·7 | (0·0–0·4) 0·6 | (0·0–0·4) 0·6 | (0·0–0·4) 0·6 |
| | High temperature | (22·9–32·8) 25·4 | (22·9–32·8) 25·4 | (22·9–32·8) 25·4 | (29·2–39·8) 25·0 | (29·2–39·7) 25·0 | (29·2–39·7) 25·0 | (0·4–0·8) 0·0 | (0·4–0·8) 0·0 | (0·4–0·8) 0·0 |
| | Low temperature | (24·0–27·8) 32·1 | (24·0–27·8) 26·4 | (24·0–27·8) 29·2 | (23·7–27·0) 24·8 | (23·7–27·0) 21·4 | (23·7–27·0) 23·1 | (-0·1–0·0) -0·8 | (-0·1–0·0) -0·6 | (-0·1–0·0) -0·7 |
| | Other environmental risks | (9·5–41·0) 38·9 | (8·9–34·0) 30·6 | (9·2–37·5) 34·6 | (8·4–32·1) 28·2 | (8·1–28·1) 23·2 | (8·3–30·2) 25·7 | (-1·1–-0·4) -1·0 | (-1·0–-0·3) -0·8 | (-1·0–-0·4) -0·9 |
| | Lead exposure | (5·2–47·9) | (4·2–38·3) | (4·7–43·0) | (3·3–35·7) | (2·9–29·3) | (3·1–32·5) | (-1·3–-0·7) | (-1·2–-0·6) | (-1·2–-0·7) |
| **High-income North America** | | | | | | | | | | |
| | | 23·9 | 23·4 | 23·7 | 25·2 | 24·7 | 25·0 | 0·2 | 0·2 | 0·2 |
| | All risk factors | (20·3–26·4) 26·8 | (20·0–25·2) 25·4 | (20·4–25·9) 26·1 | (21·4–27·9) 36·3 | (21·0–26·7) 36·0 | (21·1–27·3) 36·2 | (0·0–0·3) 0·9 | (0·0–0·3) 1·1 | (0·0–0·3) 1·0 |
| | Metabolic risks | (24·8–29·1) 12·1 | (23·6–27·5) 10·7 | (24·3–28·3) 11·4 | (34·3–38·9) 20·4 | (33·7–38·8) 19·3 | (34·0–39·0) 19·8 | (0·7–1·2) 1·6 | (0·8–1·4) 1·8 | (0·7–1·3) 1·7 |
| | High fasting plasma glucose | (9·0–17·4) 54·0 | (7·8–15·8) 54·9 | (8·3–16·5) 54·7 | (16·1–27·4) 46·1 | (14·7–27·9) 48·6 | (15·4–27·7) 47·5 | (0·4–2·7) -0·5 | (0·5–3·2) -0·4 | (0·4–3·0) -0·4 |
| | High LDL cholesterol | (46·4–62·8) 23·7 | (46·6–64·5) 19·4 | (46·8–63·4) 21·8 | (37·7–56·2) 23·4 | (40·0–58·0) 16·4 | (38·6–57·1) 20·0 | (-1·1–0·1) 0·0 | (-1·0–0·2) -0·5 | (-1·1–0·1) -0·3 |
| | High systolic blood pressure | (15·8–32·1) 29·4 | (13·1–27·1) 28·1 | (14·6–29·7) 28·8 | (18·8–27·7) 41·0 | (12·5–20·4) 40·7 | (15·7–23·9) 40·8 | (-0·8–0·9) 1·0 | (-1·3–0·4) 1·1 | (-1·0–0·7) 1·1 |
| | High body-mass index | (27·2–31·9) 2·5 | (26·3–30·2) 2·7 | (26·8–31·0) 2·6 | (38·2–43·3) 2·5 | (38·3–43·3) 2·7 | (38·4–43·2) 2·6 | (0·8–1·3) 0·0 | (0·9–1·4) 0·0 | (0·8–1·3) 0·0 |
| | Kidney dysfunction | (1·5–4·3) 25·2 | (1·7–4·6) 25·5 | (1·6–4·4) 25·4 | (1·6–4·3) 22·7 | (1·7–4·6) 23·8 | (1·7–4·5) 23·3 | (0·0–0·1) -0·3 | (0·0–0·1) -0·2 | (0·0–0·1) -0·3 |
| | Behavioral risks | (20·2–29·8) 33·5 | (21·6–29·4) 29·1 | (21·1–29·7) 31·2 | (18·4–27·1) 22·6 | (19·8–27·9) 19·0 | (19·5–27·4) 20·8 | (-0·5–-0·2) -1·2 | (-0·4–0·0) -1·3 | (-0·4–-0·1) -1·2 |
| | Tobacco | (24·8–45·2) 36·5 | (22·1–40·3) 30·0 | (23·3–42·7) 33·1 | (16·2–34·4) 24·7 | (13·5–30·4) 21·4 | (15·1–31·9) 23·0 | (-1·5–-0·8) -1·2 | (-1·8–-0·7) -1·0 | (-1·6–-0·8) -1·1 |
| | Smoking | (19·1–61·4) 4·5 | (15·2–53·3) 0·4 | (17·3–56·8) 2·4 | (11·9–50·9) 4·1 | (9·8–46·1) 0·5 | (10·9–47·8) 2·3 | (-1·7–-0·6) -0·3 | (-2·1–0·0) 1·2 | (-1·8–-0·4) -0·1 |
| | Chewing tobacco | (2·9–6·5) 38·6 | (0·1–0·7) 36·2 | (1·5–3·4) 37·4 | (2·6–6·2) 26·0 | (0·2–1·1) 21·6 | (1·5–3·4) 23·8 | (-2·1–1·6) -1·2 | (-2·1–4·8) -1·6 | (-2·1–2·1) -1·4 |
| | Secondhand smoke | (36·0–41·4) 15·4 | (33·9–38·5) 12·9 | (34·9–39·9) 14·1 | (22·9–29·5) 14·9 | (20·4–22·9) 13·7 | (22·4–25·5) 14·3 | (-1·6–-0·7) -0·1 | (-1·9–-1·2) 0·2 | (-1·6–-1·1) 0·0 |
| | High alcohol use | (11·2–21·4) 35·0 | (8·9–17·8) 32·3 | (10·3–19·6) 33·6 | (11·1–20·6) 42·4 | (9·6–19·1) 35·9 | (10·5–19·4) 39·1 | (-0·4–0·2) 0·6 | (-0·4–0·7) 0·3 | (-0·3–0·4) 0·5 |
| | Dietary risks | (25·6–45·0) 33·2 | (22·7–42·3) 25·8 | (24·1–43·5) 29·3 | (32·9–53·2) 33·2 | (26·1–46·7) 25·3 | (29·8–49·8) 29·2 | (0·1–1·1) 0·0 | (-0·1–0·8) -0·1 | (0·0–0·9) 0·0 |
| | Diet low in fruits | (27·0–38·0) 21·3 | (19·4–31·1) 21·9 | (23·3–34·2) 21·6 | (26·0–39·2) 25·9 | (18·4–32·1) 23·7 | (22·6–35·6) 24·8 | (-0·6–0·6) 0·6 | (-1·0–0·9) 0·2 | (-0·8–0·8) 0·4 |
| | Diet low in vegetables | (14·0–25·1) 36·0 | (13·6–25·5) 46·6 | (13·8–25·4) 41·5 | (14·9–32·8) 45·0 | (13·3–30·5) 51·1 | (14·3–31·3) 48·1 | (-0·4–1·3) 0·7 | (-0·6–0·9) 0·3 | (-0·4–1·1) 0·4 |
| | Diet low in legumes | (0·0–49·7) 44·8 | (0·0–62·1) 45·5 | (0·0–56·1) 45·2 | (0·0–63·1) 46·6 | (0·0–69·0) 47·9 | (0·0–66·0) 47·3 | (-0·2–1·6) 0·1 | (-0·4–1·0) 0·2 | (-0·3–1·3) 0·1 |
| | Diet low in whole grains | (36·9–54·3) 20·8 | (36·9–54·4) 22·6 | (36·9–54·3) 21·7 | (37·6–56·5) 8·8 | (38·5–58·6) 9·9 | (38·1–57·5) 9·4 | (-0·7–0·8) -2·6 | (-0·6–0·9) -2·5 | (-0·7–0·8) -2·5 |
| | Diet low in nuts and seeds | (11·0–32·5) | (12·0–34·7) | (11·5–33·6) | (4·2–16·5) | (4·6–18·1) | (4·4–17·3) | (-5·0–0·1) | (-4·8–0·0) | (-4·9–0·0) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| Southern Latin America | | 50·6 | 35·6 | 42·7 | 53·1 | 37·3 | 45·1 | 0·1 | 0·1 | 0·2 |
| | Diet high in red meat | (0·0–70·2) | (0·0–53·9) | (0·0–61·9) | (0·0–75·2) | (0·0–57·7) | (0·0–66·2) | (-0·7–0·9) | (-1·8–1·4) | (-0·7–1·0) |
| | | 47·5 | 32·3 | 39·5 | 61·8 | 54·2 | 57·9 | 0·8 | 1·6 | 1·2 |
| | Diet high in processed meat | (35·7–58·3) | (22·9–43·2) | (30·3–49·3) | (48·4–74·1) | (38·0–73·0) | (45·0–71·5) | (0·0–1·6) | (0·4–2·7) | (0·2–2·1) |
| | | 28·0 | 20·9 | 24·2 | 55·4 | 46·2 | 50·7 | 2·1 | 2·4 | 2·2 |
| | Diet high in sugar-sweetened beverages | (12·2–47·7) | (9·0–38·1) | (10·5–42·1) | (38·3–73·0) | (28·7–66·9) | (33·5–69·6) | (0·2–4·8) | (0·1–5·2) | (0·2–5·0) |
| | | 18·0 | 31·7 | 25·2 | 12·8 | 17·1 | 15·0 | -1·0 | -1·9 | -1·6 |
| | Diet low in fiber | (9·4–28·4) | (17·0–43·5) | (13·5–36·0) | (6·3–22·2) | (6·5–31·9) | (8·8–20·9) | (-3·2–0·9) | (-4·9–0·2) | (-2·9–0·1) |
| | | 28·7 | 36·2 | 32·6 | 24·2 | 31·9 | 28·1 | -0·5 | -0·4 | -0·5 |
| | Diet low in seafood omega-3 fatty acids | (14·1–43·0) | (21·6–50·4) | (18·0–46·9) | (9·7–40·0) | (16·3–47·5) | (13·1–43·4) | (-3·6–1·6) | (-2·6–1·3) | (-3·0–1·4) |
| | | 34·5 | 30·4 | 32·4 | 16·4 | 14·2 | 15·3 | -2·3 | -2·3 | -2·3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (21·7–47·4) | (18·8–42·6) | (20·1–44·9) | (9·4–25·2) | (8·0–21·5) | (8·6–23·3) | (-3·7–-0·9) | (-3·6–-1·1) | (-3·6–-1·0) |
| | | 88·9 | 86·0 | 87·4 | 0·0 | 0·0 | 0·0 | -26·9 | -27·3 | -27·1 |
| | Diet high in trans fatty acids | (70·5–99·2) | (65·9–98·8) | (68·1–99·0) | (0·0–0·0) | (0·0–0·0) | (0·0–0·0) | (-27·7–-25·9) | (-28·3–-26·2) | (-28·0–-26·0) |
| | | 21·7 | 21·5 | 21·6 | 37·6 | 22·0 | 29·7 | 1·7 | 0·1 | 1·0 |
| | Diet high in sodium | (0·7–54·4) | (0·2–52·7) | (0·5–54·0) | (8·4–68·6) | (0·3–51·6) | (4·7–59·9) | (0·4–8·5) | (-4·9–8·8) | (0·0–8·6) |
| | | 13·0 | 21·0 | 17·2 | 14·2 | 24·8 | 19·5 | 0·3 | 0·5 | 0·4 |
| | Low physical activity | (8·8–17·8) | (15·6–26·8) | (12·7–21·8) | (9·6–19·0) | (19·1–31·3) | (15·0–24·4) | (-0·5–1·2) | (-0·3–1·3) | (-0·3–1·1) |
| | | 21·0 | 18·8 | 19·9 | 15·3 | 13·9 | 14·6 | -1·0 | -0·9 | -0·9 |
| | Environmental/occupational risks | (12·9–32·7) | (11·7–30·6) | (12·3–31·6) | (9·4–24·1) | (8·5–22·3) | (9·0–23·2) | (-1·5–-0·4) | (-1·5–-0·3) | (-1·5–-0·4) |
| | | 23·2 | 22·7 | 23·0 | 9·5 | 9·3 | 9·4 | -2·7 | -2·7 | -2·7 |
| | Air pollution | (7·6–48·2) | (7·4–47·1) | (7·5–47·6) | (2·6–24·4) | (2·5–24·1) | (2·5–24·3) | (-5·6–-0·7) | (-5·6–-0·7) | (-5·6–-0·7) |
| | | 17·3 | 16·8 | 17·0 | 5·9 | 5·8 | 5·8 | -3·2 | -3·2 | -3·2 |
| | Particulate matter pollution | (5·8–48·6) | (5·6–46·9) | (5·7–47·7) | (2·3–15·8) | (2·2–15·2) | (2·2–15·5) | (-5·9–-0·6) | (-5·9–-0·7) | (-5·9–-0·6) |
| | | 24·1 | 24·2 | 24·2 | 8·1 | 8·1 | 8·1 | -3·3 | -3·3 | -3·3 |
| | Ambient particulate matter pollution | (8·0–60·3) | (8·1–60·4) | (8·0–60·3) | (3·1–23·0) | (3·1–22·3) | (3·1–22·7) | (-5·9–-0·6) | (-5·9–-0·6) | (-5·9–-0·6) |
| | | 0·0 | 0·0 | 0·0 | 0·0 | 0·0 | 0·0 | 0·3 | 0·1 | 0·2 |
| | Household air pollution from solid fuels | (0·0–0·2) | (0·0–0·3) | (0·0–0·3) | (0·0–0·2) | (0·0–0·3) | (0·0–0·3) | (-12·2–1·0) | (-12·2–1·0) | (-12·2–1·0) |
| | | 28·7 | 28·7 | 28·7 | 30·3 | 30·2 | 30·3 | 0·2 | 0·2 | 0·2 |
| | Non-optimal temperature | (26·6–31·1) | (26·5–31·2) | (26·6–31·1) | (28·8–32·4) | (28·8–32·3) | (28·8–32·3) | (-0·1–0·4) | (-0·1–0·4) | (-0·1–0·4) |
| | | 27·4 | 27·4 | 27·4 | 33·6 | 33·5 | 33·5 | 0·6 | 0·6 | 0·6 |
| | High temperature | (23·4–31·2) | (23·3–31·2) | (23·3–31·2) | (29·7–36·7) | (29·5–36·6) | (29·6–36·7) | (0·4–0·9) | (0·4–0·9) | (0·4–0·9) |
| | | 25·4 | 25·4 | 25·4 | 24·7 | 24·6 | 24·7 | -0·1 | -0·1 | -0·1 |
| | Low temperature | (23·8–26·6) | (23·8–26·6) | (23·8–26·6) | (23·3–26·0) | (23·3–25·9) | (23·3–25·9) | (-0·2–0·0) | (-0·2–0·0) | (-0·2–0·0) |
| | | 33·0 | 26·2 | 29·4 | 25·0 | 22·0 | 23·5 | -0·8 | -0·5 | -0·7 |
| | Other environmental risks | (12·7–41·0) | (11·8–33·6) | (12·3–37·2) | (10·9–32·0) | (10·6–28·3) | (10·7–30·3) | (-1·3–-0·4) | (-0·9–-0·3) | (-1·1–-0·4) |
| | | 35·7 | 25·8 | 30·6 | 24·3 | 19·9 | 22·0 | -1·2 | -0·8 | -1·0 |
| | Lead exposure | (4·5–44·1) | (3·3–32·3) | (3·9–37·7) | (2·5–29·7) | (1·9–24·7) | (2·2–27·0) | (-1·9–-0·9) | (-1·7–-0·4) | (-1·8–-0·7) |
| | | 27·1 | 25·8 | 26·5 | 26·6 | 26·7 | 26·7 | -0·1 | 0·1 | 0·0 |
| | All risk factors | (22·3–30·0) | (21·5–28·4) | (21·5–28·9) | (22·9–28·9) | (22·9–28·7) | (23·1–28·9) | (-0·2–0·1) | (-0·1–0·3) | (-0·2–0·2) |
| | | 22·1 | 22·2 | 22·1 | 31·5 | 32·6 | 32·1 | 1·1 | 1·2 | 1·1 |
| | Metabolic risks | (18·9–25·6) | (18·5–25·8) | (18·7–25·7) | (28·1–34·9) | (29·5–35·8) | (28·8–35·1) | (0·5–1·7) | (0·6–1·8) | (0·6–1·7) |
| | | 11·4 | 10·4 | 10·9 | 15·6 | 14·3 | 15·0 | 1·0 | 1·0 | 1·0 |
| | High fasting plasma glucose | (8·2–17·4) | (7·4–15·7) | (7·9–16·6) | (10·8–23·9) | (11·3–18·3) | (11·8–19·9) | (-0·4–2·5) | (-0·1–2·1) | (-0·2–2·1) |
| | | 47·5 | 50·3 | 49·1 | 48·8 | 50·2 | 49·6 | 0·1 | 0·0 | 0·0 |
| | High LDL cholesterol | (38·8–57·6) | (38·8–63·9) | (38·8–60·5) | (39·2–60·6) | (44·4–56·9) | (42·8–57·2) | (-0·7–0·8) | (-0·6–0·6) | (-0·6–0·6) |
| | | 24·5 | 17·7 | 21·1 | 32·3 | 26·7 | 29·5 | 0·8 | 1·2 | 1·0 |
| | High systolic blood pressure | (11·1–42·5) | (8·4–32·5) | (9·8–37·3) | (23·1–43·5) | (19·4–36·5) | (21·5–39·9) | (-0·9–3·0) | (-0·6–3·5) | (-0·7–3·2) |
| | | 24·1 | 24·5 | 24·3 | 36·1 | 37·5 | 36·8 | 1·2 | 1·3 | 1·3 |
| | High body-mass index | (19·2–29·4) | (19·6–29·7) | (19·5–29·7) | (31·2–40·1) | (33·3–41·8) | (32·1–40·9) | (0·5–2·0) | (0·6–2·0) | (0·6–2·0) |
| | | 1·8 | 1·9 | 1·9 | 1·8 | 2·0 | 1·9 | 0·1 | 0·1 | 0·1 |
| | Kidney dysfunction | (1·1–3·5) | (1·2–3·7) | (1·1–3·6) | (1·1–3·6) | (1·2–3·8) | (1·1–3·7) | (0·0–0·2) | (-0·1–0·2) | (0·0–0·2) |
| | | 24·8 | 23·8 | 24·3 | 22·6 | 22·1 | 22·4 | -0·3 | -0·2 | -0·2 |
| | Behavioral risks | (19·5–29·6) | (19·1–27·8) | (19·7–28·4) | (18·5–26·4) | (18·4–25·4) | (18·3–25·6) | (-0·5–0·0) | (-0·6–0·1) | (-0·5–0·0) |
| | | 32·8 | 28·0 | 30·3 | 26·3 | 21·8 | 24·0 | -0·7 | -0·8 | -0·7 |
| | Tobacco | (25·5–44·3) | (22·2–39·1) | (23·8–41·6) | (20·2–36·0) | (17·3–31·1) | (18·8–33·9) | (-1·1–-0·2) | (-1·4–-0·1) | (-1·2–-0·2) |
| | | 30·5 | 19·8 | 24·9 | 23·0 | 15·6 | 19·2 | -0·9 | -0·7 | -0·8 |
| | Smoking | (15·4–55·9) | (8·4–43·4) | (11·9–50·4) | (11·2–44·2) | (6·5–36·2) | (8·6–38·4) | (-1·8–-0·1) | (-2·7–1·3) | (-2·1–0·3) |
| | | 0·2 | 0·3 | 0·3 | 0·2 | 0·3 | 0·2 | -0·3 | -0·2 | -0·3 |
| | Chewing tobacco | (0·1–0·5) | (0·1–0·6) | (0·1–0·5) | (0·1–0·4) | (0·1–0·5) | (0·1–0·5) | (-3·5–3·0) | (-3·5–3·4) | (-3·5–3·2) |
| | | 45·9 | 46·6 | 46·2 | 38·9 | 35·6 | 37·2 | -0·5 | -0·8 | -0·7 |
| | Secondhand smoke | (41·8–50·0) | (42·6–50·3) | (42·2–50·1) | (34·5–43·8) | (31·6–40·0) | (33·0–41·8) | (-1·0–-0·1) | (-1·3–-0·4) | (-1·1–-0·2) |
| | | 17·1 | 14·2 | 15·6 | 15·3 | 11·5 | 13·4 | -0·3 | -0·6 | -0·5 |
| | High alcohol use | (12·5–24·2) | (9·5–19·8) | (10·9–21·9) | (11·2–20·9) | (7·8–15·4) | (9·5–17·7) | (-0·7–0·0) | (-1·4–0·0) | (-1·0–0·0) |
| | | 37·8 | 32·9 | 35·3 | 40·7 | 35·7 | 38·1 | 0·2 | 0·2 | 0·2 |
| | Dietary risks | (27·0–47·7) | (22·6–41·8) | (24·5–44·7) | (30·0–51·8) | (24·9–46·0) | (27·4–48·1) | (-0·3–0·8) | (-0·3–0·7) | (-0·2–0·8) |
| | | 27·4 | 19·6 | 23·3 | 31·7 | 25·0 | 28·2 | 0·4 | 0·7 | 0·6 |
| | Diet low in fruits | (21·6–32·0) | (13·6–24·3) | (17·8–28·0) | (24·0–38·2) | (18·1–31·2) | (21·0–34·3) | (-0·3–1·3) | (-0·2–1·7) | (-0·2–1·4) |
| | | 32·5 | 29·1 | 30·8 | 30·5 | 29·0 | 29·7 | -0·2 | 0·0 | -0·1 |
| | Diet low in vegetables | (20·1–38·7) | (17·0–35·8) | (18·5–37·1) | (18·7–37·6) | (17·4–34·6) | (18·0–35·4) | (-0·9–0·5) | (-0·7–0·6) | (-0·7–0·5) |
| | | 61·9 | 65·4 | 63·7 | 53·2 | 58·4 | 55·9 | -0·5 | -0·3 | -0·4 |
| | Diet low in legumes | (0·0–79·1) | (0·0–82·2) | (0·0–80·7) | (0·0–69·8) | (0·0–73·6) | (0·0–71·4) | (-1·2–0·3) | (-0·9–0·2) | (-1·0–0·2) |
| | | 39·4 | 41·3 | 40·4 | 39·4 | 43·5 | 41·6 | 0·0 | 0·2 | 0·1 |
| | Diet low in whole grains | (30·8–48·7) | (32·6–49·6) | (31·8–49·2) | (28·3–52·7) | (34·5–51·9) | (32·6–51·3) | (-1·1–1·1) | (-0·5–0·9) | (-0·7–0·9) |
| | | 82·2 | 82·3 | 82·2 | 68·8 | 69·1 | 69·0 | -0·5 | -0·5 | -0·5 |
| | Diet low in nuts and seeds | (79·1–85·8) | (79·2–86·1) | (79·1–85·9) | (60·9–76·3) | (61·3–76·1) | (61·1–76·2) | (-0·9–-0·2) | (-0·9–-0·2) | (-0·9–-0·2) |
| | | 50·4 | 44·2 | 47·1 | 57·0 | 46·7 | 51·6 | 0·4 | 0·2 | 0·3 |
| | Diet high in red meat | (0·0–68·8) | (0·0–62·0) | (0·0–65·1) | (0·0–77·8) | (0·0–68·0) | (0·0–72·4) | (-0·1–0·9) | (-0·4–0·6) | (-0·2–0·7) |
| | | 15·2 | 12·5 | 13·8 | 26·2 | 21·8 | 23·9 | 1·7 | 1·7 | 1·7 |
| | Diet high in processed meat | (9·3–23·6) | (7·9–19·1) | (8·6–21·3) | (17·1–39·2) | (14·9–30·9) | (15·7–34·6) | (-0·1–3·4) | (0·1–3·3) | (0·0–3·3) |
| | | 30·6 | 22·5 | 26·3 | 47·6 | 36·2 | 41·7 | 1·3 | 1·4 | 1·4 |
| | Diet high in sugar-sweetened beverages | (13·6–49·8) | (9·5–40·3) | (11·4–44·6) | (29·3–68·4) | (20·4–54·8) | (24·4–59·7) | (-0·8–4·3) | (-0·9–4·7) | (-0·8–4·7) |
| | | 24·4 | 29·5 | 27·0 | 17·8 | 22·1 | 20·0 | -1·0 | -0·9 | -0·9 |
| | Diet low in fiber | (12·1–38·2) | (15·2–44·3) | (13·8–41·4) | (6·4–34·3) | (8·5–40·0) | (7·5–37·3) | (-4·2–1·8) | (-3·9–1·6) | (-4·0–1·7) |
| | | 48·6 | 55·9 | 52·4 | 35·3 | 43·2 | 39·4 | -1·0 | -0·8 | -0·9 |
| | Diet low in seafood omega-3 fatty acids | (34·7–60·8) | (43·3–65·9) | (39·2–63·6) | (16·6–51·8) | (24·8–58·3) | (20·9–54·9) | (-3·0–0·5) | (-2·3–0·4) | (-2·6–0·4) |
| | | 73·5 | 70·8 | 72·1 | 60·3 | 56·3 | 58·2 | -0·6 | -0·7 | -0·6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (45·1–87·3) | (43·5–85·2) | (44·3–86·2) | (36·6–78·1) | (35·6–74·4) | (36·1–76·0) | (-1·4–0·0) | (-1·6–0·0) | (-1·5–0·0) |
| | | 33·0 | 30·6 | 31·7 | 19·8 | 18·6 | 19·2 | -1·5 | -1·5 | -1·5 |
| | Diet high in trans fatty acids | (21·3–45·3) | (19·8–42·1) | (20·5–43·8) | (12·7–28·0) | (12·1–26·0) | (12·7–26·9) | (-3·0–0·0) | (-3·0–0·0) | (-3·0–0·0) |
| | | 40·1 | 25·2 | 32·3 | 42·6 | 25·5 | 33·7 | 0·2 | 0·0 | 0·1 |
| | Diet high in sodium | (6·4–71·1) | (1·9–52·8) | (4·4–60·8) | (7·6–76·7) | (1·5–57·2) | (4·2–64·7) | (-2·8–4·2) | (-3·3–4·2) | (-2·8–4·0) |
| | | 8·8 | 16·3 | 12·8 | 8·5 | 18·9 | 14·0 | -0·1 | 0·4 | 0·3 |
| | Low physical activity | (6·0–12·3) | (11·8–21·4) | (9·5–16·6) | (5·7–12·6) | (14·0–24·6) | (10·5–18·5) | (-1·1–1·0) | (-0·3–1·3) | (-0·3–0·9) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 32·1 | 29·2 | 30·6 | 22·2 | 20·3 | 21·2 | -1·1 | -1·1 | -1·1 |
| | Environmental/occupational risks | (22·2–43·2) 29·7 | (20·4–40·7) 29·4 | (21·3–41·8) 29·6 | (14·4–32·6) 22·1 | (13·1–30·7) 21·5 | (13·7–31·5) 21·8 | (-1·6–-0·6) -0·9 | (-1·6–-0·6) -0·9 | (-1·6–-0·6) -0·9 |
| | Air pollution | (13·9–56·3) 29·0 | (13·9–55·8) 28·6 | (13·9–56·0) 28·8 | (11·1–47·1) 20·2 | (10·7–46·7) 19·5 | (10·9–46·7) 19·8 | (-2·0–-0·1) -1·1 | (-2·0–-0·0) -1·2 | (-2·0–-0·0) -1·1 |
| | Particulate matter pollution | (13·2–66·9) 26·9 | (13·2–66·9) 25·4 | (13·2–66·9) 26·1 | (11·2–57·1) 28·1 | (10·8–55·2) 28·0 | (11·0–56·1) 28·1 | (-2·2–-0·1) 0·1 | (-2·3–-0·1) 0·3 | (-2·2–-0·1) 0·2 |
| | Ambient particulate matter pollution | (9·7–65·7) 9·5 | (8·7–63·5) 10·8 | (9·2–64·3) 10·2 | (15·0–63·8) 0·2 | (15·0–63·9) 0·3 | (15·0–63·9) 0·3 | (-1·5–2·2) -11·1 | (-1·3–2·5) -10·7 | (-1·4–2·4) -10·9 |
| | Household air pollution from solid fuels | (4·0–25·3) 22·1 | (5·0–27·2) 22·1 | (4·5–26·2) 22·1 | (0·0–1·2) 22·9 | (0·0–1·5) 22·9 | (0·0–1·4) 22·9 | (-40·8–-7·2) 0·1 | (-40·7–-7·1) 0·1 | (-40·6–-7·1) 0·1 |
| | Non-optimal temperature | (20·5–24·9) 18·7 | (20·5–24·9) 18·7 | (20·5–24·9) 18·7 | (21·5–24·8) 23·9 | (21·5–24·8) 24·1 | (21·5–24·8) 24·0 | (-0·1–0·3) 0·7 | (-0·1–0·3) 0·8 | (-0·1–0·3) 0·8 |
| | High temperature | (15·7–22·0) 21·6 | (15·7–22·0) 21·6 | (15·7–22·0) 21·6 | (20·8–28·4) 20·3 | (21·0–28·6) 20·3 | (20·9–28·5) 20·3 | (0·5–1·0) -0·2 | (0·5–1·0) -0·2 | (0·5–1·0) -0·2 |
| | Low temperature | (19·7–24·7) 41·9 | (19·7–24·7) 32·3 | (19·7–24·7) 36·9 | (18·4–23·1) 34·8 | (18·4–23·1) 30·1 | (18·4–23·1) 32·4 | (-0·3–-0·1) -0·6 | (-0·3–-0·1) -0·2 | (-0·3–-0·1) -0·4 |
| | Other environmental risks | (10·5–56·6) 52·8 | (9·5–44·6) 38·8 | (10·0–50·3) 45·6 | (8·5–47·6) 42·5 | (7·8–43·1) 35·7 | (8·1–45·3) 39·0 | (-1·0–0·0) -0·7 | (-0·8–0·4) -0·3 | (-0·9–0·1) -0·5 |
| | Lead exposure | (8·5–73·8) | (7·0–55·7) | (7·7–64·0) | (6·0–58·6) | (5·0–49·4) | (5·5–53·8) | (-1·2–0·0) | (-1·0–0·4) | (-1·1–0·2) |
| **Western Europe** | | | | | | | | | | |
| | | 25·3 | 23·2 | 24·3 | 25·2 | 24·5 | 24·9 | 0·0 | 0·2 | 0·1 |
| | All risk factors | (21·5–28·3) 22·7 | (19·2–25·4) 19·6 | (20·4–26·9) 21·2 | (21·6–27·6) 28·0 | (21·1–26·3) 23·9 | (21·5–27·0) 26·0 | (-0·2–0·1) 0·6 | (0·0–0·3) 0·6 | (-0·1–0·2) 0·6 |
| | Metabolic risks | (20·0–25·7) 15·2 | (17·0–22·7) 10·9 | (18·6–24·1) 13·0 | (25·4–30·8) 18·0 | (21·4–26·5) 14·1 | (23·4–28·7) 16·0 | (0·2–1·2) 0·5 | (0·1–1·2) 0·8 | (0·1–1·2) 0·6 |
| | High fasting plasma glucose | (10·7–22·6) 66·7 | (7·7–16·5) 64·1 | (9·2–19·5) 65·5 | (13·5–24·2) 53·5 | (10·9–19·5) 53·9 | (12·4–21·7) 53·8 | (-0·8–2·0) -0·7 | (-0·5–2·1) -0·5 | (-0·7–2·0) -0·6 |
| | High LDL cholesterol | (60·1–73·2) 41·5 | (57·3–71·3) 31·5 | (58·9–72·3) 36·6 | (47·8–59·5) 38·7 | (48·3–60·5) 27·7 | (48·2–60·1) 33·2 | (-1·1–-0·3) -0·2 | (-1·0–-0·1) -0·4 | (-1·1–-0·2) -0·3 |
| | High systolic blood pressure | (34·4–47·9) 22·9 | (25·0–37·6) 20·5 | (29·8–42·8) 21·7 | (31·1–48·9) 30·2 | (21·6–37·0) 26·2 | (26·4–42·9) 28·2 | (-0·6–0·2) 0·8 | (-0·9–0·1) 0·7 | (-0·7–0·2) 0·8 |
| | High body-mass index | (19·1–26·9) 2·0 | (16·9–24·6) 2·1 | (18·2–25·8) 2·1 | (26·4–34·1) 1·9 | (22·6–29·9) 2·0 | (24·7–32·1) 2·0 | (0·3–1·5) -0·1 | (0·1–1·4) -0·1 | (0·2–1·5) -0·1 |
| | Kidney dysfunction | (1·3–3·6) 27·9 | (1·3–3·7) 25·9 | (1·3–3·7) 26·9 | (1·2–3·4) 24·5 | (1·2–3·5) 23·5 | (1·2–3·5) 24·0 | (-0·2–-0·1) -0·4 | (-0·2–-0·1) -0·3 | (-0·2–-0·1) -0·3 |
| | Behavioral risks | (22·4–33·1) 37·9 | (21·8–29·9) 32·4 | (22·1–31·4) 35·0 | (19·9–28·9) 26·9 | (19·8–26·6) 22·9 | (20·2–27·7) 24·8 | (-0·6–-0·2) -1·0 | (-0·5–-0·1) -1·1 | (-0·5–-0·2) -1·0 |
| | Tobacco | (28·9–49·5) 42·9 | (26·1–42·5) 29·1 | (27·5–45·7) 35·6 | (20·5–38·0) 27·5 | (17·6–32·7) 21·6 | (19·1–35·2) 24·5 | (-1·3–-0·7) -1·4 | (-1·4–-0·7) -0·9 | (-1·3–-0·7) -1·1 |
| | Smoking | (22·5–68·8) 0·2 | (15·7–51·1) 0·1 | (19·1–59·2) 0·2 | (13·8–53·1) 0·4 | (11·1–42·7) 0·2 | (12·6–45·8) 0·3 | (-1·8–-0·8) 1·3 | (-1·4–-0·4) 1·0 | (-1·5–-0·7) 1·2 |
| | Chewing tobacco | (0·1–0·5) 41·3 | (0·1–0·3) 44·4 | (0·1–0·4) 42·9 | (0·1–0·7) 33·2 | (0·1–0·4) 29·1 | (0·1–0·6) 31·2 | (-1·8–4·7) -0·7 | (-2·3–4·6) -1·3 | (-2·0–4·7) -1·0 |
| | Secondhand smoke | (37·9–44·8) 19·4 | (41·3–47·6) 16·9 | (39·6–46·2) 18·1 | (30·0–37·0) 18·0 | (26·3–32·4) 14·7 | (28·1–34·7) 16·3 | (-1·1–-0·2) -0·2 | (-1·7–-0·9) -0·4 | (-1·4–-0·5) -0·3 |
| | High alcohol use | (14·1–26·7) 38·0 | (11·7–24·0) 31·8 | (13·3–25·5) 34·8 | (12·9–24·2) 40·1 | (10·3–20·2) 33·1 | (11·7–22·3) 36·5 | (-0·5–0·1) 0·2 | (-1·0–0·1) 0·1 | (-0·7–0·0) 0·1 |
| | Dietary risks | (27·9–48·2) 30·8 | (22·9–41·1) 23·5 | (25·8–44·4) 27·0 | (29·3–50·1) 31·4 | (24·1–42·3) 24·1 | (26·5–46·0) 27·7 | (-0·3–0·7) 0·1 | (-0·2–0·5) 0·1 | (-0·3–0·6) 0·1 |
| | Diet low in fruits | (25·2–35·8) 27·2 | (18·1–28·3) 25·2 | (21·6–32·1) 26·2 | (25·0–36·2) 27·0 | (18·1–28·8) 25·4 | (21·5–32·3) 26·2 | (-0·6–0·8) 0·0 | (-0·8–1·0) 0·0 | (-0·6–0·8) 0·0 |
| | Diet low in vegetables | (17·2–32·7) 53·6 | (16·4–30·0) 57·5 | (16·8–31·3) 55·7 | (16·2–32·3) 53·2 | (15·7–29·5) 57·6 | (15·9–31·1) 55·4 | (-0·7–0·7) 0·0 | (-0·7–0·7) 0·0 | (-0·7–0·7) 0·0 |
| | Diet low in legumes | (0·0–71·0) 46·7 | (0·0–75·1) 45·5 | (0·0–73·1) 46·1 | (0·0–71·5) 49·2 | (0·0–76·2) 48·9 | (0·0–73·9) 49·1 | (-0·9–0·8) 0·2 | (-0·8–0·8) 0·2 | (-0·8–0·8) 0·2 |
| | Diet low in whole grains | (36·8–56·9) 44·7 | (35·9–54·8) 45·2 | (36·3–55·8) 45·0 | (39·4–60·9) 34·8 | (38·5–59·5) 34·7 | (38·9–60·0) 34·7 | (-0·7–1·0) -0·8 | (-0·5–1·0) -0·8 | (-0·6–1·0) -0·8 |
| | Diet low in nuts and seeds | (34·5–56·3) 55·3 | (35·0–56·7) 41·1 | (34·7–56·5) 47·9 | (20·9–48·1) 53·8 | (22·5–47·8) 37·5 | (21·8–47·8) 45·5 | (-2·3–0·5) -0·1 | (-2·2–0·4) -0·3 | (-2·2–0·4) -0·2 |
| | Diet high in red meat | (0·0–75·6) 38·4 | (0·0–60·7) 30·7 | (0·0–68·2) 34·4 | (0·0–74·7) 47·8 | (0·0–56·1) 39·7 | (0·0–65·4) 43·7 | (-0·6–0·4) 0·7 | (-2·2–0·4) 0·8 | (-1·0–0·4) 0·7 |
| | Diet high in processed meat | (23·9–55·6) 27·2 | (18·8–44·8) 18·6 | (21·3–50·3) 22·7 | (36·1–58·9) 39·4 | (29·2–47·9) 28·1 | (32·5–52·9) 33·7 | (-0·7–2·1) 1·1 | (-0·5–2·2) 1·3 | (-0·6–2·2) 1·2 |
| | Diet high in sugar-sweetened beverages | (11·3–49·1) 17·3 | (7·8–35·5) 21·5 | (9·5–42·1) 19·5 | (21·0–61·8) 16·6 | (15·5–48·3) 20·7 | (18·2–54·7) 18·7 | (-1·4–4·7) -0·1 | (-1·3–5·0) -0·1 | (-1·3–4·9) -0·1 |
| | Diet low in fiber | (7·8–31·1) 22·1 | (11·1–35·6) 29·4 | (9·4–33·4) 25·9 | (7·0–31·1) 13·3 | (9·8–35·5) 19·3 | (8·6–33·5) 16·4 | (-3·4–3·1) -1·5 | (-2·8–2·5) -1·3 | (-3·1–2·7) -1·4 |
| | Diet low in seafood omega-3 fatty acids | (10·3–35·8) 59·0 | (16·0–44·0) 56·9 | (13·3–40·0) 57·9 | (3·5–27·7) 56·7 | (5·8–35·5) 53·2 | (4·5–31·7) 54·9 | (-4·9–1·5) -0·1 | (-4·5–1·2) -0·2 | (-4·6–1·3) -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (34·9–74·8) 46·9 | (34·2–72·3) 43·7 | (34·5–73·4) 45·3 | (34·6–74·7) 7·2 | (32·7–71·3) 6·1 | (33·6–73·0) 6·6 | (-1·0–0·6) -5·7 | (-1·2–0·6) -6·0 | (-1·1–0·6) -5·8 |
| | Diet high in trans fatty acids | (31·1–61·7) 34·9 | (28·8–58·5) 17·6 | (29·9–59·7) 25·9 | (4·6–10·0) 38·7 | (4·0–8·6) 18·9 | (4·3–9·3) 28·6 | (-7·1–-4·1) 0·3 | (-7·3–-4·3) 0·2 | (-7·2–-4·2) 0·3 |
| | Diet high in sodium | (3·6–66·9) 15·1 | (0·4–49·0) 25·5 | (1·9–57·7) 20·5 | (5·2–73·6) 15·8 | (0·5–51·8) 26·9 | (2·9–62·2) 21·5 | (-2·8–5·2) 0·1 | (-4·1–5·4) 0·2 | (-2·8–5·2) 0·1 |
| | Low physical activity | (12·2–18·0) 25·0 | (21·7–29·1) 22·7 | (17·1–23·4) 23·8 | (12·6–19·0) 17·7 | (22·6–31·2) 16·2 | (17·9–25·3) 17·0 | (-0·2–0·5) -1·0 | (-0·1–0·5) -1·0 | (-0·1–0·4) -1·0 |
| | Environmental/occupational risks | (16·4–35·7) 28·5 | (14·6–33·4) 28·0 | (15·6–34·4) 28·3 | (11·0–27·5) 12·5 | (10·0–26·0) 12·3 | (10·5–26·7) 12·4 | (-1·6–-0·5) -2·5 | (-1·6–-0·4) -2·5 | (-1·6–-0·4) -2·5 |
| | Air pollution | (11·2–58·2) 24·2 | (11·0–57·5) 23·5 | (11·1–57·8) 23·8 | (5·1–29·0) 9·9 | (5·0–28·6) 9·6 | (5·1–28·8) 9·8 | (-4·4–-0·7) -2·7 | (-4·4–-0·7) -2·7 | (-4·4–-0·7) -2·7 |
| | Particulate matter pollution | (10·0–63·6) 33·4 | (9·7–63·2) 33·4 | (9·8–63·4) 33·4 | (4·6–26·8) 13·5 | (4·5–25·8) 13·5 | (4·5–26·3) 13·5 | (-4·3–-0·8) -2·7 | (-4·3–-0·8) -2·8 | (-4·3–-0·8) -2·7 |
| | Ambient particulate matter pollution | (13·6–69·9) 0·4 | (13·7–69·7) 0·5 | (13·6–69·8) 0·4 | (6·3–35·7) 0·1 | (6·4–35·3) 0·1 | (6·3–35·4) 0·1 | (-4·4–-0·8) -4·0 | (-4·4–-0·8) -4·1 | (-4·4–-0·8) -4·1 |
| | Household air pollution from solid fuels | (0·1–1·2) 23·0 | (0·1–1·5) 23·0 | (0·1–1·3) 23·0 | (0·0–0·7) 22·9 | (0·0–0·9) 22·9 | (0·0–0·8) 22·9 | (-17·1–0·1) 0·0 | (-17·1–0·1) 0·0 | (-17·1–0·1) 0·0 |
| | Non-optimal temperature | (21·9–24·5) 16·5 | (21·9–24·5) 16·5 | (21·9–24·5) 16·5 | (21·8–24·7) 18·8 | (21·8–24·6) 18·8 | (21·8–24·6) 18·8 | (-0·1–0·1) 0·4 | (-0·1–0·1) 0·4 | (-0·1–0·1) 0·4 |
| | High temperature | (14·0–18·8) 22·8 | (14·0–18·8) 22·8 | (14·0–18·8) 22·8 | (16·3–21·0) 21·8 | (16·3–20·9) 21·8 | (16·3–21·0) 21·8 | (0·1–0·6) -0·1 | (0·1–0·6) -0·1 | (0·1–0·6) -0·1 |
| | Low temperature | (21·5–24·4) 41·8 | (21·5–24·4) 35·4 | (21·5–24·4) 38·5 | (20·3–23·6) 34·2 | (20·3–23·6) 30·4 | (20·3–23·6) 32·2 | (-0·2–0·0) -0·6 | (-0·2–0·0) -0·5 | (-0·2–0·0) -0·5 |
| | Other environmental risks | (18·5–52·4) | (17·6–45·5) | (18·1–48·9) | (16·8–43·9) | (16·3–39·7) | (16·5–41·8) | (-0·9–-0·3) | (-0·7–-0·2) | (-0·8–-0·2) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 43·9 | 34·6 | 39·1 | 33·0 | 27·5 | 30·2 | -0·9 | -0·7 | -0·8 |
| | Lead exposure | (6·0–54·5) | (4·7–42·6) | (5·3–48·7) | (4·0–39·9) | (3·3–33·9) | (3·7–36·8) | (-1·2–-0·7) | (-1·1–-0·5) | (-1·2–-0·6) |
| **Latin America and Caribbean** | | | | | | | | | | |
| | | 23·7 | 22·0 | 22·9 | 22·7 | 22·3 | 22·5 | -0·1 | 0·0 | 0·0 |
| | All risk factors | (19·8–26·1) | (18·2–23·8) | (18·7–24·9) | (19·1–24·8) | (19·2–23·8) | (19·0–24·4) | (-0·3–0·0) | (-0·1–0·2) | (-0·2–0·1) |
| | | 18·9 | 21·8 | 20·4 | 28·7 | 31·5 | 30·1 | 1·3 | 1·1 | 1·2 |
| | Metabolic risks | (16·1–22·5) | (18·6–25·8) | (17·5–24·2) | (26·7–31·2) | (29·4–34·0) | (28·1–32·6) | (0·8–1·8) | (0·6–1·6) | (0·7–1·7) |
| | | 17·8 | 21·0 | 19·5 | 20·0 | 24·1 | 22·1 | 0·4 | 0·4 | 0·4 |
| | High fasting plasma glucose | (10·8–30·3) | (12·2–35·0) | (11·6–32·7) | (13·4–29·9) | (16·3–35·0) | (14·8–32·6) | (-1·5–2·3) | (-1·3–2·5) | (-1·4–2·4) |
| | | 45·7 | 47·7 | 46·8 | 45·5 | 47·8 | 46·7 | 0·0 | 0·0 | 0·0 |
| | High LDL cholesterol | (36·7–56·2) | (36·8–60·9) | (36·8–58·3) | (35·9–56·3) | (38·6–58·5) | (37·5–57·5) | (-0·8–0·7) | (-0·8–0·8) | (-0·8–0·7) |
| | | 29·2 | 23·1 | 26·1 | 34·6 | 25·2 | 29·8 | 0·5 | 0·3 | 0·4 |
| | High systolic blood pressure | (13·8–50·5) | (10·3–43·6) | (12·0–47·0) | (28·5–41·1) | (20·0–30·9) | (24·0–36·1) | (-1·2–2·9) | (-1·7–2·8) | (-1·5–2·9) |
| | | 18·1 | 22·0 | 20·1 | 31·0 | 34·2 | 32·7 | 1·6 | 1·3 | 1·5 |
| | High body-mass index | (15·2–21·6) | (18·4–26·2) | (17·0–23·9) | (28·6–33·1) | (31·9–35·9) | (30·5–34·7) | (1·1–2·1) | (0·8–1·8) | (0·9–1·9) |
| | | 4·3 | 3·6 | 3·9 | 4·4 | 3·7 | 4·0 | 0·1 | 0·1 | 0·1 |
| | Kidney dysfunction | (2·7–6·7) | (2·3–5·7) | (2·4–6·2) | (2·7–6·8) | (2·3–5·8) | (2·5–6·3) | (0·0–0·1) | (0·0–0·1) | (0·0–0·1) |
| | | 19·8 | 17·4 | 18·6 | 17·5 | 15·6 | 16·5 | -0·4 | -0·3 | -0·4 |
| | Behavioral risks | (15·5–23·5) | (13·3–20·2) | (14·2–21·6) | (14·0–20·3) | (12·7–17·7) | (13·4–18·8) | (-0·7–-0·1) | (-0·7–-0·1) | (-0·6–-0·1) |
| | | 27·7 | 22·5 | 25·0 | 16·3 | 11·8 | 14·0 | -1·6 | -2·0 | -1·8 |
| | Tobacco | (21·3–38·3) | (18·7–29·8) | (20·1–33·7) | (12·5–23·7) | (9·5–15·8) | (11·1–19·5) | (-2·0–-1·2) | (-2·4–-1·4) | (-2·2–-1·3) |
| | | 27·5 | 14·2 | 20·7 | 13·4 | 7·0 | 10·0 | -2·2 | -2·2 | -2·2 |
| | Smoking | (14·4–50·5) | (6·8–29·9) | (10·5–39·8) | (6·5–28·9) | (3·4–15·1) | (4·8–21·9) | (-2·9–-1·5) | (-3·0–-1·4) | (-2·9–-1·6) |
| | | 0·6 | 0·5 | 0·5 | 0·7 | 0·4 | 0·6 | 0·1 | -0·1 | 0·0 |
| | Chewing tobacco | (0·3–1·3) | (0·2–1·0) | (0·2–1·1) | (0·3–1·3) | (0·2–0·9) | (0·2–1·1) | (-3·0–3·4) | (-3·4–3·5) | (-3·2–3·4) |
| | | 37·0 | 42·8 | 40·0 | 26·5 | 22·9 | 24·7 | -1·0 | -1·9 | -1·5 |
| | Secondhand smoke | (33·7–40·5) | (39·3–46·4) | (36·6–43·5) | (23·9–29·3) | (19·9–26·7) | (21·9–28·0) | (-1·5–-0·5) | (-2·4–-1·3) | (-1·9–-1·0) |
| | | 9·9 | 3·9 | 6·8 | 10·8 | 5·0 | 7·8 | 0·3 | 0·7 | 0·4 |
| | High alcohol use | (6·8–14·0) | (2·4–5·7) | (4·6–9·5) | (7·9–14·6) | (3·5–6·9) | (5·6–10·6) | (-0·2–0·9) | (-0·1–1·7) | (-0·1–1·1) |
| | | 38·7 | 36·3 | 37·5 | 38·4 | 35·2 | 36·7 | 0·0 | -0·1 | -0·1 |
| | Dietary risks | (28·3–48·2) | (25·9–45·0) | (26·7–46·0) | (26·9–47·9) | (23·5–43·5) | (25·5–46·2) | (-0·6–0·5) | (-0·7–0·4) | (-0·6–0·4) |
| | | 31·1 | 30·5 | 30·8 | 30·3 | 29·9 | 30·1 | -0·1 | -0·1 | -0·1 |
| | Diet low in fruits | (24·6–37·3) | (23·6–36·2) | (24·2–36·8) | (23·3–36·0) | (23·0–35·4) | (23·2–35·7) | (-0·8–0·7) | (-0·7–0·8) | (-0·8–0·8) |
| | | 44·5 | 45·7 | 45·1 | 38·3 | 39·1 | 38·8 | -0·5 | -0·5 | -0·5 |
| | Diet low in vegetables | (24·3–54·3) | (22·9–55·7) | (23·6–54·9) | (22·5–49·1) | (20·9–49·8) | (21·7–49·5) | (-1·3–0·3) | (-1·4–0·4) | (-1·3–0·3) |
| | | 32·5 | 35·7 | 34·1 | 26·4 | 29·6 | 28·1 | -0·6 | -0·6 | -0·6 |
| | Diet low in legumes | (0·0–45·9) | (0·0–49·9) | (0·0–48·0) | (0·0–39·2) | (0·0–43·5) | (0·0–41·4) | (-1·8–0·5) | (-1·7–0·6) | (-1·7–0·6) |
| | | 35·3 | 39·1 | 37·3 | 32·6 | 36·9 | 34·8 | -0·2 | -0·2 | -0·2 |
| | Diet low in whole grains | (26·3–45·7) | (29·9–48·7) | (28·1–47·0) | (22·8–45·1) | (26·7–49·0) | (24·7–47·1) | (-1·5–1·0) | (-1·3–1·0) | (-1·4–1·0) |
| | | 63·6 | 63·7 | 63·7 | 56·6 | 56·8 | 56·7 | -0·4 | -0·4 | -0·4 |
| | Diet low in nuts and seeds | (55·6–71·2) | (55·7–71·3) | (55·6–71·2) | (44·4–67·4) | (44·6–67·7) | (44·5–67·6) | (-1·1–0·3) | (-1·1–0·3) | (-1·1–0·3) |
| | | 37·3 | 27·0 | 32·0 | 42·3 | 31·3 | 36·5 | 0·4 | 0·5 | 0·4 |
| | Diet high in red meat | (0·0–57·2) | (0·0–42·5) | (0·0–49·6) | (0·0–61·4) | (0·0–48·4) | (0·0–54·8) | (-0·5–2·3) | (-0·5–5·3) | (-0·5–2·9) |
| | | 7·4 | 6·6 | 7·0 | 9·3 | 8·3 | 8·7 | 0·7 | 0·7 | 0·7 |
| | Diet high in processed meat | (4·8–10·9) | (4·5–9·4) | (4·6–10·2) | (6·7–12·3) | (6·1–10·6) | (6·4–11·4) | (-0·5–1·8) | (-0·5–1·7) | (-0·5–1·8) |
| | | 24·3 | 18·9 | 21·5 | 37·8 | 30·1 | 33·8 | 1·3 | 1·4 | 1·4 |
| | Diet high in sugar-sweetened beverages | (10·0–40·8) | (7·3–32·7) | (8·6–36·8) | (28·6–50·4) | (22·1–41·4) | (25·2–45·2) | (-0·5–4·2) | (-0·6–4·4) | (-0·6–4·4) |
| | | 19·8 | 25·5 | 22·7 | 12·2 | 16·9 | 14·7 | -1·5 | -1·3 | -1·3 |
| | Diet low in fiber | (8·1–36·6) | (11·8–44·0) | (10·0–40·4) | (3·6–27·0) | (5·5–34·4) | (4·5–30·9) | (-5·6–2·1) | (-4·9–1·9) | (-5·2–2·0) |
| | | 42·6 | 50·1 | 46·5 | 29·4 | 37·1 | 33·4 | -1·1 | -0·9 | -1·0 |
| | Diet low in seafood omega-3 fatty acids | (29·6–55·8) | (37·5–61·7) | (33·7–58·8) | (13·0–45·3) | (19·5–52·5) | (16·4–49·0) | (-3·3–0·5) | (-2·6–0·4) | (-2·9–0·4) |
| | | 39·4 | 36·4 | 37·9 | 37·4 | 33·9 | 35·6 | -0·2 | -0·2 | -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (23·8–51·1) | (22·0–47·8) | (22·9–49·4) | (22·0–52·4) | (20·2–48·3) | (21·1–50·2) | (-1·2–0·9) | (-1·4–0·9) | (-1·3–0·9) |
| | | 53·1 | 49·6 | 51·3 | 25·3 | 23·6 | 24·4 | -2·2 | -2·2 | -2·3 |
| | Diet high in trans fatty acids | (35·1–69·4) | (32·4–65·9) | (33·7–67·4) | (16·5–34·5) | (15·4–32·3) | (16·2–33·4) | (-3·6–-0·6) | (-3·6–-0·5) | (-3·6–-0·6) |
| | | 41·8 | 25·6 | 33·5 | 42·8 | 24·8 | 33·3 | 0·1 | -0·1 | 0·0 |
| | Diet high in sodium | (8·1–71·3) | (1·6–55·3) | (5·0–63·2) | (8·8–76·5) | (0·9–55·3) | (4·6–64·3) | (-2·9–3·2) | (-4·0–4·0) | (-3·2–3·4) |
| | | 14·4 | 23·5 | 19·1 | 16·6 | 27·3 | 22·3 | 0·4 | 0·5 | 0·5 |
| | Low physical activity | (11·1–17·7) | (19·2–27·2) | (15·5–22·3) | (13·4–20·7) | (22·3–32·8) | (18·1–26·5) | (-0·1–1·0) | (-0·1–0·9) | (0·1–0·8) |
| | | 33·6 | 31·3 | 32·5 | 23·3 | 21·4 | 22·3 | -1·1 | -1·2 | -1·1 |
| | Environmental/occupational risks | (24·2–42·6) | (22·4–40·4) | (23·2–41·5) | (15·9–31·5) | (15·0–29·7) | (15·4–30·6) | (-1·5–-0·8) | (-1·5–-0·8) | (-1·5–-0·8) |
| | | 35·2 | 35·4 | 35·3 | 22·5 | 22·3 | 22·4 | -1·4 | -1·4 | -1·4 |
| | Air pollution | (20·8–58·5) | (21·2–58·9) | (21·0–58·7) | (12·2–45·7) | (12·0–45·6) | (12·1–45·6) | (-2·1–-0·5) | (-2·1–-0·6) | (-2·1–-0·6) |
| | | 36·6 | 36·7 | 36·6 | 22·2 | 22·0 | 22·1 | -1·5 | -1·6 | -1·5 |
| | Particulate matter pollution | (19·0–69·3) | (19·5–69·2) | (19·3–69·3) | (11·9–55·1) | (11·7–54·8) | (11·8–54·9) | (-2·2–-0·6) | (-2·2–-0·6) | (-2·2–-0·6) |
| | | 27·5 | 25·6 | 26·5 | 25·3 | 24·9 | 25·1 | -0·3 | -0·1 | -0·2 |
| | Ambient particulate matter pollution | (12·3–58·9) | (11·2–55·4) | (11·8–57·0) | (12·8–59·3) | (12·6–58·9) | (12·7–59·1) | (-1·3–0·7) | (-1·1–1·0) | (-1·2–0·9) |
| | | 15·8 | 17·8 | 16·9 | 4·2 | 4·8 | 4·5 | -4·0 | -4·0 | -4·0 |
| | Household air pollution from solid fuels | (7·4–40·0) | (8·9–43·8) | (8·1–41·9) | (1·7–10·3) | (2·0–11·2) | (1·8–10·9) | (-4·8–-3·5) | (-4·8–-3·3) | (-4·8–-3·4) |
| | | 16·2 | 16·2 | 16·2 | 17·0 | 17·0 | 17·0 | 0·2 | 0·1 | 0·2 |
| | Non-optimal temperature | (13·8–19·4) | (13·8–19·4) | (13·8–19·4) | (15·1–19·4) | (15·0–19·4) | (15·1–19·4) | (-0·1–0·4) | (-0·1–0·4) | (-0·1–0·4) |
| | | 18·2 | 18·2 | 18·2 | 23·3 | 23·2 | 23·3 | 0·7 | 0·7 | 0·7 |
| | High temperature | (14·4–22·1) | (14·4–22·0) | (14·4–22·0) | (21·1–25·5) | (21·0–25·4) | (21·0–25·5) | (0·3–1·3) | (0·3–1·3) | (0·3–1·3) |
| | | 13·1 | 13·1 | 13·1 | 11·5 | 11·5 | 11·5 | -0·4 | -0·4 | -0·4 |
| | Low temperature | (11·9–15·1) | (11·9–15·1) | (11·9–15·1) | (10·0–14·6) | (10·0–14·6) | (10·0–14·6) | (-0·5–-0·1) | (-0·5–-0·1) | (-0·5–-0·1) |
| | | 46·0 | 39·3 | 42·5 | 43·6 | 37·8 | 40·6 | -0·2 | -0·1 | -0·1 |
| | Other environmental risks | (13·8–56·8) | (13·2–49·2) | (13·5–52·6) | (13·2–52·0) | (12·8–45·8) | (13·0–48·6) | (-0·5–0·3) | (-0·6–0·4) | (-0·5–0·3) |
| | | 54·5 | 44·7 | 49·5 | 50·8 | 42·5 | 46·5 | -0·2 | -0·2 | -0·2 |
| | Lead exposure | (8·4–67·3) | (7·5–57·4) | (7·9–61·8) | (7·3–60·9) | (6·6–51·8) | (6·9–56·2) | (-0·6–0·4) | (-0·7–0·5) | (-0·7–0·5) |
| **Andean Latin America** | | | | | | | | | | |
| | | 20·5 | 19·9 | 20·2 | 20·0 | 21·0 | 20·5 | -0·1 | 0·2 | 0·1 |
| | All risk factors | (16·3–23·1) | (16·5–21·7) | (16·4–22·4) | (17·0–22·3) | (17·4–22·8) | (17·2–22·5) | (-0·3–0·2) | (-0·1–0·4) | (-0·2–0·3) |
| | | 18·7 | 20·5 | 19·6 | 27·0 | 30·4 | 28·7 | 1·1 | 1·2 | 1·2 |
| | Metabolic risks | (15·6–22·4) | (16·9–24·9) | (16·5–23·5) | (24·8–29·2) | (28·4–32·7) | (26·8–31·0) | (0·5–1·8) | (0·6–1·8) | (0·6–1·8) |
| | | 8·5 | 8·1 | 8·3 | 12·9 | 14·2 | 13·6 | 1·3 | 1·7 | 1·5 |
| | High fasting plasma glucose | (5·8–13·3) | (5·4–13·6) | (5·6–13·4) | (9·5–18·4) | (10·1–20·9) | (9·8–19·7) | (-0·1–2·8) | (0·2–3·4) | (0·1–3·1) |
| | | 39·8 | 44·0 | 42·0 | 44·0 | 48·2 | 46·2 | 0·3 | 0·3 | 0·3 |
| | High LDL cholesterol | (31·3–50·0) | (33·7–56·1) | (32·8–52·8) | (34·2–55·4) | (42·3–55·3) | (39·0–54·4) | (-0·5–1·0) | (-0·5–1·0) | (-0·4–0·9) |
| | | 15·0 | 10·6 | 12·8 | 30·5 | 17·3 | 23·8 | 2·1 | 1·5 | 1·9 |
| | High systolic blood pressure | (5·8–29·9) | (4·4–22·5) | (5·1–26·1) | (26·3–34·7) | (14·2–20·4) | (20·1–27·3) | (0·1–4·8) | (-0·6–3·9) | (-0·2–4·4) |
| | | 20·6 | 23·4 | 22·0 | 30·5 | 35·5 | 33·0 | 1·2 | 1·3 | 1·2 |
| | High body-mass index | (16·4–26·3) | (18·4–29·4) | (17·4–28·0) | (27·2–33·2) | (32·7–38·1) | (30·2–35·5) | (0·5–1·9) | (0·5–2·0) | (0·5–1·9) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 1·8 | 1·8 | 1·8 | 1·9 | 1·8 | 1·9 | 0·1 | 0·1 | 0·1 |
| | Kidney dysfunction | (1·2–3·5) 16·4 | (1·1–3·4) 15·5 | (1·2–3·4) 16·0 | (1·2–3·6) 16·4 | (1·2–3·5) 15·4 | (1·2–3·5) 15·9 | (0·0–0·2) 0·0 | (0·1–0·2) 0·0 | (0·1–0·2) 0·0 |
| | Behavioral risks | (11·7–19·6) 15·1 | (11·4–17·5) 10·1 | (11·2–18·3) 12·6 | (12·6–19·3) 11·2 | (12·1–17·1) 6·7 | (12·6–17·8) 8·9 | (-0·4–0·3) -0·9 | (-0·3–0·2) -1·2 | (-0·3–0·2) -1·0 |
| | Tobacco | (11·1–22·5) 14·6 | (8·4–13·2) 3·5 | (9·6–17·2) 9·0 | (8·1–17·4) 10·5 | (5·5–8·5) 2·4 | (6·8–12·8) 6·4 | (-1·7–-0·1) -1·0 | (-2·1–-0·6) -1·1 | (-1·8–-0·3) -1·0 |
| | Smoking | (7·2–30·9) 0·6 | (1·2–9·4) 0·5 | (4·1–19·4) 0·6 | (4·9–23·7) 0·6 | (0·9–6·1) 0·4 | (2·8–14·8) 0·5 | (-2·3–0·3) -0·4 | (-3·6–1·2) -0·7 | (-2·6–0·4) -0·5 |
| | Chewing tobacco | (0·3–1·3) 22·5 | (0·2–1·1) 24·4 | (0·2–1·2) 23·5 | (0·2–1·1) 17·7 | (0·2–0·9) 15·7 | (0·2–1·0) 16·7 | (-3·5–3·0) -0·7 | (-4·0–2·8) -1·3 | (-3·7–2·9) -1·0 |
| | Secondhand smoke | (19·5–25·7) 9·1 | (21·5–27·5) 3·7 | (20·5–26·6) 6·4 | (14·7–21·2) 10·3 | (13·2–18·8) 4·4 | (14·0–20·0) 7·3 | (-1·4–0·0) 0·4 | (-2·0–-0·7) 0·5 | (-1·7–-0·4) 0·4 |
| | High alcohol use | (6·2–12·7) 37·3 | (2·1–5·4) 34·5 | (4·2–8·7) 35·9 | (7·5–13·3) 38·2 | (2·8–6·2) 35·0 | (5·2–9·4) 36·6 | (-0·2–1·0) 0·1 | (-0·2–1·4) 0·0 | (-0·1–1·0) 0·1 |
| | Dietary risks | (25·0–46·3) 27·3 | (16·9–44·3) 24·8 | (21·6–45·3) 26·0 | (26·6–47·3) 29·8 | (21·2–44·0) 28·4 | (24·7–45·1) 29·1 | (-0·6–0·7) 0·3 | (-0·6–0·8) 0·4 | (-0·6–0·6) 0·3 |
| | Diet low in fruits | (20·6–32·7) 43·0 | (18·4–30·7) 42·4 | (19·6–31·6) 42·7 | (23·1–36·0) 42·0 | (22·0–34·1) 41·9 | (22·8–35·3) 42·0 | (-0·6–1·2) -0·1 | (-0·4–1·3) 0·0 | (-0·5–1·3) -0·1 |
| | Diet low in vegetables | (24·9–55·2) 47·4 | (21·0–54·1) 51·3 | (22·9–54·6) 49·4 | (24·7–54·9) 43·2 | (21·5–55·7) 47·5 | (23·2–55·4) 45·4 | (-1·0–0·9) -0·3 | (-1·1–1·1) -0·2 | (-1·1–1·0) -0·3 |
| | Diet low in legumes | (0·0–64·4) 36·3 | (0·0–68·7) 38·5 | (0·0–66·6) 37·4 | (0·0–59·6) 38·3 | (0·0–65·0) 41·9 | (0·0–62·3) 40·2 | (-1·2–0·7) 0·2 | (-1·1–0·7) 0·3 | (-1·2–0·7) 0·2 |
| | Diet low in whole grains | (28·2–44·7) 75·8 | (29·9–47·0) 75·7 | (29·0–46·0) 75·7 | (28·3–49·9) 62·1 | (31·2–53·3) 62·1 | (29·8–51·5) 62·1 | (-0·9–1·1) -0·6 | (-0·7–1·2) -0·6 | (-0·8–1·2) -0·6 |
| | Diet low in nuts and seeds | (71·2–81·1) 20·7 | (71·0–81·1) 15·4 | (71·2–81·1) 18·0 | (53·9–70·2) 26·6 | (53·9–70·3) 20·0 | (53·9–70·3) 23·2 | (-1·1–-0·2) 0·8 | (-1·1–-0·2) 0·8 | (-1·1–-0·2) 0·8 |
| | Diet high in red meat | (0·0–31·7) 3·9 | (0·0–23·0) 3·5 | (0·0–27·2) 3·7 | (0·0–40·3) 5·8 | (0·0–30·3) 5·5 | (0·0–35·1) 5·6 | (0·0–6·1) 1·2 | (0·0–14·4) 1·3 | (0·0–6·3) 1·3 |
| | Diet high in processed meat | (2·9–5·3) 13·9 | (2·6–4·9) 9·3 | (2·7–5·1) 11·5 | (4·2–7·5) 26·0 | (4·0–7·2) 18·8 | (4·1–7·3) 22·3 | (0·1–2·3) 1·9 | (0·2–2·3) 2·1 | (0·2–2·3) 2·0 |
| | Diet high in sugar-sweetened beverages | (5·3–26·4) 26·1 | (3·5–19·6) 33·9 | (4·4–22·9) 30·1 | (19·0–35·4) 17·2 | (13·4–26·9) 23·8 | (16·1–31·1) 20·6 | (0·0–4·7) -1·3 | (0·1–4·9) -1·1 | (0·0–4·8) -1·2 |
| | Diet low in fiber | (10·3–47·9) 36·5 | (15·6–57·1) 44·2 | (13·0–52·6) 40·4 | (5·1–35·6) 25·9 | (8·4–44·7) 33·3 | (6·8–40·2) 29·7 | (-5·3–2·4) -1·0 | (-4·5–2·0) -0·9 | (-4·8–2·1) -0·9 |
| | Diet low in seafood omega-3 fatty acids | (24·2–49·8) 63·0 | (31·4–55·9) 59·4 | (27·9–52·8) 61·2 | (12·4–40·6) 60·9 | (17·5–47·7) 56·0 | (15·1–44·1) 58·4 | (-2·9–0·8) -0·1 | (-2·5–0·6) -0·2 | (-2·7–0·7) -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (39·4–77·6) 64·4 | (37·3–74·4) 60·4 | (38·5–75·9) 62·3 | (38·0–77·8) 24·3 | (35·1–73·3) 23·7 | (36·5–75·5) 24·0 | (-0·8–0·5) -3·0 | (-1·0–0·6) -2·8 | (-0·9–0·6) -2·9 |
| | Diet high in trans fatty acids | (43·7–81·5) 38·1 | (40·4–77·3) 24·0 | (42·0–79·2) 30·9 | (15·9–32·3) 40·7 | (15·4–31·5) 23·5 | (16·0–32·0) 31·9 | (-4·3–-1·4) 0·2 | (-4·2–-1·1) -0·1 | (-4·2–-1·3) 0·1 |
| | Diet high in sodium | (6·1–67·2) 11·6 | (1·9–50·9) 13·7 | (4·1–58·3) 12·7 | (6·2–74·2) 12·7 | (0·6–53·0) 16·1 | (3·2–62·5) 14·4 | (-3·5–4·0) 0·3 | (-4·8–4·0) 0·5 | (-3·8–3·7) 0·4 |
| | Low physical activity | (8·6–15·1) 41·4 | (10·5–17·0) 38·8 | (10·1–15·3) 40·0 | (9·2–17·3) 28·3 | (11·7–20·4) 26·0 | (11·1–18·1) 27·1 | (-0·6–1·0) -1·1 | (-0·2–1·2) -1·2 | (-0·1–1·0) -1·2 |
| | Environmental/occupational risks | (30·8–48·6) 52·7 | (28·2–46·2) 52·0 | (29·5–47·3) 52·4 | (19·0–38·6) 28·5 | (17·9–36·0) 28·2 | (18·5–37·2) 28·4 | (-1·7–-0·6) -1·9 | (-1·7–-0·6) -1·9 | (-1·7–-0·6) -1·9 |
| | Air pollution | (30·7–78·3) 56·5 | (30·6–78·3) 55·6 | (30·6–78·2) 56·0 | (15·4–56·3) 28·2 | (15·3–56·0) 27·7 | (15·3–56·2) 28·0 | (-2·8–-0·8) -2·1 | (-2·7–-0·8) -2·1 | (-2·8–-0·8) -2·1 |
| | Particulate matter pollution | (30·1–87·3) 42·8 | (29·9–87·1) 37·6 | (29·8–87·1) 40·2 | (15·2–65·1) 34·8 | (15·1–65·2) 33·7 | (15·1–65·2) 34·2 | (-2·9–-0·7) -0·6 | (-2·9–-0·7) -0·3 | (-2·9–-0·7) -0·5 |
| | Ambient particulate matter pollution | (16·4–78·0) 21·1 | (13·2–72·2) 24·4 | (14·9–74·7) 22·8 | (18·3–70·1) 3·5 | (17·7–68·5) 4·5 | (18·0–69·1) 4·0 | (-1·9–1·0) -5·4 | (-1·6–1·5) -5·1 | (-1·8–1·2) -5·3 |
| | Household air pollution from solid fuels | (9·0–58·2) 16·6 | (11·7–61·9) 16·6 | (10·4–60·1) 16·6 | (0·7–11·2) 16·0 | (1·1–12·8) 16·0 | (0·9–11·9) 16·0 | (-8·8–-3·3) -0·1 | (-8·3–-3·1) -0·1 | (-8·6–-3·2) -0·1 |
| | Non-optimal temperature | (14·7–20·0) 15·6 | (14·7–20·0) 15·6 | (14·7–20·0) 15·6 | (13·2–19·9) 20·3 | (13·2–19·8) 20·3 | (13·2–19·9) 20·3 | (-0·5–0·2) 0·8 | (-0·5–0·2) 0·8 | (-0·5–0·2) 0·8 |
| | High temperature | (10·7–21·2) 16·4 | (10·7–21·2) 16·4 | (10·7–21·2) 16·4 | (16·3–24·5) 14·5 | (16·3–24·5) 14·5 | (16·3–24·5) 14·5 | (0·0–1·6) -0·4 | (0·0–1·6) -0·4 | (0·0–1·6) -0·4 |
| | Low temperature | (14·7–19·7) 51·1 | (14·7–19·7) 41·9 | (14·7–19·7) 46·4 | (12·2–18·6) 56·7 | (12·1–18·6) 47·0 | (12·2–18·6) 51·8 | (-0·6–-0·1) 0·3 | (-0·6–-0·1) 0·3 | (-0·6–-0·1) 0·3 |
| | Other environmental risks | (14·9–70·5) 62·8 | (14·3–64·3) 49·5 | (14·5–67·2) 56·0 | (14·9–72·6) 70·7 | (14·5–63·0) 56·6 | (14·7–68·2) 63·5 | (-0·2–1·0) 0·4 | (-0·3–1·0) 0·4 | (-0·3–1·0) 0·4 |
| | Lead exposure | (11·4–86·4) | (10·7–72·7) | (11·1–79·0) | (11·1–89·0) | (10·4–73·5) | (10·7–80·4) | (-0·2–1·2) | (-0·4–1·2) | (-0·3–1·2) |
| **Caribbean** | | | | | | | | | | |
| | | 22·7 | 21·1 | 21·9 | 24·0 | 23·9 | 24·0 | 0·2 | 0·4 | 0·3 |
| | All risk factors | (19·3–25·4) 15·3 | (17·7–23·6) 16·7 | (18·3–24·2) 16·0 | (20·7–26·8) 20·7 | (21·0–26·0) 24·8 | (20·8–26·4) 22·8 | (0·0–0·4) 0·9 | (0·2–0·6) 1·2 | (0·1–0·5) 1·1 |
| | Metabolic risks | (13·1–18·1) 13·0 | (14·2–20·2) 11·8 | (13·7–19·2) 12·3 | (18·2–23·2) 15·1 | (21·9–27·5) 16·4 | (20·1–25·4) 15·8 | (0·3–1·5) 0·5 | (0·5–1·8) 1·0 | (0·4–1·7) 0·7 |
| | High fasting plasma glucose | (9·0–18·0) 43·0 | (8·2–17·4) 45·1 | (8·7–17·7) 44·1 | (11·6–19·5) 40·8 | (12·2–21·7) 45·7 | (12·0–20·2) 43·4 | (-0·7–1·6) -0·2 | (-0·3–2·3) 0·0 | (-0·5–2·0) 0·0 |
| | High LDL cholesterol | (33·8–53·4) 27·6 | (33·8–58·9) 22·2 | (33·9–56·5) 24·9 | (31·6–52·0) 35·2 | (34·0–60·0) 30·7 | (32·9–56·0) 32·9 | (-1·1–0·7) 0·7 | (-1·1–1·1) 1·0 | (-1·1–0·9) 0·9 |
| | High systolic blood pressure | (12·6–49·7) 15·1 | (9·7–43·4) 17·6 | (10·9–46·4) 16·4 | (25·5–46·5) 21·6 | (24·3–39·8) 27·2 | (24·9–42·3) 24·5 | (-1·0–2·9) 1·1 | (-1·0–3·3) 1·3 | (-1·0–3·1) 1·2 |
| | High body-mass index | (12·1–19·0) 5·8 | (14·1–22·3) 3·6 | (13·0–20·7) 4·7 | (18·6–25·1) 6·2 | (23·6–31·1) 4·0 | (21·2–28·1) 5·0 | (0·3–1·7) 0·2 | (0·5–2·1) 0·3 | (0·4–1·9) 0·2 |
| | Kidney dysfunction | (3·5–8·8) 18·5 | (2·3–5·8) 16·6 | (2·9–7·2) 17·5 | (3·7–9·1) 18·1 | (2·5–6·2) 16·1 | (3·1–7·6) 17·1 | (0·1–0·2) -0·1 | (0·2–0·3) -0·1 | (0·1–0·2) -0·1 |
| | Behavioral risks | (14·6–22·8) 23·6 | (13·0–20·2) 17·7 | (13·3–21·2) 20·6 | (14·2–21·5) 18·0 | (13·7–18·9) 13·0 | (14·2–20·2) 15·4 | (-0·4–0·3) -0·8 | (-0·5–0·2) -0·9 | (-0·4–0·2) -0·9 |
| | Tobacco | (17·3–33·8) 25·7 | (13·7–25·1) 12·4 | (15·5–29·1) 18·9 | (13·3–26·5) 18·2 | (10·2–18·5) 8·5 | (11·7–22·3) 13·2 | (-1·4–-0·3) -1·1 | (-1·8–-0·2) -1·1 | (-1·6–-0·2) -1·1 |
| | Smoking | (13·0–48·4) 0·7 | (4·9–28·9) 0·4 | (9·0–38·2) 0·5 | (8·7–36·4) 0·8 | (3·6–20·5) 0·4 | (6·0–27·7) 0·6 | (-2·1–-0·2) 0·4 | (-3·4–0·9) 0·1 | (-2·5–0·1) 0·3 |
| | Chewing tobacco | (0·3–1·4) 31·7 | (0·2–0·8) 35·0 | (0·2–1·1) 33·4 | (0·3–1·6) 27·2 | (0·1–0·8) 27·4 | (0·2–1·2) 27·3 | (-2·7–3·7) -0·5 | (-3·2–3·7) -0·7 | (-2·9–3·7) -0·6 |
| | Secondhand smoke | (28·4–35·2) 10·3 | (31·6–38·4) 3·9 | (30·0–36·8) 7·1 | (25·3–29·5) 12·1 | (24·9–30·1) 4·3 | (25·1–29·8) 8·1 | (-0·8–0·0) 0·5 | (-1·2–-0·3) 0·3 | (-1·0–-0·2) 0·4 |
| | High alcohol use | (7·4–14·6) 34·8 | (2·4–5·8) 33·0 | (4·9–9·8) 33·9 | (8·8–16·5) 33·2 | (3·0–5·8) 31·5 | (5·8–11·0) 32·3 | (0·0–1·0) -0·1 | (-0·6–1·2) -0·1 | (-0·1–1·1) -0·1 |
| | Dietary risks | (24·3–43·3) 26·6 | (19·3–42·2) 25·2 | (22·2–42·9) 25·9 | (22·4–42·0) 22·0 | (21·2–39·5) 22·6 | (22·3–40·5) 22·3 | (-0·6–0·5) -0·6 | (-0·6–0·4) -0·3 | (-0·6–0·4) -0·5 |
| | Diet low in fruits | (20·8–31·8) | (19·2–30·8) | (20·0–31·6) | (15·4–28·4) | (16·2–28·9) | (15·8–28·5) | (-1·7–0·6) | (-1·5–0·8) | (-1·6–0·7) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 44·3 | 44·1 | 44·2 | 38·6 | 40·5 | 39·6 | -0·4 | -0·3 | -0·3 |
| | Diet low in vegetables | (25·0–52·4) 35·7 | (24·1–52·8) 39·2 | (24·7–52·6) 37·5 | (22·9–47·4) 32·4 | (22·9–48·8) 35·7 | (22·9–48·2) 34·1 | (-1·1–0·4) -0·3 | (-0·9–0·5) -0·3 | (-1·0–0·4) -0·3 |
| | Diet low in legumes | (0·0–50·7) 48·3 | (0·0–55·2) 49·0 | (0·0–53·0) 48·6 | (0·0–47·4) 44·4 | (0·0–51·8) 47·5 | (0·0–49·7) 46·0 | (-1·5–0·9) -0·2 | (-1·5–0·9) -0·1 | (-1·5–0·9) -0·2 |
| | Diet low in whole grains | (38·3–55·8) 71·4 | (39·0–56·4) 71·3 | (38·5–56·0) 71·3 | (34·9–54·2) 71·1 | (37·8–56·5) 70·8 | (36·3–55·4) 71·0 | (-1·0–0·3) 0·0 | (-0·7–0·5) 0·0 | (-0·8–0·4) 0·0 |
| | Diet low in nuts and seeds | (64·9–77·8) 22·9 | (64·7–77·9) 16·8 | (64·8–77·8) 19·8 | (61·7–79·2) 24·3 | (61·3–79·1) 18·2 | (61·5–79·1) 21·1 | (-0·5–0·4) 0·2 | (-0·5–0·4) 0·2 | (-0·5–0·4) 0·2 |
| | Diet high in red meat | (0·0–36·5) 5·1 | (0·0–25·9) 4·5 | (0·0–31·2) 4·8 | (0·0–39·3) 6·5 | (0·0–29·0) 6·0 | (0·0–34·1) 6·3 | (-1·8–2·8) 0·8 | (-2·0–3·2) 0·9 | (-1·9–3·3) 0·8 |
| | Diet high in processed meat | (3·4–7·4) 15·4 | (3·1–6·5) 9·3 | (3·2–6·9) 12·2 | (4·1–9·9) 21·5 | (3·9–8·9) 14·3 | (4·0–9·3) 17·8 | (-1·0–2·3) 1·0 | (-0·7–2·3) 1·3 | (-0·8–2·3) 1·1 |
| | Diet high in sugar-sweetened beverages | (4·5–33·9) 24·8 | (2·8–21·4) 30·9 | (3·6–27·4) 27·9 | (7·2–42·5) 8·8 | (4·7–31·7) 12·9 | (6·0–36·9) 10·9 | (-2·6–5·2) -3·1 | (-2·4–5·8) -2·6 | (-2·5–5·4) -2·8 |
| | Diet low in fiber | (10·2–45·6) 43·6 | (14·2–53·4) 50·2 | (12·2–49·6) 47·0 | (2·1–21·7) 38·7 | (3·6–28·8) 45·8 | (2·9–25·3) 42·3 | (-7·5–0·5) -0·4 | (-6·6–0·6) -0·3 | (-7·0–0·6) -0·3 |
| | Diet low in seafood omega-3 fatty acids | (31·5–55·7) 46·4 | (38·8–61·8) 41·6 | (35·3–58·8) 43·9 | (23·2–52·8) 30·8 | (30·1–58·7) 26·1 | (26·8–55·8) 28·4 | (-1·6–1·0) -1·2 | (-1·3–0·8) -1·4 | (-1·5–0·9) -1·3 |
| | Diet low in omega-6 polyunsaturated fatty acids | (28·3–62·7) 23·9 | (25·1–57·7) 22·2 | (26·7–60·1) 23·0 | (16·8–47·9) 20·1 | (13·2–42·7) 18·7 | (15·0–45·0) 19·3 | (-3·2–0·4) -0·5 | (-3·6–0·5) -0·5 | (-3·4–0·4) -0·5 |
| | Diet high in trans fatty acids | (15·7–32·1) 27·4 | (14·7–29·4) 15·6 | (15·1–30·7) 21·3 | (13·5–28·1) 27·7 | (12·9–26·0) 15·1 | (13·2–27·0) 21·2 | (-1·9–0·7) 0·0 | (-1·9–0·7) -0·1 | (-1·9–0·7) 0·0 |
| | Diet high in sodium | (0·8–59·6) 12·6 | (0·1–44·6) 27·3 | (0·4–52·1) 20·2 | (0·9–63·8) 13·5 | (0·0–45·9) 29·8 | (0·4–55·0) 21·9 | (-4·4–6·5) 0·2 | (-16·7–6·3) 0·3 | (-5·1–6·7) 0·3 |
| | Low physical activity | (9·8–15·9) 33·5 | (23·1–31·8) 31·3 | (16·9–23·6) 32·4 | (10·3–17·3) 32·2 | (25·1–34·8) 30·5 | (18·1–25·4) 31·3 | (-0·3–0·8) -0·1 | (-0·1–0·7) -0·1 | (-0·1–0·7) -0·1 |
| | Environmental/occupational risks | (26·3–41·5) 28·3 | (24·6–39·2) 28·6 | (25·5–40·4) 28·5 | (24·2–38·7) 26·0 | (23·0–37·1) 26·2 | (23·7–37·9) 26·1 | (-0·5–0·2) -0·3 | (-0·4–0·3) -0·3 | (-0·5–0·2) -0·3 |
| | Air pollution | (14·8–51·5) 30·6 | (15·4–51·5) 30·9 | (15·1–51·4) 30·7 | (14·8–46·2) 28·0 | (15·2–46·3) 28·1 | (15·0–46·3) 28·1 | (-1·1–0·5) -0·3 | (-1·0–0·4) -0·3 | (-1·1–0·4) -0·3 |
| | Particulate matter pollution | (14·7–61·3) 13·0 | (15·0–60·9) 11·6 | (14·9–61·1) 12·3 | (15·4–52·7) 15·1 | (15·4–52·9) 14·5 | (15·4–52·8) 14·8 | (-1·1–0·6) 0·5 | (-1·0–0·4) 0·7 | (-1·1–0·5) 0·6 |
| | Ambient particulate matter pollution | (3·2–40·5) 21·2 | (2·7–37·3) 22·8 | (3·0–38·9) 22·0 | (7·2–42·6) 17·2 | (6·9–41·2) 18·2 | (7·1–41·9) 17·7 | (-1·8–4·0) -0·6 | (-1·5–4·3) -0·7 | (-1·6–4·1) -0·7 |
| | Household air pollution from solid fuels | (10·2–40·5) 8·6 | (11·4–43·5) 8·6 | (10·7–42·0) 8·6 | (8·5–27·8) 13·4 | (9·0–29·5) 13·4 | (8·8–28·7) 13·4 | (-1·3–-0·1) 1·3 | (-1·3–-0·2) 1·4 | (-1·3–-0·2) 1·4 |
| | Non-optimal temperature | (6·8–10·6) 14·8 | (6·8–10·6) 14·7 | (6·8–10·6) 14·7 | (11·1–15·8) 21·2 | (11·1–15·8) 21·2 | (11·1–15·8) 21·2 | (0·9–1·8) 1·1 | (0·9–1·8) 1·1 | (0·9–1·8) 1·1 |
| | High temperature | (11·5–18·2) 3·6 | (11·5–18·1) 3·6 | (11·5–18·2) 3·6 | (18·0–24·3) 3·4 | (17·9–24·3) 3·4 | (17·9–24·3) 3·4 | (0·7–1·5) -0·1 | (0·7–1·5) -0·1 | (0·7–1·5) -0·1 |
| | Low temperature | (3·0–4·9) 43·7 | (3·0–4·9) 35·9 | (3·0–4·9) 39·7 | (2·9–4·7) 44·6 | (2·9–4·7) 39·1 | (2·9–4·7) 41·8 | (-0·4–0·2) 0·1 | (-0·4–0·2) 0·3 | (-0·4–0·2) 0·2 |
| | Other environmental risks | (8·7–56·7) 56·8 | (8·0–48·6) 45·5 | (8·4–52·4) 51·0 | (9·2–56·4) 57·5 | (8·8–50·7) 49·5 | (9·0–53·3) 53·4 | (-0·3–0·6) 0·0 | (-0·3–0·9) 0·3 | (-0·3–0·8) 0·1 |
| | Lead exposure | (8·9–73·1) | (7·8–60·8) | (8·3–67·0) | (8·6–72·8) | (7·7–64·2) | (8·2–68·4) | (-0·4–0·6) | (-0·3–1·0) | (-0·4–0·8) |
| **Central Latin America** | | | | | | | | | | |
| | | 24·2 | 21·5 | 22·8 | 23·0 | 21·3 | 22·2 | -0·1 | 0·0 | -0·1 |
| | All risk factors | (19·9–26·7) 21·3 | (17·2–23·3) 25·6 | (18·4–24·8) 23·5 | (19·4–25·3) 31·9 | (18·1–22·9) 35·5 | (18·8–24·0) 33·7 | (-0·3–0·1) 1·2 | (-0·2–0·2) 1·0 | (-0·3–0·1) 1·1 |
| | Metabolic risks | (18·6–24·6) 18·9 | (22·6–29·0) 19·6 | (20·7–26·8) 19·3 | (29·5–34·4) 25·5 | (33·3–37·6) 27·7 | (31·7–36·1) 26·6 | (0·8–1·7) 0·9 | (0·6–1·4) 1·1 | (0·7–1·5) 1·0 |
| | High fasting plasma glucose | (12·5–29·1) 43·4 | (12·9–29·9) 46·6 | (12·7–29·5) 45·1 | (17·5–35·4) 50·3 | (20·4–35·8) 52·7 | (18·9–35·4) 51·6 | (-0·6–2·5) 0·4 | (-0·2–2·5) 0·4 | (-0·5–2·6) 0·4 |
| | High LDL cholesterol | (34·5–53·5) 28·5 | (35·9–59·4) 23·6 | (35·4–56·8) 26·0 | (40·1–61·6) 32·1 | (43·0–64·8) 22·3 | (41·8–63·5) 27·1 | (-0·4–1·2) 0·4 | (-0·4–1·2) -0·2 | (-0·4–1·2) 0·1 |
| | High systolic blood pressure | (14·4–47·2) 20·9 | (11·5–41·4) 27·1 | (12·9–44·3) 24·1 | (24·0–41·2) 33·8 | (16·0–29·5) 38·6 | (19·9–35·1) 36·3 | (-1·5–2·7) 1·4 | (-2·3–2·4) 1·1 | (-1·8–2·6) 1·2 |
| | High body-mass index | (17·7–24·7) 5·9 | (23·2–31·2) 4·1 | (20·7–27·9) 4·9 | (31·2–35·9) 6·2 | (35·9–40·7) 4·2 | (33·8–38·2) 5·1 | (0·9–1·9) 0·1 | (0·7–1·5) 0·1 | (0·8–1·7) 0·1 |
| | Kidney dysfunction | (3·5–8·7) 19·1 | (2·5–6·3) 15·3 | (3·0–7·5) 17·2 | (3·6–9·0) 16·9 | (2·6–6·6) 13·4 | (3·1–7·7) 15·1 | (0·1–0·2) -0·4 | (0·1–0·2) -0·4 | (0·1–0·1) -0·4 |
| | Behavioral risks | (14·8–22·8) 24·9 | (11·0–17·9) 19·7 | (12·8–20·0) 22·2 | (13·3–19·6) 15·2 | (10·5–15·4) 10·9 | (11·9–17·3) 12·9 | (-0·7–-0·1) -1·5 | (-0·8–-0·1) -1·8 | (-0·7–-0·1) -1·6 |
| | Tobacco | (19·1–34·6) 24·1 | (16·5–25·7) 9·1 | (17·8–29·8) 16·4 | (11·8–22·2) 12·0 | (8·9–14·0) 4·6 | (10·3–17·4) 8·1 | (-2·0–-0·9) -2·1 | (-2·4–-1·1) -2·1 | (-2·1–-1·0) -2·1 |
| | Smoking | (12·4–44·8) 0·6 | (3·9–21·6) 0·4 | (8·0–32·8) 0·5 | (5·6–26·2) 0·6 | (2·0–10·6) 0·4 | (3·7–17·4) 0·5 | (-2·8–-1·4) -0·1 | (-3·6–-0·6) 0·0 | (-3·1–-1·3) -0·1 |
| | Chewing tobacco | (0·2–1·2) 33·4 | (0·2–0·9) 42·5 | (0·2–1·1) 38·1 | (0·2–1·2) 25·2 | (0·2–0·9) 23·7 | (0·2–1·0) 24·5 | (-3·2–3·3) -0·9 | (-3·3–3·5) -1·8 | (-3·3–3·4) -1·3 |
| | Secondhand smoke | (29·6–37·4) 10·0 | (38·8–46·3) 3·6 | (34·3–42·0) 6·7 | (21·5–29·9) 10·1 | (20·6–27·8) 3·6 | (21·0–28·8) 6·7 | (-1·5–-0·2) 0·0 | (-2·3–-1·2) -0·1 | (-1·9–-0·7) 0·0 |
| | High alcohol use | (6·9–14·1) 39·5 | (2·3–5·3) 36·1 | (4·5–9·5) 37·7 | (7·1–13·6) 39·3 | (2·5–5·0) 34·9 | (4·6–9·3) 37·0 | (-0·5–0·6) 0·0 | (-1·1–1·1) -0·1 | (-0·6–0·7) -0·1 |
| | Dietary risks | (29·3–48·8) 32·5 | (25·1–44·6) 31·3 | (27·4–46·2) 31·9 | (28·0–49·0) 31·8 | (23·5–44·0) 30·3 | (25·8–46·1) 31·0 | (-0·6–0·6) -0·1 | (-0·7–0·4) -0·1 | (-0·6–0·5) -0·1 |
| | Diet low in fruits | (25·7–38·2) 42·4 | (24·5–36·6) 42·6 | (24·8–37·4) 42·5 | (24·6–37·9) 36·8 | (23·2–36·1) 36·2 | (24·4–36·9) 36·5 | (-0·8–0·7) -0·4 | (-0·8–0·7) -0·5 | (-0·8–0·7) -0·5 |
| | Diet low in vegetables | (23·1–51·7) 35·6 | (21·9–52·2) 39·1 | (22·5–51·9) 37·4 | (21·0–46·0) 27·2 | (19·2–45·9) 30·7 | (20·0–45·9) 29·0 | (-1·3–0·3) -0·8 | (-1·4–0·4) -0·7 | (-1·3–0·4) -0·8 |
| | Diet low in legumes | (0·0–50·1) 18·6 | (0·0–54·1) 20·5 | (0·0–52·2) 19·6 | (0·0–40·5) 20·9 | (0·0–45·3) 23·4 | (0·0–43·1) 22·2 | (-2·0–0·4) 0·4 | (-1·9–0·4) 0·4 | (-1·9–0·4) 0·4 |
| | Diet low in whole grains | (12·0–27·3) 68·5 | (13·5–29·1) 68·6 | (12·8–28·2) 68·6 | (11·1–32·6) 61·1 | (12·8–35·1) 61·4 | (12·2–33·6) 61·3 | (-1·7–2·2) -0·3 | (-1·5–2·2) -0·3 | (-1·5–2·2) -0·3 |
| | Diet low in nuts and seeds | (61·6–76·0) 36·4 | (61·8–76·1) 25·2 | (61·7–76·1) 30·6 | (49·9–71·0) 39·7 | (50·3–71·1) 27·2 | (50·1–71·0) 33·1 | (-1·0–0·2) 0·3 | (-1·0–0·2) 0·2 | (-1·0–0·2) 0·2 |
| | Diet high in red meat | (0·0–55·7) 7·3 | (0·0–39·8) 6·3 | (0·0–47·3) 6·8 | (0·0–61·1) 9·0 | (0·0–43·9) 7·6 | (0·0–51·4) 8·3 | (-0·9–2·6) 0·6 | (-0·8–4·9) 0·6 | (-0·8–2·9) 0·6 |
| | Diet high in processed meat | (4·7–11·0) 37·1 | (4·2–9·1) 29·6 | (4·4–10·1) 33·2 | (5·9–12·6) 48·4 | (5·4–10·5) 38·4 | (5·7–11·5) 43·1 | (-0·8–2·0) 0·8 | (-0·8–1·8) 0·8 | (-0·8–1·9) 0·8 |
| | Diet high in sugar-sweetened beverages | (15·8–56·4) 13·5 | (11·2–48·9) 17·4 | (13·4–52·6) 15·5 | (34·0–59·9) 9·3 | (24·3–50·3) 12·9 | (29·0–55·1) 11·2 | (-0·9–3·6) -1·1 | (-1·3–4·1) -0·9 | (-1·1–3·9) -1·0 |
| | Diet low in fiber | (5·5–25·1) 44·3 | (8·0–30·5) 51·7 | (6·8–27·9) 48·1 | (2·5–20·9) 31·6 | (3·9–26·7) 39·2 | (3·3–23·9) 35·6 | (-5·5–2·5) -1·0 | (-4·8–2·3) -0·8 | (-5·1–2·4) -0·9 |
| | Diet low in seafood omega-3 fatty acids | (31·4–56·9) | (39·4–62·8) | (35·5–60·0) | (14·9–46·9) | (21·7–54·0) | (18·5–50·6) | (-3·0–0·5) | (-2·4–0·4) | (-2·6–0·4) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 60·7 | 58·1 | 59·4 | 57·6 | 53·9 | 55·7 | -0·2 | -0·2 | -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (36·8–74·1) 56·6 | (35·8–71·8) 52·9 | (36·2–73·0) 54·7 | (34·6–74·9) 48·8 | (32·9–71·8) 45·4 | (33·7–73·3) 47·0 | (-0·9–0·5) -0·5 | (-1·1–0·5) -0·5 | (-1·0–0·5) -0·5 |
| | Diet high in trans fatty acids | (37·5–73·8) 46·3 | (34·5–69·9) 27·5 | (36·0–71·6) 36·6 | (31·7–66·6) 47·1 | (29·5–62·2) 27·0 | (31·0–64·3) 36·5 | (-1·8–0·7) 0·1 | (-1·9–0·7) -0·1 | (-1·9–0·7) 0·0 |
| | Diet high in sodium | (12·4–74·2) 12·2 | (1·7–57·8) 21·1 | (7·2–65·1) 16·8 | (13·8–78·7) 14·0 | (1·7–57·0) 24·3 | (7·2–65·7) 19·4 | (-2·3–2·8) 0·4 | (-3·7–4·3) 0·4 | (-2·6–3·0) 0·4 |
| | Low physical activity | (8·8–15·4) 34·0 | (16·9–25·1) 31·4 | (13·7–19·5) 32·6 | (10·5–18·2) 24·4 | (19·7–29·5) 22·1 | (15·3–23·5) 23·2 | (-0·2–1·1) -1·0 | (-0·1–1·0) -1·1 | (0·0–0·8) -1·0 |
| | Environmental/occupational risks | (23·8–43·0) 37·2 | (21·8–40·6) 37·4 | (22·8–41·8) 37·3 | (16·3–33·4) 24·4 | (15·1–31·3) 24·3 | (15·7–32·3) 24·4 | (-1·4–-0·6) -1·3 | (-1·5–-0·6) -1·3 | (-1·5–-0·6) -1·3 |
| | Air pollution | (21·0–63·3) 38·2 | (21·6–63·9) 38·2 | (21·3–63·6) 38·2 | (13·4–48·7) 24·6 | (13·3–48·8) 24·4 | (13·4–48·8) 24·5 | (-2·1–-0·4) -1·3 | (-2·1–-0·4) -1·4 | (-2·1–-0·4) -1·3 |
| | Particulate matter pollution | (18·4–74·0) 33·1 | (18·9–74·4) 31·2 | (18·6–74·3) 32·1 | (13·3–60·1) 27·9 | (13·2–60·3) 27·5 | (13·2–60·2) 27·7 | (-2·2–-0·4) -0·5 | (-2·1–-0·4) -0·4 | (-2·2–-0·4) -0·4 |
| | Ambient particulate matter pollution | (13·5–68·6) 13·4 | (12·2–66·1) 15·3 | (12·8–67·5) 14·4 | (14·4–62·7) 4·5 | (14·2–62·0) 5·3 | (14·3–62·5) 4·9 | (-1·7–1·0) -3·3 | (-1·6–1·2) -3·2 | (-1·7–1·1) -3·3 |
| | Household air pollution from solid fuels | (5·9–34·3) 17·8 | (7·3–37·6) 17·8 | (6·6–36·0) 17·8 | (1·7–13·1) 18·7 | (2·1–14·4) 18·6 | (1·9–13·8) 18·6 | (-4·4–-2·4) 0·1 | (-4·2–-2·4) 0·1 | (-4·3–-2·4) 0·1 |
| | Non-optimal temperature | (15·1–21·9) 20·9 | (15·1–21·9) 20·7 | (15·1–21·9) 20·8 | (16·9–21·6) 27·0 | (16·8–21·6) 26·8 | (16·9–21·6) 26·9 | (-0·2–0·4) 0·8 | (-0·2–0·4) 0·8 | (-0·2–0·4) 0·8 |
| | High temperature | (16·4–25·6) 14·6 | (16·2–25·4) 14·6 | (16·3–25·5) 14·6 | (24·6–29·3) 12·8 | (24·4–29·1) 12·7 | (24·5–29·2) 12·7 | (0·1–1·4) -0·4 | (0·1–1·4) -0·4 | (0·1–1·4) -0·4 |
| | Low temperature | (13·0–17·5) 50·2 | (13·0–17·5) 43·1 | (13·0–17·5) 46·5 | (10·9–16·5) 47·5 | (10·8–16·4) 40·6 | (10·8–16·4) 43·9 | (-0·6–-0·1) -0·2 | (-0·6–-0·1) -0·2 | (-0·6–-0·1) -0·2 |
| | Other environmental risks | (16·5–62·2) 58·3 | (15·7–54·8) 47·9 | (16·1–58·4) 53·0 | (15·8–57·2) 54·3 | (15·4–49·9) 44·3 | (15·6–53·3) 49·1 | (-0·5–0·2) -0·2 | (-0·7–0·3) -0·2 | (-0·6–0·3) -0·2 |
| | Lead exposure | (9·3–72·0) | (8·1–60·8) | (8·7–66·1) | (8·1–66·6) | (7·3–55·4) | (7·7–60·4) | (-0·7–0·3) | (-0·9–0·4) | (-0·8–0·4) |
| **Tropical Latin America** | | | | | | | | | | |
| | | 24·3 | 23·3 | 23·8 | 22·9 | 23·6 | 23·3 | -0·2 | 0·0 | -0·1 |
| | All risk factors | (20·6–26·8) 17·2 | (19·5–25·2) 19·5 | (19·8–25·9) 18·4 | (19·5–25·1) 27·1 | (20·7–25·6) 28·4 | (20·0–25·2) 27·8 | (-0·4–0·0) 1·4 | (-0·2–0·3) 1·1 | (-0·3–0·1) 1·3 |
| | Metabolic risks | (14·0–21·0) 20·1 | (15·5–24·2) 27·5 | (14·7–22·7) 23·9 | (24·3–30·6) 17·0 | (25·1–32·4) 24·2 | (24·8–31·5) 20·8 | (0·7–2·0) -0·5 | (0·5–1·9) -0·4 | (0·6–1·9) -0·4 |
| | High fasting plasma glucose | (10·3–38·2) 49·9 | (13·6–48·8) 50·3 | (11·9–43·7) 50·1 | (10·2–30·3) 41·6 | (14·3–41·0) 42·9 | (12·4–35·6) 42·3 | (-2·8–2·1) -0·6 | (-2·6–2·2) -0·5 | (-2·6–2·2) -0·5 |
| | High LDL cholesterol | (40·3–60·3) 33·4 | (38·8–64·7) 25·6 | (39·7–62·6) 29·5 | (33·0–52·5) 38·5 | (33·0–55·4) 29·4 | (32·9–54·5) 33·8 | (-1·3–0·2) 0·4 | (-1·4–0·4) 0·4 | (-1·3–0·3) 0·4 |
| | High systolic blood pressure | (15·1–58·5) 15·4 | (10·6–50·2) 17·6 | (12·8–54·3) 16·5 | (31·0–48·5) 29·7 | (22·2–40·1) 30·2 | (26·5–44·1) 30·0 | (-1·4–2·9) 2·0 | (-1·8–3·3) 1·6 | (-1·6–3·0) 1·8 |
| | High body-mass index | (12·8–18·5) 3·0 | (14·1–21·7) 3·5 | (13·6–20·2) 3·3 | (26·3–33·5) 2·9 | (26·1–33·5) 3·5 | (26·3–33·3) 3·2 | (1·3–2·5) -0·1 | (0·9–2·3) 0·0 | (1·1–2·4) 0·0 |
| | Kidney dysfunction | (2·0–5·0) 21·5 | (2·2–5·7) 20·0 | (2·1–5·3) 20·8 | (1·9–4·9) 18·5 | (2·2–5·6) 18·1 | (2·1–5·3) 18·3 | (-0·1–-0·1) -0·5 | (-0·1–0·0) -0·3 | (-0·1–0·0) -0·4 |
| | Behavioral risks | (17·2–25·8) 34·5 | (15·9–23·5) 29·5 | (16·4–24·5) 31·9 | (14·8–21·5) 18·8 | (15·1–20·8) 14·2 | (15·1–21·1) 16·4 | (-0·8–-0·2) -1·8 | (-0·6–0·0) -2·2 | (-0·7–-0·1) -2·0 |
| | Tobacco | (26·5–46·8) 34·0 | (24·2–39·8) 21·7 | (25·0–43·1) 27·6 | (14·9–26·7) 14·6 | (11·2–20·3) 10·3 | (13·1–22·7) 12·3 | (-2·3–-1·4) -2·6 | (-2·7–-1·7) -2·3 | (-2·4–-1·6) -2·4 |
| | Smoking | (17·2–60·6) 0·7 | (10·7–43·7) 0·5 | (14·1–51·3) 0·6 | (6·9–31·6) 0·8 | (5·0–22·9) 0·5 | (6·0–26·9) 0·6 | (-3·4–-1·7) 0·4 | (-3·1–-1·5) 0·0 | (-3·0–-1·8) 0·2 |
| | Chewing tobacco | (0·3–1·4) 45·7 | (0·2–1·0) 49·6 | (0·2–1·2) 47·7 | (0·3–1·6) 31·0 | (0·2–1·0) 23·5 | (0·2–1·3) 27·2 | (-2·7–3·7) -1·2 | (-3·4–3·5) -2·3 | (-3·0–3·6) -1·7 |
| | Secondhand smoke | (42·4–49·1) 9·8 | (46·0–53·4) 4·2 | (44·3–51·3) 7·0 | (28·0–34·1) 11·5 | (20·0–27·7) 7·0 | (24·8–29·8) 9·2 | (-1·6–-0·7) 0·5 | (-2·8–-1·7) 1·5 | (-2·1–-1·3) 0·8 |
| | High alcohol use | (6·8–14·0) 39·3 | (2·6–6·3) 37·7 | (4·7–9·7) 38·5 | (8·2–15·7) 38·6 | (5·0–9·4) 36·2 | (6·7–12·2) 37·3 | (-0·1–1·0) -0·1 | (0·6–2·6) -0·1 | (0·3–1·5) -0·1 |
| | Dietary risks | (28·3–50·0) 31·8 | (27·1–47·5) 32·4 | (27·5–48·4) 32·1 | (27·3–49·3) 30·4 | (24·9–46·2) 31·5 | (26·1–47·4) 31·0 | (-0·7–0·5) -0·1 | (-0·8–0·5) -0·1 | (-0·6–0·5) -0·1 |
| | Diet low in fruits | (24·0–39·2) 47·0 | (24·2–39·3) 49·7 | (24·3–39·2) 48·4 | (21·8–39·0) 38·9 | (22·9–39·7) 41·4 | (22·4–39·4) 40·2 | (-1·2–0·8) -0·6 | (-0·9–0·8) -0·6 | (-1·0–0·8) -0·6 |
| | Diet low in vegetables | (25·3–58·9) 25·3 | (24·1–61·2) 28·1 | (24·6–59·7) 26·8 | (23·8–50·4) 19·8 | (22·5–53·4) 22·6 | (23·1–52·2) 21·2 | (-1·5–0·3) -0·7 | (-1·5–0·3) -0·7 | (-1·5–0·2) -0·7 |
| | Diet low in legumes | (0·0–36·7) 47·5 | (0·0–40·7) 54·2 | (0·0–38·7) 51·0 | (0·0–30·0) 41·0 | (0·0–33·8) 47·8 | (0·0–32·0) 44·6 | (-2·1–0·5) -0·4 | (-1·9–0·6) -0·4 | (-2·0–0·6) -0·4 |
| | Diet low in whole grains | (34·8–60·9) 54·3 | (41·2–66·2) 54·6 | (38·0–63·2) 54·5 | (29·5–56·7) 47·2 | (35·2–61·5) 47·5 | (32·5–58·8) 47·4 | (-1·6–0·8) -0·4 | (-1·4–0·6) -0·4 | (-1·4–0·6) -0·4 |
| | Diet low in nuts and seeds | (43·7–63·5) 45·7 | (43·9–63·8) 33·7 | (43·8–63·6) 39·5 | (30·8–61·8) 53·1 | (31·1–62·1) 41·3 | (31·0–62·0) 46·9 | (-1·7–0·6) 0·5 | (-1·7–0·6) 0·6 | (-1·7–0·6) 0·5 |
| | Diet high in red meat | (0·0–68·0) 8·8 | (0·0–52·9) 8·1 | (0·0–59·9) 8·4 | (0·0–77·0) 11·1 | (0·0–65·9) 10·1 | (0·0–71·0) 10·6 | (-0·7–2·6) 0·7 | (-0·7–6·0) 0·7 | (-0·6–3·3) 0·7 |
| | Diet high in processed meat | (5·5–13·3) 16·8 | (5·4–11·8) 13·4 | (5·4–12·4) 15·0 | (7·0–16·5) 32·8 | (6·7–14·9) 27·2 | (6·8–15·8) 29·8 | (-1·1–2·4) 2·0 | (-1·0–2·3) 2·1 | (-1·0–2·4) 2·1 |
| | Diet high in sugar-sweetened beverages | (6·5–32·4) 23·0 | (5·4–26·3) 29·9 | (5·9–28·9) 26·6 | (17·2–54·4) 14·7 | (13·8–48·8) 20·3 | (15·4–52·5) 17·6 | (-0·9–5·4) -1·4 | (-0·8–5·8) -1·2 | (-0·8–5·6) -1·2 |
| | Diet low in fiber | (9·8–42·4) 42·3 | (14·0–51·1) 50·0 | (12·0–46·9) 46·3 | (4·6–32·5) 26·1 | (6·7–41·2) 34·0 | (5·7–37·1) 30·3 | (-5·3–2·2) -1·5 | (-4·8–2·0) -1·2 | (-5·0–2·1) -1·3 |
| | Diet low in seafood omega-3 fatty acids | (28·6–56·2) 12·2 | (36·9–62·1) 9·5 | (32·9–59·2) 10·8 | (8·9–43·3) 10·3 | (15·2–50·7) 7·8 | (12·3–47·1) 9·0 | (-4·3–0·4) -0·5 | (-3·3–0·3) -0·6 | (-3·7–0·3) -0·6 |
| | Diet low in omega-6 polyunsaturated fatty acids | (5·6–21·0) 54·6 | (4·1–17·4) 50·9 | (4·8–19·3) 52·7 | (2·6–22·2) 1·2 | (1·7–18·3) 1·0 | (2·2–20·2) 1·1 | (-4·3–2·8) -11·6 | (-4·7–3·0) -11·9 | (-4·5–2·9) -11·7 |
| | Diet high in trans fatty acids | (35·9–72·1) 42·0 | (33·2–68·2) 26·7 | (34·5–69·8) 34·1 | (0·7–1·6) 41·9 | (0·7–1·4) 24·6 | (0·7–1·5) 32·8 | (-13·0–-10·0) 0·0 | (-13·2–-10·2) -0·2 | (-13·1–-10·1) -0·1 |
| | Diet high in sodium | (6·2–73·6) 17·6 | (1·8–57·1) 26·8 | (3·9–65·1) 22·4 | (6·2–76·8) 21·1 | (0·5–55·8) 32·9 | (3·1–65·3) 27·3 | (-3·9–4·0) 0·5 | (-5·4–3·9) 0·6 | (-4·1–3·6) 0·6 |
| | Low physical activity | (13·0–23·1) 31·8 | (20·2–33·3) 29·9 | (17·9–26·8) 30·8 | (15·5–27·5) 18·5 | (24·5–42·1) 17·2 | (21·9–33·4) 17·8 | (-0·3–1·4) -1·6 | (-0·4–1·5) -1·7 | (-0·1–1·3) -1·7 |
| | Environmental/occupational risks | (22·7–41·9) 30·7 | (20·9–40·2) 31·2 | (21·7–41·0) 30·9 | (12·7–25·4) 17·7 | (11·9–23·7) 17·5 | (12·2–24·4) 17·6 | (-2·2–-1·1) -1·7 | (-2·3–-1·1) -1·8 | (-2·2–-1·1) -1·7 |
| | Air pollution | (15·5–54·9) 31·8 | (17·0–55·2) 32·1 | (16·4–55·1) 32·0 | (8·6–39·5) 16·3 | (8·4–38·7) 15·9 | (8·5–39·1) 16·1 | (-3·1–-0·4) -2·0 | (-3·2–-0·5) -2·1 | (-3·2–-0·5) -2·1 |
| | Particulate matter pollution | (14·3–67·1) 21·5 | (15·0–67·5) 20·0 | (14·7–67·3) 20·8 | (8·5–45·7) 21·5 | (8·3–44·8) 21·4 | (8·4–45·2) 21·4 | (-3·3–-0·7) 0·0 | (-3·4–-0·8) 0·2 | (-3·4–-0·7) 0·1 |
| | Ambient particulate matter pollution | (6·1–51·8) 15·9 | (5·5–49·3) 17·8 | (5·8–50·5) 16·9 | (10·7–55·5) 1·0 | (10·7–55·6) 1·3 | (10·7–55·6) 1·1 | (-2·1–2·7) -8·4 | (-1·9–2·9) -8·0 | (-2·0–2·8) -8·2 |
| | Household air pollution from solid fuels | (6·8–42·7) | (8·3–44·9) | (7·5–43·7) | (0·1–3·5) | (0·1–4·1) | (0·1–3·8) | (-14·0–-6·1) | (-13·4–-5·8) | (-13·6–-5·9) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 16·2 | 16·1 | 16·2 | 16·2 | 16·1 | 16·1 | 0·0 | 0·0 | 0·0 |
| | Non-optimal temperature | (13·7–19·5) | (13·7–19·4) | (13·7–19·5) | (14·1–18·7) | (14·0–18·6) | (14·0–18·7) | (-0·2–0·2) | (-0·2–0·2) | (-0·2–0·2) |
| | | 16·9 | 16·9 | 16·9 | 20·3 | 20·3 | 20·3 | 0·5 | 0·5 | 0·5 |
| | High temperature | (13·5–20·3) | (13·5–20·3) | (13·5–20·3) | (17·8–23·0) | (17·7–23·0) | (17·8–23·0) | (0·2–0·9) | (0·2–0·9) | (0·2–0·9) |
| | | 13·1 | 13·0 | 13·0 | 11·0 | 10·9 | 11·0 | -0·5 | -0·5 | -0·5 |
| | Low temperature | (12·0–14·8) | (12·0–14·7) | (12·0–14·7) | (9·8–13·2) | (9·8–13·2) | (9·8–13·2) | (-0·7–-0·3) | (-0·7–-0·3) | (-0·7–-0·3) |
| | | 41·1 | 35·6 | 38·3 | 35·3 | 32·2 | 33·7 | -0·5 | -0·3 | -0·4 |
| | Other environmental risks | (11·5–53·6) | (11·0–47·3) | (11·2–50·5) | (10·4–45·1) | (10·1–41·3) | (10·2–43·2) | (-0·8–0·0) | (-0·7–0·3) | (-0·7–0·1) |
| | | 48·4 | 40·4 | 44·3 | 40·1 | 35·5 | 37·7 | -0·6 | -0·4 | -0·5 |
| | Lead exposure | (6·8–61·4) | (6·0–53·5) | (6·4–57·6) | (5·1–48·8) | (4·7–43·5) | (4·9–46·1) | (-0·9–0·0) | (-0·9–0·4) | (-1·0–0·2) |
| **North Africa and Middle East** | | | | | | | | | | |
| | | 23·2 | 19·9 | 21·6 | 22·5 | 20·9 | 21·8 | -0·1 | 0·2 | 0·0 |
| | All risk factors | (19·5–25·9) | (16·8–22·0) | (18·0–23·6) | (19·3–25·3) | (17·6–23·0) | (18·8–23·9) | (-0·3–0·1) | (-0·1–0·4) | (-0·2–0·2) |
| | | 17·6 | 22·0 | 19·8 | 29·7 | 35·6 | 32·5 | 1·6 | 1·5 | 1·5 |
| | Metabolic risks | (15·3–20·4) | (19·1–25·3) | (17·1–22·7) | (27·4–31·8) | (32·8–38·3) | (30·1–34·9) | (1·2–2·1) | (1·0–2·0) | (1·0–2·0) |
| | | 12·6 | 11·9 | 12·2 | 23·5 | 24·6 | 24·0 | 1·9 | 2·2 | 2·0 |
| | High fasting plasma glucose | (9·5–17·3) | (8·6–16·8) | (9·1–17·1) | (18·1–30·0) | (18·8–31·7) | (18·4–30·7) | (0·6–3·0) | (0·8–3·6) | (0·7–3·3) |
| | | 40·7 | 44·8 | 42·7 | 41·2 | 43·8 | 42·5 | 0·0 | -0·1 | 0·0 |
| | High LDL cholesterol | (32·3–50·5) | (35·0–56·2) | (33·5–53·6) | (33·7–49·5) | (35·9–53·2) | (34·8–51·2) | (-0·6–0·6) | (-0·8–0·7) | (-0·7–0·7) |
| | | 30·7 | 32·1 | 31·4 | 35·0 | 34·7 | 34·9 | 0·4 | 0·2 | 0·3 |
| | High systolic blood pressure | (14·7–52·5) | (15·5–55·9) | (15·1–54·2) | (28·0–44·1) | (27·3–45·4) | (27·7–44·5) | (-1·2–2·6) | (-1·5–2·6) | (-1·3–2·5) |
| | | 17·7 | 24·2 | 20·9 | 32·0 | 40·1 | 35·9 | 1·8 | 1·5 | 1·6 |
| | High body-mass index | (14·7–21·6) | (19·9–29·1) | (17·2–25·5) | (28·9–34·8) | (36·2–43·1) | (32·4–38·6) | (1·2–2·4) | (1·0–2·1) | (1·1–2·2) |
| | | 3·0 | 3·3 | 3·2 | 3·2 | 3·5 | 3·3 | 0·1 | 0·2 | 0·2 |
| | Kidney dysfunction | (1·9–5·2) | (2·2–5·5) | (2·1–5·3) | (2·0–5·4) | (2·3–5·8) | (2·2–5·6) | (0·1–0·2) | (0·2–0·2) | (0·1–0·2) |
| | | 16·1 | 14·3 | 15·2 | 15·3 | 14·2 | 14·8 | -0·2 | 0·0 | -0·1 |
| | Behavioral risks | (11·3–20·9) | (10·4–16·7) | (10·7–18·4) | (11·2–19·5) | (10·7–16·2) | (11·6–17·9) | (-0·5–0·2) | (-0·4–0·3) | (-0·5–0·2) |
| | | 31·4 | 17·9 | 24·8 | 28·7 | 17·0 | 23·1 | -0·3 | -0·1 | -0·2 |
| | Tobacco | (23·6–43·4) | (15·7–21·5) | (19·8–32·7) | (21·4–40·2) | (14·9–20·2) | (18·3–30·4) | (-0·7–0·2) | (-0·7–0·4) | (-0·7–0·2) |
| | | 34·9 | 4·5 | 20·2 | 30·2 | 4·2 | 17·9 | -0·4 | -0·3 | -0·4 |
| | Smoking | (18·0–61·6) | (1·9–11·2) | (10·3–37·1) | (15·1–54·3) | (1·8–10·0) | (8·8–33·3) | (-1·2–0·2) | (-2·6–1·7) | (-1·3–0·4) |
| | | 1·6 | 0·7 | 1·2 | 1·5 | 0·6 | 1·1 | -0·2 | -0·3 | -0·2 |
| | Chewing tobacco | (0·8–3·1) | (0·3–1·4) | (0·5–2·2) | (0·7–2·9) | (0·3–1·2) | (0·5–2·1) | (-2·8–2·5) | (-3·2–2·9) | (-2·9–2·6) |
| | | 36·2 | 45·0 | 40·5 | 35·0 | 42·6 | 38·6 | -0·1 | -0·2 | -0·1 |
| | Secondhand smoke | (32·7–39·7) | (41·1–48·8) | (36·8–44·1) | (31·4–39·1) | (38·4–47·0) | (34·8–42·8) | (-0·6–0·4) | (-0·6–0·3) | (-0·6–0·3) |
| | | 1·0 | 0·2 | 0·6 | 0·8 | 0·1 | 0·5 | -0·9 | -1·3 | -0·9 |
| | High alcohol use | (0·7–1·4) | (0·1–0·3) | (0·4–0·9) | (0·5–1·1) | (0·1–0·2) | (0·3–0·6) | (-1·5–-0·1) | (-2·5–0·0) | (-1·6–-0·1) |
| | | 27·1 | 24·6 | 25·9 | 26·9 | 23·4 | 25·2 | 0·0 | -0·1 | -0·1 |
| | Dietary risks | (18·2–35·7) | (14·8–31·3) | (16·8–33·4) | (17·5–34·8) | (15·0–30·3) | (16·7–32·2) | (-0·6–0·6) | (-0·7–0·5) | (-0·6–0·5) |
| | | 27·8 | 22·4 | 25·1 | 27·4 | 21·1 | 24·4 | 0·0 | -0·2 | -0·1 |
| | Diet low in fruits | (19·5–34·4) | (14·3–28·9) | (17·1–31·8) | (17·8–36·3) | (12·1–29·9) | (15·1–33·2) | (-1·4–1·3) | (-1·9–1·6) | (-1·6–1·4) |
| | | 22·6 | 22·6 | 22·6 | 21·0 | 20·9 | 20·9 | -0·2 | -0·2 | -0·2 |
| | Diet low in vegetables | (14·1–29·0) | (14·4–28·8) | (14·2–28·9) | (11·0–29·8) | (10·9–30·0) | (10·9–29·8) | (-1·5–1·0) | (-1·6–1·0) | (-1·6–1·0) |
| | | 39·3 | 42·1 | 40·7 | 34·7 | 38·1 | 36·4 | -0·4 | -0·3 | -0·3 |
| | Diet low in legumes | (0·0–54·1) | (0·0–57·3) | (0·0–55·6) | (0·0–50·4) | (0·0–54·5) | (0·0–52·3) | (-1·5–0·7) | (-1·3–0·7) | (-1·4–0·7) |
| | | 28·2 | 30·2 | 29·2 | 34·8 | 37·8 | 36·2 | 0·6 | 0·7 | 0·7 |
| | Diet low in whole grains | (21·2–36·6) | (22·8–38·6) | (21·9–37·5) | (24·7–46·2) | (27·3–49·7) | (25·9–47·7) | (-0·6–1·8) | (-0·5–1·8) | (-0·6–1·8) |
| | | 52·8 | 52·8 | 52·8 | 40·0 | 39·8 | 39·9 | -0·8 | -0·9 | -0·8 |
| | Diet low in nuts and seeds | (44·1–61·8) | (44·1–61·8) | (44·1–61·8) | (27·3–52·9) | (27·4–52·8) | (27·3–52·8) | (-2·0–0·1) | (-2·0–0·2) | (-2·0–0·2) |
| | | 22·2 | 16·7 | 19·5 | 22·7 | 16·9 | 19·9 | 0·1 | 0·0 | 0·1 |
| | Diet high in red meat | (0·0–34·9) | (0·0–24·8) | (0·0–29·9) | (0·0–34·7) | (0·0–24·3) | (0·0–29·7) | (-0·9–3·9) | (-0·9–9·7) | (-0·9–4·0) |
| | | 4·3 | 3·8 | 4·0 | 6·4 | 5·7 | 6·0 | 1·2 | 1·2 | 1·2 |
| | Diet high in processed meat | (3·2–5·9) | (2·9–5·1) | (3·0–5·5) | (4·8–8·3) | (4·3–7·2) | (4·6–7·8) | (0·3–2·1) | (0·3–2·1) | (0·3–2·1) |
| | | 9·7 | 7·0 | 8·4 | 20·2 | 14·1 | 17·3 | 2·2 | 2·1 | 2·2 |
| | Diet high in sugar-sweetened beverages | (4·2–20·0) | (3·0–14·6) | (3·6–17·4) | (14·5–27·4) | (9·9–20·7) | (12·4–24·1) | (0·4–4·7) | (0·2–4·6) | (0·4–4·7) |
| | | 6·5 | 11·4 | 8·9 | 6·1 | 10·8 | 8·3 | -0·2 | -0·2 | -0·2 |
| | Diet low in fiber | (1·7–15·4) | (3·7–23·8) | (2·7–19·5) | (1·4–14·9) | (3·1–23·1) | (2·2–18·8) | (-5·2–4·7) | (-4·3–3·8) | (-4·7–4·1) |
| | | 54·1 | 61·7 | 57·8 | 37·8 | 46·0 | 41·7 | -1·1 | -0·9 | -1·0 |
| | Diet low in seafood omega-3 fatty acids | (42·9–64·2) | (51·9–70·3) | (47·3–67·2) | (24·4–50·0) | (32·2–57·6) | (28·1–53·7) | (-2·2–0·0) | (-1·8–0·0) | (-2·0–0·0) |
| | | 71·7 | 70·1 | 70·9 | 63·3 | 60·6 | 62·0 | -0·4 | -0·4 | -0·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (42·9–85·4) | (41·7–84·1) | (42·3–84·7) | (38·5–78·8) | (36·7–76·1) | (37·7–77·6) | (-0·9–0·1) | (-1·0–0·0) | (-0·9–0·1) |
| | | 38·9 | 36·2 | 37·6 | 32·8 | 32·5 | 32·6 | -0·5 | -0·3 | -0·4 |
| | Diet high in trans fatty acids | (25·9–50·8) | (24·0–48·0) | (25·0–49·3) | (23·4–41·7) | (23·2–41·7) | (23·4–41·7) | (-1·7–0·5) | (-1·5–0·7) | (-1·6–0·6) |
| | | 19·9 | 9·6 | 14·8 | 20·4 | 9·7 | 15·3 | 0·1 | 0·0 | 0·1 |
| | Diet high in sodium | (0·5–52·5) | (0·1–34·7) | (0·3–43·1) | (0·7–55·0) | (0·2–34·5) | (0·4–43·9) | (-5·2–6·2) | (-4·1–5·4) | (-4·9–6·3) |
| | | 19·2 | 35·4 | 27·1 | 21·9 | 40·0 | 30·6 | 0·4 | 0·4 | 0·4 |
| | Low physical activity | (15·8–22·8) | (31·1–40·1) | (23·5–30·9) | (18·2–26·1) | (35·3–45·2) | (26·4–34·9) | (0·1–0·7) | (0·1–0·6) | (0·2–0·5) |
| | | 39·1 | 36·3 | 37·7 | 34·4 | 31·8 | 33·2 | -0·4 | -0·4 | -0·4 |
| | Environmental/occupational risks | (29·2–46·9) | (26·9–44·4) | (28·1–45·6) | (24·8–42·6) | (22·7–40·2) | (23·8–41·4) | (-0·6–-0·2) | (-0·7–-0·2) | (-0·6–-0·2) |
| | | 39·1 | 38·4 | 38·7 | 37·4 | 35·8 | 36·7 | -0·1 | -0·2 | -0·2 |
| | Air pollution | (23·8–64·9) | (23·5–64·6) | (23·7–64·8) | (22·5–63·4) | (21·3–62·0) | (21·9–62·7) | (-0·3–0·0) | (-0·5–0·0) | (-0·4–0·0) |
| | | 39·9 | 39·0 | 39·5 | 38·5 | 36·7 | 37·7 | -0·1 | -0·2 | -0·1 |
| | Particulate matter pollution | (22·4–72·6) | (22·1–72·2) | (22·3–72·4) | (21·2–72·5) | (20·2–70·8) | (20·7–71·8) | (-0·3–0·1) | (-0·5–0·0) | (-0·4–0·0) |
| | | 35·3 | 32·1 | 33·7 | 45·3 | 43·7 | 44·6 | 0·8 | 0·9 | 0·8 |
| | Ambient particulate matter pollution | (18·6–67·2) | (16·4–63·6) | (17·3–65·4) | (24·6–75·1) | (23·4–73·5) | (24·0–74·4) | (0·3–1·3) | (0·4–1·6) | (0·4–1·4) |
| | | 13·7 | 15·8 | 14·7 | 6·2 | 6·8 | 6·5 | -2·4 | -2·6 | -2·5 |
| | Household air pollution from solid fuels | (6·7–32·6) | (8·4–37·1) | (7·6–34·8) | (2·7–12·6) | (3·2–13·5) | (2·9–13·0) | (-3·6–-1·5) | (-3·7–-1·6) | (-3·7–-1·6) |
| | | 39·5 | 38·6 | 39·0 | 46·2 | 44·6 | 45·4 | 0·5 | 0·4 | 0·5 |
| | Non-optimal temperature | (37·3–41·7) | (36·5–40·7) | (36·9–41·2) | (41·9–49·9) | (40·8–48·1) | (41·4–49·1) | (0·3–0·6) | (0·3–0·5) | (0·3–0·6) |
| | | 45·2 | 44·2 | 44·7 | 61·1 | 59·9 | 60·6 | 0·9 | 0·9 | 0·9 |
| | High temperature | (40·7–49·1) | (39·6–48·2) | (40·2–48·7) | (55·2–66·5) | (54·2–65·0) | (54·6–65·8) | (0·8–1·0) | (0·8–1·0) | (0·8–1·0) |
| | | 32·7 | 32·2 | 32·5 | 31·7 | 30·6 | 31·2 | -0·1 | -0·2 | -0·1 |
| | Low temperature | (30·5–35·6) | (30·0–34·8) | (30·3–35·3) | (29·1–34·8) | (28·3–33·3) | (28·7–34·1) | (-0·2–0·0) | (-0·2–-0·1) | (-0·2–0·0) |
| | | 44·9 | 40·8 | 42·9 | 42·8 | 39·9 | 41·4 | -0·1 | -0·1 | -0·1 |
| | Other environmental risks | (13·1–55·3) | (12·7–51·4) | (12·9–53·4) | (12·0–51·3) | (11·9–48·8) | (12·0–49·9) | (-0·4–0·3) | (-0·4–0·5) | (-0·4–0·4) |
| | | 55·3 | 49·1 | 52·3 | 52·4 | 48·1 | 50·4 | -0·2 | -0·1 | -0·1 |
| | Lead exposure | (8·6–68·5) | (7·8–62·8) | (8·2–65·7) | (7·7–63·8) | (7·2–59·4) | (7·4–61·7) | (-0·5–0·4) | (-0·5–0·6) | (-0·5–0·5) |
| **South Asia** | | | | | | | | | | |
| | | 25·7 | 22·6 | 24·2 | 24·5 | 22·9 | 23·7 | -0·1 | 0·0 | -0·1 |
| | All risk factors | (22·1–28·3) | (19·6–24·9) | (21·4–26·7) | (21·6–26·7) | (19·9–25·0) | (20·8–25·7) | (-0·3–0·0) | (-0·2–0·2) | (-0·3–0·1) |
| | | 6·1 | 6·6 | 6·3 | 11·5 | 14·4 | 12·9 | 1·9 | 2·4 | 2·2 |
| | Metabolic risks | (4·6–8·0) | (4·9–8·9) | (4·8–8·4) | (9·8–13·5) | (12·3–17·1) | (11·1–15·3) | (1·3–2·7) | (1·6–3·3) | (1·5–3·0) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 12·9 | 12·7 | 12·8 | 17·6 | 18·7 | 18·1 | 0·9 | 1·2 | 1·1 |
| | High fasting plasma glucose | (8·8–19·7) 30·8 | (8·2–21·4) 32·7 | (8·5–20·5) 31·7 | (12·9–25·4) 36·1 | (12·8–30·0) 38·6 | (12·9–27·7) 37·4 | (-0·5–2·3) 0·5 | (-0·5–2·9) 0·5 | (-0·5–2·6) 0·5 |
| | High LDL cholesterol | (23·2–39·8) 25·2 | (23·7–43·4) 26·8 | (23·4–41·6) 25·9 | (27·7–45·6) 28·6 | (29·0–50·3) 24·1 | (28·5–48·1) 26·4 | (-0·3–1·3) 0·4 | (-0·5–1·5) -0·3 | (-0·4–1·4) 0·1 |
| | High systolic blood pressure | (11·5–45·0) 3·0 | (12·5–48·4) 3·7 | (12·0–46·6) 3·4 | (22·5–35·8) 8·9 | (18·3–31·3) 13·0 | (20·7–33·6) 11·0 | (-1·4–2·9) 3·3 | (-2·2–2·2) 3·8 | (-1·8–2·6) 3·6 |
| | High body-mass index | (2·4–3·8) 3·8 | (2·7–5·0) 3·8 | (2·5–4·3) 3·8 | (7·5–11·0) 3·3 | (11·2–15·6) 3·6 | (9·5–13·1) 3·5 | (2·4–4·1) -0·4 | (2·8–4·8) -0·2 | (2·6–4·5) -0·3 |
| | Kidney dysfunction | (2·6–6·2) 18·2 | (2·5–6·2) 17·1 | (2·5–6·2) 17·7 | (2·3–5·4) 15·4 | (2·4–5·9) 15·7 | (2·4–5·7) 15·5 | (-0·5–-0·3) -0·5 | (-0·2–0·0) -0·3 | (-0·3–-0·2) -0·4 |
| | Behavioral risks | (13·7–22·3) 32·3 | (13·3–20·0) 20·5 | (13·7–20·9) 26·7 | (11·7–18·6) 22·9 | (12·1–17·4) 13·8 | (12·0–17·9) 18·4 | (-0·8–-0·2) -1·0 | (-0·6–0·0) -1·2 | (-0·7–-0·2) -1·1 |
| | Tobacco | (25·8–42·7) 23·8 | (18·4–23·7) 2·9 | (22·5–33·4) 13·8 | (18·7–29·7) 14·0 | (12·2–15·7) 1·6 | (15·7–22·5) 7·8 | (-1·5–-0·5) -1·6 | (-1·7–-0·6) -1·8 | (-1·6–-0·6) -1·7 |
| | Smoking | (12·2–44·4) 24·8 | (1·1–7·2) 12·4 | (7·0–26·3) 18·8 | (6·8–29·2) 18·3 | (0·7–3·8) 8·9 | (3·7–16·4) 13·7 | (-2·2–-1·0) -0·9 | (-3·5–-0·1) -1·0 | (-2·4–-1·1) -1·0 |
| | Chewing tobacco | (14·4–38·3) 38·3 | (6·5–20·9) 50·2 | (10·7–29·9) 44·0 | (13·6–24·6) 33·0 | (5·2–14·7) 34·2 | (9·5–19·7) 33·6 | (-2·6–0·8) -0·4 | (-3·3–1·3) -1·2 | (-2·8–0·9) -0·8 |
| | Secondhand smoke | (35·4–41·4) 3·1 | (46·9–53·7) 0·3 | (40·9–47·2) 1·7 | (30·2–36·1) 2·9 | (30·5–38·6) 0·2 | (30·6–37·5) 1·5 | (-0·9–0·0) -0·2 | (-1·6–-0·7) -0·8 | (-1·2–-0·4) -0·3 |
| | High alcohol use | (1·9–4·4) 43·5 | (0·1–0·5) 43·3 | (1·1–2·5) 43·4 | (1·9–4·0) 42·7 | (0·1–0·4) 41·1 | (1·0–2·2) 41·9 | (-1·4–0·9) -0·1 | (-3·3–1·4) -0·2 | (-1·6–0·9) -0·1 |
| | Dietary risks | (31·4–50·8) 64·5 | (28·1–51·8) 63·2 | (29·9–51·3) 63·9 | (31·2–49·7) 63·8 | (27·0–49·4) 61·9 | (29·4–49·4) 62·9 | (-0·5–0·4) 0·0 | (-0·6–0·3) -0·1 | (-0·5–0·4) 0·0 |
| | Diet low in fruits | (50·7–70·0) 40·4 | (49·6–69·2) 41·4 | (50·1–69·6) 40·9 | (50·9–71·1) 34·1 | (49·3–70·4) 35·0 | (50·1–70·7) 34·5 | (-0·4–0·4) -0·5 | (-0·4–0·4) -0·5 | (-0·4–0·4) -0·5 |
| | Diet low in vegetables | (23·4–50·3) 35·3 | (23·4–52·4) 37·0 | (23·4–51·2) 36·1 | (20·1–42·2) 28·1 | (19·7–43·6) 30·7 | (19·9–43·0) 29·4 | (-1·2–0·2) -0·7 | (-1·3–0·2) -0·6 | (-1·2–0·2) -0·6 |
| | Diet low in legumes | (0·0–49·7) 35·0 | (0·0–51·6) 35·6 | (0·0–50·6) 35·3 | (0·0–40·0) 38·2 | (0·0–43·1) 40·6 | (0·0–41·5) 39·4 | (-1·7–0·3) 0·3 | (-1·6–0·4) 0·4 | (-1·6–0·4) 0·3 |
| | Diet low in whole grains | (25·8–46·3) 72·6 | (25·8–47·6) 74·3 | (25·8–47·0) 73·4 | (27·1–52·0) 61·9 | (29·0–55·7) 63·8 | (28·0–53·8) 62·8 | (-0·9–1·4) -0·5 | (-0·7–1·5) -0·5 | (-0·8–1·4) -0·5 |
| | Diet low in nuts and seeds | (62·3–81·8) 6·1 | (64·6–83·0) 4·4 | (63·4–82·4) 5·3 | (48·3–72·2) 7·2 | (50·8–73·7) 5·3 | (49·5–72·9) 6·3 | (-1·1–0·1) 0·5 | (-1·1–0·1) 0·6 | (-1·1–0·1) 0·5 |
| | Diet high in red meat | (0·0–11·3) 2·9 | (0·0–8·1) 2·8 | (0·0–9·7) 2·8 | (0·0–13·8) 4·1 | (0·0–10·0) 4·1 | (0·0–11·9) 4·1 | (-1·8–9·3) 1·1 | (-1·2–11·5) 1·1 | (-1·8–9·3) 1·1 |
| | Diet high in processed meat | (2·2–3·9) 3·4 | (2·1–3·8) 2·8 | (2·2–3·8) 3·1 | (2·8–5·6) 7·2 | (2·8–5·6) 6·0 | (2·8–5·6) 6·6 | (-0·1–2·2) 2·2 | (-0·1–2·4) 2·3 | (-0·1–2·3) 2·2 |
| | Diet high in sugar-sweetened beverages | (1·4–7·1) 35·2 | (1·2–5·7) 39·5 | (1·3–6·5) 37·3 | (2·5–17·0) 24·2 | (2·1–14·3) 28·3 | (2·3–15·7) 26·2 | (-1·4–6·0) -1·1 | (-1·2–6·0) -1·0 | (-1·4–6·0) -1·1 |
| | Diet low in fiber | (20·3–50·4) 63·9 | (23·0–55·4) 69·8 | (21·6–52·8) 66·7 | (11·0–41·7) 37·5 | (13·3–47·1) 44·3 | (12·2–44·4) 40·9 | (-3·7–1·0) -1·6 | (-3·3–1·0) -1·4 | (-3·5–1·0) -1·5 |
| | Diet low in seafood omega-3 fatty acids | (54·6–71·5) 87·4 | (61·7–76·5) 87·3 | (58·0–73·9) 87·4 | (21·4–51·5) 83·1 | (28·0–56·8) 82·3 | (24·7–54·1) 82·7 | (-3·2–-0·6) -0·2 | (-2·7–-0·6) -0·2 | (-2·9–-0·6) -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·7–99·7) 74·5 | (48·7–99·7) 70·6 | (48·7–99·7) 72·7 | (48·6–96·2) 55·7 | (48·5–95·5) 52·2 | (48·5–95·9) 54·0 | (-0·3–0·0) -0·9 | (-0·3–0·0) -0·9 | (-0·3–0·0) -0·9 |
| | Diet high in trans fatty acids | (52·8–91·4) 35·9 | (49·1–88·7) 27·6 | (51·1–89·5) 31·9 | (36·7–73·5) 42·2 | (34·0–68·8) 28·2 | (36·1–71·5) 35·2 | (-2·1–0·1) 0·5 | (-2·2–0·1) 0·1 | (-2·2–0·1) 0·3 |
| | Diet high in sodium | (4·7–67·9) 12·7 | (2·0–59·1) 17·6 | (3·5–64·0) 15·1 | (7·6–75·8) 12·3 | (2·7–60·4) 19·1 | (5·1–67·7) 15·8 | (-2·1–4·6) -0·1 | (-2·8–5·0) 0·3 | (-2·4–4·4) 0·1 |
| | Low physical activity | (10·1–16·2) 54·7 | (13·8–21·7) 51·8 | (12·1–18·1) 53·3 | (9·7–15·2) 44·1 | (15·7–23·6) 41·4 | (13·1–18·9) 42·8 | (-0·8–0·6) -0·7 | (-0·3–0·9) -0·7 | (-0·3–0·6) -0·7 |
| | Environmental/occupational risks | (44·7–59·0) 59·5 | (42·0–56·1) 58·9 | (43·5–57·6) 59·2 | (33·2–51·7) 50·6 | (31·1–49·2) 49·7 | (32·1–50·4) 50·1 | (-1·1–-0·3) -0·5 | (-1·2–-0·3) -0·5 | (-1·2–-0·3) -0·5 |
| | Air pollution | (38·1–81·0) 66·9 | (37·5–80·8) 66·3 | (37·8–80·9) 66·6 | (32·9–74·3) 54·5 | (32·1–73·7) 53·5 | (32·5–74·2) 54·0 | (-0·8–-0·2) -0·6 | (-0·8–-0·2) -0·6 | (-0·8–-0·2) -0·6 |
| | Particulate matter pollution | (37·0–93·7) 16·7 | (36·7–93·5) 13·5 | (36·8–93·6) 15·1 | (29·9–85·1) 35·8 | (29·4–84·8) 31·7 | (29·6–84·9) 33·8 | (-0·9–-0·2) 2·3 | (-0·9–-0·2) 2·6 | (-0·9–-0·2) 2·4 |
| | Ambient particulate matter pollution | (6·7–53·9) 52·3 | (4·9–48·3) 55·3 | (5·8–51·3) 53·7 | (18·9–67·8) 25·5 | (16·2–63·7) 28·4 | (17·5–65·9) 27·0 | (0·6–4·3) -2·2 | (0·7–4·8) -2·0 | (0·7–4·5) -2·1 |
| | Household air pollution from solid fuels | (29·1–82·5) 40·1 | (31·5–85·4) 39·7 | (30·6–83·7) 39·9 | (12·3–52·8) 46·2 | (14·3–56·3) 45·8 | (13·3–54·1) 46·0 | (-3·2–-1·1) 0·4 | (-2·9–-1·0) 0·4 | (-3·1–-1·1) 0·4 |
| | Non-optimal temperature | (37·9–42·1) 53·1 | (37·5–41·6) 52·4 | (37·7–41·8) 52·8 | (41·5–49·9) 63·6 | (41·2–49·4) 63·1 | (41·4–49·7) 63·3 | (0·2–0·6) 0·5 | (0·2–0·6) 0·6 | (0·2–0·6) 0·6 |
| | High temperature | (48·9–56·7) 36·1 | (48·3–55·9) 36·0 | (48·6–56·3) 36·1 | (54·6–70·1) 34·9 | (54·3–69·5) 34·7 | (54·5–69·8) 34·8 | (0·3–0·7) -0·1 | (0·4–0·7) -0·1 | (0·4–0·7) -0·1 |
| | Low temperature | (33·1–40·8) 55·0 | (32·9–40·8) 49·7 | (33·0–40·8) 52·5 | (32·0–39·3) 52·8 | (31·8–39·1) 47·0 | (31·9–39·2) 50·0 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·2 | (-0·2–0·0) -0·1 |
| | Other environmental risks | (15·6–65·0) 67·1 | (14·9–60·8) 59·5 | (15·3–62·8) 63·5 | (14·8–62·2) 63·9 | (14·1–56·6) 55·6 | (14·5–59·4) 59·8 | (-0·4–0·4) -0·1 | (-0·6–0·4) -0·2 | (-0·5–0·4) -0·2 |
| | Lead exposure | (11·3–80·3) | (10·4–73·7) | (10·9–77·3) | (9·9–73·3) | (9·1–65·6) | (9·5–69·5) | (-0·5–0·4) | (-0·7–0·5) | (-0·6–0·4) |
| **Southeast Asia, East Asia, and** | | | | | | | | | | |
| | | 27·3 | 24·8 | 26·0 | 24·8 | 23·1 | 24·0 | -0·3 | -0·2 | -0·2 |
| | All risk factors | (23·7–30·0) 11·9 | (21·1–26·2) 12·2 | (22·1–27·8) 12·1 | (21·6–27·4) 18·5 | (20·0–24·5) 18·0 | (20·9–25·8) 18·3 | (-0·4–-0·1) 1·3 | (-0·4–-0·1) 1·2 | (-0·4–-0·1) 1·3 |
| | Metabolic risks | (9·8–14·7) 18·2 | (10·0–15·0) 17·1 | (9·9–15·0) 17·7 | (16·1–21·1) 17·3 | (15·6–20·9) 15·7 | (15·9–21·0) 16·6 | (0·7–2·0) -0·1 | (0·5–1·9) -0·2 | (0·6–1·9) -0·2 |
| | High fasting plasma glucose | (11·6–29·7) 38·4 | (11·1–27·9) 40·8 | (11·3–28·8) 39·7 | (13·4–23·2) 45·5 | (11·9–21·7) 47·0 | (12·7–22·5) 46·3 | (-1·6–1·6) 0·5 | (-1·7–1·5) 0·4 | (-1·6–1·5) 0·5 |
| | High LDL cholesterol | (29·5–48·4) 21·0 | (30·4–52·8) 20·5 | (30·1–50·7) 20·9 | (35·8–56·3) 31·4 | (36·4–59·5) 28·0 | (36·1–57·9) 29·8 | (-0·3–1·3) 1·2 | (-0·5–1·3) 0·9 | (-0·4–1·3) 1·1 |
| | High systolic blood pressure | (9·0–39·2) 9·1 | (9·1–39·6) 9·7 | (9·1–39·5) 9·4 | (20·6–46·6) 16·7 | (17·7–44·3) 16·8 | (19·2–45·5) 16·8 | (-0·8–3·5) 1·8 | (-1·2–3·4) 1·7 | (-1·0–3·5) 1·8 |
| | High body-mass index | (7·4–10·8) 2·5 | (7·7–11·8) 2·8 | (7·5–11·2) 2·6 | (14·4–19·6) 2·5 | (14·5–20·2) 2·6 | (14·5–19·9) 2·6 | (1·2–2·5) 0·0 | (1·0–2·4) -0·1 | (1·2–2·5) -0·1 |
| | Kidney dysfunction | (1·6–4·3) 23·4 | (1·9–4·7) 16·8 | (1·8–4·5) 20·2 | (1·6–4·4) 22·6 | (1·7–4·6) 16·3 | (1·6–4·5) 19·5 | (-0·1–0·2) -0·1 | (-0·3–0·1) -0·1 | (-0·2–0·1) -0·1 |
| | Behavioral risks | (18·5–28·2) 40·5 | (13·3–18·6) 24·7 | (16·2–23·2) 32·7 | (18·0–27·4) 37·1 | (13·3–17·8) 22·1 | (16·5–22·3) 29·6 | (-0·3–0·1) -0·3 | (-0·3–0·1) -0·3 | (-0·3–0·1) -0·3 |
| | Tobacco | (30·7–52·8) 46·2 | (22·6–27·6) 3·9 | (27·0–40·0) 25·3 | (27·7–49·6) 40·9 | (20·2–24·6) 2·5 | (24·0–36·7) 21·7 | (-0·6–0·0) -0·4 | (-0·7–0·0) -1·3 | (-0·6–0·0) -0·5 |
| | Smoking | (24·6–73·2) 1·4 | (1·5–9·0) 1·0 | (13·2–40·9) 1·2 | (21·2–68·0) 1·7 | (1·2–6·0) 1·1 | (11·3–37·3) 1·4 | (-0·8–0·0) 0·6 | (-2·9–0·4) 0·1 | (-1·0–0·0) 0·4 |
| | Chewing tobacco | (0·6–2·7) | (0·4–2·1) | (0·5–2·4) | (0·7–3·3) | (0·4–2·1) | (0·6–2·8) | (-2·3–3·6) | (-2·8–3·3) | (-2·5–3·4) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 39·2 | 65·9 | 52·4 | 37·4 | 59·5 | 48·3 | -0·1 | -0·3 | -0·2 |
| | Secondhand smoke | (35·1–43·4) | (61·5–70·0) | (48·1–56·6) | (33·4–42·1) | (54·8–64·6) | (43·9–53·2) | (-0·6–0·3) | (-0·6–0·0) | (-0·6–0·1) |
| | | 8·9 | 1·2 | 5·1 | 9·8 | 1·3 | 5·6 | 0·3 | 0·4 | 0·3 |
| | High alcohol use | (6·4–12·4) | (0·7–1·7) | (3·6–7·1) | (7·3–13·3) | (0·9–2·0) | (4·2–7·7) | (-0·2–0·7) | (-0·9–1·8) | (-0·2–0·8) |
| | | 44·6 | 43·7 | 44·1 | 40·3 | 38·1 | 39·2 | -0·3 | -0·4 | -0·4 |
| | Dietary risks | (35·5–52·6) | (32·1–52·1) | (34·8–52·1) | (30·3–49·6) | (28·6–46·1) | (29·9–47·6) | (-0·9–0·2) | (-1·1–0·2) | (-1·0–0·1) |
| | | 50·1 | 44·7 | 47·4 | 38·3 | 33·2 | 35·7 | -0·8 | -0·9 | -0·9 |
| | Diet low in fruits | (38·2–61·4) | (33·4–55·3) | (35·8–58·2) | (31·1–45·3) | (26·0–39·8) | (28·6–42·5) | (-1·5–0·0) | (-1·6–0·0) | (-1·5–0·0) |
| | | 19·7 | 22·0 | 20·9 | 12·5 | 13·4 | 12·9 | -1·4 | -1·5 | -1·5 |
| | Diet low in vegetables | (10·7–27·6) | (11·9–28·9) | (11·3–28·2) | (7·6–18·6) | (7·8–17·4) | (7·7–16·9) | (-2·9–0·2) | (-2·6–0·0) | (-2·7–0·1) |
| | | 60·3 | 64·2 | 62·2 | 45·8 | 51·0 | 48·4 | -0·8 | -0·7 | -0·8 |
| | Diet low in legumes | (0·0–80·5) | (0·0–83·4) | (0·0–81·9) | (0·0–66·8) | (0·0–72·3) | (0·0–69·5) | (-2·1–0·4) | (-1·8–0·4) | (-1·9–0·4) |
| | | 46·8 | 47·7 | 47·2 | 43·6 | 45·6 | 44·6 | -0·2 | -0·1 | -0·2 |
| | Diet low in whole grains | (36·0–58·9) | (37·4–59·4) | (36·7–58·8) | (33·2–54·7) | (35·1–56·8) | (34·1–55·6) | (-1·1–0·7) | (-1·0–0·8) | (-1·1–0·7) |
| | | 53·6 | 56·6 | 55·1 | 27·6 | 29·5 | 28·6 | -2·0 | -2·0 | -2·0 |
| | Diet low in nuts and seeds | (37·9–67·6) | (41·4–69·9) | (39·7–68·7) | (14·3–43·3) | (15·8–45·3) | (15·1–44·3) | (-4·2–-0·4) | (-4·1–-0·4) | (-4·1–-0·4) |
| | | 28·4 | 19·8 | 24·1 | 37·8 | 26·5 | 32·1 | 0·9 | 0·9 | 0·9 |
| | Diet high in red meat | (0·0–47·3) | (0·0–32·9) | (0·0–40·2) | (0·0–60·5) | (0·0–45·6) | (0·0–53·1) | (-1·4–10·6) | (-1·3–18·6) | (-1·3–11·6) |
| | | 3·4 | 3·1 | 3·3 | 6·7 | 5·8 | 6·2 | 2·0 | 1·9 | 2·0 |
| | Diet high in processed meat | (2·6–4·4) | (2·4–3·9) | (2·5–4·1) | (4·6–9·9) | (4·1–8·4) | (4·4–9·1) | (0·7–3·3) | (0·7–3·1) | (0·7–3·2) |
| | | 3·1 | 2·4 | 2·7 | 12·2 | 8·9 | 10·5 | 4·2 | 4·0 | 4·1 |
| | Diet high in sugar-sweetened beverages | (1·5–5·5) | (1·3–4·1) | (1·4–4·8) | (6·4–21·9) | (4·9–16·1) | (5·6–19·0) | (1·7–7·3) | (1·7–7·0) | (1·7–7·1) |
| | | 45·1 | 48·3 | 46·7 | 25·8 | 27·6 | 26·7 | -1·7 | -1·7 | -1·7 |
| | Diet low in fiber | (23·3–71·4) | (25·4–74·3) | (24·5–72·8) | (10·1–47·4) | (10·9–50·1) | (10·5–48·8) | (-4·4–0·7) | (-4·4–0·6) | (-4·4–0·7) |
| | | 41·2 | 47·7 | 44·5 | 12·8 | 17·8 | 15·3 | -3·5 | -3·0 | -3·2 |
| | Diet low in seafood omega-3 fatty acids | (23·6–55·8) | (31·1–60·2) | (27·3–58·1) | (2·7–27·7) | (4·7–34·0) | (3·7–30·8) | (-7·6–-1·0) | (-6·6–-0·9) | (-7·0–-1·0) |
| | | 72·7 | 70·7 | 71·6 | 46·2 | 43·7 | 45·0 | -1·4 | -1·5 | -1·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (44·8–88·1) | (43·3–86·5) | (44·0–87·3) | (26·3–66·5) | (24·6–63·6) | (25·5–65·0) | (-2·5–-0·5) | (-2·6–-0·5) | (-2·6–-0·5) |
| | | 37·8 | 34·8 | 36·3 | 27·8 | 25·5 | 26·6 | -0·9 | -0·9 | -0·9 |
| | Diet high in trans fatty acids | (24·3–51·0) | (22·4–46·9) | (23·4–49·1) | (17·9–39·3) | (16·5–36·0) | (17·2–37·6) | (-2·3–0·3) | (-2·3–0·3) | (-2·3–0·3) |
| | | 67·8 | 58·9 | 63·4 | 68·4 | 59·4 | 63·9 | 0·0 | 0·0 | 0·0 |
| | Diet high in sodium | (45·5–86·0) | (34·3–78·6) | (40·3–82·4) | (46·7–86·1) | (34·1–79·7) | (40·2–82·7) | (-0·7–0·8) | (-1·2–1·0) | (-0·9–0·8) |
| | | 11·0 | 18·3 | 14·7 | 12·6 | 20·9 | 16·8 | 0·4 | 0·4 | 0·4 |
| | Low physical activity | (8·2–14·3) | (14·8–22·4) | (11·8–17·8) | (9·6–16·8) | (16·6–25·2) | (13·5–20·3) | (-0·4–1·3) | (-0·3–1·0) | (-0·2–0·9) |
| | | 50·2 | 47·9 | 49·0 | 31·7 | 30·1 | 30·9 | -1·4 | -1·4 | -1·4 |
| | Environmental/occupational risks | (39·4–56·6) | (37·5–54·4) | (38·5–55·6) | (23·0–40·8) | (22·1–39·2) | (22·6–39·9) | (-1·9–-0·9) | (-1·9–-0·9) | (-1·9–-0·9) |
| | | 58·4 | 57·8 | 58·1 | 34·6 | 34·8 | 34·7 | -1·6 | -1·5 | -1·6 |
| | Air pollution | (37·8–83·8) | (37·5–83·3) | (37·6–83·4) | (20·5–60·6) | (21·1–60·6) | (20·8–60·7) | (-2·2–-0·8) | (-2·2–-0·7) | (-2·2–-0·7) |
| | | 63·2 | 62·6 | 62·9 | 35·7 | 35·8 | 35·8 | -1·7 | -1·7 | -1·7 |
| | Particulate matter pollution | (35·1–91·7) | (34·7–91·6) | (34·9–91·6) | (19·9–70·1) | (19·9–70·9) | (19·9–70·5) | (-2·3–-0·6) | (-2·3–-0·6) | (-2·3–-0·6) |
| | | 18·2 | 15·1 | 16·7 | 39·8 | 38·5 | 39·2 | 2·4 | 2·8 | 2·6 |
| | Ambient particulate matter pollution | (6·7–56·3) | (5·4–51·7) | (6·1–54·0) | (21·0–70·4) | (20·2–68·5) | (20·6–69·4) | (0·5–4·3) | (0·8–5·0) | (0·7–4·5) |
| | | 46·8 | 49·7 | 48·2 | 7·5 | 9·2 | 8·3 | -5·5 | -5·1 | -5·3 |
| | Household air pollution from solid fuels | (24·4–76·5) | (27·2–80·5) | (25·6–78·3) | (2·6–21·8) | (3·2–25·6) | (2·9–23·8) | (-7·9–-3·5) | (-7·3–-3·1) | (-7·6–-3·3) |
| | | 26·2 | 26·0 | 26·1 | 26·7 | 26·6 | 26·6 | 0·1 | 0·1 | 0·1 |
| | Non-optimal temperature | (25·0–28·0) | (24·8–27·9) | (24·9–28·0) | (25·5–27·8) | (25·4–27·7) | (25·4–27·7) | (-0·2–0·2) | (-0·2–0·2) | (-0·2–0·2) |
| | | 26·2 | 26·1 | 26·2 | 32·1 | 32·0 | 32·0 | 0·6 | 0·6 | 0·6 |
| | High temperature | (23·1–29·1) | (23·0–29·0) | (23·0–29·1) | (28·4–35·1) | (28·4–34·9) | (28·4–35·0) | (0·4–0·8) | (0·4–0·8) | (0·4–0·8) |
| | | 23·7 | 23·6 | 23·7 | 20·4 | 20·3 | 20·3 | -0·5 | -0·5 | -0·5 |
| | Low temperature | (22·7–25·2) | (22·5–25·0) | (22·6–25·1) | (19·2–22·1) | (19·1–22·0) | (19·1–22·0) | (-0·6–-0·4) | (-0·6–-0·4) | (-0·6–-0·4) |
| | | 47·2 | 39·9 | 43·6 | 42·9 | 37·5 | 40·3 | -0·3 | -0·2 | -0·2 |
| | Other environmental risks | (14·5–58·8) | (13·5–52·1) | (14·0–55·3) | (11·9–51·0) | (11·1–45·4) | (11·5–48·4) | (-0·7–0·3) | (-0·7–0·5) | (-0·7–0·4) |
| | | 59·3 | 48·8 | 54·1 | 53·7 | 46·0 | 49·9 | -0·3 | -0·2 | -0·2 |
| | Lead exposure | (10·7–74·2) | (9·4–64·0) | (10·0–69·4) | (8·4–63·4) | (7·3–55·6) | (7·8–59·5) | (-0·8–0·4) | (-0·8–0·6) | (-0·8–0·5) |
| **East Asia** | | | | | | | | | | |
| | | 28·3 | 25·6 | 27·0 | 25·8 | 23·8 | 24·8 | -0·3 | -0·2 | -0·3 |
| | All risk factors | (24·6–31·0) | (21·9–27·2) | (23·0–28·7) | (22·7–28·9) | (20·7–25·6) | (21·8–26·9) | (-0·5–-0·1) | (-0·4–-0·0) | (-0·4–-0·1) |
| | | 13·7 | 13·6 | 13·7 | 22·0 | 19·7 | 20·9 | 1·4 | 1·1 | 1·3 |
| | Metabolic risks | (11·2–16·9) | (11·1–16·8) | (11·3–16·8) | (19·1–25·1) | (16·6–23·4) | (18·0–24·2) | (0·8–2·1) | (0·5–1·9) | (0·6–2·0) |
| | | 20·7 | 19·6 | 20·2 | 19·8 | 17·1 | 18·5 | -0·1 | -0·4 | -0·3 |
| | High fasting plasma glucose | (12·7–34·9) | (12·2–32·8) | (12·5–33·9) | (15·0–27·4) | (12·8–24·5) | (13·9–26·2) | (-1·6–1·7) | (-1·9–1·4) | (-1·7–1·6) |
| | | 37·0 | 38·6 | 37·9 | 46·3 | 46·4 | 46·4 | 0·7 | 0·6 | 0·6 |
| | High LDL cholesterol | (28·1–47·0) | (28·2–50·6) | (28·3–48·9) | (36·5–57·0) | (35·7–58·9) | (36·1–58·0) | (-0·1–1·4) | (-0·4–1·5) | (-0·3–1·4) |
| | | 18·2 | 17·2 | 17·8 | 30·6 | 27·4 | 29·1 | 1·6 | 1·4 | 1·5 |
| | High systolic blood pressure | (6·7–37·3) | (6·5–36·5) | (6·6–37·0) | (15·5–53·1) | (13·2–50·9) | (14·4–52·1) | (-1·5–4·9) | (-1·8–4·8) | (-1·6–4·8) |
| | | 10·8 | 10·9 | 10·8 | 20·2 | 18·4 | 19·3 | 1·9 | 1·6 | 1·8 |
| | High body-mass index | (8·8–12·9) | (8·5–13·4) | (8·6–13·1) | (17·3–23·7) | (15·0–22·8) | (16·2–23·5) | (1·2–2·6) | (0·8–2·5) | (1·1–2·5) |
| | | 2·2 | 2·6 | 2·4 | 2·1 | 2·3 | 2·2 | -0·1 | -0·3 | -0·2 |
| | Kidney dysfunction | (1·5–3·9) | (1·7–4·4) | (1·6–4·2) | (1·4–4·0) | (1·5–4·2) | (1·4–4·1) | (-0·3–0·2) | (-0·5–0·0) | (-0·4–0·1) |
| | | 24·4 | 17·0 | 20·8 | 24·0 | 16·7 | 20·4 | -0·1 | -0·1 | -0·1 |
| | Behavioral risks | (19·4–29·3) | (13·4–18·8) | (17·0–24·0) | (19·2–29·1) | (13·5–18·2) | (17·1–23·5) | (-0·3–0·2) | (-0·3–0·1) | (-0·3–0·1) |
| | | 41·9 | 25·3 | 33·8 | 39·0 | 22·8 | 30·9 | -0·2 | -0·3 | -0·3 |
| | Tobacco | (31·5–54·4) | (23·0–28·3) | (27·7–41·4) | (28·7–51·7) | (20·7–25·6) | (24·7–38·4) | (-0·6–0·1) | (-0·7–0·0) | (-0·6–0·1) |
| | | 48·8 | 3·7 | 26·8 | 44·3 | 2·5 | 23·6 | -0·3 | -1·2 | -0·4 |
| | Smoking | (25·6–77·0) | (1·5–9·2) | (13·8–43·5) | (23·2–72·5) | (1·1–5·9) | (12·2–40·0) | (-0·8–0·2) | (-2·9–0·8) | (-1·0–0·2) |
| | | 0·9 | 0·5 | 0·7 | 1·2 | 0·7 | 0·9 | 0·8 | 1·0 | 0·8 |
| | Chewing tobacco | (0·4–1·9) | (0·2–1·0) | (0·3–1·5) | (0·5–2·4) | (0·2–1·4) | (0·4–1·9) | (-2·4–4·1) | (-2·3–4·5) | (-2·4–4·2) |
| | | 39·8 | 67·8 | 53·4 | 38·5 | 61·9 | 49·8 | -0·1 | -0·3 | -0·2 |
| | Secondhand smoke | (35·1–44·7) | (62·9–72·6) | (48·6–58·3) | (33·5–44·4) | (56·6–67·8) | (44·7–55·8) | (-0·6–0·4) | (-0·6–0·0) | (-0·6–0·2) |
| | | 10·2 | 1·3 | 5·8 | 11·3 | 1·5 | 6·5 | 0·3 | 0·5 | 0·3 |
| | High alcohol use | (7·4–14·2) | (0·8–1·9) | (4·2–8·2) | (8·3–15·4) | (0·9–2·3) | (4·9–8·9) | (-0·2–0·7) | (-0·9–2·1) | (-0·2–0·8) |
| | | 43·7 | 42·6 | 43·2 | 40·2 | 37·6 | 38·9 | -0·2 | -0·4 | -0·3 |
| | Dietary risks | (33·4–53·2) | (31·5–51·7) | (33·4–52·2) | (30·1–50·4) | (27·9–47·0) | (29·0–48·2) | (-0·9–0·3) | (-1·2–0·4) | (-1·0–0·3) |
| | | 52·2 | 46·2 | 49·3 | 39·1 | 33·3 | 36·3 | -0·9 | -1·0 | -0·9 |
| | Diet low in fruits | (39·5–65·3) | (34·2–58·9) | (36·9–62·2) | (31·1–46·3) | (25·2–39·6) | (28·2–43·1) | (-1·6–0·0) | (-1·8–-0·1) | (-1·7–-0·1) |
| | | 11·3 | 13·1 | 12·2 | 3·7 | 4·1 | 3·9 | -3·4 | -3·5 | -3·5 |
| | Diet low in vegetables | (3·3–18·8) | (4·9–19·8) | (4·1–19·2) | (1·2–8·9) | (1·1–9·8) | (1·3–7·0) | (-7·6–0·3) | (-8·0–0·2) | (-6·6–0·3) |
| | | 60·9 | 64·7 | 62·8 | 44·6 | 50·1 | 47·3 | -0·9 | -0·8 | -0·9 |
| | Diet low in legumes | (0·0–82·1) | (0·0–84·9) | (0·0–83·5) | (0·0–66·5) | (0·0–72·3) | (0·0–69·4) | (-2·3–0·4) | (-2·0–0·4) | (-2·1–0·4) |
| | | 46·2 | 46·9 | 46·5 | 42·0 | 43·5 | 42·7 | -0·3 | -0·2 | -0·3 |
| | Diet low in whole grains | (34·1–60·3) | (35·3–60·3) | (34·8–59·9) | (30·4–54·0) | (31·9–55·9) | (31·2–55·2) | (-1·4–0·8) | (-1·2–0·9) | (-1·3–0·9) |
| | | 52·4 | 55·9 | 54·1 | 22·2 | 24·5 | 23·3 | -2·6 | -2·5 | -2·6 |
| | Diet low in nuts and seeds | (35·0–67·1) | (39·0–69·9) | (37·0–68·5) | (7·8–40·4) | (9·3–42·8) | (8·5–41·6) | (-5·9–-0·5) | (-5·5–-0·6) | (-5·7–-0·6) |
| | | 32·9 | 23·1 | 28·0 | 45·3 | 32·0 | 38·7 | 1·0 | 1·0 | 1·0 |
| | Diet high in red meat | (0·0–56·8) | (0·0–39·9) | (0·0–48·2) | (0·0–73·7) | (0·0–57·4) | (0·0–65·5) | (-1·5–10·7) | (-1·3–18·8) | (-1·4–11·7) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 3·6 | 3·3 | 3·4 | 7·8 | 6·7 | 7·3 | 2·3 | 2·1 | 2·3 |
| | Diet high in processed meat | (2·8–4·6) 2·9 | (2·6–4·2) 2·2 | (2·7–4·4) 2·6 | (5·3–11·8) 13·2 | (4·6–10·0) 9·5 | (4·9–10·8) 11·4 | (0·9–3·7) 4·6 | (0·8–3·4) 4·4 | (0·9–3·6) 4·5 |
| | Diet high in sugar-sweetened beverages | (1·5–5·1) 37·0 | (1·2–3·8) 40·1 | (1·3–4·4) 38·6 | (6·4–24·5) 15·1 | (4·8–17·6) 17·2 | (5·6–21·1) 16·1 | (1·9–7·7) -2·7 | (1·8–7·3) -2·6 | (1·8–7·6) -2·6 |
| | Diet low in fiber | (13·5–65·9) 48·3 | (15·7–69·1) 55·3 | (14·6–67·5) 51·7 | (3·0–35·8) 16·8 | (3·8–39·0) 23·3 | (3·4–37·4) 20·0 | (-6·7–0·6) -3·2 | (-6·3–0·5) -2·6 | (-6·5–0·5) -2·9 |
| | Diet low in seafood omega-3 fatty acids | (28·7–63·2) 69·3 | (37·3–67·6) 66·5 | (32·9–65·2) 67·9 | (3·7–34·9) 32·9 | (6·4–42·5) 29·0 | (5·1–38·6) 30·9 | (-7·1–-0·9) -2·3 | (-6·1–-0·8) -2·5 | (-6·5–-0·8) -2·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (43·5–85·7) 41·6 | (41·5–83·4) 38·5 | (42·5–84·5) 40·1 | (14·3–56·0) 34·6 | (11·3–51·6) 32·1 | (12·9–53·8) 33·4 | (-4·8–-0·8) -0·6 | (-5·4–-0·9) -0·6 | (-5·1–-0·8) -0·6 |
| | Diet high in trans fatty acids | (26·7–56·0) 70·7 | (24·7–52·2) 61·9 | (25·7–54·1) 66·4 | (22·2–49·0) 76·6 | (20·6–45·5) 67·9 | (21·4–47·2) 72·3 | (-1·9–0·7) 0·2 | (-1·9–0·7) 0·3 | (-1·9–0·7) 0·3 |
| | Diet high in sodium | (50·2–89·4) 10·9 | (39·0–81·9) 18·4 | (43·8–85·5) 14·7 | (55·0–93·3) 12·9 | (43·8–88·0) 21·7 | (49·0–90·6) 17·3 | (-0·5–1·0) 0·5 | (-0·7–1·2) 0·5 | (-0·6–1·1) 0·5 |
| | Low physical activity | (7·7–14·8) 52·5 | (14·6–23·4) 50·3 | (11·5–18·5) 51·4 | (9·4–18·0) 33·0 | (16·1–26·9) 31·6 | (13·4–21·7) 32·3 | (-0·6–1·6) -1·4 | (-0·4–1·3) -1·4 | (-0·2–1·2) -1·4 |
| | Environmental/occupational risks | (41·8–58·2) 60·6 | (39·7–56·0) 60·1 | (40·7–57·1) 60·4 | (23·6–42·5) 35·9 | (22·7–41·1) 36·1 | (23·2–41·8) 36·0 | (-2·0–-0·8) -1·6 | (-1·9–-0·8) -1·5 | (-2·0–-0·8) -1·6 |
| | Air pollution | (38·9–87·2) 64·8 | (38·4–86·7) 64·2 | (38·7–86·9) 64·5 | (21·2–62·7) 36·7 | (21·7–63·0) 36·7 | (21·5–62·9) 36·7 | (-2·3–-0·8) -1·7 | (-2·3–-0·7) -1·7 | (-2·2–-0·7) -1·7 |
| | Particulate matter pollution | (35·8–93·0) 18·3 | (35·4–93·1) 15·1 | (35·6–93·1) 16·7 | (20·2–72·0) 45·9 | (20·1–72·7) 45·1 | (20·2–72·3) 45·5 | (-2·4–-0·6) 2·8 | (-2·4–-0·6) 3·3 | (-2·4–-0·6) 3·0 |
| | Ambient particulate matter pollution | (5·7–59·4) 48·0 | (4·5–55·3) 51·1 | (5·2–57·8) 49·5 | (24·2–75·0) 4·5 | (23·0–74·5) 5·8 | (23·8–74·7) 5·1 | (0·5–5·2) -7·2 | (0·8–6·1) -6·6 | (0·6–5·6) -6·9 |
| | Household air pollution from solid fuels | (25·3–78·0) 30·2 | (27·7–81·9) 30·2 | (26·4–79·9) 30·2 | (0·9–15·6) 31·4 | (1·2–19·0) 31·4 | (1·0–16·9) 31·4 | (-11·5–-4·6) 0·1 | (-10·9–-4·0) 0·1 | (-11·2–-4·3) 0·1 |
| | Non-optimal temperature | (28·7–32·3) 28·9 | (28·7–32·3) 28·9 | (28·7–32·3) 28·9 | (29·7–32·8) 37·0 | (29·8–32·8) 37·0 | (29·7–32·8) 37·0 | (-0·1–0·3) 0·7 | (-0·1–0·3) 0·7 | (-0·1–0·3) 0·7 |
| | High temperature | (24·5–32·6) 26·8 | (24·5–32·6) 26·8 | (24·5–32·6) 26·8 | (31·8–41·4) 25·2 | (31·8–41·4) 25·2 | (31·8–41·4) 25·2 | (0·5–0·9) -0·2 | (0·5–0·9) -0·2 | (0·5–0·9) -0·2 |
| | Low temperature | (25·4–28·5) 48·9 | (25·4–28·5) 41·7 | (25·4–28·5) 45·4 | (23·4–26·9) 45·2 | (23·4–26·9) 40·0 | (23·4–26·9) 42·7 | (-0·3–-0·1) -0·2 | (-0·3–-0·1) -0·1 | (-0·3–-0·1) -0·2 |
| | Other environmental risks | (16·1–61·8) 60·5 | (15·5–55·3) 50·2 | (15·8–59·0) 55·5 | (14·1–54·5) 55·3 | (13·5–49·6) 47·8 | (13·8–52·0) 51·6 | (-0·8–0·6) -0·3 | (-0·8–0·7) -0·1 | (-0·8–0·6) -0·2 |
| | Lead exposure | (11·2–76·5) | (10·2–66·8) | (10·7–72·1) | (8·8–66·7) | (7·7–59·8) | (8·3–63·2) | (-0·9–0·7) | (-1·0–0·8) | (-0·9–0·8) |
| **Oceania** | | | | | | | | | | |
| | | 25·4 | 25·6 | 25·5 | 24·6 | 26·0 | 25·3 | -0·1 | 0·0 | 0·0 |
| | All risk factors | (21·4–27·9) 17·4 | (21·0–28·0) 19·1 | (21·4–27·7) 18·2 | (21·6–26·9) 22·5 | (22·6–28·3) 24·6 | (22·0–27·4) 23·5 | (-0·4–0·2) 0·8 | (-0·2–0·3) 0·8 | (-0·3–0·2) 0·8 |
| | Metabolic risks | (14·8–20·6) 15·4 | (15·8–23·2) 14·0 | (15·3–21·8) 14·7 | (19·0–25·8) 18·0 | (20·6–28·5) 17·0 | (19·8–27·0) 17·5 | (0·2–1·4) 0·5 | (0·0–1·5) 0·6 | (0·1–1·4) 0·5 |
| | High fasting plasma glucose | (9·7–26·8) 43·9 | (8·6–24·3) 44·4 | (9·1–25·6) 44·2 | (12·0–29·1) 40·6 | (11·2–27·6) 44·1 | (11·7–28·2) 42·3 | (-1·2–2·3) -0·2 | (-1·2–2·5) 0·0 | (-1·2–2·4) -0·1 |
| | High LDL cholesterol | (34·8–53·0) 16·5 | (34·5–54·6) 14·7 | (34·6–53·7) 15·6 | (31·4–52·5) 27·3 | (33·3–58·8) 24·4 | (32·4–55·7) 25·9 | (-1·0–0·5) 1·5 | (-0·9–0·8) 1·5 | (-0·9–0·6) 1·5 |
| | High systolic blood pressure | (9·9–23·3) 17·1 | (9·0–21·0) 20·1 | (9·5–22·2) 18·6 | (17·0–42·4) 23·0 | (15·5–38·1) 26·1 | (16·2–40·3) 24·5 | (-0·7–3·9) 0·9 | (-0·4–3·8) 0·8 | (-0·5–3·8) 0·8 |
| | High body-mass index | (13·7–21·3) 3·0 | (15·2–26·0) 3·1 | (14·5–23·6) 3·1 | (18·8–27·1) 3·1 | (21·6–30·9) 3·3 | (20·2–29·0) 3·2 | (0·1–1·6) 0·1 | (-0·1–1·6) 0·1 | (0·0–1·6) 0·1 |
| | Kidney dysfunction | (2·0–5·0) 17·9 | (2·1–5·3) 18·7 | (2·1–5·1) 18·3 | (2·1–5·2) 17·7 | (2·2–5·5) 19·4 | (2·2–5·3) 18·5 | (0·1–0·2) 0·0 | (0·1–0·2) 0·1 | (0·1–0·2) 0·0 |
| | Behavioral risks | (13·6–22·0) 32·8 | (14·3–21·7) 27·9 | (13·7–21·4) 30·5 | (13·8–21·4) 32·1 | (15·0–21·6) 29·6 | (14·9–21·3) 30·8 | (-0·3–0·3) -0·1 | (-0·2–0·4) 0·2 | (-0·3–0·3) 0·0 |
| | Tobacco | (26·3–43·2) 24·2 | (23·7–35·5) 10·6 | (25·2–39·4) 17·6 | (25·8–41·7) 21·1 | (25·8–36·0) 9·6 | (26·0–39·0) 15·5 | (-0·6–0·4) -0·4 | (-0·4–0·7) -0·3 | (-0·5–0·5) -0·4 |
| | Smoking | (12·3–45·0) 6·6 | (4·0–25·1) 7·9 | (8·5–36·0) 7·2 | (10·2–40·8) 6·6 | (4·5–22·8) 10·6 | (7·6–31·9) 8·6 | (-1·6–0·7) 0·0 | (-2·1–1·6) 0·9 | (-1·5–0·9) 0·5 |
| | Chewing tobacco | (3·0–11·8) 45·5 | (3·5–14·6) 55·3 | (3·3–13·1) 50·3 | (3·0–12·2) 46·3 | (5·6–18·3) 59·3 | (4·4–15·4) 52·7 | (-2·8–2·8) 0·1 | (-1·8–3·8) 0·2 | (-2·2–3·3) 0·1 |
| | Secondhand smoke | (41·0–50·2) 2·7 | (50·7–60·1) 0·5 | (45·7–55·0) 1·7 | (41·3–52·3) 2·6 | (54·3–65·0) 0·6 | (47·7–58·6) 1·6 | (-0·4–0·5) -0·1 | (-0·1–0·6) 0·0 | (-0·2–0·5) -0·1 |
| | High alcohol use | (1·7–3·9) 41·0 | (0·3–0·9) 40·5 | (1·0–2·3) 40·7 | (1·9–3·4) 42·5 | (0·3–0·9) 41·9 | (1·1–2·2) 42·2 | (-1·0–0·7) 0·1 | (-1·5–1·4) 0·1 | (-1·0–0·8) 0·1 |
| | Dietary risks | (26·6–47·9) 36·9 | (20·3–48·4) 32·2 | (23·2–48·1) 34·6 | (30·1–49·4) 34·7 | (23·9–50·4) 30·5 | (27·3–49·9) 32·6 | (-0·3–0·6) -0·2 | (-0·2–0·5) -0·2 | (-0·3–0·5) -0·2 |
| | Diet low in fruits | (25·5–47·5) 60·1 | (21·9–41·3) 58·6 | (23·7–44·6) 59·3 | (23·5–44·8) 62·1 | (20·4–40·1) 60·7 | (22·0–42·5) 61·4 | (-1·3–1·1) 0·1 | (-1·3–1·2) 0·1 | (-1·3–1·2) 0·1 |
| | Diet low in vegetables | (27·5–69·4) 37·4 | (25·9–65·7) 41·1 | (26·7–67·5) 39·2 | (29·1–70·3) 41·8 | (28·5–68·1) 45·4 | (28·8–69·2) 43·5 | (-0·4–0·6) 0·3 | (-0·3–0·6) 0·3 | (-0·4–0·6) 0·3 |
| | Diet low in legumes | (0·0–57·3) 60·2 | (0·0–61·8) 58·3 | (0·0–59·5) 59·3 | (0·0–63·0) 61·2 | (0·0–67·1) 59·9 | (0·0–65·0) 60·6 | (-1·1–1·9) 0·1 | (-1·1–1·8) 0·1 | (-1·1–1·9) 0·1 |
| | Diet low in whole grains | (46·6–72·3) 63·2 | (45·4–68·3) 63·3 | (46·0–70·4) 63·2 | (48·1–73·2) 72·5 | (47·5–70·6) 72·3 | (47·8–71·8) 72·4 | (-0·4–0·5) 0·4 | (-0·3–0·5) 0·4 | (-0·4–0·5) 0·4 |
| | Diet low in nuts and seeds | (46·0–76·8) 23·7 | (46·1–77·2) 17·3 | (46·1–77·0) 20·6 | (59·1–81·4) 22·3 | (58·9–81·5) 16·4 | (59·0–81·3) 19·4 | (-0·3–1·4) -0·2 | (-0·3–1·3) -0·2 | (-0·3–1·3) -0·2 |
| | Diet high in red meat | (0·0–45·6) 3·8 | (0·0–31·8) 3·3 | (0·0–38·9) 3·6 | (0·0–42·7) 4·2 | (0·0–29·5) 3·7 | (0·0–36·2) 3·9 | (-6·2–3·4) 0·3 | (-6·3–7·8) 0·3 | (-6·4–3·3) 0·3 |
| | Diet high in processed meat | (2·8–5·4) 8·1 | (2·5–4·5) 5·8 | (2·6–5·0) 7·0 | (2·9–5·9) 8·6 | (2·6–4·9) 6·8 | (2·8–5·4) 7·7 | (-1·1–1·5) 0·2 | (-0·9–1·4) 0·5 | (-1·0–1·4) 0·3 |
| | Diet high in sugar-sweetened beverages | (2·7–17·3) 7·0 | (2·0–12·9) 7·3 | (2·4–15·2) 7·1 | (3·0–19·0) 3·5 | (2·4–15·6) 3·5 | (2·7–17·2) 3·5 | (-3·2–4·5) -2·1 | (-2·9–4·6) -2·2 | (-3·1–4·5) -2·2 |
| | Diet low in fiber | (2·5–15·0) 22·0 | (2·6–15·4) 28·7 | (2·6–15·2) 25·3 | (0·4–11·9) 24·7 | (0·4–11·9) 31·3 | (0·4–11·9) 27·9 | (-9·2–2·5) 0·3 | (-9·2–2·4) 0·3 | (-9·2–2·4) 0·3 |
| | Diet low in seafood omega-3 fatty acids | (10·5–34·6) 68·2 | (16·2–42·9) 66·4 | (13·3–38·4) 67·3 | (9·0–40·4) 77·9 | (14·7–47·3) 76·4 | (11·8–43·6) 77·2 | (-2·1–2·9) 0·4 | (-1·6–2·3) 0·4 | (-1·8–2·6) 0·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (40·4–80·4) 28·6 | (39·4–78·6) 26·5 | (39·9–79·5) 27·6 | (45·1–90·8) 24·0 | (44·3–89·2) 22·2 | (44·7–90·0) 23·1 | (0·2–0·6) -0·5 | (0·2–0·7) -0·5 | (0·2–0·6) -0·5 |
| | Diet high in trans fatty acids | (18·5–38·9) 27·7 | (17·2–36·0) 23·6 | (17·9–37·5) 25·7 | (15·7–33·9) 31·8 | (14·7–31·4) 26·4 | (15·2–32·6) 29·2 | (-1·9–0·7) 0·4 | (-1·9–0·7) 0·3 | (-1·9–0·7) 0·4 |
| | Diet high in sodium | (9·4–49·8) 14·6 | (5·3–45·1) 34·1 | (7·4–47·4) 24·1 | (9·0–56·3) 13·3 | (4·6–51·9) 32·2 | (6·9–54·1) 22·6 | (-1·8–2·2) -0·3 | (-2·4–2·4) -0·2 | (-2·0–2·2) -0·2 |
| | Low physical activity | (10·9–18·7) 47·5 | (27·5–40·5) 45·5 | (19·5–28·3) 46·5 | (9·5–17·9) 47·1 | (25·4–39·1) 45·1 | (18·1–26·8) 46·1 | (-1·1–0·5) 0·0 | (-1·0–0·6) 0·0 | (-0·8–0·4) 0·0 |
| | Environmental/occupational risks | (38·0–52·3) | (36·2–50·4) | (37·0–51·3) | (37·8–52·6) | (36·0–50·6) | (37·0–51·5) | (-0·2–0·1) | (-0·2–0·1) | (-0·2–0·1) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 51·6 | 51·6 | 51·6 | 49·0 | 48·6 | 48·8 | -0·2 | -0·2 | -0·2 |
| | Air pollution | (33·4–72·1) 59·0 | (33·4–72·8) 59·0 | (33·5–72·3) 59·0 | (31·9–69·8) 55·2 | (31·7–70·0) 54·7 | (31·9–70·1) 54·9 | (-0·4–0·1) -0·2 | (-0·4–0·1) -0·2 | (-0·4–0·1) -0·2 |
| | Particulate matter pollution | (32·3–87·3) 5·9 | (32·5–87·5) 4·8 | (32·3–87·4) 5·3 | (30·9–84·8) 7·0 | (30·7–84·7) 5·7 | (30·8–84·8) 6·4 | (-0·4–0·0) 0·5 | (-0·4–-0·1) 0·5 | (-0·4–-0·1) 0·5 |
| | Ambient particulate matter pollution | (1·2–17·1) 54·8 | (0·9–14·1) 56·0 | (1·1–15·6) 55·4 | (3·3–21·8) 49·7 | (2·4–17·9) 50·8 | (2·8–19·9) 50·2 | (-2·1–4·0) -0·3 | (-2·2–4·1) -0·3 | (-2·2–4·0) -0·3 |
| | Household air pollution from solid fuels | (30·3–83·8) 10·7 | (31·0–85·5) 10·7 | (30·7–84·9) 10·7 | (27·3–79·2) 11·7 | (27·4–80·8) 11·7 | (27·3–80·0) 11·7 | (-0·7–0·1) 0·3 | (-0·6–0·0) 0·3 | (-0·6–0·0) 0·3 |
| | Non-optimal temperature | (8·9–13·9) 9·8 | (8·9–13·8) 9·8 | (8·9–13·8) 9·8 | (9·7–15·0) 13·0 | (9·7–15·0) 13·0 | (9·7–15·0) 13·0 | (-0·1–0·5) 0·9 | (-0·1–0·5) 0·9 | (-0·1–0·5) 0·9 |
| | High temperature | (7·1–14·1) 9·7 | (7·0–14·0) 9·7 | (7·0–14·0) 9·7 | (10·1–16·6) 10·2 | (10·1–16·6) 10·1 | (10·1–16·6) 10·1 | (-0·2–1·3) 0·1 | (-0·2–1·3) 0·1 | (-0·2–1·3) 0·1 |
| | Low temperature | (8·1–12·7) 27·6 | (8·1–12·6) 21·6 | (8·1–12·7) 24·7 | (8·4–13·7) 30·9 | (8·3–13·5) 24·8 | (8·3–13·6) 27·9 | (-0·1–0·4) 0·3 | (-0·1–0·4) 0·4 | (-0·1–0·4) 0·4 |
| | Other environmental risks | (7·3–42·7) 31·1 | (6·6–36·1) 22·4 | (7·0–39·8) 26·9 | (6·8–51·7) 35·8 | (6·0–43·1) 27·0 | (6·4–47·6) 31·5 | (-0·1–0·8) 0·4 | (0·0–0·9) 0·6 | (-0·1–0·9) 0·5 |
| | Lead exposure | (4·5–43·6) | (3·0–30·6) | (3·8–36·8) | (4·7–50·7) | (3·4–38·6) | (4·1–44·9) | (-0·1–1·0) | (0·0–1·2) | (0·0–1·1) |
| **Southeast Asia** | | | | | | | | | | |
| | | 24·3 | 22·8 | 23·6 | 22·9 | 22·1 | 22·5 | -0·2 | -0·1 | -0·1 |
| | All risk factors | (21·0–26·9) 7·3 | (19·4–24·5) 8·9 | (20·1–25·5) 8·1 | (20·0–25·3) 12·0 | (19·3–23·4) 15·1 | (19·8–24·3) 13·6 | (-0·3–0·0) 1·5 | (-0·3–0·1) 1·6 | (-0·3–0·0) 1·6 |
| | Metabolic risks | (6·0–9·0) 10·2 | (7·3–10·7) 9·9 | (6·7–9·9) 10·0 | (10·6–13·7) 11·6 | (13·7–16·6) 12·5 | (12·1–15·1) 12·1 | (1·0–2·2) 0·4 | (1·0–2·2) 0·7 | (1·0–2·2) 0·6 |
| | High fasting plasma glucose | (7·4–13·6) 42·7 | (7·2–13·7) 47·1 | (7·3–13·7) 45·1 | (8·9–15·3) 43·6 | (9·7–16·6) 48·2 | (9·4–15·9) 46·0 | (-0·7–1·5) 0·1 | (-0·4–1·8) 0·1 | (-0·5–1·7) 0·1 |
| | High LDL cholesterol | (34·0–52·8) 30·3 | (36·4–59·9) 30·4 | (35·5–56·3) 30·5 | (34·1–54·7) 33·9 | (37·7–60·5) 29·8 | (36·0–57·5) 31·9 | (-0·7–0·8) 0·3 | (-0·9–0·9) -0·1 | (-0·8–0·8) 0·1 |
| | High systolic blood pressure | (15·9–48·4) 4·6 | (16·5–49·6) 6·7 | (16·2–49·1) 5·7 | (26·9–43·2) 10·2 | (25·0–35·7) 14·2 | (26·1–39·5) 12·2 | (-1·2–2·4) 2·4 | (-1·6–1·8) 2·3 | (-1·4–2·1) 2·3 |
| | High body-mass index | (3·6–5·8) 3·3 | (5·1–8·5) 3·4 | (4·4–7·1) 3·3 | (8·8–11·9) 3·4 | (12·8–15·8) 3·5 | (10·9–13·8) 3·5 | (1·6–3·1) 0·2 | (1·5–3·1) 0·1 | (1·5–3·1) 0·1 |
| | Kidney dysfunction | (2·1–5·5) 20·1 | (2·2–5·7) 16·4 | (2·2–5·6) 18·2 | (2·3–5·7) 19·4 | (2·3–5·8) 15·5 | (2·3–5·8) 17·4 | (0·1–0·2) -0·1 | (0·1–0·2) -0·2 | (0·1–0·2) -0·1 |
| | Behavioral risks | (15·4–24·6) 36·2 | (13·1–18·3) 23·6 | (13·9–21·1) 29·7 | (15·4–23·3) 32·6 | (12·7–17·0) 20·8 | (14·5–20·1) 26·6 | (-0·4–0·1) -0·3 | (-0·4–0·0) -0·4 | (-0·4–0·1) -0·3 |
| | Tobacco | (28·1–47·6) 37·7 | (21·7–26·8) 4·2 | (25·0–36·7) 20·4 | (25·5–43·1) 32·1 | (19·3–23·2) 2·2 | (22·4–32·8) 16·9 | (-0·6–0·0) -0·5 | (-0·7–-0·1) -1·9 | (-0·6–-0·1) -0·6 |
| | Smoking | (20·3–62·6) 2·8 | (1·6–9·5) 2·7 | (10·7–34·7) 2·8 | (16·7–56·8) 2·8 | (0·9–5·3) 2·0 | (8·7–30·7) 2·4 | (-1·0–0·0) -0·1 | (-4·1–0·1) -0·8 | (-1·2–0·0) -0·4 |
| | Chewing tobacco | (1·3–5·0) 37·7 | (1·1–5·1) 61·0 | (1·3–5·1) 49·7 | (1·3–5·1) 35·6 | (0·9–3·9) 55·3 | (1·2–4·6) 45·5 | (-2·7–2·7) -0·2 | (-3·5–2·1) -0·3 | (-3·1–2·4) -0·3 |
| | Secondhand smoke | (35·3–40·1) 4·8 | (57·9–64·0) 0·9 | (46·9–52·4) 2·8 | (33·4–38·2) 6·5 | (52·0–58·6) 1·0 | (42·7–48·4) 3·7 | (-0·5–0·1) 0·9 | (-0·6–0·0) 0·4 | (-0·5–0·0) 0·9 |
| | High alcohol use | (3·3–6·5) 47·4 | (0·5–1·4) 46·5 | (1·9–3·8) 47·0 | (4·9–8·6) 40·4 | (0·6–1·4) 39·0 | (2·8–5·0) 39·7 | (0·4–1·6) -0·5 | (-1·1–1·9) -0·5 | (0·3–1·6) -0·5 |
| | Dietary risks | (36·5–53·0) 43·5 | (29·4–53·7) 40·2 | (33·2–53·2) 41·8 | (29·6–47·8) 35·9 | (27·1–46·9) 32·9 | (28·8–46·8) 34·4 | (-1·1–-0·1) -0·6 | (-1·1–-0·1) -0·6 | (-1·1–-0·1) -0·6 |
| | Diet low in fruits | (34·4–49·7) 46·6 | (31·4–46·2) 47·7 | (32·9–47·9) 47·2 | (28·6–43·3) 33·4 | (25·5–40·0) 34·0 | (27·0–41·6) 33·7 | (-1·3–0·2) -1·0 | (-1·4–0·2) -1·0 | (-1·3–0·2) -1·0 |
| | Diet low in vegetables | (24·8–56·3) 58·8 | (24·8–57·6) 62·7 | (24·8–57·0) 60·8 | (20·5–42·1) 48·6 | (20·0–43·0) 53·0 | (20·2–42·7) 50·8 | (-1·9–-0·2) -0·6 | (-1·9–-0·2) -0·5 | (-1·9–-0·2) -0·5 |
| | Diet low in legumes | (0·0–76·3) 48·0 | (0·0–80·0) 49·5 | (0·0–78·2) 48·8 | (0·0–67·2) 47·1 | (0·0–71·7) 49·7 | (0·0–69·5) 48·5 | (-1·6–0·3) -0·1 | (-1·4–0·3) 0·0 | (-1·5–0·3) 0·0 |
| | Diet low in whole grains | (38·3–54·1) 57·7 | (39·3–55·5) 58·3 | (38·9–54·9) 58·0 | (37·6–55·6) 40·4 | (39·6–57·4) 40·6 | (38·6–56·5) 40·5 | (-0·6–0·5) -1·1 | (-0·5–0·5) -1·1 | (-0·6–0·5) -1·1 |
| | Diet low in nuts and seeds | (45·8–70·2) 13·6 | (46·5–70·7) 10·1 | (46·2–70·5) 11·8 | (28·2–53·2) 19·1 | (28·5–53·3) 13·9 | (28·4–53·3) 16·5 | (-2·4–0·0) 1·0 | (-2·4–0·0) 1·0 | (-2·4–0·0) 1·0 |
| | Diet high in red meat | (0·0–20·5) 2·7 | (0·0–14·6) 2·5 | (0·0–17·4) 2·6 | (0·0–31·3) 3·9 | (0·0–22·8) 3·6 | (0·0–27·0) 3·8 | (-0·1–28·0) 1·1 | (0·0–61·3) 1·1 | (0·0–28·2) 1·1 |
| | Diet high in processed meat | (2·2–3·5) 3·6 | (2·0–3·2) 2·7 | (2·1–3·4) 3·1 | (3·0–5·1) 9·8 | (2·8–4·7) 7·6 | (2·9–4·9) 8·6 | (0·1–2·1) 3·1 | (0·2–2·0) 3·1 | (0·2–2·1) 3·1 |
| | Diet high in sugar-sweetened beverages | (1·8–6·5) 72·4 | (1·4–4·9) 73·0 | (1·6–5·6) 72·7 | (6·4–16·6) 52·1 | (5·0–12·5) 52·0 | (5·6–14·3) 52·0 | (0·9–6·0) -1·0 | (1·1–5·8) -1·0 | (1·0–6·0) -1·0 |
| | Diet low in fiber | (41·9–89·6) 18·3 | (42·1–89·8) 25·7 | (42·0–89·7) 22·2 | (23·3–76·9) 3·0 | (23·3–76·8) 5·4 | (23·3–76·8) 4·2 | (-2·9–0·4) -5·5 | (-2·9–0·4) -4·7 | (-2·9–0·4) -5·0 |
| | Diet low in seafood omega-3 fatty acids | (6·9–31·6) 83·8 | (12·6–39·4) 83·2 | (9·9–35·7) 83·5 | (0·2–9·9) 78·6 | (0·5–15·1) 77·2 | (0·3–12·6) 77·8 | (-13·0–-1·3) -0·2 | (-11·3–-1·2) -0·2 | (-11·8–-1·3) -0·2 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·2–96·5) 25·5 | (48·1–95·9) 23·7 | (48·1–96·2) 24·6 | (46·7–92·7) 10·9 | (46·0–91·5) 10·3 | (46·3–92·1) 10·6 | (-0·4–0·0) -2·6 | (-0·5–0·0) -2·5 | (-0·4–0·0) -2·6 |
| | Diet high in trans fatty acids | (16·7–34·3) 59·2 | (15·6–31·8) 50·2 | (16·1–32·8) 54·5 | (7·3–15·3) 51·4 | (7·0–14·3) 41·4 | (7·1–14·8) 46·2 | (-4·0–-0·9) -0·4 | (-4·0–-0·9) -0·6 | (-4·0–-0·9) -0·5 |
| | Diet high in sodium | (28·0–82·1) 11·3 | (17·3–72·0) 17·7 | (22·4–76·4) 14·6 | (17·3–78·2) 11·9 | (8·9–68·7) 19·2 | (12·7–73·4) 15·6 | (-3·0–0·7) 0·2 | (-3·7–0·7) 0·2 | (-3·3–0·7) 0·2 |
| | Low physical activity | (8·7–13·6) 44·4 | (14·9–20·5) 42·1 | (11·9–17·0) 43·2 | (9·4–14·6) 28·2 | (15·6–22·1) 26·5 | (13·2–18·2) 27·3 | (-0·4–0·8) -1·4 | (-0·2–0·7) -1·4 | (-0·2–0·6) -1·4 |
| | Environmental/occupational risks | (34·0–52·6) 52·5 | (32·4–50·4) 52·4 | (33·2–51·5) 52·4 | (20·8–37·8) 31·7 | (19·6–36·2) 32·1 | (20·4–37·1) 31·9 | (-1·8–-0·9) -1·5 | (-1·8–-0·9) -1·5 | (-1·8–-0·9) -1·5 |
| | Air pollution | (33·4–77·0) 58·9 | (33·5–76·8) 58·6 | (33·5–76·9) 58·8 | (18·6–56·2) 33·3 | (19·2–57·1) 33·6 | (18·9–56·6) 33·5 | (-2·3–-0·7) -1·7 | (-2·1–-0·6) -1·7 | (-2·2–-0·6) -1·7 |
| | Particulate matter pollution | (33·0–89·1) 18·3 | (32·8–89·0) 15·4 | (32·9–89·1) 16·8 | (18·9–66·8) 28·8 | (19·1–67·7) 27·0 | (19·0–67·2) 27·9 | (-2·3–-0·6) 1·4 | (-2·3–-0·6) 1·7 | (-2·3–-0·6) 1·5 |
| | Ambient particulate matter pollution | (6·5–48·5) 43·2 | (5·3–44·8) 46·1 | (6·0–46·5) 44·7 | (15·5–62·2) 12·2 | (14·0–58·9) 14·3 | (14·9–60·5) 13·3 | (-0·4–3·7) -3·8 | (-0·1–4·1) -3·5 | (-0·2–3·9) -3·7 |
| | Household air pollution from solid fuels | (22·6–73·1) 15·6 | (25·3–76·6) 15·8 | (24·3–74·9) 15·7 | (5·2–31·4) 18·0 | (6·5–34·4) 18·2 | (5·9–32·9) 18·1 | (-5·4–-2·5) 0·4 | (-4·9–-2·4) 0·4 | (-5·1–-2·4) 0·4 |
| | Non-optimal temperature | (12·9–19·4) 19·2 | (13·1–19·6) 19·4 | (13·0–19·5) 19·3 | (15·9–20·5) 23·3 | (16·1–20·7) 23·5 | (16·0–20·6) 23·4 | (0·0–0·9) 0·6 | (0·0–0·9) 0·6 | (0·0–0·9) 0·6 |
| | High temperature | (15·9–23·2) 15·6 | (16·0–23·4) 15·8 | (16·0–23·3) 15·7 | (20·5–26·6) 11·5 | (20·7–26·8) 11·8 | (20·6–26·7) 11·7 | (0·1–0·9) -0·9 | (0·2–0·9) -0·9 | (0·2–0·9) -0·9 |
| | Low temperature | (13·0–18·3) 42·0 | (13·2–18·5) 34·7 | (13·1–18·4) 38·2 | (9·9–13·6) 38·3 | (10·2–14·0) 32·6 | (10·0–13·8) 35·4 | (-1·2–-0·6) -0·3 | (-1·1–-0·6) -0·2 | (-1·1–-0·6) -0·2 |
| | Other environmental risks | (9·4–51·8) 55·4 | (8·2–44·2) 44·8 | (8·8–47·7) 49·9 | (8·3–46·4) 49·9 | (7·5–39·8) 41·7 | (7·9–42·9) 45·7 | (-0·6–0·1) -0·3 | (-0·5–0·3) -0·2 | (-0·5–0·2) -0·3 |
| | Lead exposure | (8·9–68·7) | (7·1–57·8) | (8·0–62·9) | (7·5–61·1) | (6·3–50·9) | (6·9–55·8) | (-0·7–0·1) | (-0·6–0·3) | (-0·6–0·2) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| **Sub-Saharan Africa** | | | | | | | | | | |
| | All risk factors | 22·5 (18·6–24·7) 9·5 | 23·3 (19·2–25·3) 12·3 | 22·9 (19·1–25·1) 10·9 | 21·7 (18·0–23·8) 14·2 | 23·5 (19·9–25·1) 18·2 | 22·6 (19·0–24·2) 16·3 | -0·1 (-0·3–0·0) 1·2 | 0·0 (-0·2–0·2) 1·2 | 0·0 (-0·2–0·1) 1·2 |
| | Metabolic risks | (7·8–11·6) 9·8 | (10·1–14·9) 9·1 | (9·1–13·3) 9·5 | (12·5–16·1) 12·4 | (16·1–20·1) 12·8 | (14·5–18·1) 12·6 | (0·6–1·9) 0·7 | (0·6–1·9) 1·0 | (0·6–1·9) 0·9 |
| | High fasting plasma glucose | (6·6–15·4) 27·9 | (5·9–15·0) 32·6 | (6·3–15·2) 30·3 | (8·7–18·1) 31·3 | (8·6–19·9) 36·1 | (8·6–19·0) 33·9 | (-0·9–2·3) 0·3 | (-0·7–2·8) 0·3 | (-0·8–2·6) 0·3 |
| | High LDL cholesterol | (20·6–36·3) 28·7 | (23·6–43·4) 27·1 | (22·1–40·1) 27·9 | (23·5–40·0) 37·5 | (26·6–47·8) 35·5 | (25·3–44·4) 36·5 | (-0·4–1·1) 0·8 | (-0·7–1·3) 0·8 | (-0·6–1·2) 0·8 |
| | High systolic blood pressure | (14·4–47·8) 7·6 | (13·5–47·6) 11·8 | (13·9–47·7) 9·7 | (30·7–45·3) 13·0 | (28·6–44·7) 18·8 | (29·7–45·0) 16·0 | (-0·7–2·8) 1·6 | (-0·9–2·9) 1·4 | (-0·8–2·8) 1·5 |
| | High body-mass index | (6·0–9·7) 3·2 | (9·2–14·8) 3·3 | (7·7–12·2) 3·3 | (11·0–15·1) 3·2 | (16·4–21·1) 3·4 | (13·9–18·2) 3·3 | (0·9–2·4) 0·0 | (0·7–2·2) 0·1 | (0·8–2·2) 0·0 |
| | Kidney dysfunction | (2·1–5·4) 14·1 | (2·1–5·5) 14·9 | (2·1–5·4) 14·5 | (2·1–5·4) 13·2 | (2·2–5·6) 14·2 | (2·2–5·5) 13·7 | (0·0–0·0) -0·2 | (0·0–0·1) -0·2 | (0·0–0·1) -0·2 |
| | Behavioral risks | (9·7–17·1) 14·2 | (10·6–17·3) 10·1 | (10·3–17·0) 12·1 | (9·1–16·0) 11·4 | (10·3–15·9) 7·5 | (9·8–15·9) 9·4 | (-0·5–0·0) -0·6 | (-0·5–0·2) -0·9 | (-0·5–0·1) -0·8 |
| | Tobacco | (10·7–20·4) 12·7 | (8·6–12·3) 2·8 | (9·7–16·0) 7·7 | (8·6–16·5) 9·9 | (6·5–9·0) 1·8 | (7·5–12·5) 5·7 | (-1·3–-0·1) -0·8 | (-1·5–-0·3) -1·4 | (-1·4–-0·2) -0·9 |
| | Smoking | (6·4–25·9) 1·4 | (1·1–6·9) 1·1 | (3·8–16·3) 1·2 | (4·6–21·0) 1·3 | (0·7–4·3) 1·0 | (2·6–12·5) 1·1 | (-1·8–0·2) -0·2 | (-3·2–0·5) -0·3 | (-2·1–0·2) -0·3 |
| | Chewing tobacco | (0·6–2·7) 21·0 | (0·4–2·2) 26·0 | (0·5–2·4) 23·5 | (0·6–2·5) 18·4 | (0·4–1·9) 20·0 | (0·5–2·2) 19·2 | (-3·0–2·6) -0·4 | (-3·3–2·9) -0·8 | (-3·2–2·8) -0·6 |
| | Secondhand smoke | (18·4–23·9) 5·2 | (23·2–29·1) 2·3 | (20·8–26·5) 3·7 | (16·0–21·0) 5·3 | (17·4–23·0) 2·1 | (16·7–22·1) 3·7 | (-1·0–0·2) 0·1 | (-1·4–-0·2) -0·2 | (-1·2–0·0) 0·0 |
| | High alcohol use | (3·7–7·1) 40·8 | (1·4–3·6) 41·0 | (2·6–5·3) 40·9 | (3·8–7·1) 38·3 | (1·4–2·9) 39·2 | (2·6–4·8) 38·8 | (-0·5–0·7) -0·2 | (-1·3–1·1) -0·1 | (-0·7–0·7) -0·2 |
| | Dietary risks | (28·5–48·9) 45·7 | (24·4–50·0) 44·8 | (26·4–49·5) 45·3 | (27·7–46·0) 46·3 | (24·5–47·6) 45·9 | (25·9–46·9) 46·1 | (-0·6–0·3) 0·0 | (-0·5–0·3) 0·1 | (-0·6–0·3) 0·1 |
| | Diet low in fruits | (35·5–53·2) 56·1 | (34·2–51·9) 54·6 | (34·8–52·7) 55·3 | (36·4–54·7) 50·7 | (36·1–54·6) 49·4 | (36·3–54·7) 50·1 | (-0·6–0·8) -0·3 | (-0·6–0·9) -0·3 | (-0·6–0·9) -0·3 |
| | Diet low in vegetables | (29·2–66·1) 46·5 | (28·1–64·3) 49·9 | (28·6–65·2) 48·2 | (27·6–61·3) 38·8 | (26·5–60·2) 41·9 | (27·0–60·7) 40·4 | (-1·0–0·4) -0·5 | (-1·0–0·4) -0·5 | (-1·0–0·4) -0·5 |
| | Diet low in legumes | (0·0–61·8) 17·3 | (0·0–65·5) 19·0 | (0·0–63·7) 18·1 | (0·0–54·2) 19·6 | (0·0–57·9) 22·0 | (0·0–56·1) 20·9 | (-1·5–0·4) 0·4 | (-1·4–0·3) 0·4 | (-1·5–0·4) 0·4 |
| | Diet low in whole grains | (11·5–24·7) 46·7 | (13·1–26·4) 47·5 | (12·3–25·7) 47·1 | (11·9–29·4) 35·3 | (13·7–32·6) 35·0 | (12·9–31·1) 35·2 | (-1·4–2·0) -0·8 | (-1·2–1·9) -0·9 | (-1·3–2·0) -0·9 |
| | Diet low in nuts and seeds | (38·5–56·8) 17·8 | (39·4–57·5) 13·1 | (39·0–57·2) 15·4 | (25·5–45·7) 18·7 | (25·3–45·4) 13·9 | (25·4–45·5) 16·2 | (-1·9–0·1) 0·1 | (-2·0–0·0) 0·2 | (-1·9–0·0) 0·1 |
| | Diet high in red meat | (0·0–26·5) 6·1 | (0·0–19·4) 5·2 | (0·0–22·9) 5·7 | (0·0–27·7) 6·7 | (0·0–20·4) 6·0 | (0·0–23·9) 6·3 | (-0·8–1·6) 0·2 | (-0·9–2·7) 0·5 | (-0·8–1·9) 0·3 |
| | Diet high in processed meat | (4·0–9·3) 3·7 | (3·5–7·6) 3·1 | (3·8–8·4) 3·4 | (4·2–9·8) 6·5 | (3·8–8·7) 5·3 | (4·0–9·2) 5·9 | (-1·4–1·8) 1·7 | (-1·1–1·8) 1·7 | (-1·3–1·8) 1·7 |
| | Diet high in sugar-sweetened beverages | (1·5–7·6) 8·1 | (1·3–6·1) 10·2 | (1·4–6·8) 9·2 | (4·0–11·9) 5·9 | (3·4–9·4) 7·3 | (3·7–10·6) 6·7 | (-0·3–4·1) -1·0 | (-0·3–3·9) -1·0 | (-0·3–4·0) -1·0 |
| | Diet low in fiber | (3·8–14·9) 50·3 | (5·0–18·3) 56·4 | (4·4–16·6) 53·4 | (2·3–12·0) 44·0 | (2·9–14·8) 50·1 | (2·6–13·5) 47·2 | (-4·4–2·3) -0·4 | (-4·3–2·2) -0·4 | (-4·3–2·3) -0·4 |
| | Diet low in seafood omega-3 fatty acids | (39·4–60·9) 84·6 | (45·8–66·0) 83·8 | (42·7–63·5) 84·2 | (29·1–56·6) 81·6 | (34·6–61·7) 80·2 | (32·0–59·2) 80·8 | (-1·4–0·7) -0·1 | (-1·3–0·5) -0·1 | (-1·3–0·6) -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·5–97·2) 25·8 | (48·2–96·5) 23·8 | (48·3–96·8) 24·7 | (47·4–94·8) 21·2 | (46·6–93·5) 19·6 | (47·0–94·1) 20·3 | (-0·2–0·0) -0·6 | (-0·3–0·0) -0·6 | (-0·3–0·0) -0·6 |
| | Diet high in trans fatty acids | (16·8–34·9) 25·4 | (15·6–31·9) 22·7 | (16·2–33·3) 24·0 | (14·0–29·9) 20·9 | (13·0–27·6) 20·8 | (13·5–28·7) 20·8 | (-1·9–0·7) -0·6 | (-1·9–0·6) -0·3 | (-1·9–0·6) -0·4 |
| | Diet high in sodium | (3·0–55·4) 9·0 | (2·5–51·8) 16·0 | (2·7–53·6) 12·5 | (1·4–52·8) 9·1 | (1·9–50·9) 17·4 | (1·6–52·3) 13·4 | (-5·9–2·0) 0·0 | (-4·0–2·3) 0·3 | (-4·9–2·1) 0·2 |
| | Low physical activity | (7·2–11·1) 54·0 | (13·1–18·6) 51·9 | (10·3–14·8) 52·9 | (7·2–11·1) 51·6 | (14·4–20·3) 49·6 | (11·1–15·9) 50·6 | (-0·4–0·5) -0·1 | (0·0–0·6) -0·1 | (-0·1–0·5) -0·1 |
| | Environmental/occupational risks | (44·6–58·2) 57·4 | (42·0–56·1) 57·0 | (43·2–57·1) 57·2 | (41·9–56·7) 53·1 | (40·0–55·0) 52·5 | (40·9–55·8) 52·8 | (-0·3–0·0) -0·2 | (-0·3–0·0) -0·2 | (-0·3–0·0) -0·2 |
| | Air pollution | (37·9–78·0) 65·1 | (37·4–77·9) 64·6 | (37·6–77·8) 64·8 | (35·6–74·3) 59·8 | (35·1–74·2) 59·1 | (35·4–74·3) 59·4 | (-0·3–-0·1) -0·3 | (-0·3–-0·1) -0·3 | (-0·3–-0·1) -0·3 |
| | Particulate matter pollution | (36·0–91·8) 14·3 | (35·8–91·8) 11·9 | (35·9–91·8) 13·1 | (32·9–87·5) 19·3 | (32·5–87·1) 16·9 | (32·7–87·3) 18·0 | (-0·4–-0·1) 0·9 | (-0·4–-0·1) 1·1 | (-0·4–-0·1) 1·0 |
| | Ambient particulate matter pollution | (6·6–40·7) 52·7 | (5·3–35·6) 55·1 | (5·9–38·0) 53·9 | (9·8–47·5) 43·6 | (7·9–42·8) 45·5 | (8·8–45·1) 44·6 | (0·3–1·6) -0·6 | (0·5–1·8) -0·6 | (0·4–1·7) -0·6 |
| | Household air pollution from solid fuels | (29·2–81·7) 20·7 | (30·1–84·7) 20·6 | (29·7–83·3) 20·6 | (23·6–72·0) 24·7 | (24·6–74·7) 24·6 | (24·3–73·4) 24·6 | (-0·8–-0·3) 0·5 | (-0·8–-0·3) 0·5 | (-0·8–-0·3) 0·5 |
| | Non-optimal temperature | (17·6–25·8) 25·4 | (17·5–25·7) 25·3 | (17·6–25·7) 25·4 | (21·4–29·7) 29·7 | (21·3–29·6) 29·6 | (21·4–29·6) 29·6 | (0·0–1·0) 0·5 | (0·0–1·0) 0·5 | (0·0–1·0) 0·5 |
| | High temperature | (22·3–29·8) 17·7 | (22·1–29·6) 17·6 | (22·2–29·7) 17·6 | (26·1–34·6) 16·6 | (26·1–34·4) 16·5 | (26·1–34·5) 16·5 | (0·1–0·8) -0·2 | (0·1–0·8) -0·2 | (0·1–0·8) -0·2 |
| | Low temperature | (15·0–21·7) 43·6 | (15·0–21·6) 37·2 | (15·0–21·7) 40·3 | (14·0–20·3) 47·6 | (13·9–20·2) 42·3 | (13·9–20·2) 44·8 | (-0·4–0·0) 0·3 | (-0·4–0·0) 0·4 | (-0·4–0·0) 0·3 |
| | Other environmental risks | (13·4–53·2) 51·6 | (12·5–46·6) 42·4 | (13·0–49·7) 46·9 | (13·9–56·7) 57·4 | (13·1–51·5) 49·7 | (13·5–54·0) 53·4 | (0·0–0·7) 0·3 | (0·0–0·9) 0·5 | (0·0–0·8) 0·4 |
| | Lead exposure | (8·0–63·1) | (6·6–53·0) | (7·3–58·1) | (8·6–67·4) | (7·5–58·8) | (8·0–62·9) | (0·0–0·8) | (0·1–1·1) | (0·0–0·9) |
| **Central Sub-Saharan Africa** | | | | | | | | | | |
| | All risk factors | 23·4 (19·3–25·7) 13·7 | 24·4 (19·9–26·5) 13·6 | 24·0 (19·5–25·9) 13·7 | 23·2 (19·6–25·7) 19·0 | 24·2 (20·6–26·1) 19·3 | 23·7 (20·3–25·5) 19·2 | 0·0 (-0·2–0·2) 1·0 | 0·0 (-0·3–0·2) 1·1 | 0·0 (-0·2–0·2) 1·0 |
| | Metabolic risks | (11·1–17·5) 26·6 | (10·4–17·9) 24·1 | (10·8–17·9) 25·3 | (16·3–22·0) 29·5 | (16·4–22·9) 27·3 | (16·4–22·6) 28·4 | (0·2–1·6) 0·3 | (0·2–1·9) 0·4 | (0·2–1·8) 0·3 |
| | High fasting plasma glucose | (18·0–42·8) 30·8 | (15·1–42·2) 37·1 | (16·5–42·6) 34·1 | (20·7–43·1) 33·1 | (18·3–42·6) 38·4 | (19·5–42·3) 35·9 | (-1·3–2·0) 0·2 | (-1·5–2·4) 0·1 | (-1·4–2·2) 0·2 |
| | High LDL cholesterol | (22·5–40·3) 40·2 | (26·6–49·9) 31·5 | (24·6–45·0) 35·7 | (24·8–43·0) 34·9 | (27·8–52·3) 28·8 | (26·5–48·0) 31·9 | (-0·6–1·1) -0·4 | (-1·1–1·2) -0·3 | (-0·9–1·2) -0·3 |
| | High systolic blood pressure | (19·2–67·4) 8·7 | (13·4–58·9) 9·9 | (16·2–63·1) 9·3 | (26·1–47·5) 15·9 | (20·9–40·9) 17·4 | (23·6–44·3) 16·7 | (-2·0–1·6) 1·8 | (-2·1–2·3) 1·7 | (-2·1–1·9) 1·8 |
| | High body-mass index | (6·9–11·3) 4·1 | (7·3–12·9) 4·0 | (7·1–12·1) 4·0 | (12·8–19·2) 4·1 | (13·9–21·2) 4·0 | (13·6–20·0) 4·0 | (0·9–2·7) 0·0 | (0·7–2·7) 0·0 | (0·8–2·7) 0·0 |
| | Kidney dysfunction | (2·6–6·6) | (2·5–6·4) | (2·6–6·5) | (2·6–6·5) | (2·5–6·4) | (2·6–6·4) | (-0·1–0·0) | (0·0–0·1) | (0·0–0·1) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 13·8 | 14·5 | 14·2 | 13·8 | 14·3 | 14·0 | 0·0 | 0·0 | 0·0 |
| | Behavioral risks | (9·4–16·8) 13·4 | (9·7–16·9) 8·8 | (9·2–16·2) 11·0 | (9·9–16·6) 12·3 | (10·1–16·2) 7·9 | (10·1–16·1) 10·0 | (-0·4–0·3) -0·3 | (-0·5–0·3) -0·3 | (-0·4–0·3) -0·3 |
| | Tobacco | (9·9–20·0) 11·8 | (7·2–10·4) 1·1 | (8·6–14·8) 6·2 | (9·1–18·2) 10·2 | (6·8–9·5) 1·0 | (8·1–13·3) 5·5 | (-1·1–0·5) -0·5 | (-1·1–0·5) -0·5 | (-1·0–0·4) -0·4 |
| | Smoking | (5·5–25·8) 1·0 | (0·4–3·1) 0·9 | (2·8–13·9) 1·0 | (4·6–22·3) 1·1 | (0·3–2·6) 0·6 | (2·4–12·2) 0·9 | (-2·0–1·0) 0·4 | (-4·2–3·1) -1·2 | (-2·1–1·2) -0·3 |
| | Chewing tobacco | (0·4–2·0) 20·4 | (0·4–1·9) 23·7 | (0·4–2·0) 22·1 | (0·4–2·3) 19·6 | (0·2–1·3) 21·6 | (0·3–1·8) 20·6 | (-2·7–3·7) -0·1 | (-4·5–2·3) -0·3 | (-3·5–3·1) -0·2 |
| | Secondhand smoke | (17·1–24·0) 5·6 | (20·0–27·7) 2·0 | (18·6–25·9) 3·8 | (16·4–23·2) 6·7 | (18·3–25·5) 2·6 | (17·4–24·4) 4·6 | (-0·8–0·6) 0·5 | (-1·0–0·4) 0·7 | (-0·9–0·5) 0·6 |
| | High alcohol use | (4·0–7·7) 40·1 | (1·2–3·3) 39·0 | (2·5–5·5) 39·5 | (4·9–9·0) 40·3 | (1·7–3·6) 39·8 | (3·3–6·1) 40·1 | (-0·1–1·2) 0·0 | (-0·6–2·2) 0·1 | (-0·2–1·5) 0·0 |
| | Dietary risks | (29·0–47·8) 39·8 | (22·5–47·3) 38·6 | (25·7–47·6) 39·2 | (28·8–48·1) 44·8 | (23·3–48·4) 43·8 | (25·9–48·1) 44·3 | (-0·3–0·4) 0·4 | (-0·2–0·4) 0·4 | (-0·3–0·4) 0·4 |
| | Diet low in fruits | (28·1–49·6) 75·3 | (26·9–48·6) 73·3 | (27·6–49·1) 74·3 | (32·3–56·6) 74·2 | (31·9–55·1) 72·0 | (32·1–55·8) 73·1 | (-0·7–1·6) 0·0 | (-0·7–1·7) -0·1 | (-0·7–1·6) 0·0 |
| | Diet low in vegetables | (34·8–83·4) 48·9 | (33·2–81·7) 53·2 | (34·0–82·3) 51·1 | (34·2–82·1) 55·1 | (32·4–79·6) 58·5 | (33·2–81·0) 56·9 | (-0·3–0·3) 0·4 | (-0·4–0·3) 0·3 | (-0·4–0·3) 0·3 |
| | Diet low in legumes | (0·0–67·0) 43·4 | (0·0–71·5) 46·0 | (0·0–69·4) 44·8 | (0·0–74·9) 47·5 | (0·0–78·0) 49·6 | (0·0–76·5) 48·6 | (-0·6–1·5) 0·3 | (-0·6–1·3) 0·2 | (-0·6–1·4) 0·2 |
| | Diet low in whole grains | (31·7–55·3) 22·2 | (33·5–58·9) 21·5 | (32·8–57·1) 21·8 | (34·3–61·6) 33·3 | (36·0–63·5) 33·8 | (35·3–62·7) 33·6 | (-0·9–1·4) 1·2 | (-0·9–1·3) 1·4 | (-0·9–1·4) 1·3 |
| | Diet low in nuts and seeds | (14·9–31·6) 13·8 | (14·2–31·0) 9·5 | (14·5–31·3) 11·6 | (18·3–49·2) 12·9 | (18·8–49·7) 9·4 | (18·5–49·4) 11·1 | (-0·7–2·8) -0·2 | (-0·6–2·9) 0·0 | (-0·7–2·9) -0·1 |
| | Diet high in red meat | (0·0–20·3) 5·5 | (0·0–14·3) 5·0 | (0·0–17·1) 5·2 | (0·0–21·1) 5·6 | (0·0–15·0) 5·2 | (0·0–17·9) 5·4 | (-2·0–1·6) 0·1 | (-7·4–1·4) 0·1 | (-2·0–1·5) 0·1 |
| | Diet high in processed meat | (3·7–8·1) 6·8 | (3·5–7·1) 5·4 | (3·6–7·5) 6·1 | (3·5–8·1) 4·8 | (3·2–7·5) 3·8 | (3·3–7·8) 4·3 | (-1·6–1·5) -1·1 | (-1·3–1·5) -1·1 | (-1·5–1·5) -1·1 |
| | Diet high in sugar-sweetened beverages | (2·2–16·3) 8·3 | (1·9–12·6) 10·0 | (2·0–14·4) 9·2 | (1·8–11·1) 9·3 | (1·5–8·7) 11·9 | (1·6–9·9) 10·6 | (-4·5–3·3) 0·3 | (-4·3–3·1) 0·5 | (-4·4–3·2) 0·4 |
| | Diet low in fiber | (3·6–14·5) 38·4 | (4·7–16·8) 46·2 | (4·2–15·7) 42·5 | (2·3–21·4) 42·4 | (3·4–26·0) 49·1 | (2·8–23·8) 45·9 | (-4·3–3·8) 0·3 | (-3·8–3·7) 0·2 | (-4·0–3·7) 0·2 |
| | Diet low in seafood omega-3 fatty acids | (25·0–52·6) 82·0 | (32·6–58·5) 81·6 | (29·0–55·6) 81·8 | (25·3–55·3) 84·1 | (31·3–60·8) 83·1 | (28·5–58·1) 83·6 | (-1·1–1·8) 0·1 | (-0·9–1·4) 0·1 | (-1·0–1·6) 0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (47·2–94·7) 26·5 | (46·7–94·4) 24·6 | (46·9–94·6) 25·5 | (48·4–97·0) 23·2 | (47·9–96·2) 21·6 | (48·2–96·6) 22·4 | (0·0–0·2) -0·4 | (-0·1–0·2) -0·4 | (0·0–0·2) -0·4 |
| | Diet high in trans fatty acids | (17·2–36·0) 14·0 | (16·1–33·3) 10·4 | (16·6–34·6) 12·1 | (15·3–32·8) 14·8 | (14·4–30·4) 11·5 | (14·8–31·5) 13·0 | (-1·8–0·9) 0·2 | (-1·7–0·9) 0·3 | (-1·7–0·9) 0·2 |
| | Diet high in sodium | (0·0–45·1) 13·6 | (0·0–37·0) 19·2 | (0·0–40·2) 16·5 | (0·1–47·6) 11·9 | (0·0–39·4) 19·0 | (0·0–43·5) 15·5 | (-7·8–20·7) -0·4 | (-12·3–20·9) 0·0 | (-8·3–20·2) -0·2 |
| | Low physical activity | (10·1–18·1) 54·9 | (13·9–24·6) 52·7 | (12·7–20·7) 53·8 | (8·3–16·5) 50·1 | (14·1–24·0) 48·0 | (12·0–19·5) 49·0 | (-1·3–0·7) -0·3 | (-0·9–0·9) -0·3 | (-0·8–0·5) -0·3 |
| | Environmental/occupational risks | (44·3–59·9) 60·0 | (42·7–57·9) 59·6 | (43·6–58·8) 59·8 | (39·0–56·9) 52·6 | (37·0–54·8) 51·9 | (38·0–55·8) 52·2 | (-0·6–-0·1) -0·4 | (-0·6–-0·1) -0·4 | (-0·6–-0·1) -0·4 |
| | Air pollution | (40·4–81·5) 66·5 | (39·9–81·4) 66·1 | (40·2–81·4) 66·3 | (34·9–74·2) 58·0 | (34·0–74·0) 57·2 | (34·4–74·1) 57·6 | (-0·5–-0·2) -0·4 | (-0·5–-0·2) -0·4 | (-0·5–-0·2) -0·4 |
| | Particulate matter pollution | (37·1–93·8) 13·0 | (37·0–93·9) 10·6 | (37·1–93·9) 11·7 | (32·6–85·8) 16·7 | (32·1–85·2) 14·3 | (32·4–85·5) 15·5 | (-0·5–-0·2) 0·8 | (-0·6–-0·2) 0·9 | (-0·5–-0·2) 0·8 |
| | Ambient particulate matter pollution | (5·4–43·2) 54·8 | (4·1–37·4) 57·4 | (4·8–40·2) 56·1 | (8·4–49·1) 44·1 | (6·7–43·7) 46·1 | (7·4–46·4) 45·2 | (-0·4–1·9) -0·7 | (-0·3–2·2) -0·7 | (-0·3–2·0) -0·7 |
| | Household air pollution from solid fuels | (30·7–85·3) 11·9 | (32·3–87·7) 11·8 | (32·0–86·5) 11·8 | (24·6–69·7) 18·0 | (25·1–73·5) 18·0 | (24·9–71·7) 18·0 | (-0·9–-0·3) 1·3 | (-0·9–-0·3) 1·3 | (-0·9–-0·3) 1·3 |
| | Non-optimal temperature | (8·1–23·9) 17·9 | (8·0–23·8) 17·8 | (8·1–23·9) 17·9 | (10·8–33·0) 24·6 | (10·8–33·0) 24·6 | (10·8–33·0) 24·6 | (-0·4–2·9) 1·0 | (-0·3–2·9) 1·0 | (-0·4–2·9) 1·0 |
| | High temperature | (11·6–28·6) 6·9 | (11·6–28·5) 6·9 | (11·6–28·5) 6·9 | (15·9–38·0) 6·5 | (15·9–38·2) 6·6 | (15·9–38·1) 6·6 | (-0·1–2·1) -0·2 | (-0·1–2·1) -0·1 | (-0·1–2·1) -0·1 |
| | Low temperature | (5·6–11·1) 51·8 | (5·6–11·0) 45·4 | (5·6–11·0) 48·5 | (5·3–9·7) 55·3 | (5·3–9·7) 49·8 | (5·3–9·7) 52·5 | (-1·0–0·6) 0·2 | (-1·0–0·6) 0·3 | (-1·0–0·6) 0·2 |
| | Other environmental risks | (12·2–70·7) 65·1 | (11·4–63·9) 55·8 | (11·8–67·3) 60·3 | (12·6–71·9) 70·1 | (12·4–67·2) 62·1 | (12·5–69·4) 66·0 | (-0·1–0·6) 0·2 | (-0·1–0·9) 0·3 | (-0·1–0·8) 0·3 |
| | Lead exposure | (10·3–86·1) | (9·0–79·3) | (9·6–82·8) | (10·8–88·0) | (10·5–81·4) | (10·7–84·3) | (-0·1–0·7) | (-0·1–1·0) | (-0·1–0·9) |
| **Eastern Sub-Saharan Africa** | | | | | | | | | | |
| | | 22·5 | 24·0 | 23·2 | 21·9 | 24·0 | 23·0 | -0·1 | 0·0 | 0·0 |
| | All risk factors | (18·7–24·4) 6·1 | (20·0–25·9) 8·3 | (19·2–25·2) 7·2 | (18·5–23·8) 9·0 | (20·2–25·5) 13·5 | (19·4–24·6) 11·3 | (-0·2–0·0) 1·2 | (-0·2–0·2) 1·5 | (-0·2–0·1) 1·3 |
| | Metabolic risks | (5·0–7·6) 4·6 | (6·6–10·2) 4·6 | (5·9–9·1) 4·6 | (7·8–10·5) 5·3 | (12·1–14·9) 6·1 | (10·1–12·8) 5·7 | (0·5–1·8) 0·5 | (0·8–2·2) 0·9 | (0·7–2·0) 0·7 |
| | High fasting plasma glucose | (3·1–6·2) 23·7 | (3·1–6·4) 29·0 | (3·1–6·3) 26·4 | (3·9–7·4) 27·1 | (4·4–8·9) 32·7 | (4·2–8·2) 30·0 | (-0·8–1·7) 0·4 | (-0·5–2·3) 0·4 | (-0·6–2·0) 0·4 |
| | High LDL cholesterol | (16·7–31·1) 24·9 | (20·3–39·4) 24·7 | (18·5–35·4) 24·8 | (19·8–35·6) 32·7 | (23·7–43·8) 32·3 | (21·9–39·7) 32·5 | (-0·4–1·2) 0·8 | (-0·7–1·4) 0·8 | (-0·5–1·3) 0·8 |
| | High systolic blood pressure | (12·4–41·6) 4·6 | (12·6–42·8) 7·4 | (12·5–42·1) 6·0 | (25·3–41·2) 7·6 | (24·4–41·6) 13·6 | (24·8–41·1) 10·7 | (-0·9–2·8) 1·5 | (-1·0–2·8) 1·8 | (-0·9–2·8) 1·7 |
| | High body-mass index | (3·6–5·8) 2·2 | (5·6–9·5) 2·1 | (4·7–7·6) 2·1 | (6·2–9·0) 2·2 | (12·1–15·3) 2·2 | (9·3–12·1) 2·2 | (0·7–2·3) 0·1 | (1·0–2·7) 0·1 | (0·9–2·5) 0·1 |
| | Kidney dysfunction | (1·3–4·0) 13·4 | (1·3–3·9) 14·9 | (1·3–3·9) 14·2 | (1·3–4·0) 13·0 | (1·3–4·0) 14·5 | (1·3–4·0) 13·8 | (0·0–0·1) -0·1 | (0·0–0·1) -0·1 | (0·0–0·1) -0·1 |
| | Behavioral risks | (9·2–16·2) 13·5 | (10·6–17·1) 9·7 | (9·7–16·5) 11·6 | (9·0–15·6) 11·8 | (10·4–16·2) 8·0 | (9·7–15·7) 9·9 | (-0·4–0·1) -0·4 | (-0·5–0·2) -0·6 | (-0·4–0·2) -0·5 |
| | Tobacco | (10·3–19·1) 11·3 | (8·3–11·6) 2·1 | (9·3–15·2) 6·6 | (9·0–17·1) 9·8 | (6·8–9·8) 2·0 | (7·9–13·1) 5·8 | (-1·0–0·2) -0·4 | (-1·2–0·1) -0·1 | (-1·1–0·1) -0·4 |
| | Smoking | (5·6–23·1) 2·2 | (0·8–5·3) 1·4 | (3·2–14·0) 1·8 | (4·6–21·2) 2·1 | (0·8–5·0) 1·3 | (2·7–13·0) 1·7 | (-1·4–0·6) -0·2 | (-2·5–2·2) -0·1 | (-1·6–0·8) -0·1 |
| | Chewing tobacco | (1·0–4·1) 19·8 | (0·6–2·8) 24·8 | (0·8–3·4) 22·4 | (1·0–3·8) 18·2 | (0·6–2·6) 19·9 | (0·8–3·2) 19·1 | (-2·8–2·6) -0·3 | (-2·9–2·9) -0·7 | (-2·9–2·7) -0·5 |
| | Secondhand smoke | (17·2–22·6) 4·8 | (22·0–27·9) 2·1 | (19·6–25·3) 3·4 | (15·5–21·2) 4·9 | (17·2–23·1) 2·0 | (16·4–22·1) 3·4 | (-0·9–0·4) 0·1 | (-1·3–0·0) -0·2 | (-1·1–0·2) 0·0 |
| | High alcohol use | (3·2–6·6) 42·2 | (1·2–3·4) 43·5 | (2·2–4·8) 42·9 | (3·4–6·4) 38·6 | (1·2–2·8) 41·5 | (2·3–4·5) 40·1 | (-0·5–0·8) -0·3 | (-1·5–1·4) -0·1 | (-0·8–0·9) -0·2 |
| | Dietary risks | (27·2–49·3) 45·2 | (25·4–51·4) 44·1 | (26·1–50·3) 44·6 | (25·1–45·4) 44·5 | (25·7–49·3) 43·9 | (25·6–47·5) 44·2 | (-0·7–0·1) 0·0 | (-0·5–0·2) 0·0 | (-0·6–0·2) 0·0 |
| | Diet low in fruits | (34·6–51·6) 57·2 | (33·2–50·4) 55·9 | (33·9–51·0) 56·5 | (35·1–50·9) 53·1 | (34·6–50·5) 52·3 | (34·8–50·5) 52·6 | (-0·6–0·6) -0·2 | (-0·5–0·7) -0·2 | (-0·5–0·6) -0·2 |
| | Diet low in vegetables | (29·8–64·2) | (28·5–63·1) | (29·2–63·6) | (29·1–62·8) | (28·2–62·3) | (28·7–62·5) | (-0·9–0·3) | (-0·8–0·3) | (-0·9–0·3) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 33·1 | 35·7 | 34·4 | 28·2 | 30·8 | 29·5 | -0·5 | -0·4 | -0·5 |
| | Diet low in legumes | (0·0–45·8) 10·9 | (0·0–49·0) 12·7 | (0·0–47·4) 11·8 | (0·0–40·6) 12·1 | (0·0–43·9) 14·4 | (0·0–42·3) 13·3 | (-1·5–0·5) 0·3 | (-1·5–0·5) 0·4 | (-1·5–0·5) 0·4 |
| | Diet low in whole grains | (7·1–16·1) 60·8 | (8·5–18·2) 60·9 | (7·8–17·2) 60·8 | (6·9–18·4) 51·8 | (8·5–21·8) 51·2 | (7·7–20·1) 51·5 | (-1·6–2·1) -0·5 | (-1·4–2·1) -0·5 | (-1·5–2·1) -0·5 |
| | Diet low in nuts and seeds | (53·7–69·2) 14·8 | (53·6–69·2) 10·9 | (53·7–69·2) 12·8 | (40·9–61·9) 15·2 | (40·3–61·5) 11·5 | (40·6–61·7) 13·3 | (-1·2–0·1) 0·1 | (-1·3–0·1) 0·2 | (-1·3–0·1) 0·1 |
| | Diet high in red meat | (0·0–22·6) 2·9 | (0·0–16·3) 2·7 | (0·0–19·3) 2·8 | (0·0–22·8) 3·6 | (0·0–17·5) 3·3 | (0·0–20·0) 3·5 | (-2·0–2·5) 0·6 | (-2·6–5·1) 0·7 | (-2·1–2·8) 0·7 |
| | Diet high in processed meat | (2·3–4·0) 2·5 | (2·1–3·5) 2·0 | (2·2–3·8) 2·3 | (2·5–5·1) 3·6 | (2·4–4·6) 2·9 | (2·4–4·8) 3·3 | (-0·8–1·9) 1·1 | (-0·6–1·8) 1·1 | (-0·7–1·8) 1·1 |
| | Diet high in sugar-sweetened beverages | (1·0–5·6) 6·9 | (0·8–4·2) 8·7 | (0·9–4·9) 7·8 | (1·4–8·9) 6·9 | (1·2–7·1) 8·5 | (1·3–8·0) 7·7 | (-2·4–4·6) 0·0 | (-2·1–4·6) -0·1 | (-2·2–4·6) 0·0 |
| | Diet low in fiber | (3·5–12·9) 59·2 | (4·4–16·0) 63·8 | (4·0–14·5) 61·5 | (3·2–12·6) 56·2 | (3·9–15·5) 60·5 | (3·6–14·1) 58·5 | (-3·0–3·1) -0·2 | (-3·2–2·9) -0·2 | (-3·1–3·0) -0·2 |
| | Diet low in seafood omega-3 fatty acids | (50·8–67·4) 86·1 | (55·2–71·6) 85·7 | (53·1–69·5) 85·9 | (44·0–65·6) 84·4 | (48·3–69·8) 83·7 | (46·2–67·7) 84·0 | (-0·8–0·5) -0·1 | (-0·7–0·4) -0·1 | (-0·8–0·5) -0·1 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·7–98·5) 26·5 | (48·6–98·2) 24·6 | (48·7–98·4) 25·5 | (48·6–97·3) 23·2 | (48·5–96·8) 21·6 | (48·6–97·0) 22·4 | (-0·1–0·0) -0·4 | (-0·2–0·0) -0·4 | (-0·1–0·0) -0·4 |
| | Diet high in trans fatty acids | (17·2–36·0) 34·0 | (16·1–33·3) 34·8 | (16·6–34·6) 34·4 | (15·3–32·8) 22·8 | (14·4–30·4) 29·4 | (14·8–31·6) 26·2 | (-1·8–0·9) -1·2 | (-1·7–0·9) -0·5 | (-1·7–0·9) -0·8 |
| | Diet high in sodium | (7·8–59·4) 4·3 | (6·9–61·0) 10·0 | (7·4–60·3) 7·2 | (3·3–50·2) 4·8 | (5·3–57·8) 11·5 | (4·2–54·0) 8·2 | (-5·7–0·7) 0·3 | (-3·6–1·8) 0·4 | (-4·6–1·3) 0·4 |
| | Low physical activity | (3·2–5·7) 55·4 | (7·9–12·1) 53·2 | (5·7–8·9) 54·3 | (3·4–6·1) 53·6 | (8·9–14·0) 51·8 | (6·4–10·1) 52·7 | (-0·3–0·9) -0·1 | (0·0–0·9) -0·1 | (0·0–0·8) -0·1 |
| | Environmental/occupational risks | (46·1–59·2) 59·2 | (43·7–57·3) 59·1 | (44·8–58·3) 59·1 | (44·1–58·4) 57·0 | (42·2–56·6) 56·6 | (43·3–57·4) 56·8 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·1 |
| | Air pollution | (38·1–79·4) 67·9 | (37·9–79·4) 67·7 | (38·0–79·4) 67·8 | (36·8–77·8) 64·8 | (36·5–78·1) 64·5 | (36·7–78·0) 64·7 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·1 | (-0·2–0·0) -0·1 |
| | Particulate matter pollution | (37·8–94·9) 7·0 | (37·8–95·2) 5·6 | (37·8–95·1) 6·3 | (36·2–92·8) 9·8 | (36·0–92·8) 8·0 | (36·1–92·7) 8·9 | (-0·2–0·0) 1·0 | (-0·2–0·0) 1·1 | (-0·2–0·0) 1·0 |
| | Ambient particulate matter pollution | (2·9–23·2) 62·6 | (2·2–19·0) 64·1 | (2·6–21·1) 63·4 | (4·8–31·7) 56·6 | (3·6–26·6) 58·4 | (4·1–29·2) 57·5 | (0·2–1·9) -0·3 | (0·2–2·0) -0·3 | (0·2–1·9) -0·3 |
| | Household air pollution from solid fuels | (35·7–90·9) 16·1 | (35·9–91·9) 15·8 | (35·8–91·5) 15·9 | (31·9–85·4) 16·6 | (32·4–87·8) 16·4 | (32·2–86·6) 16·5 | (-0·5–-0·1) 0·1 | (-0·4–-0·1) 0·1 | (-0·5–-0·1) 0·1 |
| | Non-optimal temperature | (13·3–20·6) 19·3 | (13·1–20·4) 19·1 | (13·2–20·5) 19·2 | (13·7–20·7) 23·0 | (13·5–20·5) 22·9 | (13·6–20·6) 22·9 | (-0·4–0·5) 0·5 | (-0·4–0·5) 0·5 | (-0·4–0·5) 0·5 |
| | High temperature | (14·2–26·4) 14·0 | (13·9–26·2) 13·8 | (14·0–26·3) 13·9 | (18·7–28·9) 11·3 | (18·6–28·6) 11·1 | (18·7–28·8) 11·2 | (-0·1–1·0) -0·7 | (-0·1–1·0) -0·7 | (-0·1–1·0) -0·7 |
| | Low temperature | (12·3–17·7) 39·7 | (12·0–17·4) 33·2 | (12·2–17·6) 36·4 | (9·7–14·6) 42·5 | (9·5–14·3) 37·0 | (9·6–14·4) 39·7 | (-0·9–-0·4) 0·2 | (-0·9–-0·4) 0·3 | (-0·9–-0·4) 0·3 |
| | Other environmental risks | (12·9–49·8) 46·7 | (11·8–42·7) 37·2 | (12·3–46·0) 41·8 | (12·7–52·4) 50·7 | (11·8–46·5) 42·7 | (12·2–49·4) 46·6 | (-0·1–0·6) 0·3 | (0·0–0·8) 0·4 | (-0·1–0·7) 0·3 |
| | Lead exposure | (7·4–58·8) | (5·8–48·2) | (6·6–53·5) | (7·5–61·8) | (6·2–52·6) | (6·9–56·9) | (-0·1–0·8) | (0·0–1·0) | (-0·1–0·9) |
| **Southern Sub-Saharan Africa** | | | | | | | | | | |
| | | 23·8 | 22·6 | 23·2 | 20·1 | 22·0 | 21·2 | -0·5 | -0·1 | -0·3 |
| | All risk factors | (20·2–26·6) 14·2 | (18·5–25·0) 23·0 | (19·4–25·8) 18·8 | (16·6–23·1) 19·4 | (18·3–23·8) 32·5 | (17·4–23·4) 26·2 | (-0·8–-0·2) 0·9 | (-0·3–0·1) 1·0 | (-0·5–-0·1) 1·0 |
| | Metabolic risks | (12·1–16·6) 10·8 | (19·9–26·4) 10·8 | (16·1–21·6) 10·8 | (17·2–21·6) 16·5 | (29·4–35·9) 21·0 | (23·5–29·0) 18·9 | (0·4–1·6) 1·3 | (0·5–1·6) 2·0 | (0·5–1·6) 1·7 |
| | High fasting plasma glucose | (7·5–15·2) 33·5 | (7·3–17·1) 38·5 | (7·4–16·3) 36·3 | (12·2–23·4) 33·2 | (14·6–31·8) 39·1 | (13·6–27·6) 36·5 | (0·0–2·7) 0·0 | (0·5–3·6) 0·0 | (0·3–3·2) 0·0 |
| | High LDL cholesterol | (25·8–43·3) 33·0 | (28·8–50·4) 28·8 | (27·7–47·0) 30·9 | (25·5–41·7) 41·6 | (30·4–50·4) 37·8 | (28·2–46·5) 39·8 | (-0·8–0·7) 0·7 | (-0·9–0·9) 0·8 | (-0·9–0·8) 0·8 |
| | High systolic blood pressure | (17·6–52·7) 13·3 | (15·3–47·7) 25·8 | (16·5–50·3) 19·9 | (32·5–52·7) 19·0 | (29·8–48·2) 36·2 | (31·3–50·6) 28·0 | (-0·9–2·8) 1·1 | (-0·9–2·9) 1·0 | (-0·9–2·9) 1·0 |
| | High body-mass index | (10·5–16·5) 3·8 | (21·2–30·9) 4·1 | (16·1–24·2) 4·0 | (16·6–21·6) 4·0 | (32·0–40·4) 4·5 | (24·8–31·0) 4·3 | (0·3–1·9) 0·1 | (0·4–1·6) 0·3 | (0·4–1·7) 0·2 |
| | Kidney dysfunction | (2·4–6·2) 22·2 | (2·6–6·6) 19·1 | (2·5–6·4) 20·5 | (2·6–6·3) 19·5 | (2·8–7·1) 17·3 | (2·7–6·8) 18·4 | (0·1–0·2) -0·4 | (0·2–0·4) -0·3 | (0·1–0·3) -0·3 |
| | Behavioral risks | (17·4–26·4) 30·7 | (15·5–22·1) 23·8 | (16·5–24·0) 27·0 | (14·8–23·1) 22·1 | (13·8–19·7) 16·4 | (14·2–21·2) 19·1 | (-0·7–-0·1) -1·0 | (-0·6–0·0) -1·1 | (-0·6–-0·1) -1·0 |
| | Tobacco | (23·8–41·2) 29·7 | (20·8–29·0) 9·4 | (22·2–34·6) 18·9 | (17·4–29·7) 18·9 | (14·2–20·2) 5·4 | (15·8–24·7) 11·7 | (-1·4–-0·6) -1·4 | (-1·6–-0·7) -1·7 | (-1·5–-0·7) -1·4 |
| | Smoking | (15·4–53·0) 1·6 | (4·0–20·9) 1·3 | (9·4–35·0) 1·5 | (9·2–35·5) 1·1 | (2·2–12·1) 1·3 | (5·8–22·9) 1·3 | (-2·1–-0·6) -0·9 | (-3·0–-0·3) -0·2 | (-2·3–-0·6) -0·5 |
| | Chewing tobacco | (0·7–3·1) 40·3 | (0·5–2·8) 54·8 | (0·6–3·0) 47·9 | (0·4–2·3) 33·5 | (0·5–2·6) 39·4 | (0·5–2·6) 36·5 | (-4·0–2·4) -0·6 | (-3·4–3·2) -1·0 | (-3·7–2·8) -0·8 |
| | Secondhand smoke | (36·7–43·9) 13·8 | (51·3–58·3) 6·3 | (44·4–51·5) 9·8 | (31·4–35·7) 13·2 | (35·4–43·7) 5·8 | (33·9–39·3) 9·3 | (-1·0–-0·1) -0·1 | (-1·4–-0·6) -0·2 | (-1·2–-0·5) -0·2 |
| | High alcohol use | (9·5–20·4) 43·7 | (3·7–10·0) 44·1 | (6·5–14·8) 43·9 | (9·0–19·2) 42·8 | (3·9–8·4) 44·6 | (6·5–13·3) 43·8 | (-0·8–0·5) -0·1 | (-1·3–0·9) 0·0 | (-0·7–0·5) 0·0 |
| | Dietary risks | (33·6–52·9) 61·5 | (30·6–53·7) 59·9 | (32·2–53·4) 60·6 | (33·7–51·9) 65·1 | (33·2–53·1) 65·5 | (33·7–52·4) 65·3 | (-0·6–0·5) 0·2 | (-0·5–0·6) 0·3 | (-0·5–0·5) 0·2 |
| | Diet low in fruits | (48·1–68·6) 52·0 | (46·2–67·7) 49·8 | (47·1–68·1) 50·8 | (53·4–73·5) 50·9 | (53·4–74·3) 50·6 | (53·4–73·9) 50·7 | (-0·4–0·8) -0·1 | (-0·3–0·9) 0·0 | (-0·3–0·9) 0·0 |
| | Diet low in vegetables | (28·7–63·3) 68·0 | (26·6–61·7) 71·1 | (27·6–62·4) 69·6 | (27·9–66·9) 64·6 | (26·5–66·4) 69·0 | (27·2–66·6) 67·0 | (-1·0–0·9) -0·2 | (-0·9–0·9) -0·1 | (-0·9–0·9) -0·1 |
| | Diet low in legumes | (0·0–84·9) 7·3 | (0·0–87·3) 9·7 | (0·0–86·2) 8·6 | (0·0–83·7) 12·9 | (0·0–87·1) 17·0 | (0·0–85·5) 15·1 | (-1·0–0·5) 1·7 | (-0·8–0·4) 1·7 | (-0·8–0·5) 1·7 |
| | Diet low in whole grains | (2·4–14·3) 77·1 | (3·8–17·8) 77·5 | (3·2–16·2) 77·3 | (3·6–24·5) 70·3 | (6·2–29·0) 70·3 | (4·9–26·9) 70·3 | (-2·5–5·6) -0·3 | (-1·7–4·9) -0·3 | (-1·9–5·1) -0·3 |
| | Diet low in nuts and seeds | (72·3–82·2) 35·2 | (72·6–82·6) 24·8 | (72·5–82·4) 29·6 | (60·7–77·9) 40·0 | (60·9–78·0) 29·1 | (60·8–77·9) 34·1 | (-0·8–0·1) 0·4 | (-0·8–0·1) 0·5 | (-0·8–0·1) 0·4 |
| | Diet high in red meat | (0·0–54·2) 6·2 | (0·0–39·8) 5·5 | (0·0–46·3) 5·8 | (0·0–62·3) 7·6 | (0·0–47·7) 6·9 | (0·0–54·0) 7·2 | (-0·7–2·4) 0·6 | (-0·7–4·5) 0·7 | (-0·7–2·7) 0·7 |
| | Diet high in processed meat | (4·1–9·1) 11·3 | (3·7–8·0) 8·7 | (3·9–8·5) 9·9 | (5·3–10·9) 21·6 | (4·8–9·4) 17·0 | (5·0–10·0) 19·1 | (-0·8–1·9) 2·0 | (-0·7–1·9) 2·0 | (-0·7–1·9) 2·0 |
| | Diet high in sugar-sweetened beverages | (4·9–21·4) 9·1 | (3·7–17·0) 11·9 | (4·3–19·0) 10·6 | (12·0–38·6) 11·5 | (9·2–30·7) 14·9 | (10·5–33·7) 13·3 | (-0·7–5·4) 0·7 | (-0·6–5·5) 0·7 | (-0·7–5·4) 0·7 |
| | Diet low in fiber | (3·4–17·5) 51·6 | (4·7–21·9) 59·0 | (4·1–19·8) 55·6 | (3·0–25·8) 48·3 | (4·3–31·3) 55·5 | (3·7–28·7) 52·1 | (-4·0–4·9) -0·2 | (-3·6–4·5) -0·2 | (-3·8–4·6) -0·2 |
| | Diet low in seafood omega-3 fatty acids | (38·7–63·0) 74·9 | (47·3–68·3) 72·9 | (43·4–65·9) 73·8 | (30·2–61·6) 49·0 | (37·8–66·9) 43·1 | (34·3–64·4) 45·9 | (-1·4–0·9) -1·3 | (-1·1–0·7) -1·6 | (-1·2–0·8) -1·4 |
| | Diet low in omega-6 polyunsaturated fatty acids | (47·0–88·4) | (45·6–86·9) | (46·3–87·6) | (31·2–67·0) | (26·6–61·8) | (28·7–64·2) | (-2·5–-0·4) | (-3·0–-0·6) | (-2·8–-0·5) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | | 19·9 | 18·5 | 19·1 | 3·8 | 3·6 | 3·7 | -5·0 | -4·9 | -5·0 |
| | Diet high in trans fatty acids | (13·4–26·7) 24·6 | (12·6–25·1) 19·1 | (13·0–26·1) 21·7 | (2·6–5·3) 18·4 | (2·6–5·0) 16·0 | (2·6–5·2) 17·1 | (-6·3–-3·5) -0·9 | (-6·2–-3·5) -0·5 | (-6·2–-3·5) -0·7 |
| | Diet high in sodium | (0·3–59·3) 17·7 | (0·0–52·2) 27·6 | (0·1–55·6) 23·0 | (0·1–53·5) 18·2 | (0·0–47·9) 30·0 | (0·0–50·4) 24·4 | (-9·2–7·6) 0·1 | (-13·3–6·9) 0·3 | (-10·2–7·2) 0·2 |
| | Low physical activity | (12·9–22·7) 46·1 | (22·8–32·3) 44·0 | (18·8–26·7) 45·0 | (13·9–23·3) 36·9 | (23·6–37·6) 35·0 | (20·0–29·3) 35·9 | (-0·9–1·0) -0·7 | (-0·5–1·0) -0·7 | (-0·3–0·7) -0·7 |
| | Environmental/occupational risks | (35·3–52·5) 41·0 | (33·3–50·3) 41·6 | (34·3–51·4) 41·3 | (26·9–45·2) 29·2 | (25·7–43·5) 28·9 | (26·2–44·3) 29·1 | (-1·0–-0·3) -1·0 | (-1·1–-0·3) -1·1 | (-1·0–-0·3) -1·1 |
| | Air pollution | (25·2–63·9) 45·7 | (26·2–65·7) 46·2 | (25·7–64·9) 46·0 | (17·4–51·7) 31·4 | (17·2–51·7) 31·1 | (17·3–51·7) 31·2 | (-1·5–-0·5) -1·1 | (-1·5–-0·6) -1·2 | (-1·5–-0·5) -1·2 |
| | Particulate matter pollution | (24·7–77·3) 25·4 | (25·5–78·9) 22·1 | (25·0–78·1) 23·7 | (17·1–63·1) 27·6 | (17·1–63·2) 26·4 | (17·1–63·2) 27·0 | (-1·5–-0·5) 0·3 | (-1·6–-0·6) 0·5 | (-1·6–-0·5) 0·4 |
| | Ambient particulate matter pollution | (14·1–55·0) 26·2 | (11·7–49·8) 29·5 | (12·8–52·3) 28·0 | (14·6–55·7) 11·9 | (13·9–53·1) 13·1 | (14·3–54·4) 12·5 | (-0·3–0·9) -2·4 | (-0·1–1·3) -2·5 | (-0·2–1·1) -2·4 |
| | Household air pollution from solid fuels | (13·2–55·0) 19·5 | (15·5–58·9) 19·5 | (14·1–56·9) 19·5 | (5·5–25·2) 18·7 | (6·2–27·2) 18·7 | (5·9–26·2) 18·7 | (-3·0–-1·9) -0·1 | (-3·0–-2·0) -0·1 | (-3·0–-2·0) -0·1 |
| | Non-optimal temperature | (17·7–22·5) 16·3 | (17·7–22·5) 16·4 | (17·7–22·5) 16·3 | (17·1–21·4) 17·1 | (17·1–21·4) 17·3 | (17·1–21·4) 17·2 | (-0·3–0·0) 0·2 | (-0·3–0·0) 0·2 | (-0·3–0·0) 0·2 |
| | High temperature | (13·8–19·4) 18·8 | (13·9–19·6) 18·7 | (13·9–19·5) 18·7 | (14·8–19·9) 17·2 | (14·9–20·0) 17·2 | (14·9–20·0) 17·2 | (-0·3–0·5) -0·3 | (-0·3–0·5) -0·3 | (-0·3–0·5) -0·3 |
| | Low temperature | (17·2–22·0) 45·7 | (17·2–21·9) 35·6 | (17·2–21·9) 40·3 | (15·5–20·7) 50·0 | (15·5–20·7) 43·5 | (15·5–20·7) 46·6 | (-0·4–-0·1) 0·3 | (-0·4–-0·1) 0·6 | (-0·4–-0·1) 0·4 |
| | Other environmental risks | (12·9–58·4) 53·9 | (11·5–46·5) 39·3 | (12·1–52·1) 46·1 | (13·3–62·9) 60·2 | (12·4–56·1) 50·7 | (12·9–59·4) 55·2 | (0·0–0·7) 0·3 | (0·2–1·1) 0·8 | (0·1–0·9) 0·5 |
| | Lead exposure | (8·0–67·5) | (5·7–51·5) | (6·7–58·7) | (8·8–74·6) | (7·4–65·4) | (8·0–69·7) | (0·0–0·8) | (0·3–1·4) | (0·2–1·1) |
| **Western Sub-Saharan Africa** | | | | | | | | | | |
| | | 21·8 | 22·6 | 22·2 | 21·3 | 23·0 | 22·2 | -0·1 | 0·1 | 0·0 |
| | All risk factors | (17·8–24·8) 10·1 | (18·8–25·0) 12·3 | (18·5–24·7) 11·2 | (17·5–23·8) 16·4 | (19·6–24·9) 18·8 | (18·6–24·3) 17·7 | (-0·3–0·1) 1·5 | (-0·2–0·3) 1·3 | (-0·2–0·2) 1·4 |
| | Metabolic risks | (8·4–12·5) 10·0 | (10·0–15·4) 8·4 | (9·3–13·9) 9·2 | (14·3–18·6) 12·7 | (16·5–21·1) 12·4 | (15·6–19·8) 12·5 | (0·8–2·2) 0·7 | (0·6–2·0) 1·2 | (0·7–2·1) 0·9 |
| | High fasting plasma glucose | (6·3–17·0) 29·4 | (5·1–15·0) 32·6 | (5·7–16·0) 31·0 | (8·5–19·8) 34·2 | (7·5–21·3) 37·7 | (8·0–20·6) 36·0 | (-1·1–2·5) 0·5 | (-0·9–3·3) 0·4 | (-1·0–2·9) 0·5 |
| | High LDL cholesterol | (21·9–38·0) 27·8 | (23·9–43·5) 27·5 | (23·0–40·9) 27·6 | (26·1–43·6) 41·6 | (27·5–50·1) 39·7 | (26·9–47·3) 40·6 | (-0·3–1·2) 1·2 | (-0·6–1·4) 1·1 | (-0·5–1·3) 1·2 |
| | High systolic blood pressure | (13·9–46·7) 8·5 | (13·5–48·1) 12·1 | (13·7–47·6) 10·3 | (31·1–54·9) 15·9 | (28·6–55·0) 19·6 | (29·7–55·0) 17·9 | (-0·4–3·5) 1·9 | (-0·7–3·5) 1·5 | (-0·5–3·5) 1·7 |
| | High body-mass index | (6·6–11·2) 3·8 | (9·2–15·9) 3·9 | (8·0–13·3) 3·9 | (13·6–18·4) 3·8 | (17·1–22·2) 4·0 | (15·5–20·4) 3·9 | (1·1–2·6) 0·0 | (0·6–2·3) 0·0 | (0·9–2·4) 0·0 |
| | Kidney dysfunction | (2·5–6·2) 12·5 | (2·5–6·3) 13·8 | (2·5–6·2) 13·2 | (2·4–6·1) 11·8 | (2·6–6·4) 13·3 | (2·5–6·3) 12·6 | (-0·1–0·0) -0·2 | (0·0–0·1) -0·1 | (-0·1–0·0) -0·1 |
| | Behavioral risks | (7·9–15·8) 10·6 | (9·5–16·2) 7·2 | (8·9–15·9) 8·9 | (7·7–14·8) 9·0 | (9·5–15·0) 5·6 | (8·7–14·8) 7·2 | (-0·5–0·1) -0·5 | (-0·5–0·2) -0·7 | (-0·5–0·2) -0·6 |
| | Tobacco | (7·8–15·8) 9·4 | (5·9–8·9) 1·7 | (7·0–12·1) 5·7 | (6·7–13·3) 7·5 | (4·9–6·7) 0·8 | (5·8–9·6) 4·0 | (-1·3–0·1) -0·7 | (-1·5–0·0) -2·3 | (-1·4–0·0) -1·1 |
| | Smoking | (4·5–20·8) 0·8 | (0·6–4·4) 0·7 | (2·6–13·1) 0·7 | (3·4–16·4) 0·8 | (0·2–2·1) 0·6 | (1·7–8·9) 0·7 | (-2·1–0·6) -0·1 | (-6·1–1·2) -0·2 | (-2·8–0·5) -0·1 |
| | Chewing tobacco | (0·3–1·6) 17·0 | (0·3–1·4) 19·2 | (0·3–1·5) 18·0 | (0·3–1·5) 15·5 | (0·2–1·4) 15·7 | (0·3–1·4) 15·6 | (-3·2–-3·2) -0·3 | (-3·5–-3·3) -0·6 | (-3·4–-3·2) -0·4 |
| | Secondhand smoke | (14·8–19·6) 3·1 | (16·8–21·9) 1·3 | (15·7–20·7) 2·2 | (13·3–18·1) 3·5 | (13·6–18·3) 1·4 | (13·4–18·2) 2·4 | (-0·9–0·4) 0·4 | (-1·2–0·0) 0·3 | (-1·1–0·2) 0·3 |
| | High alcohol use | (1·9–4·4) 39·0 | (0·7–2·0) 38·3 | (1·3–3·1) 38·6 | (2·5–4·6) 36·2 | (0·9–1·9) 35·7 | (1·6–3·2) 35·9 | (-0·5–1·4) -0·2 | (-1·0–1·6) -0·2 | (-0·6–1·3) -0·2 |
| | Dietary risks | (28·0–48·1) 43·3 | (23·3–48·0) 42·3 | (26·0–48·1) 42·7 | (25·5–44·7) 43·5 | (22·2–44·9) 42·9 | (24·7–44·7) 43·2 | (-0·8–0·3) 0·0 | (-0·7–0·3) 0·0 | (-0·7–0·3) 0·0 |
| | Diet low in fruits | (33·7–51·5) 51·4 | (32·5–49·8) 49·6 | (33·1–50·7) 50·4 | (32·7–53·0) 41·8 | (32·1–52·6) 40·2 | (32·4–52·8) 41·0 | (-0·8–1·0) -0·6 | (-0·7–1·0) -0·6 | (-0·8–1·0) -0·6 |
| | Diet low in vegetables | (27·8–64·7) 51·8 | (26·6–62·2) 55·4 | (27·1–63·6) 53·5 | (24·7–54·5) 37·2 | (23·9–53·0) 39·7 | (24·3–53·7) 38·5 | (-1·6–0·4) -1·0 | (-1·6–0·4) -1·0 | (-1·6–0·4) -1·0 |
| | Diet low in legumes | (0·0–68·5) 19·1 | (0·0–72·2) 20·2 | (0·0–70·3) 19·6 | (0·0–53·2) 20·4 | (0·0–56·6) 22·4 | (0·0–55·0) 21·5 | (-2·0–0·0) 0·2 | (-2·0–0·0) 0·3 | (-2·0–0·0) 0·3 |
| | Diet low in whole grains | (12·5–27·3) 31·7 | (14·0–28·0) 32·0 | (13·2–27·6) 31·9 | (11·7–32·1) 11·5 | (13·4–34·6) 11·2 | (12·7–33·5) 11·3 | (-1·7–1·9) -3·1 | (-1·5–1·9) -3·2 | (-1·5–1·9) -3·1 |
| | Diet low in nuts and seeds | (21·0–44·7) 16·7 | (21·3–45·0) 12·3 | (21·1–44·9) 14·5 | (4·3–22·0) 18·1 | (4·1–21·7) 13·1 | (4·2–21·8) 15·5 | (-5·9–-0·7) 0·2 | (-6·1–-0·8) 0·2 | (-6·0–-0·8) 0·2 |
| | Diet high in red meat | (0·0–24·5) 9·2 | (0·0–17·9) 7·6 | (0·0–21·2) 8·4 | (0·0–27·0) 9·6 | (0·0–20·0) 8·5 | (0·0–23·2) 9·0 | (-0·9–1·6) 0·1 | (-1·8–1·4) 0·3 | (-1·2–1·5) 0·2 |
| | Diet high in processed meat | (5·6–14·8) 1·8 | (4·7–12·1) 1·5 | (5·2–13·5) 1·7 | (5·4–15·2) 5·8 | (4·8–13·4) 4·7 | (5·1–14·3) 5·2 | (-1·9–2·0) 3·5 | (-1·7–2·2) 3·4 | (-1·8–2·1) 3·5 |
| | Diet high in sugar-sweetened beverages | (0·9–3·5) 8·8 | (0·8–2·7) 11·3 | (0·8–3·1) 10·0 | (2·1–14·1) 2·6 | (1·8–11·0) 3·1 | (2·0–12·5) 2·9 | (0·3–6·8) -3·7 | (0·4–6·7) -3·9 | (0·4–6·7) -3·8 |
| | Diet low in fiber | (4·4–15·5) 44·9 | (5·7–19·4) 51·3 | (5·0–17·4) 48·1 | (1·0–5·5) 32·1 | (1·2–6·8) 39·6 | (1·1–6·2) 36·0 | (-7·0–-0·5) -1·0 | (-7·2–-0·7) -0·8 | (-7·1–-0·6) -0·9 |
| | Diet low in seafood omega-3 fatty acids | (32·9–56·8) 86·6 | (39·8–62·1) 86·3 | (36·3–59·4) 86·5 | (15·9–47·6) 86·8 | (22·4–54·2) 86·6 | (19·3–51·1) 86·7 | (-2·9–0·5) 0·0 | (-2·3–0·4) 0·0 | (-2·5–0·4) 0·0 |
| | Diet low in omega-6 polyunsaturated fatty acids | (48·6–99·1) 26·5 | (48·6–98·8) 24·6 | (48·6–99·0) 25·6 | (48·6–99·3) 23·2 | (48·6–99·1) 21·6 | (48·6–99·2) 22·4 | (0·0–0·0) -0·4 | (0·0–0·0) -0·4 | (0·0–0·0) -0·4 |
| | Diet high in trans fatty acids | (17·2–36·0) 20·7 | (16·1–33·3) 16·4 | (16·6–34·7) 18·6 | (15·3–32·8) 21·5 | (14·4–30·4) 17·4 | (14·8–31·5) 19·3 | (-1·8–0·9) 0·1 | (-1·7–0·9) 0·2 | (-1·8–0·8) 0·1 |
| | Diet high in sodium | (0·0–53·7) 9·6 | (0·0–47·7) 16·8 | (0·0–51·3) 13·2 | (0·3–56·1) 10·1 | (0·1–49·1) 18·8 | (0·2–52·2) 14·7 | (-7·9–17·6) 0·2 | (-6·1–15·0) 0·3 | (-7·1–16·3) 0·3 |
| | Low physical activity | (7·5–12·1) 54·4 | (13·2–20·5) 52·4 | (10·5–16·1) 53·4 | (7·7–12·7) 52·6 | (15·4–22·8) 50·7 | (11·9–17·7) 51·6 | (-0·5–0·9) -0·1 | (-0·2–0·9) -0·1 | (0·0–0·7) -0·1 |
| | Environmental/occupational risks | (44·7–58·7) 59·6 | (42·5–56·6) 59·1 | (43·5–57·7) 59·4 | (42·9–57·8) 55·1 | (41·1–55·9) 54·6 | (42·0–56·8) 54·8 | (-0·3–0·0) -0·2 | (-0·3–0·0) -0·2 | (-0·3–0·0) -0·2 |
| | Air pollution | (39·7–80·7) 67·3 | (39·1–80·5) 66·8 | (39·5–80·6) 67·1 | (36·8–77·1) 61·5 | (36·6–77·3) 60·9 | (36·7–77·2) 61·2 | (-0·4–-0·1) -0·3 | (-0·4–-0·1) -0·3 | (-0·4–-0·1) -0·3 |
| | Particulate matter pollution | (37·3–94·8) 18·6 | (37·1–94·4) 15·1 | (37·2–94·7) 16·8 | (33·9–90·7) 26·6 | (33·8–90·5) 23·1 | (33·7–90·6) 24·8 | (-0·4–-0·1) 1·1 | (-0·4–-0·1) 1·3 | (-0·4–-0·1) 1·2 |
| | Ambient particulate matter pollution | (8·1–54·1) 50·1 | (6·3–48·6) 53·6 | (7·3–51·1) 51·8 | (13·5–59·8) 38·3 | (10·7–54·3) 41·1 | (12·2–56·8) 39·8 | (0·1–2·2) -0·8 | (0·2–2·5) -0·8 | (0·2–2·3) -0·8 |
| | Household air pollution from solid fuels | (26·8–81·5) 27·8 | (28·8–85·5) 28·1 | (27·7–83·5) 27·9 | (20·2–69·8) 34·9 | (22·0–73·6) 34·6 | (21·0–71·8) 34·7 | (-1·3–-0·3) 0·7 | (-1·2–-0·3) 0·6 | (-1·2–-0·3) 0·7 |
| | Non-optimal temperature | (22·9–34·5) | (23·1–34·6) | (23·0–34·5) | (30·9–40·1) | (30·7–39·8) | (30·8–39·9) | (0·1–1·2) | (0·1–1·2) | (0·1–1·2) |

| Location Name | Risk Name | SEV 1990 | | | SEV 2023 | | | Annualized rate of change 1990 to 2023 (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes | Males | Females | Both sexes |
| | High temperature | 35·9 (32·6–39·6) | 36·1 (32·8–39·8) | 36·0 (32·7–39·7) | 39·6 (36·1–43·7) | 39·3 (35·7–43·4) | 39·4 (35·9–43·6) | 0·3 (0·1–0·6) | 0·3 (0·0–0·5) | 0·3 (0·0–0·6) |
| | Low temperature | 23·8 (19·0–29·3) | 24·1 (19·3–29·6) | 23·9 (19·2–29·5) | 24·0 (19·7–29·6) | 23·7 (19·5–29·2) | 23·8 (19·6–29·4) | 0·0 (-0·3–0·4) | -0·1 (-0·3–0·3) | 0·0 (-0·3–0·3) |
| | Other environmental risks | 44·3 (13·9–54·3) | 39·2 (13·2–48·9) | 41·8 (13·6–51·7) | 49·4 (14·6–59·0) | 44·6 (13·8–54·5) | 46·9 (14·2–56·6) | 0·3 (0·0–0·7) | 0·4 (0·0–0·9) | 0·3 (0·0–0·8) |
| | Lead exposure | 51·9 (8·0–63·7) | 44·5 (6·9–56·5) | 48·2 (7·5–59·9) | 59·1 (8·8–70·6) | 52·3 (7·8–63·4) | 55·5 (8·3–66·9) | 0·4 (0·1–0·9) | 0·5 (0·1–1·1) | 0·4 (0·1–1·0) |

| Table S12. Sources for cardiovascular risk factors | | | |
|---|---|---|---|
| **Risk Name** | **Measure Name** | **Total Sources** | **New Sources** |
| **Environmental/occupational risks** | | | |
| **Air pollution** | | | |
| Ambient particulate matter pollution | All measures | 5,726 | 90 |
| Ambient particulate matter pollution | Exposure | 5,494 | 2 |
| Ambient particulate matter pollution | Relative risk | 263 | 88 |
| Household air pollution from solid fuels | All measures | 1,385 | 127 |
| Household air pollution from solid fuels | Exposure | 1,153 | 45 |
| Household air pollution from solid fuels | Relative risk | 263 | 82 |
| **Non-optimal temperature** | | | |
| High temperature | All measures | 6,451 | 0 |
| High temperature | Exposure | 6,324 | 0 |
| High temperature | Relative risk | 127 | 0 |
| Low temperature | All measures | 6,451 | 0 |
| Low temperature | Exposure | 6,324 | 0 |
| Low temperature | Relative risk | 127 | 0 |
| **Other environmental risks** | | | |
| Lead exposure | All measures | 723 | 168 |
| Lead exposure | Exposure | 718 | 165 |
| Lead exposure | Relative risk | 5 | 3 |
| **Behavioral risks** | | | |
| **Tobacco** | | | |
| Smoking | All measures | 4,577 | 435 |
| Smoking | Exposure | 3,993 | 435 |
| Smoking | Relative risk | 584 | 0 |
| Secondhand smoke | All measures | 1,787 | 485 |
| Secondhand smoke | Exposure | 1,377 | 183 |
| Secondhand smoke | Relative risk | 410 | 302 |
| **Alcohol** | | | |
| High alcohol use | All measures | 11,015 | 7,340 |
| High alcohol use | Exposure | 10,445 | 7,159 |
| High alcohol use | Relative risk | 570 | 181 |
| **Dietary risks** | | | |
| Diet low in fruits | All measures | 3,646 | 2,700 |
| Diet low in fruits | Exposure | 3,565 | 2,700 |
| Diet low in fruits | Relative risk | 81 | 0 |
| Diet low in vegetables | All measures | 3,872 | 2,760 |
| Diet low in vegetables | Exposure | 3,822 | 2,760 |
| Diet low in vegetables | Relative risk | 50 | 0 |
| Diet low in legumes | All measures | 3,432 | 2,552 |
| Diet low in legumes | Exposure | 3,423 | 2,552 |
| Diet low in legumes | Relative risk | 9 | 0 |
| Diet low in whole grains | All measures | 2,848 | 2,761 |
| Diet low in whole grains | Exposure | 2,812 | 2,761 |
| Diet low in whole grains | Relative risk | 36 | 0 |
| Diet low in nuts and seeds | All measures | 2,540 | 2,460 |
| Diet low in nuts and seeds | Exposure | 2,519 | 2,460 |
| Diet low in nuts and seeds | Relative risk | 21 | 0 |
| Diet low in milk | All measures | 3,868 | 3,701 |
| Diet low in milk | Exposure | 3,845 | 3,701 |
| Diet low in milk | Relative risk | 24 | 0 |
| Diet high in red meat | All measures | 3,526 | 3,378 |
| Diet high in red meat | Exposure | 3,471 | 3,378 |
| Diet high in red meat | Relative risk | 55 | 0 |
| Diet high in processed meat | All measures | 980 | 857 |

| Risk Name | Measure Name | Total Sources | New Sources |
|---|---|---|---|
| Diet high in processed meat | Exposure | 936 | 838 |
| Diet high in processed meat | Relative risk | 44 | 19 |
| Diet high in sugar-sweetened beverages | All measures | 946 | 873 |
| Diet high in sugar-sweetened beverages | Exposure | 919 | 855 |
| Diet high in sugar-sweetened beverages | Relative risk | 27 | 18 |
| Diet low in fiber | All measures | 2,937 | 2,775 |
| Diet low in fiber | Exposure | 2,886 | 2,775 |
| Diet low in fiber | Relative risk | 51 | 0 |
| Diet low in calcium | All measures | 2,963 | 2,775 |
| Diet low in calcium | Exposure | 2,934 | 2,775 |
| Diet low in calcium | Relative risk | 29 | 0 |
| Diet low in seafood omega-3 fatty acids | All measures | 2,184 | 2,116 |
| Diet low in seafood omega-3 fatty acids | Exposure | 2,136 | 2,116 |
| Diet low in seafood omega-3 fatty acids | Relative risk | 48 | 0 |
| Diet low in omega-6 polyunsaturated fatty acids | All measures | 2,860 | 2,775 |
| Diet low in omega-6 polyunsaturated fatty acids | Exposure | 2,844 | 2,775 |
| Diet low in omega-6 polyunsaturated fatty acids | Relative risk | 16 | 0 |
| Diet high in trans fatty acids | All measures | 839 | 820 |
| Diet high in trans fatty acids | Exposure | 833 | 819 |
| Diet high in trans fatty acids | Relative risk | 6 | 1 |
| Diet high in sodium | All measures | 149 | 5 |
| Diet high in sodium | Exposure | 145 | 5 |
| Diet high in sodium | Relative risk | 4 | 0 |
| **Physical activity** | | | |
| Low physical activity | All measures | 361 | 0 |
| Low physical activity | Exposure | 261 | 0 |
| Low physical activity | Relative risk | 100 | 0 |
| **Metabolic risks** | | | |
| High fasting plasma glucose | All measures | 907 | 343 |
| High fasting plasma glucose | Exposure | 709 | 235 |
| High fasting plasma glucose | Relative risk | 199 | 108 |
| High LDL cholesterol | All measures | 844 | 91 |
| High LDL cholesterol | Exposure | 806 | 91 |
| High LDL cholesterol | Relative risk | 38 | 0 |
| High systolic blood pressure | All measures | 1,350 | 160 |
| High systolic blood pressure | Exposure | 1,280 | 160 |
| High systolic blood pressure | Relative risk | 70 | 0 |
| High body-mass index | All measures | 3,130 | 876 |
| High body-mass index | Exposure | 2,830 | 875 |
| High body-mass index | Relative risk | 313 | 1 |
| Kidney dysfunction | All measures | 331 | 88 |
| Kidney dysfunction | Exposure | 294 | 72 |
| Kidney dysfunction | Relative risk | 38 | 16 |

**Table S13. Age-standardized mortality rates for cardiovascular diseases by location**

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Global** | **215.2 (194.3–229.8)** | **4.4 (3.0–6.3)** | **99.8 (89.9–108.4)** | **75.9 (67.8–83.5)** | **37.0 (32.4–41.7)** | **34.9 (30.4–39.3)** | **4.0 (3.4–4.8)** | **16.8 (13.4–20.7)** | **2.2 (1.8–2.5)** | **1.7 (1.4–1.9)** | **0.5 (0.4–0.6)** | **0.02 (0.01–0.04)** | **4.6 (3.9–5.3)** | **0.2 (0.1–0.3)** | **0.7 (0.6–0.8)** | **3.7 (3.0–4.4)** | **0.3 (0.2–0.4)** | **4.4 (3.7–5.0)** | **1.9 (1.6–2.1)** | **0.9 (0.7–0.9)** | **1.0 (0.9–1.2)** | **3.0 (2.5–3.6)** |
| **Central Europe, Eastern Europe, and Central Asia** | **344.4 (322.6–358.0)** | **1.3 (1.2–1.4)** | **198.5 (185.8–207.6)** | **95.7 (87.4–100.5)** | **69.8 (63.6–74.5)** | **21.5 (19.8–23.5)** | **4.3 (3.9–4.8)** | **15.3 (13.7–16.3)** | **1.9 (1.7–2.0)** | **1.3 (1.2–1.4)** | **0.5 (0.4–0.6)** | **0.1 (0.03–0.1)** | **7.4 (6.6–8.3)** | **0.3 (0.2–0.3)** | **7.4 (6.6–8.3)** | **9.3 (8.4–10.1)** | **0.2 (0.1–0.2)** | **4.6 (4.1–5.0)** | **3.1 (2.8–3.4)** | **2.4 (2.1–2.8)** | **0.8 (0.7–0.8)** | **3.7 (3.4–4.0)** |
| Central Asia | 400.7 (374.0–418.6) | 2.6 (2.3–3.0) | 256.7 (239.7–269.2) | 105.8 (98.3–111.6) | 62.2 (56.6–66.8) | 38.8 (34.9–43.3) | 4.7 (4.1–5.5) | 18.4 (15.9–21.1) | 0.8 (0.7–0.9) | 0.4 (0.3–0.4) | 0.4 (0.3–0.4) | 0.1 (0.03–0.1) | 8.2 (7.3–9.2) | 0.3 (0.2–0.3) | 2.3 (2.0–2.7) | 5.6 (4.9–6.5) | 0.4 (0.3–0.5) | 2.6 (2.4–2.9) | 1.7 (1.5–1.9) | 0.3 (0.3–0.4) | 0.2 (0.2–0.2) | 2.8 (2.5–3.2) |
| Armenia | 238.0 (214.1–256.8) | 0.9 (0.8–1.1) | 161.4 (145.6–174.7) | 50.4 (44.8–55.1) | 39.5 (34.9–43.6) | 9.0 (7.9–10.5) | 1.8 (1.5–2.1) | 8.3 (7.2–9.4) | 0.8 (0.6–0.9) | 0.4 (0.3–0.4) | 0.4 (0.3–0.5) | 0.01 (0.004–0.03) | 3.2 (2.7–3.7) | 0.03 (0.02–0.04) | 0.7 (0.5–0.9) | 2.4 (2.0–2.8) | 0.1 (0.1–0.1) | 2.3 (2.0–2.6) | 7.5 (6.4–8.5) | 0.8 (0.6–0.9) | 0.1 (0.1–0.2) | 2.2 (1.9–2.6) |
| Azerbaijan | 393.7 (351.1–431.0) | 1.2 (0.6–1.9) | 286.1 (253.6–316.9) | 68.5 (53.3–85.6) | 27.3 (19.1–37.1) | 40.1 (30.0–51.0) | 1.1 (0.7–1.7) | 19.7 (14.3–28.0) | 0.1 (0.1–0.2) | 0.1 (0.04–0.1) | 0.03 (0.01–0.1) | 0.007 (0.002–0.02) | 11.8 (8.0–16.6) | 0.5 (0.2–1.0) | 0.4 (0.1–0.9) | 10.9 (7.6–15.4) | 0.5 (0.3–0.8) | 2.0 (1.6–2.5) | 1.1 (0.8–1.6) | 0.3 (0.2–0.4) | 0.1 (0.04–0.1) | 2.3 (1.6–3.2) |
| Georgia | 365.2 (337.4–389.7) | 2.7 (2.2–3.1) | 122.3 (110.3–133.2) | 176.1 (158.5–193.6) | 110.7 (96.8–125.4) | 57.6 (49.3–68.3) | 7.9 (6.7–9.2) | 36.5 (31.5–41.1) | 4.2 (3.6–4.8) | 1.8 (1.4–2.1) | 2.1 (1.7–2.6) | 0.3 (0.1–0.5) | 6.6 (5.6–7.7) | 0.4 (0.2–0.5) | 0.3 (0.2–0.5) | 5.9 (5.0–6.9) | 1.1 (0.9–1.5) | 7.0 (6.2–7.8) | 2.6 (2.2–3.1) | 0.8 (0.7–0.9) | 0.4 (0.3–0.5) | 4.9 (4.2–5.5) |
| Kazakhstan | 294.4 (270.6–320.2) | 1.0 (0.8–1.1) | 170.3 (150.4–189.4) | 94.4 (85.7–104.3) | 61.1 (53.8–68.9) | 29.0 (25.5–33.5) | 4.3 (3.7–5.0) | 3.8 (3.3–4.2) | 0.5 (0.4–0.6) | 0.2 (0.2–0.3) | 0.2 (0.2–0.3) | 0.04 (0.01–0.1) | 17.0 (15.3–19.0) | 0.1 (0.1–0.2) | 7.9 (6.7–9.2) | 8.9 (7.7–10.2) | 0.1 (0.1–0.1) | 2.8 (2.4–3.2) | 1.4 (1.2–1.6) | 0.3 (0.2–0.3) | 0.4 (0.3–0.4) | 2.6 (2.3–3.0) |
| Kyrgyzstan | 412.4 (383.0–437.1) | 2.5 (2.1–2.8) | 285.0 (264.3–304.8) | 92.3 (85.9–99.5) | 60.2 (54.1–66.6) | 26.6 (23.9–30.3) | 5.5 (4.8–6.3) | 18.9 (16.5–21.2) | 0.3 (0.3–0.3) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.01 (0.004–0.03) | 7.2 (6.4–8.0) | 0.5 (0.4–0.6) | 5.8 (5.0–6.4) | 1.0 (0.8–1.2) | 0.1 (0.04–0.1) | 2.8 (2.4–3.1) | 0.8 (0.7–0.9) | 0.4 (0.3–0.4) | 0.1 (0.1–0.2) | 2.1 (1.8–2.4) |
| Mongolia | 315.8 (276.4–349.9) | 2.2 (1.5–2.9) | 183.2 (158.6–207.6) | 102.8 (85.8–121.9) | 17.7 (13.9–22.2) | 73.0 (59.6–86.5) | 12.1 (8.8–15.3) | 7.2 (5.2–9.9) | 0.7 (0.5–1.0) | 0.3 (0.2–0.5) | 0.4 (0.2–0.6) | 0.04 (0.02–0.1) | 14.3 (10.0–18.8) | 0.4 (0.2–0.8) | 4.1 (2.1–6.6) | 9.8 (5.6–13.3) | 0.9 (0.2–1.4) | 1.8 (1.4–2.2) | 0.6 (0.4–0.7) | 0.1 (0.05–0.1) | 0.2 (0.1–0.3) | 1.9 (1.4–2.4) |
| Tajikistan | 536.4 (455.7–608.2) | 1.9 (1.3–2.6) | 333.8 (277.2–392.0) | 150.1 (122.0–185.7) | 78.7 (60.7–99.6) | 66.4 (49.5–88.3) | 5.0 (3.2–7.4) | 45.7 (30.4–64.9) | 0.02 (0.01–0.03) | 0.008 (0.004–0.01) | 0.008 (0.003–0.01) | 0.007 (0.003–0.01) | 1.3 (0.9–1.8) | 0.006 (0.003–0.01) | 0.002 (0.0004–0.005) | 1.3 (0.8–1.8) | 1.0 (0.5–1.6) | 1.4 (1.0–1.7) | 0.3 (0.2–0.4) | 0.3 (0.2–0.5) | 0.03 (0.02–0.04) | 0.7 (0.5–0.9) |
| Turkmenistan | 506.3 (460.9–549.1) | 3.0 (2.5–3.5) | 317.7 (289.6–352.1) | 147.0 (132.1–162.4) | 89.9 (68.4–112.7) | 47.0 (29.9–67.7) | 10.0 (5.7–20.0) | 15.5 (12.1–19.1) | 0.3 (0.2–0.3) | 0.1 (0.1–0.1) | 0.1 (0.1–0.2) | 0.03 (0.01–0.1) | 15.2 (13.2–17.7) | 0.9 (0.7–1.2) | 0.4 (0.2–0.5) | 13.9 (12.1–16.1) | 0.2 (0.2–0.3) | 2.7 (2.3–3.1) | 1.5 (1.2–1.8) | 0.3 (0.3–0.4) | 0.2 (0.2–0.3) | 2.7 (2.3–3.1) |
| Uzbekistan | 522.4 (494.2–544.2) | 4.8 (4.2–5.5) | 374.8 (354.2–392.5) | 110.0 (102.2–116.8) | 64.0 (57.6–70.3) | 41.3 (37.0–47.1) | 4.8 (4.0–5.5) | 22.6 (18.4–26.9) | 0.7 (0.6–0.8) | 0.4 (0.3–0.4) | 0.3 (0.2–0.3) | 0.1 (0.04–0.2) | 2.1 (1.8–2.4) | 0.2 (0.1–0.2) | 0.003 (0.002–0.004) | 1.9 (1.6–2.1) | 0.5 (0.4–0.6) | 1.8 (1.6–1.9) | 1.2 (1.0–1.4) | 0.1 (0.1–0.1) | 0.2 (0.2–0.2) | 3.7 (3.2–4.2) |
| Central Europe | 263.5 (245.3–273.8) | 1.2 (1.1–1.3) | 131.6 (122.0–137.6) | 76.4 (70.2–80.5) | 56.0 (50.9–59.5) | 17.3 (15.9–18.9) | 3.2 (2.8–3.5) | 26.4 (23.8–28.3) | 3.7 (3.3–4.0) | 2.6 (2.4–2.9) | 1.0 (0.8–1.1) | 0.1 (0.04–0.2) | 11.2 (10.1–12.5) | 0.2 (0.2–0.3) | 2.1 (1.7–2.3) | 8.9 (8.0–10.0) | 0.2 (0.2–0.2) | 4.9 (4.4–5.2) | 2.7 (2.5–2.9) | 1.7 (1.5–1.9) | 0.6 (0.6–0.7) | 2.8 (2.6–3.1) |
| Albania | 249.7 (213.5–283.5) | 1.2 (0.8–2.0) | 119.3 (94.4–142.2) | 96.3 (76.1–122.9) | 24.4 (16.8–34.0) | 68.6 (52.6–88.3) | 3.3 (2.1–5.3) | 10.4 (6.9–14.6) | 1.9 (1.2–2.8) | 1.1 (0.6–1.7) | 0.8 (0.4–1.2) | 0.1 (0.03–0.2) | 8.0 (5.0–11.8) | 0.5 (0.2–0.8) | 0.8 (0.2–1.8) | 6.8 (4.2–10.3) | 0.2 (0.1–0.4) | 4.5 (3.4–6.0) | 1.2 (0.7–1.6) | 0.3 (0.2–0.4) | 0.5 (0.4–0.8) | 5.9 (4.1–10.4) |
| Bosnia and Herzegovina | 295.3 (265.8–320.6) | 0.7 (0.5–0.9) | 141.7 (125.8–159.7) | 105.9 (90.9–120.2) | 85.6 (74.1–98.1) | 17.0 (13.3–22.5) | 3.4 (2.3–4.5) | 16.1 (10.1–21.1) | 3.2 (2.1–4.3) | 1.6 (0.9–2.3) | 1.5 (0.8–2.2) | 0.1 (0.1–0.3) | 16.1 (10.3–23.3) | 0.4 (0.2–0.7) | 1.9 (0.6–3.8) | 13.8 (8.6–20.3) | 0.1 (0.1–0.2) | 4.8 (4.0–5.7) | 3.2 (2.5–4.0) | 0.4 (0.3–0.6) | 0.2 (0.1–0.2) | 2.9 (2.3–3.7) |
| Bulgaria | 417.5 (387.0–433.6) | 1.5 (1.4–1.7) | 161.2 (149.4–171.9) | 146.4 (134.0–155.2) | 115.5 (104.2–122.7) | 27.1 (24.6–30.8) | 3.8 (3.4–4.3) | 87.1 (78.2–96.3) | 1.6 (1.4–1.8) | 0.9 (0.8–1.0) | 0.5 (0.4–0.6) | 0.2 (0.1–0.3) | 3.5 (3.0–4.0) | 0.6 (0.4–0.7) | 0.2 (0.1–0.3) | 2.8 (2.4–3.1) | 0.1 (0.1–0.1) | 5.2 (4.8–5.7) | 1.8 (1.6–2.0) | 0.4 (0.3–0.4) | 0.7 (0.6–0.7) | 8.0 (6.9–9.3) |
| Croatia | 220.6 (202.3–232.5) | 1.6 (1.4–1.7) | 115.5 (106.1–122.2) | 54.3 (49.3–57.6) | 40.1 (35.8–43.2) | 11.4 (10.1–12.6) | 2.8 (2.5–3.2) | 21.0 (18.8–23.6) | 5.2 (4.6–5.7) | 4.0 (3.6–4.4) | 1.0 (0.9–1.2) | 0.2 (0.1–0.3) | 11.3 (9.9–12.6) | 0.3 (0.3–0.4) | 2.4 (2.0–3.0) | 8.5 (7.3–9.7) | 0.05 (0.04–0.1) | 4.6 (4.2–5.0) | 2.9 (2.5–3.2) | 2.8 (2.5–3.1) | 0.4 (0.3–0.4) | 1.0 (0.9–1.2) |
| Czechia | 201.0 (185.0–210.4) | 1.3 (1.2–1.4) | 127.3 (116.6–133.8) | 39.0 (35.1–41.8) | 29.1 (25.7–31.5) | 7.6 (6.9–8.4) | 2.3 (2.1–2.5) | 11.2 (10.1–12.4) | 4.2 (3.7–4.6) | 3.1 (2.7–3.4) | 1.0 (0.8–1.1) | 0.1 (0.04–0.3) | 3.1 (2.7–3.4) | 0.1 (0.1–0.1) | 0.4 (0.3–0.6) | 2.5 (2.2–2.8) | 0.4 (0.4–0.5) | 5.3 (4.8–5.8) | 2.8 (2.5–3.1) | 1.2 (1.1–1.4) | 0.9 (0.8–1.0) | 4.2 (3.7–4.7) |
| Hungary | 289.2 (267.9–300.7) | 1.0 (0.9–1.2) | 165.4 (152.3–172.8) | 56.5 (52.1–59.4) | 43.1 (39.6–45.3) | 11.3 (10.0–12.2) | 2.1 (1.9–2.4) | 34.8 (31.6–37.4) | 6.6 (6.1–7.0) | 4.9 (4.5–5.3) | 1.5 (1.3–1.6) | 0.2 (0.1–0.3) | 10.6 (9.8–11.5) | 0.1 (0.05–0.1) | 7.7 (7.1–8.4) | 2.8 (2.5–3.2) | 0.2 (0.2–0.2) | 4.2 (3.8–4.5) | 3.1 (2.9–3.3) | 2.3 (2.1–2.6) | 1.1 (1.0–1.2) | 3.4 (3.1–3.8) |
| Montenegro | 330.7 (297.9–365.7) | 1.0 (0.6–1.4) | 140.0 (119.9–160.0) | 130.8 (112.5–152.3) | 81.7 (68.3–98.4) | 46.4 (36.0–59.8) | 2.6 (1.8–3.6) | 11.2 (7.7–15.3) | 2.4 (1.6–3.3) | 1.5 (0.9–2.1) | 0.9 (0.5–1.4) | 0.03 (0.009–0.1) | 21.7 (13.4–32.5) | 0.4 (0.2–0.7) | 2.8 (1.0–5.5) | 18.6 (10.9–27.8) | 0.1 (0.02–0.3) | 11.8 (9.3–14.8) | 7.9 (5.8–10.3) | 0.4 (0.3–0.5) | 0.2 (0.1–0.2) | 3.2 (2.4–4.2) |
| North Macedonia | 370.2 (345.0–396.8) | 1.2 (0.8–1.6) | 132.3 (117.4–147.7) | 172.7 (154.7–190.7) | 115.5 (104.4–126.4) | 27.1 (24.9–30.5) | 3.8 (3.4–4.3) | 87.1 (78.2–96.3) | 1.6 (1.4–1.8) | 0.9 (0.8–1.0) | 0.5 (0.4–0.6) | 0.2 (0.1–0.3) | 3.5 (3.0–4.0) | 0.6 (0.4–0.7) | 0.2 (0.1–0.3) | 2.8 (2.4–3.1) | 0.1 (0.1–0.1) | 5.2 (4.8–5.7) | 1.8 (1.6–2.0) | 0.4 (0.3–0.4) | 0.7 (0.6–0.7) | 8.0 (6.9–9.3) |
| Poland | 197.1 (179.0–208.3) | 1.1 (0.9–1.2) | 107.0 (96.5–113.7) | 49.9 (44.6–54.4) | 36.7 (31.9–40.3) | 10.8 (9.5–12.2) | 2.5 (2.2–2.8) | 15.7 (13.7–17.8) | 3.4 (3.0–3.7) | 2.5 (2.1–2.7) | 0.9 (0.7–1.0) | 0.1 (0.02–0.2) | 7.6 (6.7–8.5) | 0.2 (0.2–0.2) | 1.8 (1.5–2.2) | 5.6 (4.9–6.3) | 0.1 (0.1–0.1) | 5.0 (4.3–5.5) | 3.0 (2.7–3.3) | 2.5 (2.2–2.9) | 0.8 (0.7–0.9) | 1.1 (0.9–1.2) |
| Romania | 332.3 (308.2–344.8) | 1.3 (1.1–1.5) | 147.4 (137.0–155.7) | 112.5 (104.2–119.4) | 78.9 (71.1–85.4) | 28.6 (25.5–32.2) | 5.0 (4.3–5.7) | 35.8 (31.8–39.0) | 1.6 (1.4–1.7) | 1.0 (0.9–1.1) | 0.5 (0.4–0.6) | 0.04 (0.02–0.1) | 23.4 (21.3–25.7) | 0.2 (0.2–0.3) | 1.1 (0.8–1.5) | 22.0 (20.0–24.2) | 0.5 (0.4–0.6) | 3.6 (3.3–3.9) | 1.8 (1.6–2.0) | 1.2 (1.1–1.4) | 0.4 (0.3–0.4) | 2.8 (2.5–3.1) |
| Serbia | 421.4 (375.5–461.0) | 1.4 (1.0–1.8) | 181.1 (157.3–203.1) | 153.9 (134.5–173.5) | 121.8 (107.4–138.7) | 27.4 (22.2–32.5) | 4.6 (3.3–5.8) | 37.6 (23.0–49.9) | 6.3 (4.2–8.5) | 3.5 (2.2–4.7) | 2.6 (1.5–3.8) | 0.2 (0.1–0.3) | 23.6 (14.4–34.4) | 0.2 (0.1–0.4) | 3.1 (1.1–5.6) | 20.3 (11.6–30.8) | 0.1 (0.04–0.3) | 7.5 (6.4–8.9) | 4.2 (3.5–5.2) | 1.1 (0.9–1.5) | 0.4 (0.3–0.6) | 4.1 (3.1–5.1) |
| Slovakia | 244.8 (222.6–260.7) | 0.9 (0.6–1.1) | 161.3 (145.5–173.7) | 49.7 (43.5–55.9) | 37.2 (32.8–42.8) | 10.5 (8.7–12.5) | 2.0 (1.5–2.5) | 12.7 (9.2–15.8) | 2.5 (1.3–3.5) | 1.9 (1.0–2.7) | 0.5 (0.2–0.8) | 0.1 (0.02–0.1) | 4.7 (3.4–6.1) | 0.1 (0.1–0.2) | 1.4 (0.5–2.1) | 3.1 (2.2–4.1) | 0.1 (0.04–0.2) | 5.2 (4.4–6.1) | 2.0 (1.6–2.4) | 1.5 (1.2–1.8) | 0.4 (0.3–0.6) | 4.1 (3.3–5.7) |
| Slovenia | 129.2 (115.1–138.5) | 2.3 (1.9–2.6) | 44.1 (39.6–48.0) | 32.5 (28.3–35.2) | 24.8 (21.4–27.2) | 6.2 (5.5–7.0) | 1.5 (1.3–1.7) | 18.5 (15.9–20.9) | 12.1 (10.6–13.5) | 10.7 (9.3–11.9) | 1.3 (1.1–1.6) | 0.1 (0.1–0.3) | 10.4 (9.0–11.7) | 0.1 (0.1–0.1) | 1.9 (1.3–2.8) | 8.4 (7.2–9.6) | 0.04 (0.03–0.05) | 4.2 (3.7–4.6) | 2.3 (1.9–2.6) | 0.8 (0.7–0.9) | 0.5 (0.4–0.5) | 1.5 (1.3–1.7) |
| Eastern Europe | 384.4 (358.9–402.7) | 0.8 (0.7–0.9) | 230.5 (215.5–242.1) | 105.4 (95.9–111.9) | 80.1 (72.3–85.6) | 20.4 (18.3–22.5) | 5.0 (4.3–5.6) | 26.7 (6.3–7.8) | 0.9 (0.8–1.0) | 0.6 (0.6–0.7) | 0.2 (0.2–0.3) | 0.03 (0.01–0.1) | 22.6 (20.5–24.7) | 0.3 (0.2–0.3) | 12.0 (10.7–13.7) | 10.2 (9.2–11.5) | 0.1 (0.1–0.1) | 4.8 (4.2–5.2) | 3.7 (3.4–4.1) | 3.3 (2.9–3.8) | 1.0 (0.8–1.1) | 4.4 (4.0–4.9) |
| Belarus | 458.8 (428.4–481.8) | 1.2 (1.0–1.4) | 339.7 (317.6–360.8) | 91.0 (84.8–97.1) | 68.3 (62.6–73.6) | 18.8 (16.4–21.7) | 3.9 (3.3–4.5) | 1.2 (1.0–1.3) | 0.2 (0.2–0.2) | 0.1 (0.1–0.2) | 0.04 (0.03–0.05) | 0.008 (0.004–0.02) | 9.8 (8.8–11.2) | 0.1 (0.1–0.2) | 6.2 (5.1–7.3) | 3.5 (2.8–4.3) | 0.04 (0.03–0.1) | 4.4 (3.9–5.1) | 3.8 (3.3–4.6) | 4.0 (3.4–4.6) | 0.7 (0.6–0.8) | 2.6 (2.3–2.9) |
| Estonia | 218.0 (196.6–229.8) | 0.5 (0.4–0.6) | 83.7 (76.1–89.2) | 34.2 (31.2–36.6) | 25.4 (22.8–27.5) | 6.8 (6.1–7.4) | 2.1 (1.8–2.4) | 72.1 (63.5–77.9) | 4.3 (3.7–4.9) | 3.6 (3.1–4.0) | 0.6 (0.5–0.8) | 0.1 (0.03–0.2) | 8.7 (7.8–9.6) | 0.1 (0.1–0.1) | 4.1 (3.5–4.7) | 4.5 (3.9–5.2) | 0.04 (0.03–0.04) | 5.7 (5.0–6.3) | 3.5 (3.0–4.0) | 1.1 (1.0–1.3) | 1.1 (1.0–1.3) | 2.9 (2.5–3.3) |
| Latvia | 324.4 (299.0–340.4) | 0.8 (0.7–0.9) | 150.3 (139.6–159.4) | 104.3 (95.3–111.3) | 86.9 (79.3–92.8) | 14.2 (12.8–16.0) | 3.1 (2.7–3.6) | 23.7 (20.7–25.9) | 2.4 (2.1–2.7) | 2.1 (1.9–2.4) | 0.3 (0.2–0.3) | 0.03 (0.01–0.1) | 27.9 (26.0–30.2) | 0.1 (0.04–0.1) | 14.7 (12.9–16.8) | 13.2 (11.6–14.9) | 0.1 (0.1–0.2) | 4.8 (4.3–5.2) | 2.9 (2.5–3.3) | 3.4 (2.8–3.9) | 1.0 (0.8–1.1) | 2.8 (2.4–3.2) |
| Lithuania | 301.7 (277.2–315.5) | 0.7 (0.6–0.8) | 193.0 (177.1–203.1) | 63.8 (58.2–68.2) | 50.8 (45.8–54.6) | 10.3 (9.3–11.2) | 2.7 (2.4–3.0) | 17.9 (15.7–19.6) | 1.7 (1.5–1.9) | 1.4 (1.2–1.6) | 0.3 (0.2–0.3) | 0.04 (0.02–0.1) | 10.7 (9.7–11.7) | 0.1 (0.04–0.1) | 3.9 (3.4–4.6) | 6.7 (6.0–7.6) | 0.1 (0.05–0.1) | 5.0 (4.5–5.4) | 3.0 (2.6–3.4) | 1.7 (1.4–1.9) | 0.8 (0.7–0.9) | 3.4 (2.9–3.8) |
| Republic of Moldova | 316.7 (291.4–335.1) | 1.0 (0.8–1.1) | 202.0 (182.9–215.7) | 70.3 (64.6–76.1) | 42.9 (38.2–47.7) | 25.7 (22.5–28.5) | 1.8 (1.5–2.0) | 29.5 (26.5–32.3) | 0.4 (0.3–0.4) | 0.2 (0.1–0.2) | 0.2 (0.2–0.2) | 0.02 (0.009–0.04) | 5.5 (4.7–6.2) | 0.1 (0.1–0.1) | 3.2 (2.7–3.7) | 2.2 (1.8–2.6) | 0.007 (0.005–0.009) | 3.4 (3.0–3.8) | 1.4 (1.2–1.6) | 1.3 (1.1–1.6) | 0.5 (0.4–0.6) | 1.5 (1.3–1.7) |
| Russian Federation | 173.2 (346.6–387.9) | 0.7 (0.7–0.8) | 204.0 (189.5–214.6) | 89.7 (106.3–125.8) | 22.1 (80.6–96.7) | 5.5 (19.9–24.6) | 5.5 (4.8–6.3) | 6.3 (4.9–6.1) | 0.4 (0.9–1.2) | 0.3 (0.6–0.8) | 0.3 (0.2–0.3) | 0.04 (0.01–0.1) | 19.5 (22.4–27.7) | 0.3 (0.2–0.4) | 12.9 (11.4–14.8) | 11.7 (10.5–13.2) | 0.1 (0.1–0.1) | 5.3 (4.6–5.8) | 4.2 (3.8–4.7) | 3.5 (3.0–4.1) | 1.1 (1.0–1.3) | 5.4 (4.8–6.0) |
| Ukraine | 427.5 (392.7–464.8) | 0.9 (0.8–1.1) | 306.8 (280.1–333.8) | 82.2 (74.2–90.3) | 61.6 (55.6–68.9) | 16.4 (14.2–19.2) | 4.1 (3.4–4.8) | 6.3 (5.2–7.4) | 0.4 (0.3–0.4) | 0.3 (0.2–0.3) | 0.1 (0.1–0.1) | 0.02 (0.008–0.04) | 19.5 (16.9–21.9) | 0.3 (0.2–0.4) | 11.8 (10.2–13.6) | 7.4 (6.2–8.9) | 0.1 (0.05–0.1) | 3.4 (2.9–4.0) | 2.3 (2.0–2.8) | 2.9 (2.4–3.3) | 0.5 (0.4–0.6) | 2.3 (2.0–2.6) |
| **High-income** | **111.7 (97.3–119.8)** | **1.2 (1.0–1.3)** | **51.3 (45.3–54.9)** | **28.3 (24.2–30.7)** | **16.4 (13.6–18.0)** | **8.9 (7.8–9.6)** | **3.0 (2.7–3.3)** | **8.6 (7.4–9.6)** | **4.4 (3.5–4.8)** | **3.7 (3.0–4.1)** | **0.7 (0.6–0.8)** | **0.02 (0.009–0.04)** | **3.8 (3.3–4.1)** | **0.1 (0.1–0.1)** | **0.6 (0.5–0.6)** | **3.1 (2.7–3.4)** | **0.2 (0.2–0.2)** | **5.1 (4.2–5.6)** | **3.0 (2.6–3.3)** | **1.3 (1.1–1.4)** | **1.5 (1.3–1.7)** | **3.0 (2.7–3.3)** |
| Australasia | 87.3 (75.2–94.3) | 1.0 (0.9–1.2) | 43.1 (37.7–46.5) | 20.0 (16.9–22.0) | 11.9 (9.7–13.2) | 5.7 (4.8–6.3) | 2.5 (2.2–2.8) | 2.3 (1.9–2.5) | 3.6 (3.0–4.1) | 3.0 (2.5–3.4) | 0.6 (0.5–0.7) | 0.006 (0.002–0.01) | 3.2 (2.8–3.6) | 0.1 (0.1–0.1) | 0.7 (0.6–0.9) | 2.4 (2.1–2.7) | 0.1 (0.1–0.1) | 6.3 (5.2–7.0) | 2.6 (2.3–2.8) | 1.5 (1.3–1.7) | 1.2 (1.1–1.4) | 2.3 (2.0–2.5) |
| Australia | 81.1 (69.6–87.8) | 0.8 (0.7–0.9) | 39.8 (34.5–43.2) | 18.7 (15.6–20.7) | 10.8 (8.7–12.1) | 5.5 (4.7–6.2) | 2.4 (2.1–2.7) | 2.2 (1.8–2.4) | 3.2 (2.7–3.6) | 2.7 (2.2–3.0) | 0.5 (0.5–0.6) | 0.006 (0.003–0.02) | 2.9 (2.5–3.2) | 0.1 (0.04–0.1) | 0.7 (0.6–0.8) | 2.2 (1.9–2.5) | 0.1 (0.1–0.1) | 6.0 (4.9–6.7) | 2.3 (2.0–2.5) | 1.5 (1.2–1.7) | 1.3 (1.1–1.4) | 2.3 (2.0–2.6) |
| New Zealand | 123.5 (108.2–132.1) | 2.2 (1.8–2.5) | 62.2 (54.4–66.5) | 28.0 (23.8–30.9) | 18.4 (15.4–20.5) | 6.4 (5.6–7.2) | 3.2 (2.8–3.6) | 2.9 (2.4–3.3) | 6.2 (5.2–6.9) | 5.2 (4.3–5.8) | 1.0 (0.8–1.2) | 0.001 (0.0001–0.002) | 4.8 (4.1–5.4) | 0.1 (0.1–0.2) | 1.2 (0.9–1.5) | 3.5 (3.0–4.0) | 0.1 (0.1–0.2) | 8.1 (6.8–9.0) | 4.3 (3.8–4.7) | 1.9 (1.5–2.1) | 1.0 (0.8–1.1) | 2.0 (1.7–2.3) |
| High-income Asia Pacific | 74.6 (61.7–82.4) | 0.7 (0.5–0.9) | 27.1 (22.9–30.0) | 28.2 (23.4–31.2) | 15.0 (11.9–16.9) | 9.3 (7.9–10.2) | 3.9 (3.4–4.4) | 3.4 (2.6–4.2) | 3.3 (2.4–3.9) | 2.7 (2.0–3.2) | 0.5 (0.4–0.7) | 0.01 (0.004–0.02) | 1.9 (1.6–2.2) | 0.2 (0.1–0.2) | 0.2 (0.1–0.2) | 1.6 (1.3–1.9) | 0.3 (0.2–0.3) | 2.6 (2.1–3.0) | 4.8 (4.0–5.3) | 0.4 (0.3–0.4) | 0.9 (0.7–1.1) | 1.0 (0.8–1.2) |
| Brunei Darussalam | 156.7 (135.2–178.1) | 1.6 (1.0–2.2) | 68.7 (57.3–80.9) | 52.0 (42.5–62.8) | 26.2 (21.0–33.3) | 19.6 (14.3–26.4) | 6.2 (4.5–8.4) | 12.3 (8.3–17.4) | 3.0 (1.9–4.2) | 2.1 (1.2–3.1) | 0.9 (0.4–1.6) | 0.03 (0.01–0.1) | 5.9 (4.1–7.7) | 0.4 (0.2–0.7) | 0.6 (0.3–1.5) | 4.9 (3.4–6.6) | 0.2 (0.1–0.4) | 4.9 (3.8–6.1) | 4.0 (2.9–5.4) | 0.5 (0.3–0.6) | 1.4 (1.0–1.9) | 2.3 (1.6–3.2) |
| Japan | 76.5 (63.5–83.8) | 0.8 (0.6–0.9) | 27.7 (23.5–30.7) | 28.3 (23.4–31.3) | 14.4 (11.2–16.3) | 9.7 (8.3–10.8) | 4.3 (3.7–4.8) | 3.0 (2.3–3.6) | 3.6 (2.6–4.2) | 2.9 (2.1–3.6) | 0.6 (0.4–0.7) | 0.007 (0.003–0.02) | 2.1 (1.7–2.5) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.4–2.1) | 0.3 (0.3–0.4) | 2.5 (2.0–2.9) | 5.7 (4.7–6.2) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.1 (0.9–1.3) |
| Aichi | 72.9 (60.3–81.1) | 0.6 (0.5–0.7) | 24.6 (20.6–27.7) | 28.8 (23.6–31.7) | 14.6 (11.5–16.6) | 9.6 (8.2–10.7) | 4.6 (4.0–5.2) | 2.2 (1.6–2.6) | 3.3 (2.4–3.9) | 2.7 (2.0–3.3) | 0.5 (0.4–0.7) | 0.007 (0.003–0.02) | 1.7 (1.4–2.0) | 0.1 (0.1–0.1) | 0.2 (0.1–0.3) | 1.4 (1.2–1.7) | 0.3 (0.3–0.4) | 2.3 (1.8–2.7) | 6.7 (5.5–7.4) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.1 (0.9–1.3) |
| Akita | 78.5 (65.6–87.7) | 1.0 (0.8–1.3) | 19.1 (15.8–21.7) | 37.7 (31.6–42.3) | 18.5 (14.9–21.3) | 13.6 (11.5–15.2) | 5.5 (4.7–6.3) | 2.7 (2.0–3.3) | 4.2 (3.1–5.1) | 3.5 (2.6–4.3) | 0.7 (0.5–0.9) | 0.008 (0.003–0.02) | 2.4 (2.0–2.8) | 0.2 (0.1–0.2) | 0.3 (0.2–0.4) | 1.9 (1.6–2.2) | 0.3 (0.2–0.4) | 3.1 (2.4–3.5) | 5.4 (4.5–6.1) | 0.4 (0.3–0.5) | 0.9 (0.7–1.0) | 1.3 (1.1–1.6) |
| Aomori | 82.1 (68.8–91.8) | 0.9 (0.7–1.0) | 26.0 (22.2–28.9) | 33.7 (28.4–37.8) | 17.7 (14.3–20.2) | 11.0 (9.4–12.3) | 5.0 (4.4–5.8) | 3.0 (2.3–3.6) | 3.8 (2.9–4.5) | 3.2 (2.5–3.8) | 0.6 (0.5–0.7) | 0.008 (0.003–0.03) | 2.4 (2.0–2.7) | 0.2 (0.1–0.2) | 0.3 (0.2–0.4) | 1.9 (1.6–2.2) | 0.3 (0.3–0.4) | 3.5 (2.7–4.0) | 5.9 (5.0–6.6) | 0.5 (0.4–0.5) | 0.9 (0.7–1.1) | 1.3 (1.1–1.6) |
| Chiba | 79.2 (66.3–87.9) | 0.8 (0.6–0.9) | 27.0 (22.7–30.6) | 30.7 (25.8–34.3) | 15.3 (12.1–17.4) | 10.7 (9.3–12.1) | 4.7 (4.0–5.3) | 3.9 (3.0–4.8) | 3.5 (2.6–4.2) | 2.9 (2.1–3.5) | 0.6 (0.5–0.8) | 0.007 (0.002–0.02) | 2.2 (1.8–2.5) | 0.2 (0.1–0.2) | 0.3 (0.2–0.3) | 1.8 (1.5–2.1) | 0.3 (0.3–0.4) | 2.3 (1.8–2.7) | 5.8 (4.9–6.5) | 0.4 (0.3–0.5) | 1.1 (0.8–1.3) | 1.1 (0.9–1.3) |
| Ehime | 73.5 (59.4–82.9) | 0.9 (0.6–1.0) | 24.0 (19.9–27.5) | 29.0 (23.8–32.8) | 15.5 (12.2–17.9) | 9.6 (8.1–11.0) | 3.8 (3.3–4.4) | 3.2 (2.4–3.9) | 3.8 (2.7–4.6) | 3.2 (2.3–3.9) | 0.6 (0.5–0.8) | 0.01 (0.004–0.03) | 2.4 (2.0–2.8) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 2.0 (1.6–2.3) | 0.4 (0.3–0.5) | 2.4 (1.8–2.8) | 4.9 (4.0–5.6

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ishikawa | 70.8 (57.8–79.4) | 0.7 (0.5–0.9) | 24.6 (20.2–28.1) | 27.3 (21.9–31.1) | 15.2 (11.9–17.7) | 8.4 (6.8–9.6) | 3.7 (3.1–4.3) | 2.5 (1.8–3.0) | 3.3 (2.3–4.0) | 2.7 (1.9–3.3) | 0.5 (0.4–0.7) | 0.007 (0.002–0.02) | 2.0 (1.6–2.3) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 1.6 (1.3–2.0) | 0.3 (0.3–0.4) | 2.6 (2.0–3.0) | 5.2 (4.3–6.0) | 0.4 (0.3–0.5) | 0.8 (0.6–0.9) | 1.1 (0.9–1.3) |
| Iwate | 85.6 (70.1–95.6) | 0.9 (0.7–1.1) | 22.6 (19.0–26.0) | 41.6 (34.0–46.5) | 20.3 (15.7–23.2) | 15.2 (12.6–16.9) | 6.2 (5.2–7.1) | 2.8 (2.1–3.4) | 2.8 (2.9–4.7) | 3.9 (2.4–3.9) | 3.2 (0.5–0.9) | 0.008 (0.003–0.02) | 2.1 (1.8–2.5) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.7 (1.4–2.0) | 0.3 (0.2–0.3) | 2.8 (2.1–3.2) | 5.9 (4.8–6.7) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.3 (1.0–1.5) |
| Kagawa | 71.5 (59.6–80.4) | 0.9 (0.7–1.2) | 22.1 (18.5–24.9) | 29.1 (24.1–32.8) | 16.3 (13.1–18.8) | 9.0 (7.5–10.2) | 3.8 (3.2–4.4) | 2.7 (2.1–3.3) | 4.1 (3.1–4.9) | 3.4 (2.5–4.1) | 0.7 (0.5–0.9) | 0.007 (0.003–0.02) | 2.3 (1.9–2.7) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.9 (1.5–2.2) | 0.4 (0.3–0.4) | 2.6 (2.1–3.0) | 4.7 (3.8–5.5) | 0.4 (0.3–0.4) | 1.0 (0.8–1.3) | 1.2 (0.9–1.4) |
| Kagoshima | 76.0 (63.7–85.1) | 0.8 (0.6–1.0) | 24.9 (21.2–28.5) | 29.5 (24.7–33.3) | 15.1 (12.0–17.4) | 9.5 (7.8–10.8) | 4.9 (4.1–5.5) | 2.8 (2.1–3.4) | 4.1 (3.0–4.9) | 3.4 (2.5–4.2) | 0.6 (0.5–0.8) | 0.008 (0.003–0.02) | 2.2 (1.9–2.6) | 0.2 (0.1–0.2) | 0.3 (0.2–0.4) | 1.8 (1.5–2.1) | 0.4 (0.3–0.5) | 2.5 (1.9–2.9) | 6.2 (5.2–7.1) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.2 (1.0–1.5) |
| Kanagawa | 74.0 (61.7–81.9) | 0.8 (0.6–0.9) | 28.5 (24.1–31.7) | 25.2 (21.0–28.1) | 12.4 (9.6–14.2) | 9.0 (7.7–10.1) | 3.9 (3.3–4.4) | 2.7 (2.1–3.3) | 3.6 (2.6–4.4) | 3.1 (2.2–3.7) | 0.6 (0.4–0.7) | 0.007 (0.002–0.02) | 2.2 (1.8–2.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.8 (1.5–2.1) | 0.3 (0.2–0.4) | 2.8 (2.2–3.2) | 5.5 (4.6–6.1) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.1 (0.8–1.2) |
| Kōchi | 75.6 (62.4–85.0) | 0.8 (0.6–1.0) | 27.6 (23.1–31.3) | 27.1 (22.1–30.9) | 14.3 (11.2–16.7) | 8.5 (7.1–9.7) | 4.3 (3.6–4.9) | 2.6 (1.8–3.1) | 4.2 (3.0–5.2) | 3.5 (2.5–4.3) | 0.7 (0.5–0.9) | 0.008 (0.003–0.02) | 2.6 (2.1–3.0) | 0.2 (0.1–0.2) | 0.3 (0.2–0.5) | 2.1 (1.7–2.4) | 0.4 (0.3–0.5) | 2.5 (2.0–3.0) | 5.3 (4.3–6.1) | 0.4 (0.3–0.5) | 0.8 (0.7–1.0) | 1.3 (1.0–1.5) |
| Kumamoto | 61.2 (48.8–68.9) | 0.7 (0.5–0.9) | 16.3 (13.2–18.7) | 25.3 (20.3–28.6) | 12.9 (10.0–15.0) | 8.2 (6.7–9.4) | 4.2 (3.5–4.7) | 2.5 (1.8–3.1) | 3.3 (2.3–4.0) | 2.7 (1.9–3.3) | 0.6 (0.4–0.8) | 0.008 (0.003–0.02) | 2.1 (1.8–2.5) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 1.8 (1.5–2.2) | 0.3 (0.2–0.4) | 2.4 (1.8–2.8) | 5.8 (4.6–6.6) | 0.4 (0.3–0.4) | 0.7 (0.6–0.9) | 1.2 (1.0–1.5) |
| Kyōto | 73.7 (60.4–81.5) | 0.7 (0.5–0.8) | 31.1 (26.2–34.6) | 24.3 (19.6–27.3) | 12.2 (9.5–14.0) | 8.9 (7.3–10.1) | 3.3 (2.8–3.7) | 2.6 (1.9–3.1) | 3.0 (2.2–3.6) | 2.5 (1.8–3.0) | 0.5 (0.4–0.7) | 0.007 (0.003–0.02) | 2.0 (1.7–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.4–2.0) | 0.3 (0.3–0.4) | 2.6 (2.1–3.0) | 4.6 (3.8–5.2) | 0.4 (0.3–0.5) | 0.8 (0.7–1.0) | 1.2 (0.9–1.4) |
| Mie | 79.1 (64.9–87.9) | 0.8 (0.6–0.9) | 29.1 (24.0–32.6) | 29.6 (23.9–33.3) | 15.7 (12.3–18.0) | 9.9 (8.2–11.3) | 4.0 (3.4–4.6) | 2.9 (2.1–3.5) | 3.7 (2.6–4.3) | 3.0 (2.1–3.6) | 0.6 (0.5–0.8) | 0.009 (0.003–0.03) | 2.0 (1.6–2.4) | 0.1 (0.1–0.1) | 0.2 (0.2–0.3) | 1.6 (1.3–2.0) | 0.3 (0.3–0.4) | 2.3 (1.8–2.6) | 6.1 (5.0–6.9) | 0.4 (0.3–0.5) | 0.9 (0.7–1.2) | 1.1 (0.9–1.3) |
| Miyagi | 79.9 (65.9–89.1) | 0.8 (0.6–1.0) | 24.1 (20.2–27.1) | 34.9 (28.9–38.9) | 16.1 (12.6–18.3) | 14.1 (12.1–15.7) | 4.8 (4.0–5.4) | 2.6 (1.9–3.2) | 3.8 (2.7–4.5) | 3.1 (2.2–3.8) | 0.6 (0.5–0.8) | 0.006 (0.002–0.02) | 2.4 (2.0–2.8) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 2.0 (1.6–2.4) | 0.3 (0.2–0.4) | 2.6 (2.0–3.1) | 6.0 (5.0–6.7) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.0 (0.8–1.2) |
| Miyazaki | 73.3 (59.9–81.3) | 1.0 (0.7–1.2) | 22.5 (18.8–25.5) | 29.6 (24.3–33.2) | 15.2 (12.0–17.4) | 9.8 (8.2–11.2) | 4.6 (3.9–5.3) | 3.1 (2.3–3.8) | 3.7 (2.7–4.4) | 3.0 (2.2–3.7) | 0.7 (0.5–0.8) | 0.008 (0.004–0.02) | 2.2 (1.8–2.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.3) | 1.8 (1.5–2.2) | 0.3 (0.3–0.4) | 2.8 (2.2–3.2) | 5.5 (4.5–6.3) | 0.4 (0.3–0.5) | 1.0 (0.8–1.3) | 1.2 (1.0–1.4) |
| Nagano | 69.4 (56.0–78.4) | 0.7 (0.5–0.9) | 20.9 (17.1–24.1) | 28.3 (22.9–32.3) | 15.1 (11.6–17.7) | 8.9 (7.4–10.2) | 4.3 (3.6–4.9) | 2.7 (1.9–3.3) | 3.6 (2.6–4.3) | 3.1 (2.2–3.7) | 0.6 (0.4–0.7) | 0.008 (0.003–0.02) | 2.0 (1.6–2.3) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.6 (1.3–1.9) | 0.3 (0.2–0.3) | 2.6 (2.0–3.0) | 6.0 (4.9–6.8) | 0.3 (0.2–0.4) | 0.9 (0.7–1.1) | 1.1 (0.8–1.3) |
| Nagasaki | 69.7 (56.4–78.8) | 1.0 (0.7–1.2) | 22.1 (18.3–25.4) | 25.7 (20.9–28.7) | 13.8 (10.8–15.9) | 8.3 (7.0–9.5) | 3.6 (3.0–4.1) | 3.3 (2.4–4.0) | 3.9 (2.8–4.8) | 3.2 (2.3–3.9) | 0.7 (0.5–0.9) | 0.009 (0.004–0.03) | 2.3 (1.9–2.7) | 0.2 (0.1–0.2) | 0.2 (0.2–0.3) | 2.0 (1.6–2.3) | 0.3 (0.2–0.4) | 2.4 (1.9–2.8) | 6.0 (4.9–6.8) | 0.5 (0.3–0.6) | 1.0 (0.8–1.2) | 1.2 (1.0–1.5) |
| Nara | 63.4 (50.2–71.7) | 0.7 (0.5–0.9) | 20.3 (16.4–23.3) | 24.2 (19.0–27.6) | 13.9 (10.3–16.2) | 7.2 (5.8–8.3) | 3.1 (2.7–3.6) | 2.9 (2.1–3.6) | 3.1 (2.2–3.8) | 2.7 (1.9–3.2) | 0.5 (0.3–0.6) | 0.009 (0.004–0.02) | 2.1 (1.6–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.3–2.0) | 0.3 (0.3–0.4) | 2.3 (1.8–2.7) | 5.0 (4.0–5.8) | 0.4 (0.3–0.5) | 1.0 (0.8–1.3) | 1.0 (0.8–1.2) |
| Niigata | 76.3 (62.9–86.6) | 0.8 (0.6–1.0) | 20.7 (17.3–23.5) | 35.2 (28.9–39.5) | 18.4 (14.5–21.1) | 11.6 (9.7–13.0) | 5.2 (4.5–5.9) | 2.8 (2.1–3.3) | 3.9 (2.8–4.6) | 3.2 (2.3–3.8) | 0.7 (0.5–0.9) | 0.007 (0.003–0.02) | 2.0 (1.6–2.3) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.6 (1.3–2.0) | 0.3 (0.2–0.4) | 2.9 (2.2–3.3) | 5.2 (4.4–5.9) | 0.4 (0.3–0.5) | 1.0 (0.8–1.2) | 1.1 (0.9–1.3) |
| Ōita | 71.7 (58.0–81.2) | 0.8 (0.6–1.0) | 24.5 (20.1–27.9) | 27.3 (22.2–31.1) | 14.5 (11.2–16.8) | 8.8 (7.1–10.1) | 4.0 (3.4–4.7) | 3.0 (2.2–3.7) | 3.4 (2.5–4.1) | 2.8 (2.0–3.5) | 0.6 (0.4–0.7) | 0.007 (0.002–0.02) | 2.2 (1.8–2.6) | 0.2 (0.1–0.2) | 0.2 (0.2–0.3) | 1.8 (1.4–2.1) | 0.3 (0.2–0.4) | 2.5 (1.9–2.9) | 5.2 (4.1–6.0) | 0.4 (0.3–0.5) | 1.0 (0.7–1.2) | 1.0 (0.8–1.2) |
| Okayama | 71.7 (58.7–80.7) | 0.7 (0.5–0.8) | 28.4 (23.4–32.7) | 25.0 (20.2–28.4) | 13.1 (10.2–15.2) | 7.8 (6.5–8.9) | 4.0 (3.4–4.7) | 2.3 (1.7–2.9) | 3.3 (2.4–4.0) | 2.7 (1.9–3.2) | 0.6 (0.4–0.7) | 0.008 (0.003–0.02) | 2.1 (1.7–2.5) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.4–2.1) | 0.3 (0.3–0.4) | 2.5 (1.9–2.9) | 5.0 (4.0–5.7) | 0.4 (0.3–0.5) | 0.8 (0.6–1.0) | 1.0 (0.8–1.2) |
| Okinawa | 78.1 (66.1–86.8) | 0.9 (0.7–1.1) | 27.5 (23.7–31.0) | 27.9 (23.3–31.2) | 12.2 (9.6–14.0) | 11.2 (9.5–12.6) | 4.5 (3.9–5.3) | 2.7 (2.1–3.3) | 4.3 (3.1–5.2) | 3.7 (2.7–4.5) | 0.5 (0.4–0.7) | 0.008 (0.003–0.03) | 2.7 (2.2–3.1) | 0.2 (0.1–0.2) | 0.4 (0.3–0.5) | 2.1 (1.7–2.5) | 0.4 (0.3–0.5) | 2.4 (1.9–2.8) | 6.5 (5.4–7.5) | 0.4 (0.3–0.5) | 1.1 (0.8–1.3) | 1.4 (1.1–1.7) |
| Ōsaka | 84.6 (72.7–92.4) | 0.7 (0.6–0.9) | 38.7 (33.5–42.4) | 25.3 (21.3–28.0) | 13.6 (10.9–15.1) | 8.1 (7.0–9.1) | 3.7 (3.2–4.1) | 4.6 (3.7–5.4) | 3.2 (2.4–3.9) | 2.7 (2.0–3.2) | 0.6 (0.4–0.7) | 0.007 (0.002–0.02) | 2.2 (1.9–2.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.8 (1.5–2.2) | 0.3 (0.3–0.4) | 2.3 (1.8–2.6) | 4.8 (4.0–5.2) | 0.4 (0.3–0.5) | 0.9 (0.7–1.0) | 1.1 (0.9–1.3) |
| Saga | 63.9 (52.2–72.6) | 0.7 (0.5–0.9) | 19.3 (15.7–22.4) | 25.3 (20.7–28.8) | 13.0 (10.2–15.1) | 8.4 (7.0–9.7) | 3.9 (3.3–4.5) | 3.3 (2.4–4.1) | 3.3 (2.3–4.0) | 2.7 (1.9–3.3) | 0.6 (0.4–0.8) | 0.006 (0.002–0.02) | 1.8 (1.5–2.2) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 1.5 (1.2–1.8) | 0.3 (0.2–0.3) | 2.5 (1.9–2.9) | 5.1 (4.2–5.9) | 0.4 (0.3–0.5) | 0.8 (0.6–1.0) | 1.2 (1.0–1.4) |
| Saitama | 82.6 (69.0–91.3) | 0.8 (0.6–0.9) | 35.3 (30.1–39.4) | 28.0 (23.4–31.2) | 14.2 (11.4–16.2) | 9.3 (7.9–10.5) | 4.5 (3.8–5.0) | 2.7 (2.0–3.2) | 3.4 (2.4–4.0) | 2.7 (1.9–3.3) | 0.6 (0.5–0.8) | 0.008 (0.003–0.03) | 1.9 (1.6–2.2) | 0.1 (0.1–0.1) | 0.2 (0.1–0.3) | 1.6 (1.3–1.9) | 0.3 (0.3–0.4) | 2.6 (2.1–3.0) | 5.2 (4.3–5.7) | 0.4 (0.3–0.4) | 1.0 (0.8–1.2) | 1.1 (0.9–1.2) |
| Shiga | 68.0 (54.7–76.8) | 0.8 (0.6–0.9) | 26.1 (21.3–29.7) | 22.6 (18.2–25.5) | 12.1 (9.3–14.1) | 6.9 (5.6–7.9) | 3.5 (3.0–4.0) | 2.8 (2.0–3.5) | 3.7 (2.6–4.6) | 3.2 (2.2–3.9) | 0.6 (0.4–0.7) | 0.008 (0.003–0.02) | 1.9 (1.6–2.3) | 0.1 (0.1–0.2) | 0.2 (0.1–0.2) | 1.6 (1.3–1.9) | 0.3 (0.3–0.4) | 2.4 (1.9–2.8) | 5.0 (4.0–5.8) | 0.4 (0.3–0.5) | 1.0 (0.7–1.2) | 1.0 (0.8–1.2) |
| Shimane | 64.0 (51.3–72.4) | 0.7 (0.5–0.8) | 17.2 (14.2–19.7) | 26.5 (21.5–30.1) | 14.5 (11.2–17.0) | 8.3 (6.8–9.5) | 3.7 (3.2–4.3) | 2.4 (1.8–2.9) | 4.0 (2.8–4.8) | 3.3 (2.4–4.1) | 0.6 (0.4–0.8) | 0.006 (0.002–0.02) | 2.0 (1.7–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.3–2.0) | 0.4 (0.3–0.4) | 2.5 (1.9–3.0) | 6.0 (4.8–6.9) | 0.4 (0.3–0.5) | 0.9 (0.7–1.1) | 1.0 (0.8–1.2) |
| Shizuoka | 79.2 (65.4–88.1) | 0.8 (0.6–1.0) | 24.3 (20.5–27.2) | 34.3 (28.3–38.1) | 15.8 (12.4–18.2) | 13.3 (11.4–14.9) | 5.1 (4.3–5.8) | 2.7 (2.0–3.3) | 3.9 (2.9–4.7) | 3.3 (2.4–4.0) | 0.6 (0.5–0.8) | 0.008 (0.003–0.03) | 2.1 (1.7–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.7 (1.4–2.0) | 0.3 (0.2–0.4) | 2.4 (1.9–2.7) | 5.8 (4.8–6.4) | 0.4 (0.3–0.5) | 1.0 (0.7–1.2) | 1.1 (0.9–1.3) |
| Tochigi | 91.6 (75.6–102.0) | 0.8 (0.6–1.0) | 36.5 (30.9–40.9) | 35.0 (29.1–39.3) | 16.9 (13.5–19.4) | 12.8 (10.9–14.6) | 5.2 (4.5–5.9) | 2.7 (2.0–3.3) | 3.9 (2.9–4.6) | 3.1 (2.3–3.8) | 0.7 (0.5–0.9) | 0.007 (0.002–0.02) | 1.9 (1.5–2.1) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 1.5 (1.3–1.8) | 0.3 (0.3–0.4) | 2.6 (2.0–2.9) | 5.5 (4.6–6.2) | 0.3 (0.2–0.4) | 1.0 (0.8–1.3) | 1.1 (0.9–1.3) |
| Tokushima | 71.8 (57.2–80.3) | 0.8 (0.6–1.1) | 23.7 (19.2–26.8) | 27.6 (22.5–31.0) | 14.8 (11.5–16.7) | 9.3 (7.7–10.5) | 3.7 (3.1–4.2) | 3.0 (2.2–3.7) | 3.8 (2.7–4.6) | 3.1 (2.2–3.8) | 0.6 (0.5–0.8) | 0.009 (0.004–0.03) | 2.1 (1.8–2.5) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.7 (1.4–2.0) | 0.3 (0.3–0.4) | 2.9 (2.2–3.4) | 4.9 (3.9–5.7) | 0.3 (0.3–0.4) | 0.9 (0.7–1.1) | 1.3 (1.0–1.5) |
| Tōkyō | 78.6 (64.8–87.0) | 0.7 (0.5–0.9) | 33.1 (27.5–36.7) | 26.1 (21.7–29.1) | 12.7 (10.1–14.5) | 9.7 (8.3–10.8) | 3.7 (3.2–4.2) | 2.5 (1.9–3.1) | 3.3 (2.3–3.9) | 2.7 (1.9–3.2) | 0.6 (0.4–0.7) | 0.006 (0.002–0.02) | 1.8 (1.5–2.1) | 0.1 (0.1–0.1) | 0.2 (0.1–0.2) | 1.6 (1.3–1.9) | 0.3 (0.2–0.3) | 2.5 (2.0–2.9) | 6.0 (5.1–6.7) | 0.3 (0.3–0.4) | 0.9 (0.7–1.0) | 1.1 (0.9–1.2) |
| Tottori | 72.5 (59.4–81.6) | 0.9 (0.7–1.1) | 22.4 (18.5–25.9) | 28.2 (23.1–31.9) | 15.4 (12.2–17.9) | 8.6 (7.1–9.9) | 4.2 (3.6–4.9) | 2.6 (1.9–3.2) | 4.0 (2.9–4.9) | 3.4 (2.4–4.3) | 0.6 (0.4–0.8) | 0.008 (0.003–0.02) | 2.0 (1.7–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.6 (1.3–1.9) | 0.3 (0.3–0.4) | 3.0 (2.4–3.6) | 6.4 (5.1–7.5) | 0.6 (0.4–0.7) | 1.0 (0.8–1.2) | 1.1 (0.8–1.3) |
| Toyama | 68.2 (55.6–76.6) | 0.7 (0.5–0.9) | 21.9 (17.9–25.0) | 27.5 (22.3–31.0) | 14.4 (11.3–16.7) | 8.5 (6.9–9.6) | 4.6 (3.9–5.2) | 2.5 (1.8–3.1) | 3.2 (2.3–3.9) | 2.6 (1.9–3.2) | 0.6 (0.4–0.7) | 0.006 (0.002–0.02) | 2.0 (1.6–2.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 1.6 (1.3–2.0) | 0.3 (0.2–0.3) | 2.4 (1.9–2.8) | 5.6 (4.6–6.4) | 0.3 (0.3–0.4) | 0.7 (0.5–0.9) | 1.1 (0.8–1.3) |
| Wakayama | 83.3 (69.5–92.9) | 0.8 (0.6–1.0) | 36.3 (31.2–40.5) | 26.2 (21.8–29.3) | 14.7 (11.7–16.8) | 8.1 (6.8–9.1) | 3.4 (2.9–3.9) | 3.0 (2.3–3.6) | 4.1 (3.0–4.9) | 3.4 (2.5–4.1) | 0.7 (0.5–0.8) | 0.008 (0.003–0.03) | 2.4 (2.0–2.8) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 2.0 (1.6–2.3) | 0.4 (0.3–0.5) | 2.4 (1.9–2.7) | 5.1 (4.2–5.9) | 0.5 (0.4–0.6) | 1.0 (0.8–1.2) | 1.1 (0.9–1.3) |
| Yamagata | 81.9 (68.0–91.0) | 0.9 (0.7–1.1) | 30.6 (25.6–34.5) | 31.4 (25.9–35.4) | 17.0 (13.5–19.4) | 9.6 (7.8–11.0) | 4.9 (4.1–5.5) | 2.4 (1.8–2.9) | 3.6 (2.6–4.2) | 2.9 (2.1–3.5) | 0.6 (0.5–0.8) | 0.007 (0.002–0.02) | 2.2 (1.8–2.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 1.8 (1.5–2.1) | 0.3 (0.3–0.4) | 2.5 (2.0–2.9) | 5.7 (4.7–6.5) | 0.3 (0.2–0.4) | 0.9 (0.7–1.1) | 1.2 (0.9–1.4) |
| Yamaguchi | 83.2 (69.2–92.2) | 1.2 (0.9–1.4) | 29.9 (25.3–33.7) | 28.4 (23.4–31.8) | 15.8 (12.6–18.0) | 8.7 (7.3–9.9) | 3.9 (3.4–4.6) | 4.7 (3.7–5.5) | 4.7 (3.5–5.7) | 4.0 (2.9–4.8) | 0.7 (0.5–0.9) | 0.01 (0.004–0.03) | 2.8 (2.4–3.3) | 0.2 (0.2–0.2) | 0.3 (0.2–0.4) | 2.4 (1.9–2.8) | 0.4 (0.3–0.5) | 2.6 (2.1–3.0) | 5.4 (4.4–6.2) | 0.5 (0.3–0.6) | 1.2 (0.9–1.5) | 1.4 (1.1–1.6) |
| Yamanashi | 72.0 (58.2–81.0) | 0.8 (0.6–1.0) | 22.7 (18.6–25.6) | 28.2 (23.1–32.1) | 14.9 (11.5–17.3) | 9.0 (7.5–10.3) | 4.2 (3.5–4.9) | 2.8 (2.0–3.4) | 3.7 (2.7–4.5) | 3.1 (2.2–3.8) | 0.6 (0.4–0.7) | 0.007 (0.002–0.02) | 2.2 (1.8–2.6) | 0.2 (0.1–0.2) | 0.3 (0.2–0.4) | 1.7 (1.4–2.1) | 0.3 (0.3–0.4) | 2.6 (2.0–3.0) | 6.1 (4.9–7.1) | 0.4 (0.3–0.4) | 1.1 (0.8–1.4) | 1.2 (0.9–1.4) |
| Singapore | 82.0 (70.6–92.0) | 0.6 (0.5–0.7) | 54.4 (47.4–61.0) | 12.3 (10.1–14.4) | 6.0 (4.5–7.3) | 4.9 (3.4–6.6) | 1.4 (1.0–1.7) | 6.5 (5.3–7.5) | 0.9 (0.7–1.1) | 0.7 (0.5–0.8) | 0.2 (0.2–0.3) | 0.01 (0.005–0.04) | 1.8 (1.5–2.1) | 0.5 (0.4–0.7) | 0.04 (0.02–0.05) | 1.2 (1.0–1.5) | 0.1 (0.04–0.1) | 1.4 (1.1–1.6) | 2.4 (2.1–2.9) | 0.3 (0.2–0.4) | 0.7 (0.6–0.9) | 0.5 (0.4–0.7) |
| Republic of Korea | 73.7 (59.7–84.0) | 0.5 (0.3–0.6) | 24.9 (19.7–29.2) | 32.5 (26.4–37.5) | 19.7 (15.8–23.2) | 9.3 (7.4–11.2) | 3.5 (2.7–4.1) | 5.9 (4.0–9.0) | 1.6 (0.9–2.2) | 1.3 (0.7–1.8) | 0.3 (0.1–0.5) | 0.02 (0.009–0.03) | 1.3 (1.0–1.6) | 0.1 (0.04–0.1) | 0.03 (0.01–0.1) | 1.2 (0.9–1.5) | 0.1 (0.04–0.2) | 3.3 (2.5–4.0) | 1.9 (1.5–2.2) | 0.3 (0.2–0.4) | 0.8 (0.6–1.0) | 0.8 (0.6–1.1) |
| High-income North America | 139.0 (122.4–148.2) | 0.9 (0.8–1.0) | 72.9 (64.6–78.2) | 29.0 (25.2–31.9) | 17.2 (14.3–19.0) | 8.8 (7.7–9.7) | 3.1 (2.7–3.5) | 12.5 (11.1–13.6) | 4.1 (3.4–4.6) | 3.5 (2.8–3.9) | 0.6 (0.5–0.7) | 0.01 (0.003–0.02) | 4.7 (4.1–5.3) | 0.1 (0.1–0.1) | 0.9 (0.8–1.1) | 3.7 (3.2–4.2) | 0.3 (0.2–0.3) | 5.8 (4.7–6.4) | 2.0 (1.8–2.2) | 1.7 (1.4–1.8) | 1.6 (1.4–1.8) | 3.6 (3.2–3.9) |
| Canada | 98.4 (88.2–105.6) | 1.0 (0.9–1.2) | 53.2 (47.7–56.8) | 21.7 (19.2–23.7) | 12.7 (10.7–14.1) | 6.5 (5.9–7.3) | 2.5 (2.2–2.7) | 3.4 (3.0–3.8) | 4.1 (3.4–4.6) | 3.6 (3.0–4.0) | 0.5 (0.4–0.5) | 0.004 (0.001–0.008) | 2.6 (2.3–3.0) | 0.1 (0.1–0.1) | 0.6 (0.5–0.7) | 2.0 (1.7–2.3) | 0.1 (0.1–0.2) | 4.7 (4.0–5.2) | 2.3 (2.1–2.5) | 1.5 (1.3–1.7) | 1.3 (1.1–1.4) | 2.5 (2.2–2.8) |
| Greenland | 250.7 (208.6–289.2) | 1.5 (0.9–2.2) | 108.8 (84.5–133.2) | 92.5 (73.8–114.8) | 53.1 (42.1–68.2) | 30.2 (21.6–38.7) | 9.2 (6.2–12.7) | 9.0 (5.8–13.1) | 6.2 (3.9–9.1) | 5.1 (3.2–7.6) | 1.1 (0.5–2.2) | 0.01 (0.004–0.03) | 9.3 (5.8–13.6) | 0.1 (0.03–0.2) | 0.7 (0.2–1.8) | 8.5 (5.2–12.0) | 0.3 (0.2–0.5) | 13.4 (10.0–17.0) | 2.8 (1.9–3.7) | 3.4 (2.4–5.1) | 1.3 (0.6–2.0) | 2.3 (1.4–3.3) |
| United States of America | 144.2 (126.4–154.2) | 0.9 (0.8–1.0) | 75.4 (66.7–81.2) | 29.9 (25.9–33.0) | 17.7 (14.8–19.7) | 9.0 (7.9–10.2) | 3.1 (2.7–3.6) | 13.7 (12.2–14.9) | 4.1 (3.3–4.6) | 3.4 (2.8–3.9) | 0.6 (0.5–0.7) | 0.01 (0.004–0.02) | 4.9 (4.3–5.6) | 0.1 (0.1–0.1) | 1.0 (0.8–1.2) | 3.9 (3.3–4.4) | 0.3 (0.2–0.4) | 5.9 (4.8–6.6) | 2.0 (1.8–2.2) | 1.7 (1.4–1.9) | 1.6 (1.4–1.8) | 3.7 (3.3–4.1) |
| Alabama | 188.7 (168.7–199.9) | 1.0 (0.8–1.1) | 93.9 (84.9–101.0) | 43.9 (39.0–47.8) | 25.2 (21.7–27.8) | 13.4 (11.7–15.1) | 5.3 (4.6–6.1) | 22.7 (19.9–25.4) | 4.2 (3.5–4.8) | 3.4 (2.9–3.9) | 0.8 (0.6–0.9) | 0.009 (0.004–0.02) | 5.7 (4.9–6.6) | 0.1 (0.1–0.1) | 1.3 (1.1–1.6) | 4.3 (3.6–4.9) | 0.6 (0.4–0.7) | 5.9 (4.9–6.6) | 2.2 (2.0–2.5) | 2.0 (1.7–2.3) | 2.0 (1.7–2.3) | 4.6 (4.0–5.2) |
| Alaska | 136.6 (119.2–149.3) | 1.6 (1.3–1.9) | 65.8 (57.3–72.2) | 29.5 (24.9–32.8) | 16.9 (13.7–19.1) | 9.0 (7.7–10.2) | 3.6 (3.1–4.2) | 11.0 (9.5–13.0) | 5.9 (4.7–6.9) | 5.0 (3.9–5.9) | 0.9 (0.7–1.1) | 0.02 (0.002–0.1) | 6.0 (5.0–6.9) | 0.2 (0.1–0.2) | 2.1 (1.7–2.5) | 3.7 (3.0–4.4) | 0.3 (0.2–0.4) | 6.6 (5.3–7.7) | 2.2 (1.9–2.6) | 1.6 (1.3–1.9) | 2.2 (1.9–2.6) | 3.8 (3.2–4.4) |
| Arizona | 131.9 (115.3–141.7) | 0.8 (0.7–1.0) | 68.7 (60.2–74.1) | 24.7 (21.5–27.2) | 14.9 (12.5–16.5) | 7.3 (6.4–8.3) | 2.5 (2.2–2.9) | 15.4 (13.2–17.1) | 3.4 (2.8–3.9) | 2.8 (2.2–3.2) | 0.6 (0.5–0.7) | 0.009 (0.003–0.02) | 4.0 (3.4–4.6) | 0.1 (0.1–0.1) | 0.8 (0.6–1.0) | 3.2 (2.7–3.7) | 0.3 (0.2–0.3) | 6.1 (5.0–6.9) | 1.9 (1.6–2.1) | 1.4 (1.2–1.6) | 1.7 (1.4–1.9) | 3.5 (3.1–4.0) |
| Arkansas | 195.5 (176.1–206.9) | 1.0 (0.8–1.1) | 109.4 (99.3–116.4) | 37.3 (33.2–40.3) | 20.5 (17.6–22.6) | 12.0 (10.6–13.4) | 4.7 (4.2–5.4) | 21.6 (19.1–24.0) | 3.8 (3.2–4.3) | 3.1 (2.6–3.5) | 0.6 (0.5–0.8) | 0.01 (0.003–0.02) | 4.6 (3.9–5.3) | 0.1 (0.1–0.1) | 1.0 (0.8–1.2) | 3.6 (3.0–4.1) | 0.4 (0.3–0.5) | 5.9 (4.9–6.5) | 2.5 (2.2–2.8) | 2.1 (1.8–2.4) | 2.0 (1.7–2.2) | 5.0 (4.3–5.7) |
| California | 125.9 (109.0–135.4) | 0.8 (0.7–0.9) | 64.7 (56.1–70.0) | 28.5 (24.3–31.4) | 17.3 (14.1–19.4) | 8.5 (7.4–9.4) | 2.7 (2.3–3.0) | 11.4 (9.9–12.5) | 3.3 (2.7–3.8) | 2.8 (2.2–3.2) | 0.5 (0.4–0.6) | 0.009 (0.004–0.02) | 4.5 (3.9–5.1) | 0.1 (0.1–0.1) | 1.0 (0.8–1.2) | 3.4 (2.9–3.9) | 0.2 (0.2–0.3) | 5.6 (4.5–6.1) | 1.6 (1.4–1.8) | 1.1 (1.0–1.3) | 1.1 (0.9–1.2) | 3.1 (2.7–3.4) |
| Colorado | 118.2 (102.3–127.1) | 1.3 (1.0–1.4) | 54.4 (47.4–59.0) | 27.1 (22.7–30.1) | 17.0 (13.9–19.2) | 7.2 (6.2–8.1) | 2.9 (2.5–3.3) | 10.9 (9.4–12.2) | 4.0 (3.2–4.6) | 3.3 (2.6–3.7) | 0.7 (0.6–0.8) | 0.01 (0.003–0.02) | 3.5 (2.9–4.0) | 0.1 (0.1–0.1) | 0.7 (0.5–0.8) | 2.7 (2.3–3.2) | 0.3 (0.2–0.4) | 5.6 (4.5–6.3) | 2.2 (1.9–2.5) | 1.4 (1.1–1.6) | 1.9 (1.6–2.3) | 5.6 (4.8–6.3) |
| Connecticut | 115.3 (100.0–124.6) | 0.8 (0.7–0.9) | 60.1 (52.5–65.0) | 23.5 (19.5–26.5) | 14.7 (11.8–16.6) | 6.7 (5.7–7.7) | 2.1 (1.7–2.4) | 8.3 (7.2–9.5) | 4.1 (3.3–4.7) | 3.5 (2.7–4.0) | 0.6 (0.5–0.7) | 0.007 (0.003–0.02) | 4.2 (3.5–4.9) | 0.1 (0.04–0.1) | 0.7 (0.6–0.9) | 3.4 (2.9–4.0) | 0.3 (0.2–0.3) | 6.2 (5.0–7.0) | 1.8 (1.6–2.0) | 1.5 (1.3–1.8) | 1.4 (1.2–1.6) | 3.1 (2.6–3.5) |
| Delaware | 148.1 (127.8–160.8) | 1.0 (0.8–1.2) | 73.0 (63.7–79.6) | 35.6 (30.0–39.6) | 22.9 (18.6–25.9) | 9.6 (8.1–10.

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 142.1 | 1.3 | 74.7 | 24.9 | 15.3 | 7.1 | 2.4 | 13.6 | 6.5 | 5.6 | 0.8 | 0.02 | 4.4 | 0.1 | 0.8 | 3.5 | 0.3 | 6.0 | 2.6 | 2.0 | 1.9 | 3.9 |
| | (124.2–152.6) | (1.1–1.5) | (65.3–81.0) | (21.5–27.5) | (12.7–17.1) | (6.2–8.1) | (2.1–2.8) | (11.4–15.6) | (5.2–7.3) | (4.5–6.4) | (0.7–1.0) | (0.003–0.03) | (3.7–5.1) | (0.1–0.1) | (0.6–1.0) | (2.9–4.1) | (0.2–0.3) | (4.9–6.7) | (2.3–2.9) | (1.7–2.3) | (1.6–2.2) | (3.3–4.6) |
| Maine | 140.5 | 0.8 | 69.5 | 31.7 | 19.4 | 9.3 | 2.9 | 14.1 | 3.7 | 3.1 | 0.6 | 0.01 | 6.3 | 0.1 | 1.0 | 5.2 | 0.2 | 5.4 | 1.7 | 1.8 | 1.4 | 4.1 |
| | (121.3–151.8) | (0.6–0.9) | (60.4–75.5) | (26.7–34.9) | (15.8–21.9) | (8.0–10.6) | (2.5–3.4) | (12.4–15.4) | (3.0–4.2) | (2.4–3.5) | (0.5–0.7) | (0.004–0.02) | (5.3–7.1) | (0.04–0.1) | (0.8–1.3) | (4.3–5.9) | (0.2–0.3) | (4.3–6.0) | (1.5–1.9) | (1.4–2.0) | (1.1–1.6) | (3.5–4.6) |
| | 111.6 | 0.9 | 58.0 | 22.7 | 13.1 | 7.3 | 2.3 | 6.9 | 4.9 | 4.2 | 0.7 | 0.01 | 4.1 | 0.1 | 0.6 | 3.4 | 0.3 | 5.9 | 1.6 | 1.7 | 1.4 | 3.3 |
| Massachusetts | (96.0–121.2) | (0.7–1.0) | (50.2–63.2) | (19.3–25.4) | (10.7–14.8) | (6.3–8.3) | (1.9–2.7) | (5.9–7.8) | (4.0–5.6) | (3.3–4.8) | (0.6–0.8) | (0.004–0.02) | (3.4–4.8) | (0.05–0.1) | (0.5–0.8) | (2.8–4.0) | (0.2–0.3) | (4.9–6.7) | (1.4–1.8) | (1.4–1.9) | (1.2–1.6) | (2.8–3.7) |
| | 165.4 | 0.9 | 89.4 | 31.2 | 19.3 | 8.8 | 3.1 | 18.5 | 4.1 | 3.5 | 0.5 | 0.009 | 5.4 | 0.1 | 1.2 | 4.1 | 0.3 | 5.9 | 2.3 | 1.9 | 1.8 | 3.7 |
| Michigan | (146.3–176.9) | (0.8–1.0) | (78.8–96.0) | (26.9–34.2) | (16.1–21.4) | (7.7–10.0) | (2.7–3.5) | (16.4–20.0) | (3.4–4.6) | (2.9–4.0) | (0.5–0.6) | (0.004–0.02) | (4.7–6.2) | (0.1–0.1) | (1.0–1.4) | (3.5–4.8) | (0.2–0.4) | (4.9–6.5) | (2.0–2.5) | (1.6–2.1) | (1.6–2.0) | (3.3–4.2) |
| | 113.6 | 1.3 | 53.5 | 26.2 | 15.3 | 8.1 | 2.8 | 7.3 | 5.5 | 4.7 | 0.8 | 0.02 | 4.2 | 0.1 | 0.7 | 3.5 | 0.3 | 6.1 | 2.4 | 1.6 | 1.5 | 3.8 |
| Minnesota | (98.3–122.9) | (1.0–1.4) | (46.4–58.2) | (22.3–28.9) | (12.6–17.1) | (7.0–9.2) | (2.4–3.2) | (6.1–8.4) | (4.4–6.3) | (3.8–5.3) | (0.7–1.0) | (0.003–0.03) | (3.6–4.9) | (0.1–0.1) | (0.6–0.9) | (2.9–4.0) | (0.2–0.3) | (4.9–6.9) | (2.1–2.7) | (1.3–1.8) | (1.3–1.8) | (3.3–4.3) |
| | 209.3 | 0.9 | 108.3 | 42.1 | 22.4 | 14.9 | 4.9 | 30.8 | 4.0 | 3.3 | 0.7 | 0.01 | 6.3 | 0.1 | 1.4 | 4.8 | 0.4 | 5.7 | 2.2 | 1.7 | 1.8 | 4.9 |
| Mississippi | (188.6–220.8) | (0.8–1.0) | (97.9–114.8) | (37.2–45.6) | (19.1–24.7) | (13.3–16.6) | (4.3–5.6) | (27.3–33.7) | (3.3–4.5) | (2.7–3.8) | (0.6–0.8) | (0.003–0.02) | (5.4–7.2) | (0.1–0.1) | (1.1–1.7) | (4.1–5.5) | (0.3–0.6) | (4.8–6.4) | (2.0–2.5) | (1.5–2.0) | (1.6–2.1) | (4.2–5.6) |
| | 165.0 | 1.0 | 92.2 | 31.3 | 17.2 | 10.4 | 3.7 | 13.4 | 4.7 | 3.9 | 0.7 | 0.009 | 5.5 | 0.1 | 1.1 | 4.4 | 0.4 | 6.3 | 2.4 | 2.1 | 1.7 | 4.0 |
| Missouri | (147.0–175.5) | (0.9–1.1) | (82.7–99.0) | (27.4–34.3) | (14.7–19.2) | (9.0–11.7) | (3.2–4.3) | (11.8–14.7) | (3.9–5.3) | (3.2–4.5) | (0.6–0.9) | (0.004–0.02) | (4.7–6.2) | (0.1–0.1) | (0.9–1.3) | (3.7–5.0) | (0.3–0.4) | (5.2–7.0) | (2.1–2.7) | (1.8–2.4) | (1.4–1.9) | (3.5–4.5) |
| | 139.4 | 1.8 | 77.4 | 24.6 | 14.6 | 7.3 | 2.7 | 9.0 | 5.1 | 4.2 | 0.9 | 0.01 | 4.1 | 0.1 | 0.7 | 3.4 | 0.3 | 6.4 | 2.2 | 1.8 | 2.3 | 4.2 |
| Montana | (122.2–150.5) | (1.5–2.2) | (68.5–83.6) | (21.1–27.3) | (12.1–16.3) | (6.4–8.2) | (2.3–3.1) | (7.7–10.5) | (4.1–5.9) | (3.3–4.9) | (0.7–1.0) | (0.003–0.02) | (3.4–4.8) | (0.04–0.1) | (0.5–0.9) | (2.8–3.9) | (0.3–0.4) | (5.3–7.2) | (1.9–2.5) | (1.5–2.0) | (2.0–2.8) | (3.5–4.9) |
| | 136.6 | 1.2 | 67.1 | 30.1 | 16.9 | 9.8 | 3.3 | 10.0 | 5.1 | 4.4 | 0.8 | 0.01 | 4.7 | 0.1 | 0.8 | 3.8 | 0.3 | 6.9 | 2.2 | 1.6 | 2.4 | 4.7 |
| Nebraska | (119.4–148.0) | (1.0–1.4) | (58.8–72.7) | (25.9–33.3) | (14.1–18.9) | (8.5–11.1) | (2.9–3.8) | (8.4–11.7) | (4.2–5.8) | (3.5–5.0) | (0.6–0.9) | (0.003–0.02) | (4.0–5.4) | (0.1–0.1) | (0.6–1.0) | (3.2–4.4) | (0.2–0.4) | (5.7–7.8) | (2.0–2.5) | (1.3–1.9) | (2.1–2.8) | (4.0–5.4) |
| | 158.0 | 1.0 | 81.8 | 29.0 | 16.9 | 9.0 | 3.2 | 23.9 | 3.6 | 3.0 | 0.6 | 0.01 | 5.0 | 0.1 | 1.3 | 3.7 | 0.3 | 4.8 | 1.9 | 1.6 | 1.6 | 3.5 |
| Nevada | (139.2–169.2) | (0.8–1.1) | (72.3–88.4) | (25.3–31.7) | (14.1–18.8) | (7.9–10.1) | (2.7–3.7) | (21.0–26.4) | (2.9–4.1) | (2.4–3.5) | (0.5–0.7) | (0.003–0.02) | (4.2–5.8) | (0.05–0.1) | (1.0–1.6) | (3.1–4.2) | (0.2–0.3) | (4.0–5.3) | (1.6–2.1) | (1.4–1.9) | (1.4–1.9) | (2.9–4.0) |
| | 130.8 | 1.2 | 68.4 | 26.1 | 15.7 | 8.0 | 2.4 | 9.5 | 5.6 | 4.9 | 0.7 | 0.009 | 3.8 | 0.1 | 0.8 | 3.0 | 0.3 | 6.8 | 2.0 | 1.8 | 1.6 | 3.6 |
| New Hampshire | (112.8–142.8) | (1.0–1.4) | (59.5–74.3) | (21.9–29.0) | (12.8–17.6) | (6.9–9.0) | (2.0–2.8) | (8.0–11.2) | (4.6–6.5) | (3.9–5.6) | (0.6–0.9) | (0.004–0.02) | (3.2–4.3) | (0.1–0.1) | (0.6–1.0) | (2.4–3.4) | (0.2–0.3) | (5.6–7.7) | (1.7–2.3) | (1.5–2.1) | (1.4–1.9) | (3.1–4.3) |
| | 121.9 | 0.8 | 66.4 | 24.0 | 12.8 | 8.2 | 3.0 | 8.7 | 3.9 | 3.4 | 0.6 | 0.008 | 4.6 | 0.1 | 0.9 | 3.7 | 0.2 | 5.5 | 1.6 | 1.5 | 1.6 | 3.0 |
| New Jersey | (105.4–131.7) | (0.7–0.9) | (57.2–72.0) | (20.6–26.6) | (10.5–14.5) | (7.1–9.4) | (2.5–3.4) | (7.6–9.7) | (3.2–4.5) | (2.7–3.9) | (0.4–0.6) | (0.004–0.02) | (3.9–5.2) | (0.04–0.1) | (0.7–1.0) | (3.1–4.2) | (0.2–0.3) | (4.5–6.2) | (1.4–1.8) | (1.2–1.7) | (1.3–1.8) | (2.6–3.4) |
| | 138.5 | 1.4 | 79.5 | 26.5 | 16.0 | 7.6 | 2.9 | 10.0 | 3.0 | 2.5 | 0.5 | 0.009 | 3.5 | 0.1 | 0.8 | 2.6 | 0.3 | 4.9 | 2.0 | 1.5 | 1.9 | 4.0 |
| New Mexico | (121.7–148.6) | (1.2–1.6) | (70.0–85.4) | (22.6–29.1) | (13.2–17.9) | (6.6–8.7) | (2.5–3.3) | (8.5–11.5) | (2.5–3.5) | (2.0–2.9) | (0.5–0.7) | (0.003–0.02) | (3.0–4.0) | (0.1–0.1) | (0.7–1.1) | (2.2–3.0) | (0.2–0.4) | (4.0–5.5) | (1.7–2.2) | (1.2–1.7) | (1.6–2.2) | (3.4–4.7) |
| | 129.1 | 0.7 | 79.2 | 17.9 | 9.5 | 6.2 | 2.2 | 12.7 | 2.9 | 2.5 | 0.4 | 0.009 | 3.0 | 0.1 | 0.5 | 2.4 | 0.2 | 5.4 | 1.5 | 1.2 | 1.6 | 3.0 |
| New York | (110.9–140.1) | (0.6–0.8) | (67.7–86.3) | (15.2–19.9) | (7.7–10.9) | (5.3–7.1) | (1.9–2.5) | (10.8–14.0) | (2.3–3.4) | (2.0–2.9) | (0.3–0.5) | (0.004–0.02) | (2.6–3.5) | (0.1–0.1) | (0.4–0.7) | (2.1–2.8) | (0.2–0.3) | (4.3–6.1) | (1.3–1.7) | (1.0–1.3) | (1.3–1.7) | (2.6–3.4) |
| | 151.5 | 0.9 | 76.7 | 35.7 | 21.6 | 10.4 | 3.7 | 11.1 | 4.5 | 3.8 | 0.7 | 0.01 | 6.0 | 0.1 | 1.2 | 4.8 | 0.3 | 5.8 | 2.0 | 2.1 | 1.7 | 4.6 |
| North Carolina | (133.1–163.7) | (0.8–1.0) | (67.8–82.8) | (30.3–39.6) | (17.7–24.4) | (9.0–11.8) | (3.2–4.2) | (9.5–12.4) | (3.6–5.1) | (3.0–4.3) | (0.6–0.8) | (0.004–0.02) | (5.2–6.8) | (0.1–0.1) | (0.9–1.4) | (4.0–5.5) | (0.3–0.4) | (4.7–6.5) | (1.8–2.3) | (1.8–2.4) | (1.5–2.0) | (3.9–5.2) |
| | 130.7 | 1.2 | 70.2 | 26.8 | 14.2 | 9.2 | 3.4 | 9.5 | 3.9 | 3.3 | 0.6 | 0.02 | 3.7 | 0.1 | 0.8 | 2.8 | 0.2 | 5.9 | 2.2 | 1.4 | 1.8 | 3.9 |
| North Dakota | (113.7–142.1) | (1.0–1.4) | (62.2–76.6) | (22.7–29.8) | (11.5–16.1) | (8.0–10.3) | (2.9–3.9) | (8.0–11.1) | (3.1–4.6) | (2.6–3.9) | (0.5–0.7) | (0.003–0.04) | (3.2–4.4) | (0.1–0.1) | (0.7–1.1) | (2.3–3.3) | (0.2–0.3) | (4.7–6.7) | (1.9–2.5) | (1.2–1.7) | (1.5–2.2) | (3.3–4.6) |
| | 163.8 | 1.0 | 86.3 | 35.1 | 21.5 | 10.1 | 3.6 | 13.9 | 4.6 | 3.9 | 0.6 | 0.01 | 6.0 | 0.1 | 1.1 | 4.8 | 0.3 | 6.1 | 2.4 | 2.1 | 1.9 | 4.0 |
| Ohio | (143.7–174.2) | (0.8–1.1) | (76.3–92.6) | (30.5–38.4) | (17.9–24.0) | (8.7–11.3) | (3.1–4.1) | (12.1–15.2) | (3.8–5.2) | (3.2–4.5) | (0.5–0.7) | (0.004–0.02) | (5.3–6.9) | (0.1–0.1) | (0.9–1.3) | (4.2–5.5) | (0.3–0.4) | (5.0–6.7) | (2.1–2.6) | (1.8–2.4) | (1.7–2.2) | (3.5–4.5) |
| | 195.3 | 0.8 | 88.3 | 31.8 | 17.4 | 10.3 | 4.1 | 50.6 | 3.3 | 2.6 | 0.7 | 0.01 | 4.2 | 0.1 | 0.8 | 3.3 | 0.3 | 6.3 | 2.4 | 1.6 | 1.9 | 3.7 |
| Oklahoma | (175.8–207.5) | (0.7–1.0) | (79.3–93.9) | (28.4–34.7) | (14.9–19.2) | (9.2–11.6) | (3.6–4.7) | (46.0–54.0) | (2.8–3.7) | (2.2–2.9) | (0.6–0.8) | (0.003–0.02) | (3.6–4.8) | (0.1–0.1) | (0.6–1.0) | (2.8–3.8) | (0.3–0.4) | (5.3–7.0) | (2.2–2.7) | (1.3–1.8) | (1.6–2.2) | (3.2–4.3) |
| | 134.1 | 1.5 | 57.6 | 35.0 | 21.8 | 9.9 | 3.2 | 9.1 | 7.8 | 6.8 | 1.0 | 0.01 | 4.6 | 0.1 | 1.0 | 3.5 | 0.3 | 7.6 | 2.3 | 1.7 | 1.9 | 4.5 |
| Oregon | (117.5–144.1) | (1.3–1.7) | (50.4–62.5) | (30.1–38.6) | (18.2–24.3) | (8.7–11.2) | (2.8–3.7) | (7.9–10.4) | (6.4–8.9) | (5.6–7.8) | (0.8–1.2) | (0.004–0.03) | (3.9–5.3) | (0.1–0.1) | (0.8–1.2) | (2.9–4.1) | (0.2–0.4) | (6.3–8.5) | (2.0–2.6) | (1.4–2.0) | (1.7–2.2) | (3.8–5.1) |
| | 141.1 | 1.0 | 75.7 | 27.4 | 16.0 | 8.6 | 2.9 | 9.5 | 5.4 | 4.7 | 0.7 | 0.009 | 5.9 | 0.1 | 1.0 | 4.2 | 0.3 | 6.4 | 2.2 | 1.9 | 1.9 | 3.7 |
| Pennsylvania | (121.6–152.8) | (0.8–1.1) | (65.2–82.4) | (23.0–30.6) | (12.9–18.1) | (7.3–9.8) | (2.4–3.3) | (8.2–10.5) | (4.2–6.2) | (3.6–5.4) | (0.6–0.8) | (0.004–0.02) | (5.0–6.7) | (0.04–0.1) | (0.8–1.2) | (3.6–4.6) | (0.2–0.4) | (5.1–7.1) | (1.9–2.4) | (1.5–2.1) | (1.6–2.1) | (3.1–4.1) |
| | 129.6 | 0.9 | 77.1 | 22.8 | 13.4 | 7.1 | 2.3 | 8.4 | 4.1 | 3.5 | 0.6 | 0.01 | 3.1 | 0.1 | 0.5 | 2.5 | 0.2 | 5.6 | 1.8 | 1.5 | 1.1 | 2.9 |
| Rhode Island | (110.2–141.4) | (0.7–1.0) | (66.3–85.2) | (18.9–25.5) | (10.9–15.4) | (6.0–8.2) | (1.9–2.7) | (7.0–9.9) | (3.3–4.9) | (2.7–4.1) | (0.5–0.7) | (0.003–0.02) | (2.6–3.6) | (0.1–0.1) | (0.4–0.7) | (2.1–2.9) | (0.2–0.3) | (4.5–6.4) | (1.5–2.0) | (1.3–1.8) | (0.9–1.3) | (2.4–3.5) |
| | 158.6 | 0.9 | 77.0 | 36.4 | 21.1 | 11.0 | 4.3 | 16.3 | 4.5 | 3.7 | 0.8 | 0.01 | 5.8 | 0.1 | 1.2 | 4.4 | 0.3 | 6.2 | 2.3 | 2.2 | 1.7 | 4.9 |
| South Carolina | (140.7–169.9) | (0.8–1.0) | (68.5–83.2) | (31.3–39.8) | (17.6–23.5) | (9.5–12.6) | (3.7–5.0) | (14.3–18.3) | (3.7–5.1) | (3.0–4.2) | (0.6–0.9) | (0.003–0.02) | (5.0–6.6) | (0.1–0.1) | (1.0–1.5) | (3.8–5.1) | (0.3–0.4) | (5.1–6.9) | (2.0–2.6) | (1.8–2.5) | (1.5–2.0) | (4.2–5.7) |
| | 134.7 | 1.0 | 76.1 | 25.2 | 14.0 | 8.2 | 2.9 | 9.2 | 4.1 | 3.3 | 0.7 | 0.009 | 3.8 | 0.1 | 0.7 | 3.0 | 0.2 | 5.7 | 2.3 | 1.7 | 1.6 | 3.8 |
| South Dakota | (117.6–146.9) | (0.8–1.2) | (67.2–83.2) | (21.5–27.9) | (11.4–15.8) | (7.2–9.2) | (2.5–3.4) | (7.7–10.8) | (3.2–4.8) | (2.6–3.9) | (0.6–0.9) | (0.003–0.02) | (3.2–4.4) | (0.1–0.1) | (0.6–0.9) | (2.5–3.5) | (0.2–0.3) | (4.6–6.4) | (1.9–2.6) | (1.4–2.0) | (1.4–1.9) | (3.2–4.5) |
| | 186.3 | 1.0 | 102.2 | 35.7 | 19.9 | 11.4 | 4.3 | 21.9 | 3.9 | 3.2 | 0.7 | 0.01 | 5.1 | 0.1 | 1.3 | 3.7 | 0.3 | 5.8 | 2.2 | 2.1 | 1.8 | 4.3 |
| Tennessee | (166.7–197.3) | (0.9–1.2) | (91.9–108.8) | (31.5–38.8) | (16.9–22.0) | (10.1–12.9) | (3.8–4.9) | (19.3–23.9) | (3.2–4.4) | (2.7–3.6) | (0.5–0.8) | (0.004–0.02) | (4.4–5.8) | (0.1–0.1) | (1.0–1.5) | (3.2–4.3) | (0.2–0.4) | (4.9–6.4) | (1.9–2.5) | (1.8–2.4) | (1.6–2.0) | (3.8–4.8) |
| | 154.1 | 0.8 | 81.5 | 33.5 | 19.6 | 10.3 | 3.6 | 15.7 | 3.5 | 2.9 | 0.6 | 0.01 | 4.3 | 0.1 | 0.8 | 3.4 | 0.3 | 6.0 | 1.8 | 1.8 | 1.4 | 3.6 |
| Texas | (137.0–164.3) | (0.7–0.9) | (72.3–87.7) | (29.2–36.3) | (16.6–21.6) | (9.1–11.5) | (3.1–4.1) | (13.9–17.0) | (2.9–4.0) | (2.4–3.4) | (0.5–0.6) | (0.003–0.02) | (3.7–4.8) | (0.1–0.1) | (0.6–0.9) | (3.0–3.9) | (0.2–0.4) | (4.9–6.6) | (1.7–2.0) | (1.5–2.0) | (1.2–1.5) | (3.2–4.0) |
| | 134.7 | 1.7 | 74.3 | 28.9 | 15.5 | 7.7 | 2.8 | 11.6 | 5.0 | 4.2 | 0.8 | 0.02 | 4.7 | 0.1 | 0.7 | 3.9 | 0.4 | 6.5 | 2.0 | 1.5 | 2.3 | 4.8 |
| Utah | (117.7–145.1) | (1.4–2.0) | (56.6–70.7) | (24.9–31.6) | (15.5–20.4) | (6.8–8.7) | (2.4–3.2) | (9.8–13.5) | (4.1–5.7) | (3.4–4.9) | (0.6–0.9) | (0.003–0.02) | (3.9–5.3) | (0.04–0.1) | (0.5–0.9) | (3.2–4.5) | (0.3–0.5) | (5.5–7.3) | (1.7–2.2) | (1.2–1.7) | (1.9–2.7) | (4.0–5.6) |
| | 137.2 | 1.3 | 74.3 | 23.4 | 14.7 | 6.4 | 2.4 | 13.0 | 6.3 | 5.3 | 1.0 | 0.02 | 3.7 | 0.1 | 0.9 | 2.7 | 0.3 | 5.9 | 2.2 | 1.6 | 1.3 | 3.8 |
| Vermont | (119.4–148.5) | (1.1–1.6) | (64.7–80.4) | (19.5–26.4) | (12.1–16.7) | (5.5–7.3) | (2.0–2.8) | (10.8–15.2) | (5.1–7.4) | (4.3–6.3) | (0.8–1.2) | (0.003–0.03) | (3.1–4.4) | (0.1–0.1) | (0.7–1.2) | (2.3–3.2) | (0.2–0.4) | (4.9–6.7) | (1.9–2.5) | (1.3–1.8) | (1.1–1.6) | (3.1–4.6) |
| | 138.7 | 0.8 | 72.1 | 31.3 | 19.0 | 9.1 | 3.1 | 9.3 | 4.3 | 3.6 | 0.7 | 0.01 | 5.8 | 0.1 | 1.0 | 4.7 | 0.3 | 5.6 | 1.8 | 1.9 | 1.5 | 4.0 |
| Virginia | (120.6–149.8) | (0.7–1.0) | (63.3–78.6) | (26.0–34.8) | (15.4–21.5) | (7.7–10.5) | (2.6–3.6) | (8.0–10.6) | (3.4–4.8) | (2.8–4.1) | (0.6–0.8) | (0.004–0.02) | (4.9–6.6) | (0.05–0.1) | (0.8–1.3) | (3.9–5.4) | (0.2–0.4) | (4.5–6.3) | (1.6–2.1) | (1.5–2.1) | (1.3–1.7) | (3.3–4.5) |
| | 130.8 | 1.4 | 64.3 | 27.6 | 16.3 | 8.5 | 2.8 | 11.3 | 6.0 | 5.0 | 0.9 | 0.01 | 4.7 | 0.1 | 1.1 | 3.5 | 0.2 | 5.8 | 2.0 | 1.6 | 2.0 | 3.9 |
| Washington | (113.9–140.4) | (1.1–1.6) | (56.4–69.1) | (23.7–30.2) | (13.5–18.2) | (7.3–9.6) | (2.4–3.2) | (9.6–12.6) | (4.9–6.7) | (4.0–5.7) | (0.8–1.1) | (0.004–0.02) | (4.0–5.4) | (0.1–0.1) | (0.9–1.3) | (2.9–4.0) | (0.2–0.3) | (4.8–6.4) | (1.8–2.3) | (1.3–1.8) | (1.8–2.3) | (3.4–4.4) |
| | 150.0 | 0.8 | 73.8 | 26.2 | 14.8 | 8.6 | 2.9 | 27.8 | 2.9 | 2.4 | 0.5 | 0.007 | 5.0 | 0.1 | 1.1 | 3.8 | 0.3 | 4.0 | 1.5 | 1.8 | 1.4 | 4.5 |
| District of Columbia | (132.4–163.0) | (0.7–0.9) | (65.4–79.7) | (22.6–28.9) | (12.3–16.5) | (7.4–9.4) | (2.5–3.3) | (24.4–31.7) | (2.4–3.4) | (1.9–2.8) | (0.4–0.7) | (0.003–0.02) | (4.2–5.7) | (0.1–0.1) | (0.9–1.4) | (3.1–4.4) | (0.2–0.4) | (3.3–4.6) | (1.3–1.7) | (1.5–2.1) | (1.2–1.6) | (3.9–5.3) |
| | 181.4 | 1.1 | 103.6 | 33.0 | 18.6 | 10.4 | 4.0 | 15.6 | 4.4 | 3.7 | 0.7 | 0.01 | 5.6 | 0.1 | 1.2 | 4.2 | 0.3 | 6.8 | 2.3 | 2.3 | 1.9 | 4.5 |
| West Virginia | (164.5–193.1) | (1.0–1.3) | (93.6–111.0) | (29.2–36.1) | (15.8–21.6) | (9.2–11.7) | (3.5–4.6) | (13.7–17.6) | (3.7–4.9) | (3.1–4.1) | (0.6–0.9) | (0.003–0.02) | (4.8–6.3) | (0.1–0.2) | (0.9–1.5) | (3.6–4.9) | (0.3–0.4) | (5.8–7.6) | (2.1–2.6) | (2.0–2.6) | (1.6–2.2) | (3.9–5.2) |
| | 138.0 | 1.1 | 71.8 | 26.8 | 16.2 | 8.0 | 2.8 | 10.4 | 5.8 | 4.9 | 0.8 | 0.01 | 5.4 | 0.1 | 1.0 | 4.3 | 0.3 | 5.9 | 2.4 | 1.9 | 2.0 | 4.2 |
| Wisconsin | (120.9–148.0) | (0.9–1.3) | (63.2–77.4) | (22.9–29.6) | (13.4–18.0) | (6.9–8.9) | (2.3–3.0) | (9.0–11.6) | (4.7–6.6) | (4.0–5.7) | (0.7–1.0) | (0.004–0.02) | (4.6–6.2) | (0.1–0.1) | (0.8–1.3) | (3.6–5.0) | (0.2–0.3) | (4.8–6.6) | (2.1–2.7) | (1.6–2.2) | (1.7–2.3) | (3.7–4.8) |
| | 135.5 | 1.6 | 68.6 | 26.5 | 15.6 | 7.8 | 3.1 | 12.6 | 5.4 | 4.5 | 0.9 | 0.01 | 4.1 | 0.1 | 0.8 | 3.2 | 0.4 | 6.7 | 2.5 | 1.7 | 2.3 | 5.1 |
| Wyoming | (116.4–147.5) | (1.3–1.8) | (59.6–74.3) | (22.3–29.6) | (12.7–17.7) | (6.7–8.8) | (2.7–3.6) | (8.9–12.5) | (4.3–6.3) | (3.5–5.3) | (0.7–1.1) | (0.003–0.03) | (3.5–4.8) | (0.1–0.1) | (0.6–1.0) | (2.7–3.8) | (0.3–0.5) | (5.4–7.6) | (2.2–2.9) | (1.4–2.0) | (1.9–2.7) | (4.3–6.0) |
| Southern Latin America | 142.7 | 1.3 | 57.3 | 38.0 | 19.5 | 14.5 | 4.1 | 14.5 | 3.4 | 3.1 | 0.3 | 0.009 | 9.7 | 0.1 | 0.2 | 9.4 | 0.2 | 3.6 | 2.4 | 0.6 | 1.7 | 10.0 |
| | (130.7–150.9) | (1.1–1.5) | (52.2–61.8) | (35.0–40.5) | (17.2–21.3) | (13.1–15.8) | (3.6–4.5) | (12.7–16.3) | (3.0–3.9) | (2.7–3.5) | (0.3–0.4) | (0.004–0.02) | (8.3–10.9) | (0.05–0.1) | (0.1–0.2) | (8.1–10.6) | (0.1–0.2) | (3.2–4.0) | (2.2–2.6) | (0.5–0.7) | (1.5–1.9) | (8.8–11.0) |
| Argentina | 160.8 | 1.6 | 65.6 | 37.9 | 18.1 | 15.9 | 3.9 | 16.1 | 3.9 | 3.6 | 0.3 | 0.008 | 13.4 | 0.1 | 0.1 | 13.2 | 0.2 | 3.5 | 2.5 | 0.5 | 2.0 | 13.7 |
| | (147.8–171.0) | (1.4–1.9) | (59.3–71.5) | (34.5–41.1) | (15.9–20.0) | (14.2–17.6) | (3.4–4.4) | (13.8–18.5) | (3.4–4.4) | (3.1–4.1) | (0.2–0.3) | (0.004–0.02) | (11.5–15.1) | (0.1–0.1) | (0.1–0.2) | (11.3–14.8) | (0.1–0.2) | (3.1–3.9) | (2.2–2.7) | (0.5–0.6) | (1.8–2.2) | (12.0–15.2) |
| | 100.2 | 0.7 | 38.2 | 35.5 | 20.3 | 11.3 | 3.9 | 11.8 | 1.5 | 1.2 | 0.3 | 0.01 | 2.2 | 0.03 | 0.1 | 2.1 | 0.1 | 3.9 | 1.9 | 0.8 | 0.8 | 2.7 |
| Chile | (90.1–106.4) | (0.6–0.8) | (35.0–40.5) | (31.4–38.0) | (17.3–22.4) | (10.2–12.5) | (3.5–4.3) | (10.1–13.0) | (1.3–1.7) | (1.0–1.3) | (0.3–0.4) | (0.005–0.03) | (2.0–2.5) | (0.02–0.04) | (0.1–0.2) | (1.8–2.4) | (0.1–0.1) | (3.3–4.2) | (1.7–2.1) | (0.7–0.9) | (0.7–0.8) | (2.4–3.0) |
| | 147.5 | 0.6 | 56.7 | 52.4 | 31.4 | 14.4 | 6.7 | 10.9 | 6.9 | 6.3 | 0.6 | 0.01 | 4.5 | 0.1 | 0.7 | 3.7 | 0.1 | 3.7 | 3.9 | 0.1 | 3.1 | 4.6 |
| Uruguay | (135.2–156.5) | (0.5–0.7) | (51.8–61.5) | (47.8–57.0) | (27.7–34.6) | (12.6–16.3) | (5.8–7.5) | (9.1–12.4) | (6.0–7.8) | (5.4–7.2) | (0.5–0.7) | (0.004–0.03) | (3.9–5.2) | (0.04–0.1) | (0.6–0.9) | (3.2–4.2) | (0.1–0.1) | (3.3–4.1) | (3.4–4.4) | (0.1–0.1) | (2.7–3.5) | (4.0–5.2) |
| | 110.0 | 1.6 | 48.9 | 27.3 | 16.7 | 8.3 | 2.3 | 8.3 | 5.1 | 4.3 | 0.8 | 0.03 | 3.4 | 0.1 | 0.5 | 2.8 | 0.2 | 6.2 | 2.8 | 1.5 | 1.8 | 3.0 |
| Western Europe | (95.4–117.9) | (1.3–1.7) | (42.9–52.3) | (23.6–29.6) | (14.0–18.4) | (7.3–8.9) | (2.1–2.5) | (6.7–9.4) | (4.3–5.6) | (3.6–4.8) | (0.7–0.9) | (0.01–0.1) | (3.0–3.7) | (0.1–0.1) | (0.4–0.5) | (2.4–3.1) | (0.1–0.2) | (5.0–6.8) | (2.5–3.0) | (1.3–1.6) | (1.5–2.0) | (2.6–3.2) |
| | 79.7 | 0.7 | 35.2 | 18.3 | 11.1 | 5.4 | 1.9 | 7.4 | 1.9 | 1.6 | 0.3 | 0.006 | 3.8 | 0.3 | 0.6 | 2.9 | 0.2 | 4.5 | 3.8 | 1.3 | 1.1 | 1.4 |
| Andorra | (64.2–94.7) | (0.4–1.0) | (27.3–44.8) | (13.9–24.9) | (8.2–14.7) | (4.0–7.5) | (1.2–2.8) | (4.8–10.5) | (1.2–2.9) | (1.0–2.4) | (0.2–0.7) | (0.002–0.01) | (2.4–5.4) | (0.1–0.5) | (0.3–1.4) | (1.9–4.2) | (0.1–0.3) | (3.1–5.7) | (2.5–5.5) | (0.8–1.9) | (0.7–1.7) | (1.0–2.0) |
| | 138.9 | 2.0 | 71.8 | 22.9 | 14.1 | 6.4 | 2.4 | 13.6 | 6.2 | 5.0 | 1.0 | 0.2 | 7.5 | 0.1 | 0.7 | 6.7 | 0.1 | 8.0 | 2.0 | 1.8 | 0.8 | 2.3 |
| Austria | (121.8–147.9) | (1.7–2.3) | (63.1–76.5) | (19.9–25.0) | (11.9–15.4) | (5.7–7.0) | (2.2–2.6) | (11.6–15.2) | (5.3–6.8) | (4.2–5.5) | (0.9–1.1) | (0.1–0.3) | (6.5–8.4) | (0.04–0.1) | (0.6–0.9) | (5.7–7.5) | (0.1–0.1) | (6.8–8.7) | (1.8–2.2) | (1.6–2.0) | (0.7–0.9) | (2.0–2.6) |
| | 91.9 | 1.4 | 38.3 | 25.4 | 14.7 | 8.6 | 2.1 | 2.5 | 6.6 | 5.8 | 0.8 | 0.02 | 3.3 | 0.1 | 0.4 | 2.8 | 0.2 | 5.0 | 2.4 | 0.8 | 2.7 | 3.1 |
| Belgium | (79.0–99.0) | (1.2–1.7) | (33.4–41.5) | (21.8–28.0) | (12.4–16.6) | (7.3–9.6) | (1.8–2.4) | (2.0–2.9) | (5.3–7.7) | (4.6–6.7) | (0.6–1.0) | (0.008–0.05) | (2.8–3.8) | (0.1–0.1) | (0.3–0.5) | (2.3–3.3) | (0.1–0.2) | (4.1–5.6) | (2.2–2.7) | (0.6–0.9) | (2.2–3.1) | (2.6–3.6) |
| | 155.6 | 2.5 | 69.0 | 38.0 | 24.5 | 10.8 | 2.7 | 14.3 | 9.7 | 8.6 | 1.1 | 0.001 | 3.2 | 0.02 | 0.2 | 2.9 | 0.7 | 8.4 | 3.9 | 1.4 | 1.8 | 2.7 |
| Cyprus | (133.5–176.3) | (1.7–3.4) | (59.4–81.1) | (31.0–47.0) | (19.7–30.5) | (8.2–14.2) | (1.8–3.7) | (10.0–18.8) | (6.4–13.1) | (5.4–11.7) | (0.6–2.3) | (0.0006–0.002) | (2.2–4.5) | (0.008–0.03) | (0.1–0.6) | (2.0–4.2) | (0.2–1.1) | (6.5–10.6) | (2.8–5.1) | (1.0–2.2) | (1.2–2.6) | (1.9–3.7) |
| | 95.3 | 1.5 | 40.4 | 30.5 | 18.3 | 9.4 | 2.8 | 2.8 | 4.2 | 3.5 | 0.6 | 0.004 | 1.4 | 0.1 | 0.3 | 0.9 | 0.2 | 5.8 | 4.9 | 1.4 | 1.2 | 1.2 |
| Denmark | (84.6–102.5) | (1.2–1.7) | (36.1–44.0) | (26.5–34.4) | (15.5–20.2) | (8.3–10.6) | (2.5–3.1) | (2.3–3.2) | (3.5–4.7) | (2.9–3.9) | (0.5–0.8) | (0.002–0.01) | (1.2–1.6) | (0.1–0.2) | (0.2–0.4) | (0.7–1.0) | (0.1–0.2) | (4.9–6.5) | (4.3–5.5) | (1.2–1.6) | (1.1–1.4) | (1.0–1.4) |
| | 156.5 | 0.6 | 77.7 | 32.4 | 21.0 | 8.1 | 

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Innlandet | 100.0 (84.9–108.5) | 0.6 (0.5–0.7) | 41.9 (36.0–46.0) | 29.1 (24.8–31.9) | 17.7 (14.9–19.7) | 8.2 (7.1–9.4) | 3.2 (2.7–3.6) | 3.1 (2.5–3.6) | 6.9 (5.6–8.2) | 6.1 (4.9–7.2) | 0.8 (0.6–1.0) | 0.008 (0.002–0.02) | 2.0 (1.6–2.3) | 0.1 (0.1–0.1) | 0.2 (0.1–0.2) | 1.7 (1.4–2.0) | 0.1 (0.1–0.2) | 7.5 (6.0–8.3) | 4.7 (4.0–5.3) | 1.1 (0.8–1.2) | 1.0 (0.8–1.1) | 2.0 (1.6–2.3) |
| Møre og Romsdal | 96.4 (82.1–105.3) | 0.7 (0.6–0.9) | 44.6 (38.1–48.7) | 23.7 (20.0–26.2) | 14.2 (11.7–16.0) | 7.1 (6.1–8.1) | 2.4 (2.0–2.7) | 2.9 (2.2–3.4) | 8.1 (6.5–9.6) | 7.4 (5.9–8.8) | 0.7 (0.5–0.9) | 0.01 (0.002–0.03) | 2.0 (1.6–2.3) | 0.1 (0.1–0.1) | 0.1 (0.1–0.1) | 1.8 (1.5–2.1) | 0.1 (0.1–0.1) | 6.6 (5.3–7.4) | 4.4 (3.7–5.0) | 0.9 (0.7–1.0) | 0.9 (0.7–1.0) | 1.5 (1.3–1.8) |
| Nordland | 101.6 (86.7–110.1) | 0.7 (0.6–0.8) | 47.5 (40.9–52.0) | 24.6 (20.9–27.1) | 15.1 (12.5–16.9) | 6.6 (5.7–7.5) | 2.9 (2.6–3.3) | 2.9 (2.3–3.4) | 7.6 (6.1–9.1) | 7.0 (5.7–8.3) | 0.6 (0.5–0.7) | 0.005 (0.002–0.01) | 1.9 (1.5–2.1) | 0.1 (0.1–0.1) | 0.2 (0.1–0.2) | 1.6 (1.4–1.9) | 0.1 (0.1–0.2) | 6.7 (5.5–7.5) | 5.6 (4.7–6.4) | 1.2 (1.0–1.4) | 1.0 (0.8–1.2) | 1.8 (1.5–2.2) |
| Oslo | 78.6 (65.5–86.9) | 0.6 (0.5–0.7) | 34.0 (28.7–37.7) | 19.6 (16.1–22.1) | 11.6 (9.3–13.2) | 5.8 (4.9–6.6) | 2.2 (1.9–2.5) | 2.5 (1.9–3.0) | 5.6 (4.4–6.8) | 5.1 (3.9–6.1) | 0.5 (0.4–0.7) | 0.009 (0.002–0.02) | 1.7 (1.4–2.0) | 0.1 (0.1–0.1) | 0.2 (0.1–0.2) | 1.5 (1.2–1.7) | 0.1 (0.05–0.1) | 6.0 (4.6–6.9) | 4.5 (3.8–5.1) | 1.0 (0.8–1.2) | 1.0 (0.8–1.2) | 1.9 (1.5–2.2) |
| Rogaland | 91.5 (77.9–99.8) | 0.8 (0.6–0.9) | 41.7 (35.9–45.9) | 21.6 (18.1–24.2) | 13.1 (10.5–14.9) | 6.2 (5.3–7.1) | 2.4 (2.1–2.7) | 2.3 (1.8–2.7) | 8.8 (7.0–10.4) | 8.1 (6.5–9.6) | 0.7 (0.5–0.8) | 0.008 (0.002–0.01) | 1.8 (1.5–2.1) | 0.1 (0.1–0.1) | 0.1 (0.1–0.2) | 1.6 (1.3–1.9) | 0.1 (0.1–0.1) | 6.3 (5.1–7.2) | 4.3 (3.7–4.9) | 1.0 (0.8–1.1) | 1.1 (0.9–1.3) | 1.6 (1.3–1.9) |
| Troms og Finnmark | 107.9 (93.3–117.6) | 0.8 (0.6–0.9) | 48.3 (41.8–52.4) | 28.0 (24.1–30.7) | 16.7 (13.8–18.7) | 7.9 (6.9–8.9) | 3.3 (2.9–3.8) | 3.0 (2.4–3.6) | 8.3 (6.8–9.8) | 7.6 (6.2–9.0) | 0.7 (0.5–0.9) | 0.01 (0.002–0.02) | 2.3 (1.9–2.7) | 0.2 (0.1–0.2) | 0.2 (0.1–0.3) | 2.0 (1.6–2.3) | 0.1 (0.1–0.2) | 6.9 (5.6–7.9) | 6.0 (5.1–6.9) | 1.2 (1.0–1.4) | 1.2 (1.0–1.4) | 1.7 (1.4–1.9) |
| Trøndelag | 102.1 (87.9–111.3) | 0.6 (0.5–0.7) | 46.0 (39.9–50.7) | 25.9 (22.5–28.6) | 15.9 (13.3–17.8) | 7.3 (6.3–8.3) | 2.8 (2.4–3.1) | 2.7 (2.1–3.2) | 8.0 (6.4–9.4) | 7.3 (5.8–8.6) | 0.7 (0.5–0.8) | 0.007 (0.002–0.01) | 2.4 (2.0–2.7) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 2.2 (1.8–2.5) | 0.1 (0.1–0.1) | 6.8 (5.6–7.7) | 5.7 (4.8–6.5) | 1.3 (1.0–1.4) | 1.0 (0.9–1.2) | 1.7 (1.4–2.0) |
| Vestfold og Telemark | 94.6 (81.2–102.6) | 0.6 (0.5–0.8) | 43.0 (37.1–46.9) | 23.3 (19.8–25.6) | 14.0 (11.5–15.8) | 6.8 (5.9–7.7) | 2.6 (2.2–2.9) | 2.9 (2.3–3.4) | 6.6 (5.3–7.8) | 6.0 (4.7–7.0) | 0.7 (0.5–0.8) | 0.007 (0.002–0.01) | 2.3 (1.9–2.7) | 0.1 (0.1–0.1) | 0.2 (0.1–0.3) | 2.1 (1.7–2.4) | 0.1 (0.1–0.1) | 6.9 (5.6–7.7) | 4.9 (4.1–5.5) | 1.2 (1.0–1.4) | 1.1 (0.9–1.3) | 1.7 (1.4–2.0) |
| Vestland | 92.2 (77.5–101.0) | 0.7 (0.6–0.8) | 42.8 (36.6–47.2) | 21.7 (18.1–24.0) | 12.8 (10.3–14.5) | 6.4 (5.5–7.3) | 2.4 (2.1–2.8) | 2.5 (1.9–2.9) | 8.3 (6.6–9.7) | 7.5 (6.0–8.8) | 0.8 (0.6–1.0) | 0.009 (0.002–0.02) | 1.9 (1.6–2.2) | 0.1 (0.1–0.1) | 0.1 (0.1–0.2) | 1.7 (1.4–2.0) | 0.1 (0.1–0.1) | 6.8 (5.4–7.7) | 3.7 (3.1–4.2) | 0.9 (0.7–1.1) | 1.1 (0.9–1.3) | 1.7 (1.4–2.0) |
| Viken | 86.5 (74.0–93.7) | 0.6 (0.5–0.7) | 39.8 (34.0–43.7) | 21.7 (18.3–23.8) | 13.1 (10.7–14.8) | 6.1 (5.2–6.9) | 2.5 (2.2–2.8) | 2.8 (2.2–3.3) | 5.6 (4.4–6.4) | 5.0 (4.0–5.7) | 0.5 (0.4–0.7) | 0.009 (0.002–0.02) | 1.8 (1.5–2.1) | 0.1 (0.1–0.1) | 0.1 (0.1–0.2) | 1.6 (1.3–1.8) | 0.1 (0.1–0.1) | 6.1 (5.0–7.0) | 4.3 (3.7–4.9) | 1.0 (0.8–1.1) | 1.1 (0.9–1.3) | 1.7 (1.4–1.9) |
| Portugal | 103.0 (89.6–110.9) | 1.2 (1.0–1.4) | 35.6 (31.7–39.0) | 41.4 (35.6–45.4) | 27.0 (22.5–30.0) | 11.7 (10.1–13.0) | 2.7 (2.3–3.1) | 6.8 (5.5–8.0) | 4.1 (3.5–4.6) | 3.6 (3.0–4.0) | 0.5 (0.4–0.6) | 0.03 (0.02–0.1) | 2.4 (2.0–2.7) | 0.05 (0.04–0.1) | 0.3 (0.2–0.3) | 2.1 (1.8–2.4) | 0.2 (0.2–0.2) | 4.4 (3.6–4.9) | 1.5 (1.3–1.7) | 2.1 (1.8–2.4) | 1.6 (1.3–1.9) | 1.5 (1.3–1.8) |
| San Marino | 81.6 (63.6–96.5) | 1.0 (0.6–1.4) | 25.6 (19.4–32.9) | 24.5 (18.1–32.5) | 17.2 (12.6–23.5) | 6.4 (4.4–9.3) | 0.9 (0.6–1.3) | 10.0 (6.6–14.3) | 2.4 (1.5–3.6) | 2.0 (1.2–2.9) | 0.4 (0.2–0.8) | 0.1 (0.02–0.1) | 4.8 (3.3–6.8) | 0.4 (0.2–0.6) | 0.4 (0.2–1.0) | 4.0 (2.7–5.8) | 0.1 (0.04–0.2) | 4.6 (3.2–6.2) | 2.1 (1.4–3.1) | 0.9 (0.5–1.4) | 1.2 (0.8–1.8) | 4.4 (3.1–6.1) |
| Spain | 88.8 (76.5–95.7) | 1.8 (1.5–2.1) | 33.8 (29.7–36.4) | 23.9 (20.3–26.2) | 13.3 (11.0–14.9) | 8.2 (7.0–9.0) | 2.4 (2.1–2.7) | 6.7 (5.2–7.7) | 5.0 (4.1–5.6) | 4.1 (3.3–4.6) | 0.8 (0.7–1.0) | 0.008 (0.004–0.02) | 4.5 (4.0–5.0) | 0.1 (0.04–0.1) | 0.3 (0.2–0.3) | 4.2 (3.7–4.7) | 0.2 (0.2–0.2) | 5.0 (4.1–5.6) | 2.2 (2.0–2.3) | 1.3 (1.1–1.5) | 1.7 (1.5–2.0) | 2.7 (2.2–3.0) |
| Sweden | 110.4 (95.6–118.6) | 0.7 (0.6–0.8) | 52.9 (46.3–57.0) | 24.1 (20.7–26.4) | 15.2 (12.5–16.8) | 6.9 (6.1–7.7) | 2.1 (1.8–2.3) | 6.6 (5.3–7.5) | 5.3 (4.3–5.9) | 4.6 (3.8–5.2) | 0.6 (0.5–0.7) | 0.007 (0.003–0.02) | 2.6 (2.3–2.9) | 0.1 (0.1–0.2) | 0.4 (0.3–0.5) | 2.1 (1.8–2.3) | 0.1 (0.1–0.1) | 9.8 (8.1–10.8) | 4.2 (3.7–4.6) | 1.1 (0.9–1.2) | 1.0 (0.8–1.1) | 2.1 (1.8–2.3) |
| Switzerland | 89.8 (74.8–97.5) | 0.9 (0.7–1.0) | 41.3 (35.1–45.0) | 18.4 (15.4–20.4) | 12.1 (9.7–13.6) | 4.6 (4.0–5.2) | 1.7 (1.5–1.9) | 9.4 (7.5–10.8) | 3.8 (3.0–4.3) | 3.1 (2.5–3.6) | 0.6 (0.5–0.7) | 0.02 (0.007–0.04) | 1.9 (1.6–2.2) | 0.04 (0.03–0.05) | 0.3 (0.2–0.4) | 1.6 (1.3–1.8) | 0.2 (0.1–0.2) | 4.2 (3.4–4.7) | 2.6 (2.2–2.9) | 1.0 (0.8–1.1) | 4.2 (3.5–4.8) | 2.0 (1.7–2.2) |
| United Kingdom | 118.4 (106.7–124.4) | 1.0 (0.9–1.1) | 58.9 (53.8–62.2) | 27.3 (24.4–29.7) | 16.0 (14.0–17.7) | 8.4 (7.5–9.1) | 2.9 (2.7–3.2) | 4.1 (3.5–4.5) | 4.9 (4.2–5.3) | 4.3 (3.7–4.7) | 0.5 (0.4–0.6) | 0.003 (0.001–0.009) | 3.0 (2.7–3.4) | 0.1 (0.1–0.1) | 0.5 (0.4–0.6) | 2.5 (2.2–2.8) | 0.1 (0.1–0.1) | 6.5 (5.5–7.1) | 4.3 (3.9–4.7) | 2.1 (1.9–2.4) | 1.8 (1.6–2.0) | 4.3 (3.8–4.6) |
| England | 115.6 (104.1–121.8) | 1.0 (0.9–1.1) | 57.2 (52.1–60.4) | 26.3 (23.5–28.7) | 15.3 (13.3–17.0) | 8.2 (7.4–9.0) | 2.8 (2.6–3.1) | 4.1 (3.6–4.6) | 4.7 (4.0–5.2) | 4.2 (3.6–4.6) | 0.5 (0.4–0.6) | 0.003 (0.001–0.009) | 3.1 (2.7–3.5) | 0.1 (0.1–0.1) | 0.5 (0.4–0.6) | 2.6 (2.2–2.9) | 0.1 (0.1–0.1) | 6.5 (5.5–7.1) | 4.4 (4.0–4.7) | 2.1 (1.8–2.3) | 1.8 (1.6–2.0) | 4.2 (3.8–4.6) |
| East Midlands | 120.0 (106.0–131.8) | 1.0 (0.9–1.2) | 61.2 (54.4–67.3) | 26.4 (22.9–29.7) | 15.5 (13.1–17.6) | 8.1 (7.0–9.1) | 2.7 (2.4–3.1) | 4.7 (4.0–5.3) | 5.2 (4.4–5.9) | 4.6 (4.0–5.3) | 0.5 (0.5–0.6) | 0.003 (0.001–0.008) | 2.1 (1.8–2.5) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 1.7 (1.4–1.9) | 0.1 (0.1–0.1) | 6.9 (5.7–7.8) | 4.6 (4.0–5.2) | 2.1 (1.8–2.4) | 2.0 (1.8–2.4) | 3.6 (3.2–4.1) |
| East of England | 106.6 (93.5–119.2) | 0.8 (0.7–1.0) | 51.5 (45.3–57.3) | 24.6 (21.3–27.7) | 14.4 (12.0–16.8) | 7.6 (6.6–8.6) | 2.6 (2.3–2.9) | 4.2 (3.6–4.8) | 4.5 (3.8–5.1) | 3.9 (3.3–4.6) | 0.5 (0.4–0.6) | 0.003 (0.001–0.009) | 2.5 (2.1–2.9) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 2.0 (1.7–2.3) | 0.1 (0.1–0.1) | 6.8 (5.7–7.9) | 4.4 (3.8–5.0) | 1.7 (1.5–2.0) | 1.6 (1.4–1.9) | 3.9 (3.4–4.4) |
| Greater London | 107.4 (93.3–121.1) | 1.1 (1.0–1.3) | 51.6 (45.5–57.9) | 23.2 (19.7–26.9) | 13.2 (10.8–15.3) | 7.4 (6.4–8.4) | 2.6 (2.3–3.0) | 5.0 (4.2–5.7) | 3.9 (3.3–4.5) | 3.5 (2.9–4.0) | 0.5 (0.4–0.5) | 0.004 (0.002–0.01) | 5.0 (4.2–5.8) | 0.1 (0.1–0.1) | 0.5 (0.4–0.7) | 3.6 (3.6–5.1) | 0.1 (0.1–0.1) | 6.3 (5.1–7.4) | 3.8 (3.3–4.4) | 1.6 (1.3–1.9) | 1.7 (1.4–1.9) | 4.2 (3.6–4.8) |
| North East England | 125.9 (112.6–139.7) | 1.1 (0.9–1.2) | 64.1 (57.7–71.4) | 30.1 (26.3–34.7) | 17.6 (14.9–20.5) | 9.3 (8.0–10.5) | 3.3 (2.9–3.6) | 3.5 (3.0–4.1) | 4.6 (4.0–5.3) | 4.2 (3.6–4.8) | 0.5 (0.4–0.5) | 0.004 (0.002–0.009) | 2.1 (1.8–2.5) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 1.7 (1.4–2.0) | 0.1 (0.1–0.1) | 6.1 (5.1–7.0) | 4.8 (4.2–5.4) | 2.5 (2.1–2.9) | 1.8 (1.6–2.1) | 5.0 (4.3–5.6) |
| North West England | 132.7 (118.4–145.0) | 1.0 (0.9–1.2) | 70.2 (62.3–76.5) | 29.6 (26.2–33.0) | 16.7 (14.3–18.9) | 9.5 (8.4–10.6) | 3.4 (3.1–3.8) | 3.4 (2.9–3.8) | 5.3 (4.6–6.0) | 4.7 (4.1–5.4) | 0.6 (0.5–0.6) | 0.002 (0.0009–0.007) | 2.5 (2.2–2.8) | 0.1 (0.1–0.1) | 0.5 (0.4–0.6) | 1.9 (1.7–2.2) | 0.1 (0.1–0.1) | 6.6 (5.7–7.5) | 4.3 (3.8–4.8) | 2.5 (2.1–2.8) | 2.2 (2.0–2.5) | 5.0 (4.5–5.5) |
| South East England | 103.7 (89.9–114.9) | 0.9 (0.8–1.0) | 46.0 (40.2–50.6) | 23.8 (20.3–27.0) | 13.9 (11.4–15.9) | 7.4 (6.5–8.4) | 2.5 (2.2–2.8) | 4.3 (3.7–4.9) | 4.7 (3.8–5.4) | 4.1 (3.4–4.8) | 0.5 (0.4–0.6) | 0.003 (0.001–0.008) | 4.7 (4.0–5.5) | 0.1 (0.1–0.1) | 0.5 (0.4–0.6) | 4.1 (3.4–4.7) | 0.1 (0.1–0.1) | 6.2 (5.1–7.1) | 4.7 (4.1–5.3) | 1.9 (1.5–2.2) | 1.8 (1.5–2.0) | 4.5 (3.9–5.1) |
| South West England | 106.7 (93.0–118.3) | 0.9 (0.8–1.1) | 50.3 (44.4–55.3) | 26.1 (22.3–30.0) | 15.6 (12.8–18.3) | 8.0 (6.9–9.2) | 2.6 (2.3–2.9) | 3.7 (3.1–4.3) | 5.1 (4.2–5.8) | 4.6 (3.8–5.3) | 0.5 (0.4–0.6) | 0.003 (0.001–0.009) | 2.6 (2.3–3.1) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 2.1 (1.8–2.5) | 0.1 (0.1–0.1) | 6.0 (4.9–6.9) | 4.6 (3.9–5.1) | 2.0 (1.6–2.2) | 1.6 (1.4–1.9) | 3.5 (3.1–3.9) |
| West Midlands | 119.9 (104.8–132.8) | 1.1 (0.9–1.2) | 61.8 (55.0–68.1) | 26.9 (23.2–30.7) | 15.6 (13.2–18.2) | 8.3 (7.3–9.4) | 3.0 (2.6–3.4) | 4.3 (3.7–4.9) | 4.3 (3.7–4.9) | 3.7 (3.1–4.3) | 0.6 (0.5–0.7) | 0.003 (0.001–0.008) | 2.6 (2.2–3.0) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 2.0 (1.7–2.4) | 0.1 (0.1–0.1) | 7.1 (5.8–8.2) | 4.0 (3.5–4.6) | 2.2 (1.9–2.6) | 1.7 (1.4–1.9) | 3.9 (3.4–4.3) |
| Yorkshire and the Humber | 130.7 (117.3–142.9) | 1.0 (0.9–1.1) | 69.2 (62.2–76.3) | 29.3 (26.1–32.7) | 17.3 (15.1–19.9) | 8.8 (7.7–9.8) | 3.3 (2.9–3.6) | 3.8 (3.4–4.3) | 3.8 (4.2–5.6) | 4.9 (3.8–5.0) | 0.5 (0.4–0.6) | 0.003 (0.001–0.008) | 2.3 (2.0–2.8) | 0.1 (0.1–0.1) | 0.5 (0.3–0.6) | 1.8 (1.5–2.1) | 0.1 (0.1–0.1) | 6.3 (5.4–7.2) | 4.3 (3.9–4.8) | 2.5 (2.1–2.9) | 2.2 (1.9–2.5) | 4.7 (4.1–5.3) |
| Northern Ireland | 111.1 (98.7–120.2) | 1.2 (1.0–1.4) | 54.5 (49.0–58.9) | 27.9 (24.4–30.6) | 15.9 (13.5–17.8) | 8.8 (7.7–10.0) | 3.2 (2.8–3.6) | 3.4 (2.9–3.9) | 6.0 (5.0–6.8) | 5.4 (4.5–6.2) | 0.5 (0.4–0.7) | 0.004 (0.002–0.009) | 2.4 (2.1–2.8) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 1.9 (1.6–2.2) | 0.1 (0.1–0.1) | 6.1 (5.1–7.0) | 3.1 (2.7–3.4) | 1.6 (1.4–1.8) | 1.4 (1.2–1.6) | 3.5 (3.0–3.9) |
| Scotland | 141.5 (128.7–150.6) | 1.2 (1.0–1.4) | 71.5 (66.1–76.5) | 37.2 (33.0–40.3) | 22.9 (19.9–25.4) | 10.4 (9.3–11.6) | 3.9 (3.4–4.4) | 4.2 (3.7–4.8) | 5.5 (4.8–6.1) | 4.8 (4.2–5.4) | 0.6 (0.5–0.7) | 0.004 (0.002–0.009) | 2.4 (2.1–2.7) | 0.1 (0.1–0.1) | 0.5 (0.4–0.6) | 1.8 (1.6–2.1) | 0.1 (0.1–0.2) | 6.7 (5.7–7.4) | 4.1 (3.7–4.5) | 3.0 (2.5–3.3) | 1.6 (1.4–1.8) | 4.1 (3.6–4.5) |
| Wales | 130.4 (114.8–140.9) | 1.0 (0.8–1.1) | 68.1 (60.5–73.9) | 27.7 (24.4–30.6) | 16.5 (14.1–18.6) | 8.0 (7.2–8.8) | 3.1 (2.8–3.4) | 3.7 (3.2–4.2) | 5.8 (4.9–6.4) | 5.2 (4.4–5.8) | 0.5 (0.4–0.6) | 0.003 (0.001–0.008) | 2.9 (2.6–3.3) | 0.1 (0.1–0.1) | 0.6 (0.4–0.8) | 2.2 (1.9–2.5) | 0.1 (0.1–0.1) | 6.3 (5.3–7.0) | 4.5 (4.0–4.9) | 2.2 (1.9–2.5) | 2.6 (2.2–3.0) | 5.6 (4.9–6.1) |
| **Latin America and Caribbean** | **160.6 (147.8–167.4)** | **0.9 (0.8–1.0)** | **83.8 (76.9–88.1)** | **45.7 (41.7–48.5)** | **24.2 (21.6–25.9)** | **16.6 (15.2–17.8)** | **4.9 (4.5–5.4)** | **12.3 (11.0–13.4)** | **1.6 (1.5–1.7)** | **1.1 (1.0–1.2)** | **0.4 (0.4–0.5)** | **0.02 (0.01–0.1)** | **3.9 (3.5–4.2)** | **0.1 (0.1–0.1)** | **0.4 (0.3–0.5)** | **3.4 (3.0–3.7)** | **0.2 (0.1–0.2)** | **4.9 (4.2–5.3)** | **2.4 (2.2–2.6)** | **1.0 (0.9–1.1)** | **0.8 (0.7–0.9)** | **3.2 (2.9–3.4)** |
| Andean Latin America | 116.2 (106.0–125.3) | 0.8 (0.6–0.9) | 57.0 (51.0–62.0) | 37.8 (33.9–42.2) | 16.7 (14.5–18.6) | 14.8 (12.6–17.3) | 6.3 (5.3–7.4) | 9.9 (8.0–12.8) | 0.9 (0.7–1.1) | 0.6 (0.5–0.8) | 0.2 (0.2–0.3) | 0.005 (0.002–0.009) | 1.3 (1.1–1.6) | 0.04 (0.02–0.1) | 0.1 (0.003–0.01) | 1.3 (1.0–1.5) | 0.2 (0.1–0.3) | 4.6 (3.8–5.3) | 1.0 (0.8–1.2) | 0.2 (0.2–0.3) | 0.4 (0.3–0.5) | 2.3 (1.9–3.0) |
| Bolivia (Plurinational State of) | 177.1 (144.1–212.7) | 1.9 (1.1–2.7) | 73.0 (51.0–96.6) | 69.6 (52.0–89.6) | 28.1 (20.2–40.2) | 31.1 (20.3–43.9) | 10.4 (6.5–15.4) | 17.6 (10.7–27.5) | 1.3 (0.8–2.0) | 0.9 (0.5–1.5) | 0.4 (0.2–0.6) | 0.006 (0.002–0.02) | 2.5 (1.5–3.9) | 0.01 (0.03–0.1) | 0.1 (0.003–0.03) | 2.4 (1.4–3.8) | 0.3 (0.1–0.5) | 5.4 (4.0–7.1) | 1.3 (0.8–1.9) | 0.2 (0.1–0.3) | 0.7 (0.4–1.1) | 3.3 (2.0–5.3) |
| Ecuador | 145.9 (134.2–152.5) | 0.6 (0.5–0.6) | 84.4 (78.6–88.9) | 36.6 (33.3–39.0) | 17.5 (15.4–19.2) | 12.5 (11.0–14.2) | 6.6 (5.6–7.3) | 13.9 (12.4–15.0) | 1.0 (0.9–1.2) | 0.6 (0.6–0.7) | 0.4 (0.3–0.4) | 0.003 (0.001–0.006) | 1.5 (1.3–1.7) | 0.1 (0.04–0.1) | 0.007 (0.005–0.01) | 1.4 (1.2–1.6) | 0.2 (0.1–0.2) | 3.7 (3.4–4.0) | 1.2 (1.0–1.4) | 0.2 (0.1–0.2) | 0.4 (0.4–0.5) | 2.2 (1.9–2.5) |
| Peru | 89.0 (75.6–104.0) | 0.6 (0.4–0.8) | 40.9 (33.3–48.5) | 31.0 (25.0–37.9) | 14.1 (10.8–18.0) | 11.7 (9.1–14.9) | 5.1 (3.7–6.6) | 6.5 (4.6–10.0) | 0.7 (0.4–1.0) | 0.6 (0.4–0.8) | 0.1 (0.1–0.2) | 0.005 (0.002–0.01) | 0.9 (0.7–1.3) | 0.02 (0.01–0.04) | 0.003 (0.001–0.01) | 0.9 (0.7–1.2) | 0.1 (0.1–0.3) | 4.9 (3.8–6.1) | 0.8 (0.6–1.0) | 0.2 (0.2–0.3) | 0.3 (0.2–0.5) | 2.1 (1.6–3.0) |
| Caribbean | 243.3 (224.2–260.3) | 2.6 (1.5–4.0) | 108.2 (97.2–119.1) | 84.3 (75.3–93.9) | 42.8 (37.2–48.8) | 36.3 (31.1–44.2) | 5.2 (3.9–7.5) | 24.4 (21.2–28.3) | 1.4 (1.1–1.6) | 0.9 (0.7–1.1) | 0.4 (0.3–0.6) | 0.02 (0.01–0.03) | 6.7 (5.4–8.3) | 0.2 (0.1–0.4) | 2.0 (1.5–2.9) | 4.5 (3.4–5.8) | 0.2 (0.2–0.4) | 5.1 (4.5–5.6) | 2.2 (1.9–2.4) | 2.2 (1.9–2.5) | 1.0 (0.8–1.2) | 5.0 (4.2–6.0) |
| Antigua and Barbuda | 173.2 (155.6–187.8) | 0.4 (0.4–0.5) | 50.4 (44.4–56.7) | 57.1 (50.5–63.3) | 30.4 (26.1–34.4) | 22.7 (19.5–26.0) | 4.0 (3.4–4.8) | 40.6 (34.9–45.9) | 0.9 (0.8–1.0) | 0.5 (0.5–0.6) | 0.3 (0.3–0.4) | 0.04 (0.02–0.1) | 5.1 (4.3–5.9) | 0.2 (0.1–0.3) | 0.8 (0.6–1.1) | 4.1 (3.3–4.7) | 0.05 (0.04–0.1) | 5.6 (4.8–6.2) | 1.1 (0.9–1.3) | 1.4 (1.2–1.6) | 1.0 (0.9–1.2) | 9.6 (8.1–11.1) |
| Barbados | 171.6 (157.1–184.1) | 0.5 (0.4–0.7) | 62.1 (55.2–68.4) | 61.5 (54.4–68.1) | 37.1 (32.8–41.5) | 19.8 (16.3–23.2) | 4.5 (3.6–5.5) | 17.4 (14.5–20.1) | 1.3 (1.1–1.6) | 1.1 (1.0–1.3) | 0.2 (0.1–0.2) | 0.04 (0.02–0.1) | 7.4 (6.1–9.1) | 0.1 (0.1–0.3) | 2.6 (1.9–3.5) | 4.8 (3.8–5.7) | 0.3 (0.3–0.4) | 6.0 (5.2–6.9) | 2.1 (1.7–2.5) | 1.8 (1.5–2.1) | 1.5 (1.3–1.7) | 5.5 (4.5–6.8) |
| Belize | 169.7 (154.5–188.0) | 0.6 (0.5–0.8) | 72.8 (62.2–82.1) | 50.6 (44.1–57.4) | 24.6 (20.8–28.4) | 23.6 (19.5–27.6) | 2.5 (2.0–3.0) | 26.0 (22.5–29.6) | 0.9 (0.7–1.0) | 0.4 (0.3–0.4) | 0.5 (0.4–0.5) | 0.1 (0.02–0.1) | 5.7 (4.7–6.8) | 0.04 (0.03–0.1) | 1.5 (1.2–2.0) | 4.2 (3.3–5.0) | 0.2 (0.1–0.2) | 5.4 (4.7–6.1) | 0.9 (0.8–1.1) | 0.6 (0.5–0.7) | 0.4 (0.3–0.4) | 5.5 (4.7–6.5) |
| Bermuda | 151.2 (137.5–162.5) | 0.4 (0.3–0.5) | 76.1 (68.2–83.0) | 31.4 (27.5–34.9) | 21.0 (18.0–23.7) | 7.9 (6.7–9.4) | 2.5 (2.1–3.0) | 8.8 (7.3–10.2) | 4.6 (3.9–5.3) | 4.1 (3.5–4.8) | 0.4 (0.4–0.5) | 0.01 (0.004–0.02) | 6.7 (5.6–7.7) | 0.1 (0.1–0.1) | 1.5 (1.1–1.8) | 5.1 (4.2–5.9) | 0.8 (0.6–0.9) | 5.6 (4.8–6.4) | 4.5 (3.7–5.3) | 4.0 (3.4–4.7) | 0.8 (0.7–1.0) | 7.6 (6.5–8.9) |
| Cuba | 179.9 (162.2–198.2) | 0.7 (0.6–0.8) | 87.9 (78.2–97.0) | 51.9 (46.7–58.0) | 34.6 (30.8–38.8) | 14.6 (12.9–16.4) | 2.7 (2.4–3.1) | 17.5 (15.3–19.9) | 1.4 (1.2–1.6) | 1.0 (0.8–1.1) | 0.4 (0.3–0.5) | 0.02 (0.007–0.04) | 6.0 (5.2–6.7) | 0.1 (0.1–0.1) | 3.1 (2.6–3.7) | 2.8 (2.4–3.3) | 0.1 (0.1–0.1) | 4.3 (3.7–5.0) | 2.6 (2.2–3.0) | 3.2 (2.8–3.7) | 0.4 (0.3–0.4) | 4.0 (3.5–4.5) |
| Dominica | 199.4 (173.8–227.4) | 1.0 (0.7–1.4) | 69.2 (55.5–83.9) | 61.6 (48.6–76.3) | 35.1 (27.1–44.6) | 22.9 (17.3–29.3) | 3.5 (2.3–4.9) | 34.2 (24.3–46.2) | 0.8 (0.6–1.2) | 0.6 (0.4–0.9) | 0.2 (0.1–0.4) | 0.005 (0.002–0.01) | 16.2 (11.6–21.8) | 0.2 (0.1–0.4) | 1.0 (0.3–2.2) | 15.0 (10.7–20.4) | 0.1 (0.04–0.2) | 6.5 (5.1–8.0) | 3.2 (2.3–4.1) | 1.3 (1.0–1.8) | 0.9 (0.7–1.3) | 4.5 (2.8–6.3) |
| Dominican Republic | 308.1 (282.2–348.8) | 0.9 (0.6–1.2) | 164.4 (148.4–185.0) | 90.7 (78.9–116.7) | 45.5 (37.5–56.7) | 39.3 (32.5–54.8) | 5.9 (4.1–7.7) | 29.9 (23.2–38.0) | 1.1 (0.7–1.6) | 0.8 (0.5–1.1) | 0.3 (0.1–0.5) | 0.02 (0.007–0.05) | 4.6 (3.3–6.0) | 0.03 (0.02–0.1) | 0.8 (0.2–1.5) | 3.8 (2.8–5.0) | 0.2 (0.1–0.4) | 7.1 (5.7–8.7) | 2.0 (1.5–2.7) | 1.0 (0.7–1.4) | 0.6 (0.4–0.8) | 5.6 (4.2–7.2) |
| Grenada | 199.3 (180.2–218.8) | 1.3 (1.1–1.6) | 66.8 (59.1–74.8) | 69.2 (61.2–78.0) | 41.5 (36.1–46.9) | 23.0 (19.6–27.4) | 4.7 (3.9–5.8) | 31.6 (27.3–36.4) | 1.6 (1.3–1.9) | 0.9 (0.7–1.0) | 0.7 (0.5–0.8) | 0.02 (0.009–0.04) | 10.6 (8.9–12.3) | 0.1 (0.1–0.2) | 2.8 (2.1–3.6) | 7.7 (6.4–9.1) | 0.3 (0.3–0.4) | 4.9 (4.3–5.5) | 2.6 (2.1–3.0) | 1.8 (1.6–2.1) | 1.5 (1.3–1.8) | 6.9 (5.7–8.1) |
| Guyana | 315.3 (289.4–344.7) | 1.3 (0.9–1.6) | 104.8 (89.7–121.1) | 102.4 (89.4–118.7) | 54.6 (41.5–66.9) | 42.9 (33.6–54.1) | 4.8 (3.3–6.7) | 69.5 (60.9–79.6) | 2.7 (2.3–3.2) | 2.0 (1.6–2.4) | 0.7 (0.5–0.8) | 0.1 (0.02–0.2) | 13.0 (10.3–17.2) | 0.1 (0.1–0.2) | 2.6 (1.5–4.1) | 10.3 (8.2–13.3) | 0.5 (0.4–0.6) | 6.1 (5.3–7.1) | 4.2 (3.5–4.9) | 0.9 (0.8–1.1) | 2.1 (1.7–2.4) | 7.9 (6.4–9.5) |
| Haiti | 584.4 (502.2–673.3) | 8.2 (4.0–14.2) | 209.8 (141.1–276.9) | 285.6 (222.9–352.7) | 143.1 (101.6–191.8) | 130.7 (94.3–189.3) | 11.8 (4.7–24.1) | 46.3 (27.2–78.4) | 1.6 (1.0–2.5) | 0.9 (0.5–1.4) | 0.7 (0.4–1.2) | 0.02 (0.007–0.03) | 13.0 (5.8–21.7) | 0.6 (0.2–1.4) | 2.7 (0.7–7.1) | 9.7 (4.4–17.1) | 0.6 (0.2–1.1) | 5.3 (3.6–7.4) | 2.2 (1.4–3.5) | 1.6 (1.0–2.5) | 2.1 (1.2–3.1) | 8.0 (4.4–14.0) |
| Jamaica | 186.5 (167.2–204.4) | 1.2 (1.0–1.5) | 52.3 (45.8–58.2) | 80.8 (71.1–89.3) | 42.5 (36.2–49.7) | 33.2 (27.1–38.7) | 5.0 (4.1–6.0) | 30.9 (26.7–35.4) | 0.6 (0.5–0.7) | 0.3 (0.2–0.3) | 0.3 (0.2–0.4) | 0.01 (0.005–0.02) | 5.3 (4.3–6.3) | 0.1 (0.1–0.1) | 1.2 (0.8–1.6) | 4.1 (3.3–4.8) | 0.1 (0.1–0.1) | 5.5 (4.7–6.4) | 1.8 (1.5–2.1) | 2.6 (2.1–3.1) | 1.6 (1.3–1.8) | 3.9 (3.2–4.6) |
| Puerto Rico | 91.8 (83.8–96.8) | 0.4 (0.4–0.5) | 51.2 (

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| El Salvador | 187.6 (168.2–207.3) | 0.3 (0.2–0.5) | 121.0 (108.0–136.4) | 41.3 (33.9–48.2) | 20.8 (16.8–24.9) | 16.1 (12.5–19.6) | 4.4 (3.2–6.0) | 8.7 (6.3–11.8) | 0.4 (0.3–0.6) | 0.4 (0.2–0.5) | 0.1 (0.03–0.1) | 0.009 (0.004–0.02) | 2.1 (1.5–2.9) | 0.03 (0.01–0.05) | 0.1 (0.02–0.1) | 2.1 (1.4–2.8) | 0.2 (0.1–0.5) | 8.9 (7.3–10.6) | 0.8 (0.6–1.1) | 0.6 (0.4–0.9) | 0.2 (0.1–0.2) | 3.0 (2.2–4.0) |
| Guatemala | 181.7 (162.8–202.6) | 0.1 (0.1–0.2) | 115.9 (103.6–130.5) | 47.3 (41.8–53.6) | 22.0 (18.7–26.0) | 22.7 (19.6–26.2) | 2.6 (2.1–3.0) | 6.8 (5.8–7.9) | 0.6 (0.5–0.7) | 0.4 (0.4–0.5) | 0.1 (0.1–0.2) | 0.009 (0.004–0.02) | 1.7 (1.5–2.0) | 0.04 (0.03–0.05) | 0.1 (0.04–0.1) | 1.6 (1.4–1.9) | 0.1 (0.05–0.1) | 5.4 (4.8–6.4) | 0.5 (0.4–0.5) | 0.1 (0.1–0.1) | 0.4 (0.4–0.5) | 2.9 (2.4–3.4) |
| Honduras | 282.9 (237.7–326.1) | 0.9 (0.4–2.0) | 159.1 (119.6–198.0) | 73.4 (52.6–99.4) | 41.8 (30.0–58.8) | 25.9 (16.8–36.6) | 5.7 (3.4–9.6) | 31.5 (16.8–52.3) | 1.0 (0.6–1.6) | 0.7 (0.4–1.2) | 0.3 (0.1–0.5) | 0.01 (0.005–0.02) | 2.9 (1.6–4.7) | 0.1 (0.02–0.1) | 0.2 (0.1–0.4) | 2.7 (1.5–4.2) | 0.2 (0.1–0.5) | 8.0 (5.8–11.1) | 0.9 (0.6–1.3) | 0.7 (0.4–1.1) | 0.5 (0.4–0.8) | 3.8 (2.3–5.8) |
| Mexico | 151.4 (140.9–157.6) | 0.4 (0.4–0.5) | 105.9 (98.9–110.6) | 26.7 (24.8–28.4) | 14.6 (13.1–15.9) | 8.9 (8.1–9.8) | 3.2 (2.8–3.6) | 8.3 (7.6–9.1) | 0.8 (0.7–0.9) | 0.7 (0.6–0.8) | 0.2 (0.1–0.2) | 0.007 (0.003–0.02) | 1.1 (0.9–1.2) | 0.03 (0.02–0.03) | 0.1 (0.1–0.2) | 0.9 (0.8–1.1) | 0.1 (0.1–0.1) | 4.4 (3.9–4.7) | 0.5 (0.5–0.6) | 0.4 (0.3–0.4) | 0.4 (0.3–0.4) | 2.3 (2.0–2.6) |
| Aguascalientes | 129.1 (116.5–141.4) | 0.7 (0.6–0.9) | 80.7 (72.6–88.8) | 27.6 (24.8–30.7) | 14.6 (12.4–16.6) | 9.3 (8.2–10.6) | 3.6 (3.1–4.3) | 9.3 (7.8–10.9) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.01 (0.004–0.03) | 1.0 (0.8–1.1) | 0.02 (0.01–0.02) | 0.1 (0.1–0.2) | 0.8 (0.7–1.0) | 0.1 (0.1–0.2) | 4.6 (4.0–5.2) | 0.7 (0.6–0.8) | 0.4 (0.3–0.5) | 0.4 (0.4–0.5) | 2.8 (2.4–3.4) |
| Baja California | 161.4 (147.4–171.3) | 0.3 (0.3–0.4) | 103.8 (93.9–111.8) | 33.8 (30.9–36.7) | 19.3 (17.3–21.3) | 10.9 (9.7–12.3) | 3.6 (3.1–4.1) | 11.8 (10.2–13.3) | 1.0 (0.9–1.2) | 0.9 (0.7–1.0) | 0.2 (0.2–0.2) | 0.006 (0.002–0.02) | 1.5 (1.2–1.7) | 0.02 (0.02–0.03) | 0.2 (0.1–0.2) | 1.3 (1.1–1.5) | 0.1 (0.1–0.1) | 4.7 (4.1–5.2) | 0.9 (0.7–1.0) | 0.4 (0.4–0.5) | 0.6 (0.5–0.6) | 2.6 (2.2–3.0) |
| Baja California Sur | 156.6 (141.1–171.1) | 0.3 (0.3–0.4) | 110.8 (99.4–121.1) | 25.4 (22.5–28.6) | 13.7 (11.5–15.7) | 8.6 (7.3–9.9) | 3.1 (2.6–3.7) | 8.6 (7.2–10.1) | 1.1 (0.9–1.2) | 0.9 (0.8–1.1) | 0.1 (0.1–0.2) | 0.008 (0.004–0.02) | 1.4 (1.2–1.6) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 1.2 (1.0–1.4) | 0.04 (0.03–0.04) | 4.6 (3.9–5.2) | 1.2 (1.0–1.5) | 0.4 (0.3–0.4) | 0.3 (0.2–0.3) | 2.5 (2.1–3.1) |
| Campeche | 158.4 (144.9–171.6) | 0.3 (0.3–0.4) | 115.8 (104.5–126.3) | 26.6 (23.1–30.8) | 15.3 (13.2–18.3) | 8.2 (6.8–9.7) | 3.1 (2.6–3.7) | 6.0 (5.1–7.4) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.2) | 0.007 (0.003–0.02) | 1.3 (1.1–1.5) | 0.04 (0.02–0.1) | 0.2 (0.1–0.2) | 1.1 (0.9–1.3) | 0.1 (0.1–0.1) | 4.7 (4.1–5.5) | 0.4 (0.3–0.4) | 0.4 (0.3–0.5) | 0.2 (0.2–0.3) | 2.0 (1.6–2.3) |
| Chiapas | 165.8 (152.3–178.5) | 0.3 (0.2–0.3) | 122.5 (111.5–133.8) | 26.8 (24.1–29.7) | 14.1 (12.4–16.0) | 9.4 (8.2–10.7) | 3.4 (2.9–3.9) | 7.7 (6.6–9.0) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.1) | 0.005 (0.002–0.02) | 1.1 (0.9–1.3) | 0.04 (0.03–0.1) | 0.1 (0.1–0.1) | 1.0 (0.8–1.2) | 0.1 (0.04–0.1) | 4.1 (3.6–4.6) | 0.3 (0.3–0.4) | 0.2 (0.2–0.3) | 0.4 (0.3–0.4) | 1.7 (1.4–2.0) |
| Chihuahua | 195.6 (180.6–208.5) | 0.5 (0.4–0.6) | 138.3 (127.4–147.2) | 31.0 (27.9–34.1) | 17.7 (16.0–19.7) | 9.9 (8.6–11.1) | 3.4 (3.0–4.0) | 12.8 (11.3–14.6) | 0.9 (0.8–1.0) | 0.7 (0.6–0.8) | 0.2 (0.1–0.2) | 0.008 (0.003–0.02) | 1.9 (1.6–2.1) | 0.1 (0.04–0.1) | 0.2 (0.1–0.3) | 1.6 (1.4–1.9) | 0.1 (0.1–0.1) | 4.8 (4.3–5.3) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.4 (0.4–0.5) | 3.5 (3.0–4.0) |
| Coahuila | 178.2 (164.6–191.8) | 0.4 (0.3–0.4) | 122.0 (111.7–131.2) | 31.4 (28.6–34.5) | 16.0 (14.2–18.0) | 12.1 (10.8–13.6) | 3.3 (2.8–3.8) | 13.4 (12.1–15.1) | 0.8 (0.7–0.9) | 0.7 (0.6–0.8) | 0.1 (0.1–0.2) | 0.006 (0.002–0.02) | 1.2 (1.0–1.3) | 0.03 (0.02–0.04) | 0.1 (0.1–0.1) | 1.0 (0.9–1.2) | 0.1 (0.1–0.1) | 5.1 (4.6–5.7) | 0.5 (0.5–0.6) | 0.5 (0.5–0.6) | 0.3 (0.3–0.4) | 2.5 (2.2–3.0) |
| Colima | 151.9 (136.2–165.4) | 0.4 (0.3–0.5) | 103.2 (93.5–112.5) | 29.7 (26.6–32.8) | 16.3 (13.8–18.3) | 9.5 (8.1–10.8) | 4.0 (3.4–4.7) | 6.7 (5.6–7.9) | 1.2 (1.0–1.3) | 0.9 (0.8–1.1) | 0.2 (0.2–0.3) | 0.005 (0.001–0.02) | 1.7 (1.4–1.9) | 0.03 (0.02–0.04) | 0.2 (0.1–0.3) | 1.4 (1.2–1.7) | 0.1 (0.1–0.1) | 4.8 (4.1–5.4) | 0.7 (0.6–0.8) | 0.4 (0.3–0.4) | 0.4 (0.3–0.5) | 2.6 (2.2–3.1) |
| Durango | 171.9 (156.3–185.5) | 0.4 (0.3–0.4) | 134.1 (121.1–144.4) | 21.5 (19.0–24.3) | 11.0 (9.4–12.7) | 7.7 (6.5–8.7) | 2.8 (2.4–3.4) | 6.3 (5.4–7.4) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.2) | 0.003 (0.003–0.02) | 0.8 (0.7–1.0) | 0.03 (0.02–0.1) | 0.1 (0.1–0.1) | 0.7 (0.6–0.9) | 0.1 (0.1–0.1) | 4.2 (3.6–4.8) | 0.5 (0.4–0.6) | 0.3 (0.3–0.4) | 0.3 (0.3–0.4) | 2.7 (2.3–3.2) |
| Guanajuato | 165.6 (152.0–176.4) | 0.6 (0.5–0.7) | 124.6 (114.0–133.2) | 23.9 (21.5–26.3) | 12.4 (10.9–14.0) | 8.4 (7.3–9.5) | 3.1 (2.7–3.6) | 6.9 (6.1–7.8) | 0.8 (0.7–0.9) | 0.6 (0.6–0.7) | 0.2 (0.1–0.2) | 0.006 (0.002–0.02) | 1.3 (1.1–1.4) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 1.1 (1.0–1.3) | 0.1 (0.05–0.1) | 4.1 (3.7–4.6) | 0.5 (0.4–0.6) | 0.3 (0.3–0.4) | 0.4 (0.3–0.4) | 2.2 (1.9–2.5) |
| Guerrero | 115.2 (104.8–124.1) | 0.2 (0.2–0.3) | 78.5 (71.3–85.4) | 23.5 (20.5–26.7) | 12.0 (10.0–13.6) | 8.6 (7.3–9.9) | 2.9 (2.5–3.5) | 5.7 (5.0–6.6) | 0.6 (0.5–0.6) | 0.4 (0.4–0.5) | 0.1 (0.1–0.1) | 0.004 (0.0009–0.02) | 0.8 (0.7–1.0) | 0.03 (0.02–0.1) | 0.1 (0.1–0.1) | 0.7 (0.6–0.9) | 0.04 (0.03–0.1) | 3.3 (2.9–3.7) | 0.3 (0.3–0.4) | 0.2 (0.2–0.3) | 0.3 (0.3–0.4) | 1.6 (1.4–1.9) |
| Hidalgo | 138.7 (124.7–149.5) | 0.4 (0.3–0.4) | 95.9 (86.4–103.8) | 25.4 (22.9–27.9) | 13.3 (11.8–15.2) | 9.1 (7.8–10.3) | 3.0 (2.5–3.4) | 7.2 (6.2–8.3) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.2) | 0.005 (0.001–0.02) | 1.1 (0.9–1.3) | 0.03 (0.02–0.03) | 0.1 (0.1–0.1) | 1.0 (0.8–1.1) | 0.1 (0.1–0.1) | 5.0 (4.3–5.6) | 0.3 (0.3–0.3) | 0.2 (0.2–0.3) | 0.4 (0.3–0.5) | 2.0 (1.7–2.3) |
| Jalisco | 141.7 (130.2–149.3) | 0.5 (0.4–0.6) | 91.8 (84.9–97.1) | 27.1 (24.7–29.4) | 15.0 (13.4–17.0) | 8.6 (7.6–9.5) | 3.5 (3.0–3.9) | 10.5 (9.3–11.9) | 1.0 (0.9–1.1) | 0.7 (0.6–0.9) | 0.2 (0.2–0.3) | 0.01 (0.004–0.03) | 1.3 (1.1–1.5) | 0.02 (0.02–0.03) | 0.2 (0.2–0.3) | 1.1 (0.9–1.2) | 0.1 (0.1–0.1) | 4.6 (4.1–5.0) | 0.7 (0.6–0.8) | 0.3 (0.3–0.4) | 0.6 (0.5–0.7) | 3.2 (2.7–3.6) |
| México | 136.0 (126.3–144.3) | 0.6 (0.5–0.6) | 95.2 (87.8–101.9) | 23.0 (21.3–24.9) | 12.4 (11.0–13.9) | 7.8 (6.9–8.7) | 2.8 (2.4–3.2) | 8.4 (7.6–9.0) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.007 (0.002–0.02) | 0.6 (0.5–0.7) | 0.01 (0.01–0.02) | 0.1 (0.04–0.1) | 0.5 (0.5–0.6) | 0.1 (0.1–0.1) | 4.0 (3.6–4.3) | 0.4 (0.3–0.4) | 0.3 (0.2–0.3) | 0.3 (0.3–0.4) | 2.3 (2.1–2.7) |
| Mexico City | 132.7 (122.1–140.8) | 0.7 (0.6–0.8) | 89.9 (82.0–95.5) | 23.3 (21.5–25.3) | 12.5 (11.3–13.8) | 7.6 (6.8–8.5) | 3.1 (2.8–3.5) | 8.4 (7.5–9.2) | 1.0 (0.9–1.2) | 0.9 (0.8–1.0) | 0.2 (0.1–0.2) | 0.007 (0.002–0.02) | 0.8 (0.7–1.0) | 0.02 (0.02–0.03) | 0.1 (0.1–0.1) | 0.7 (0.6–0.8) | 0.1 (0.1–0.1) | 4.3 (3.8–4.7) | 0.6 (0.6–0.7) | 0.4 (0.4–0.5) | 0.4 (0.3–0.4) | 2.7 (2.4–3.1) |
| Michoacán de Ocampo | 136.4 (124.5–146.5) | 0.5 (0.4–0.6) | 95.7 (87.5–102.8) | 24.1 (21.8–26.6) | 13.4 (11.9–15.0) | 7.9 (6.9–8.9) | 2.8 (2.5–3.3) | 6.6 (5.9–7.3) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.009 (0.004–0.02) | 1.0 (0.9–1.1) | 0.02 (0.02–0.03) | 0.1 (0.1–0.1) | 0.9 (0.8–1.0) | 0.1 (0.1–0.1) | 4.1 (3.6–4.5) | 0.5 (0.4–0.5) | 0.3 (0.3–0.4) | 0.4 (0.3–0.4) | 2.4 (2.1–2.8) |
| Morelos | 153.8 (141.4–165.9) | 0.5 (0.4–0.6) | 113.7 (104.1–123.5) | 24.2 (21.7–26.5) | 12.5 (11.1–14.0) | 8.2 (7.2–9.2) | 3.5 (3.0–4.0) | 6.0 (5.2–7.0) | 0.9 (0.8–1.0) | 0.7 (0.6–0.8) | 0.2 (0.1–0.2) | 0.008 (0.003–0.02) | 1.0 (0.8–1.1) | 0.03 (0.02–0.03) | 0.1 (0.1–0.1) | 0.8 (0.7–1.0) | 0.1 (0.1–0.1) | 4.1 (3.6–4.6) | 0.5 (0.4–0.5) | 0.4 (0.3–0.4) | 0.4 (0.3–0.5) | 2.0 (1.7–2.4) |
| Nayarit | 124.2 (114.0–135.3) | 0.3 (0.2–0.3) | 82.0 (75.1–89.6) | 23.7 (21.1–26.7) | 13.2 (11.3–15.1) | 7.7 (6.5–8.8) | 2.8 (2.4–3.3) | 8.8 (7.2–10.5) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.2) | 0.006 (0.003–0.02) | 1.1 (0.9–1.3) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 0.9 (0.7–1.1) | 0.1 (0.1–0.1) | 4.5 (3.9–5.2) | 0.5 (0.4–0.6) | 0.3 (0.3–0.4) | 0.3 (0.3–0.4) | 2.0 (1.7–2.4) |
| Nuevo León | 179.7 (169.2–190.6) | 0.3 (0.3–0.4) | 127.8 (118.7–136.5) | 32.6 (29.9–35.2) | 17.2 (15.2–19.1) | 11.6 (10.4–12.9) | 3.8 (3.3–4.4) | 7.3 (6.5–8.2) | 1.2 (1.1–1.3) | 1.0 (0.9–1.1) | 0.2 (0.2–0.3) | 0.008 (0.003–0.02) | 1.1 (1.0–1.3) | 0.04 (0.03–0.05) | 0.1 (0.1–0.1) | 1.0 (0.8–1.1) | 0.1 (0.1–0.1) | 5.0 (4.5–5.5) | 0.7 (0.6–0.8) | 0.6 (0.5–0.7) | 0.4 (0.4–0.5) | 2.6 (2.3–3.0) |
| Oaxaca | 141.6 (128.7–152.5) | 0.4 (0.3–0.5) | 88.9 (79.5–96.1) | 32.8 (29.8–35.8) | 19.2 (17.2–21.3) | 10.4 (9.2–11.7) | 3.2 (2.8–3.6) | 10.3 (9.1–11.5) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.2–0.2) | 0.009 (0.004–0.02) | 1.0 (0.9–1.2) | 0.03 (0.02–0.04) | 0.1 (0.1–0.1) | 0.9 (0.8–1.0) | 0.05 (0.04–0.1) | 4.7 (4.1–5.2) | 0.3 (0.2–0.3) | 0.2 (0.2–0.3) | 0.4 (0.3–0.4) | 1.9 (1.6–2.2) |
| Puebla | 166.7 (154.7–176.1) | 0.4 (0.4–0.5) | 122.4 (113.3–129.7) | 27.5 (25.0–29.7) | 14.7 (13.3–16.2) | 9.8 (8.6–10.8) | 3.0 (2.6–3.4) | 7.3 (6.5–8.3) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.009 (0.003–0.03) | 1.0 (0.8–1.1) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 0.8 (0.7–1.0) | 0.1 (0.04–0.1) | 4.4 (4.0–4.8) | 0.3 (0.3–0.4) | 0.2 (0.2–0.3) | 0.3 (0.3–0.4) | 2.0 (1.7–2.3) |
| Querétaro | 142.0 (128.6–153.5) | 0.5 (0.4–0.6) | 96.4 (87.3–104.6) | 27.9 (25.4–30.5) | 15.3 (13.3–17.3) | 9.3 (8.2–10.6) | 3.6 (2.8–3.8) | 6.8 (5.7–7.9) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.007 (0.003–0.02) | 0.9 (0.8–1.1) | 0.02 (0.01–0.03) | 0.2 (0.1–0.2) | 0.8 (0.6–0.9) | 0.1 (0.04–0.1) | 4.6 (4.0–5.2) | 0.5 (0.5–0.6) | 0.2 (0.2–0.3) | 0.3 (0.2–0.3) | 3.0 (2.5–3.5) |
| Quintana Roo | 160.1 (145.2–175.4) | 0.4 (0.4–0.5) | 104.4 (92.5–115.7) | 34.8 (30.5–39.8) | 20.3 (17.5–23.6) | 10.6 (9.1–12.4) | 3.9 (3.3–4.6) | 8.7 (7.3–10.4) | 0.9 (0.8–1.1) | 0.8 (0.7–0.9) | 0.1 (0.1–0.2) | 0.01 (0.005–0.03) | 1.5 (1.3–1.8) | 0.02 (0.01–0.03) | 0.2 (0.1–0.3) | 1.3 (1.1–1.6) | 0.1 (0.1–0.2) | 5.7 (4.8–6.6) | 0.6 (0.5–0.7) | 0.4 (0.3–0.5) | 0.4 (0.3–0.5) | 2.1 (1.7–2.5) |
| San Luis Potosí | 148.9 (134.7–159.5) | 0.4 (0.3–0.4) | 101.8 (90.8–109.3) | 25.0 (22.7–27.2) | 13.3 (11.7–14.6) | 8.4 (7.5–9.4) | 3.3 (2.9–3.7) | 11.3 (9.9–13.0) | 0.7 (0.6–0.8) | 0.6 (0.5–0.7) | 0.1 (0.1–0.1) | 0.007 (0.003–0.02) | 1.8 (1.6–2.1) | 0.02 (0.02–0.03) | 0.3 (0.2–0.5) | 1.5 (1.2–1.7) | 0.1 (0.1–0.1) | 4.4 (3.9–4.9) | 0.5 (0.5–0.6) | 0.4 (0.4–0.5) | 0.3 (0.3–0.4) | 2.2 (1.9–2.6) |
| Sinaloa | 138.5 (127.1–149.7) | 0.2 (0.2–0.3) | 99.0 (91.2–107.4) | 22.5 (20.2–24.8) | 13.1 (11.5–14.9) | 7.0 (6.0–8.0) | 2.4 (2.1–2.8) | 7.8 (6.8–9.0) | 0.8 (0.7–0.9) | 0.7 (0.6–0.8) | 0.1 (0.1–0.1) | 0.005 (0.001–0.02) | 1.0 (0.8–1.1) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 0.8 (0.7–0.9) | 0.04 (0.03–0.05) | 4.1 (3.6–4.5) | 0.6 (0.5–0.7) | 0.3 (0.2–0.3) | 0.3 (0.2–0.3) | 1.9 (1.6–2.2) |
| Sonora | 182.9 (169.2–194.8) | 0.3 (0.3–0.3) | 133.3 (123.3–142.1) | 27.7 (25.1–30.4) | 15.2 (13.4–16.9) | 9.3 (8.2–10.5) | 3.2 (2.8–3.7) | 10.3 (9.1–11.7) | 0.9 (0.8–1.0) | 0.7 (0.6–0.8) | 0.2 (0.1–0.2) | 0.006 (0.002–0.02) | 1.6 (1.3–1.8) | 0.04 (0.03–0.1) | 0.3 (0.2–0.4) | 1.2 (1.0–1.4) | 0.1 (0.1–0.1) | 4.4 (4.0–4.9) | 0.9 (0.8–1.0) | 0.4 (0.3–0.5) | 0.4 (0.4–0.5) | 2.5 (2.1–2.9) |
| Tabasco | 169.4 (153.7–182.7) | 0.3 (0.3–0.4) | 121.2 (109.3–131.0) | 28.6 (25.8–31.5) | 16.3 (14.4–18.1) | 8.9 (7.8–10.2) | 3.5 (3.0–4.0) | 9.2 (7.9–10.5) | 0.9 (0.8–1.1) | 0.7 (0.6–0.9) | 0.2 (0.1–0.2) | 0.008 (0.003–0.02) | 1.6 (1.4–1.9) | 0.02 (0.02–0.03) | 0.1 (0.1–0.2) | 1.5 (1.3–1.7) | 0.1 (0.1–0.1) | 4.3 (3.8–4.8) | 0.5 (0.4–0.5) | 0.3 (0.3–0.4) | 0.3 (0.3–0.4) | 2.0 (1.7–2.3) |
| Tamaulipas | 153.9 (140.4–165.3) | 0.2 (0.2–0.3) | 111.7 (101.6–119.9) | 25.6 (23.4–28.0) | 13.5 (12.0–15.1) | 9.1 (8.0–10.2) | 3.0 (2.6–3.5) | 7.3 (6.4–8.3) | 0.7 (0.6–0.8) | 0.5 (0.5–0.6) | 0.1 (0.1–0.1) | 0.009 (0.003–0.02) | 1.0 (0.9–1.2) | 0.03 (0.02–0.03) | 0.1 (0.1–0.1) | 0.9 (0.8–1.0) | 0.04 (0.03–0.1) | 4.3 (3.8–4.7) | 0.5 (0.4–0.5) | 0.5 (0.4–0.6) | 0.3 (0.3–0.4) | 1.8 (1.6–2.1) |
| Tlaxcala | 136.5 (123.4–148.8) | 0.5 (0.4–0.6) | 95.0 (85.7–104.6) | 24.7 (21.5–28.2) | 13.2 (11.0–15.5) | 8.8 (7.4–10.3) | 2.8 (2.4–3.3) | 7.1 (6.0–8.6) | 0.8 (0.7–0.9) | 0.6 (0.5–0.7) | 0.2 (0.1–0.2) | 0.007 (0.003–0.02) | 0.7 (0.6–0.9) | 0.02 (0.01–0.03) | 0.1 (0.04–0.1) | 0.6 (0.5–0.8) | 0.1 (0.05–0.1) | 4.6 (3.9–5.3) | 0.3 (0.2–0.3) | 0.3 (0.2–0.3) | 0.3 (0.3–0.4) | 2.1 (1.8–2.5) |
| Veracruz de Ignacio de la Llave | 161.3 (149.8–171.0) | 0.3 (0.3–0.3) | 114.4 (105.7–121.7) | 29.6 (27.0–32.1) | 17.1 (15.3–19.0) | 9.0 (7.9–10.0) | 3.4 (3.0–3.9) | 7.6 (6.8–8.2) | 0.8 (0.7–0.9) | 0.7 (0.6–0.7) | 0.1 (0.1–0.2) | 0.007 (0.003–0.02) | 1.0 (0.9–1.2) | 0.03 (0.02–0.03) | 0.1 (0.1–0.2) | 0.9 (0.7–1.0) | 0.05 (0.04–0.1) | 4.5 (4.0–4.9) | 0.4 (0.4–0.5) | 0.4 (0.4–0.5) | 0.4 (0.3–0.4) | 1.9 (1.6–2.1) |
| Yucatán | 184.5 (165.2–198.3) | 0.3 (0.3–0.4) | 136.7 (122.2–148.2) | 33.0 (29.4–36.4) | 19.0 (16.8–21.2) | 10.4 (9.2–11.9) | 3.5 (3.0–4.1) | 4.8 (4.1–5.6) | 0.8 (0.7–1.0) | 0.7 (0.6–0.8) | 0.1 (0.1–0.1) | 0.005 (0.001–0.02) | 1.2 (1.0–1.4) | 0.04 (0.03–0.1) | 0.1 (0.1–0.2) | 1.0 (0.9–1.2) | 0.04 (0.03–0.1) | 4.7 (4.1–5.2) | 0.3 (0.3–0.4) | 0.4 (0.4–0.5) | 0.3 (0.3–0.4) | 1.7 (1.5–2.1) |
| Zacatecas | 142.2 (130.4–153.7) | 0.5 (0.4–0.6) | 95.0 (86.6–103.1) | 26.9 (24.5–29.7) | 14.4 (12.4–16.1) | 9.2 (8.2–10.6) | 3.3 (2.8–3.8) | 8.4 (7.2–9.8) | 0.8 (0.7–0.9) | 0.6 (0.5–0.6) | 0.2 (0.2–0.2) | 0.007 (0.003–0.02) | 1.1 (0.9–1.3) | 0.03 (0.02–0.04) | 0.1 (0.1–0.1) | 1.0 (0.8–1.1) | 0.1 (0.1–0.1) | 5.1 (4.5–5.7) | 0.5 (0.4–0.6) | 0.4 (0.3–0.4) | 0.5 (0.4–0.5) | 2.9 (2.5–3.5) |
| Nicaragua | 191.4 (167.1–216.2) | 0.5 (0.3–0.7) | 123.5 (106.9–140.0) | 39.1 (32.5–46.7) | 20.3 (16.5–24.9) | 15.3 (12.4–18.5) | 3.6 (2.6–4.7) | 15.3 (12.3–18.6) | 0.5 (0.3–0.7) | 0.4 (0.2–0.5) | 0.1 (0.1–0.2) | 0.02 (0.007–0.04) | 2.4 (1.7–3.2) | 0.02 (0.01–0.04) | 0.1 (0.1–0.3) | 2.2 (1.5–3.0) | 0.1 (0.03–0.4) | 6.1 (4.8–7.7) | 0.5 (0.3–0.6) | 0.1 (0.1–0.2) | 0.6 (0.4–0.8) | 2.7 (2.0–3.6) |
| Panama | 147.6 (134.1–157.9) | 0.4 (0.3–0.4) | 74.7 (67.8–80.7) | 46.7 (41.7–50.8) | 26.4 (22.8–29.3) | 15.8 (13.9–17.5) | 4.4 (3.8–5.1) | 9.0 (7.8–10.1) | 1.0 (0.8–1.1) | 0.6 (0.5–0.8) | 0.3 (0.2–0.4) | 0.01 (0.005–0.02) | 4.4 (3.6–5.1) | 0.03 (0.03–0.04) | 0.3 (0.1–0.2) | 4.2 (3.5–4.9) | 0.1 (0.1–0.1) | 6.0 (5.2–6.7) | 1.7 (1.4–2.0) | 1.0 (0.8–1.1) | 0.9 (0.8–1.0) | 2.0 (1.7–2.3) |
| Venezuela (Bolivarian Republic of) | 344.5 (323.4–366.5) | 0.4 (0.2–0.7) | 219.9 (172.1–254.6) | 83.2 (56.9–112.4) | 37.5 (27.2–51.1) | 38.1 (21.9–54.6) | 7.6 (3.8–13.8) | 24.1 (19.9–31.1) | 1.5 (1.2–2.0) | 0.9 (0.7–1.2) | 0.6 (0.4–0.8) | 0.01 (0.004–0.03) | 4.3 (2.8–7.0) | 0.1 (0.04–0.1) | 0.4 (0.2–0.8) | 3.9 (2.6–6.3) | 0.05 (0.04–0.1) | 5.9 (4.8–8.1) | 1.7 (1.3–2.2) | 0.4 (0.3–0.5) | 0.4 (0.3–0.5) | 2.7 (2.2–3.7) |
| Tropical Latin America | 148.3 (133.7–156.5) | 1.2 (1.1–1.2) | 61.4 (56.0–64.9) | 49.8 (44.7–52.9) | 28.1 (24.3–30.7) | 16.5 (15.2–17.5) | 5.2 (4.8–5.6) | 12.4 (10.8–13.5) | 2.2 (2.0–2.4) | 1.6 (1.4–1.7) | 0.6 (0.5–0.6) | 0.03 (0.02–0.1) | 5.9 (5.2–6.5) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 5.4 (4.7–5.9) | 0.3 (0.2–0.3) | 5.0 (4.2–5.6) | 3.9 (3.6–4.1) | 1.4 (1.3–1.6) | 1.2 (1.1–1.3) | 3.7 (3.3–4.0) |
| Brazil | 147.0 (132.2–155.1) | 1.2 (1.1–1.3) | 60.6 (55.2–64.1) | 49.4 (44.2–52.5) | 27.8 (24.0–30.5) | 16.3 (15.0–17.3) | 5.2 (4.8–5.6) | 12.2 (10.6–13.3) | 2.2 (2.0–2.4) | 1.6 (1.4–1.7) | 0.6 (0.5–0.6) | 0.03 (0.02–0.1) | 5.9 (5.3–6.6) | 0.1 (0.1–0.1) | 0.4 (0.4–0.5) | 5.4 (4.7–6.0) | 0.3 (0.2–0.3) | 5.0 (4.1–5.5) | 3.9 (3.6–4.2) | 1.5 (1.3–1.6) | 1.2 (1.1–1.3) | 3.7 (3.3–4.0) |
| Acre | 140.9 (125.2–154.6) | 1.2 (1.0–1.4) | 56.9 (49.7–62.9) | 50.7 (44.8–56.3) | 28.7 (24.4–33.0) | 16.3 (14.2–18.7) | 5.7 (4.9–6.6) | 13.4 (11.5–15.5) | 1.7 (1.4–2.0) | 1.2 (1.0–1.5) | 0.5 (0.4–0.6) | 0.04 (0.01–0.1) | 3.9 (3.2–4.7) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 3.4 (2.8–4.2) | 0.4 (0.3–0.4) | 5.2 (4.3–6.0) | 2.6 (2.1–3.1) | 0.6 (0.5–0.8) | 1.3 (1.2–1.5) | 3.1 (2.5–3.6) |
| Alagoas | 192.9 (174.7–208.9) | 1.3 (1.1–1.5) | 80.3 (71.3–87.9) | 70.7 (63.0–77.6) | 40.1 (34.5–45.4) | 24.2 (21.6–26.9) | 6.3 (5.4–7.3) | 18.7 (16.2–21.4) | 2.0 (1.7–2.4) | 1.3 (1.1–1.6) | 0.7 (0.6–0.8) | 0.03 (0.01–0.1) | 5.9 (5.0–6.9) | 0.1 (0.05–0.1) | 0.6 (0.4–0.8) | 5.3 (4.4–6.2) | 0.3 (0.3–0.4) | 5.0 (4.2–5.7) | 2.6 (2.1–3.0) | 1.0 (0.9–1.2) | 1.3 (1.1–1.4) | 3.7 (3.1–4.3) |
| Amapá | 150.3 (131.9–165.2) | 0.8 (0.7–0.9) | 57.6 (50.7–64.8) | 61.4 (53.4–68.2) | 35.7 (29.9–40.7) | 20.3 (17.7–22.9) | 5.5 (4.7–6.3) | 10.2 (8.6–12.0) | 2.2 (1.9–2.6) | 1.6 (1.4–1.9) | 0.5 (0.4–0.6) | 0.03 (0.01–0.1) | 4.6 (3.8–5.3) | 0.1 (0.1–0.2) | 0.7 (0.5–0.9) | 3.7 (3.0–4.4) | 0.3 (0.2–0.4) | 5.4 (4.4–6.2) | 2.6 (2.2–3.1) | 0.4 (0.4–0.5) | 1.2 (1.0–1.5) | 3.5 (2.8–4.1) |
| Amazonas | 145.3 (129.2–157.8) | 0.8 (0.7–1.0) | 52.5 (46.5–58.3) | 60.6 (54.0–66.7) | 35.9 (31.1–40.2) | 19.4 (17.3–21.6) | 5.3 (4.6–6.2) | 13.0 (11.3–15.4) | 2.0 (1.7–2.3) | 1.5 (1.3–1.7) | 0.5 (0.4–0.5) | 0.03 (0.01–0.1) | 3.6 (3.0–4.3) | 0.1 (0.1–0.1) | 0.5 (0.3–0.6) | 3.1 (2.6–3.7) | 0.3 (0.2–0.3) | 5.6 (4.7–6.5) | 2.4 (2.1–2.8) | 0.9 (0.7–1.0) | 0.9 (0.8–1.1) | 2.5 (2.1–2.9) |
| Bahia | 138.9 (123.5–149.2) | 1.3 (1.1–1.5) | 52.8 (46.7–56.9) | 53.9 (47.8–59.3) | 29.6 (25.2–33.4) | 18.7 (16.8–20.8) | 5.6 (4.8–6.3) | 12.4 (10.5–14.3) | 1.8 (1.5–2.0) | 1.2 (1.0–1.4) | 0.5 (0.4–0.6) | 0.03 (0.01–0.1) | 3.7 (3.1–4.3) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 3.2 (2.7–3.7) | 0.2 (0.2–0.2) | 4.7 (3.8–5.3) | 2.2 (1.9–2.6) | 1.5 (1.3–1.7) | 1.1 (1.0–1.3) | 3.3 (2.8–3.8) |
| Ceará | 134.4 (119.7–145.9) | 0.9 (0.8–1.0) | 56.6 (50.3–

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 158.9 (143.4–171.0) | 1.4 (1.2–1.6) | 69.8 (62.8–75.1) | 52.7 (47.4–57.7) | 27.6 (23.9–31.2) | 19.8 (17.8–22.0) | 5.3 (4.5–6.1) | 13.3 (11.5–15.1) | 2.2 (1.9–2.5) | 1.5 (1.3–1.7) | 0.7 (0.6–0.8) | 0.03 (0.01–0.1) | 4.1 (3.5–4.8) | 0.1 (0.04–0.1) | 0.5 (0.4–0.6) | 3.6 (3.0–4.1) | 0.2 (0.1–0.2) | 4.4 (3.7–4.9) | 4.3 (3.7–4.8) | 2.2 (1.9–2.5) | 0.9 (0.8–1.1) | 3.5 (3.0–4.1) |
| Pernambuco | 160.1 (144.1–176.1) | 0.8 (0.6–0.9) | 63.9 (55.8–71.0) | 60.2 (52.2–68.9) | 35.0 (29.2–41.3) | 19.2 (16.5–22.3) | 5.9 (5.1–6.9) | 18.5 (15.4–21.5) | 1.4 (1.1–1.6) | 0.9 (0.7–1.1) | 0.4 (0.3–0.5) | 0.03 (0.01–0.1) | 3.9 (3.1–4.8) | 0.1 (0.05–0.1) | 0.4 (0.3–0.5) | 3.4 (2.7–4.1) | 0.2 (0.2–0.3) | 5.0 (4.0–5.9) | 1.8 (1.5–2.2) | 0.7 (0.6–0.8) | 1.0 (0.8–1.1) | 2.7 (2.2–3.1) |
| Piauí | 163.3 (149.4–173.0) | 1.0 (0.9–1.1) | 69.5 (63.0–73.8) | 56.9 (51.2–61.0) | 27.7 (23.7–30.6) | 22.7 (20.6–24.9) | 6.5 (5.8–7.3) | 11.8 (10.2–13.4) | 2.0 (1.8–2.2) | 1.4 (1.2–1.6) | 0.5 (0.5–0.6) | 0.03 (0.01–0.1) | 5.9 (5.1–6.6) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 5.4 (4.7–6.1) | 0.2 (0.2–0.3) | 5.0 (4.2–5.6) | 3.5 (3.1–3.7) | 1.7 (1.5–1.9) | 1.3 (1.2–1.5) | 4.4 (3.9–5.0) |
| Rio de Janeiro | 139.2 (122.9–153.7) | 1.1 (0.9–1.3) | 68.9 (61.8–77.3) | 38.0 (32.6–43.2) | 22.1 (18.3–25.8) | 12.2 (10.2–14.4) | 3.7 (3.1–4.3) | 13.4 (11.4–15.6) | 1.7 (1.4–2.0) | 1.2 (1.0–1.4) | 0.4 (0.3–0.5) | 0.04 (0.02–0.1) | 3.2 (2.6–3.8) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 2.7 (2.2–3.3) | 0.2 (0.1–0.2) | 4.5 (3.7–5.4) | 3.5 (2.9–4.2) | 0.9 (0.7–1.1) | 1.0 (0.8–1.1) | 2.9 (2.4–3.3) |
| Rio Grande do Norte | 136.6 (121.8–146.6) | 0.9 (0.8–1.0) | 53.9 (48.3–58.3) | 47.9 (42.8–51.8) | 31.1 (26.7–34.2) | 12.9 (11.6–14.2) | 4.0 (3.5–4.5) | 12.6 (10.5–14.3) | 2.9 (2.5–3.2) | 2.2 (1.9–2.5) | 0.7 (0.6–0.7) | 0.04 (0.02–0.1) | 3.1 (2.6–3.5) | 0.1 (0.1–0.1) | 0.4 (0.3–0.5) | 2.6 (2.2–3.0) | 0.2 (0.2–0.3) | 5.8 (4.8–6.5) | 3.7 (3.3–4.0) | 1.5 (1.3–1.7) | 1.2 (1.0–1.3) | 2.9 (2.6–3.3) |
| Rio Grande do Sul | 157.5 (139.9–172.6) | 1.3 (1.1–1.5) | 62.6 (55.5–69.4) | 56.6 (50.4–62.9) | 32.8 (28.0–36.8) | 18.3 (15.9–20.5) | 5.5 (4.8–6.4) | 16.6 (14.1–19.1) | 2.2 (1.9–2.5) | 1.6 (1.3–1.9) | 0.6 (0.5–0.7) | 0.04 (0.01–0.1) | 4.4 (3.7–5.2) | 0.1 (0.1–0.1) | 0.3 (0.2–0.4) | 4.0 (3.3–4.7) | 0.2 (0.2–0.3) | 5.7 (4.8–6.6) | 2.6 (2.2–3.1) | 0.9 (0.7–1.0) | 1.1 (1.0–1.3) | 3.2 (2.8–3.7) |
| Rondônia | 161.3 (144.9–179.2) | 0.9 (0.8–1.1) | 62.5 (54.1–70.4) | 57.3 (50.8–65.6) | 34.0 (29.4–39.1) | 18.2 (15.4–21.6) | 5.1 (4.3–6.0) | 16.6 (14.2–19.2) | 1.8 (1.5–2.2) | 1.4 (1.2–1.7) | 0.4 (0.3–0.5) | 0.04 (0.01–0.1) | 8.3 (7.0–9.9) | 0.1 (0.1–0.2) | 0.7 (0.5–0.9) | 7.5 (6.4–8.9) | 0.3 (0.3–0.4) | 5.3 (4.4–6.1) | 2.9 (2.5–3.5) | 1.0 (0.9–1.2) | 0.9 (0.8–1.1) | 3.4 (2.9–3.9) |
| Roraima | 138.5 (122.6–149.8) | 1.2 (1.0–1.3) | 55.4 (49.5–59.7) | 44.7 (39.3–49.0) | 27.5 (23.2–31.0) | 12.9 (11.6–14.2) | 4.3 (3.8–4.8) | 12.4 (10.4–14.2) | 3.2 (2.8–3.6) | 2.5 (2.1–2.8) | 0.7 (0.6–0.8) | 0.03 (0.01–0.1) | 5.1 (4.3–5.8) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 4.7 (4.0–5.4) | 0.3 (0.2–0.3) | 5.3 (4.4–6.1) | 4.6 (4.1–5.1) | 1.4 (1.2–1.7) | 1.3 (1.1–1.5) | 3.6 (3.0–4.1) |
| Santa Catarina | 153.1 (138.5–162.6) | 1.1 (1.0–1.3) | 67.3 (61.0–72.1) | 42.8 (38.0–46.1) | 24.7 (21.3–27.4) | 13.2 (11.9–14.5) | 5.0 (4.4–5.5) | 10.9 (9.3–12.2) | 2.3 (2.0–2.6) | 1.7 (1.5–1.9) | 0.6 (0.5–0.7) | 0.03 (0.01–0.1) | 10.4 (8.9–11.8) | 0.1 (0.1–0.1) | 0.3 (0.2–0.4) | 9.9 (8.5–11.3) | 0.3 (0.2–0.3) | 5.0 (4.2–5.7) | 5.8 (5.2–6.2) | 1.5 (1.3–1.6) | 1.2 (1.1–1.3) | 4.5 (4.0–5.0) |
| São Paulo | 139.7 (122.9–152.1) | 1.4 (1.1–1.5) | 51.8 (45.1–57.1) | 55.6 (48.3–61.3) | 30.3 (25.2–34.9) | 20.1 (17.7–22.5) | 5.1 (4.4–5.9) | 11.8 (9.9–13.6) | 1.5 (1.2–1.7) | 1.0 (0.8–1.2) | 0.5 (0.4–0.6) | 0.03 (0.01–0.1) | 4.3 (3.5–5.0) | 0.1 (0.04–0.1) | 0.4 (0.3–0.6) | 3.8 (3.0–4.4) | 0.3 (0.3–0.4) | 4.9 (4.1–5.6) | 2.0 (1.6–2.3) | 1.2 (1.0–1.4) | 1.2 (1.0–1.3) | 3.9 (3.3–4.6) |
| Sergipe | 157.9 (140.1–174.8) | 1.1 (0.9–1.3) | 60.5 (54.1–67.2) | 56.4 (48.9–62.8) | 32.2 (26.6–36.7) | 18.6 (16.3–21.0) | 5.6 (4.8–6.4) | 18.9 (15.9–21.6) | 2.1 (1.8–2.5) | 1.3 (1.1–1.5) | 0.8 (0.6–0.9) | 0.04 (0.01–0.1) | 4.8 (3.9–5.6) | 0.1 (0.1–0.2) | 0.7 (0.5–0.9) | 4.0 (3.3–4.7) | 0.2 (0.2–0.3) | 5.2 (4.2–6.0) | 3.5 (2.9–4.2) | 1.1 (0.9–1.2) | 0.9 (0.8–1.1) | 3.3 (2.8–3.9) |
| Tocantins | 225.8 (200.8–250.3) | 0.9 (0.7–1.1) | 104.5 (92.2–119.0) | 74.9 (63.9–84.4) | 43.1 (36.7–50.6) | 25.7 (21.4–30.5) | 6.1 (4.7–7.5) | 22.0 (15.9–27.1) | 3.3 (2.2–4.3) | 2.6 (1.7–3.5) | 0.6 (0.3–1.0) | 0.03 (0.02–0.1) | 3.9 (3.0–5.0) | 0.1 (0.03–0.1) | 0.1 (0.1–0.4) | 3.7 (2.8–4.8) | 0.1 (0.04–0.3) | 8.1 (6.4–9.6) | 3.2 (2.5–4.0) | 0.6 (0.4–0.7) | 1.2 (0.9–1.7) | 3.0 (1.9–3.9) |
| Paraguay | **358.2 (320.3–390.9)** | **2.2 (1.5–3.1)** | **199.4 (175.4–224.4)** | **97.2 (79.7–117.1)** | **70.0 (55.8–88.1)** | **24.5 (17.0–35.4)** | **2.6 (1.9–3.7)** | **40.7 (31.8–52.5)** | **1.8 (1.3–2.4)** | **0.9 (0.6–1.3)** | **0.7 (0.5–1.2)** | **0.1 (0.1–0.2)** | **2.6 (1.8–4.1)** | **0.2 (0.1–0.4)** | **0.01 (0.004–0.03)** | **2.4 (1.6–3.8)** | **0.4 (0.3–0.6)** | **4.4 (3.4–5.5)** | **0.9 (0.8–1.1)** | **0.4 (0.3–0.4)** | **0.6 (0.5–0.8)** | **7.6 (5.7–9.7)** |
| **North Africa and Middle East** | 358.2 (320.3–390.9) | 2.2 (1.5–3.1) | 199.4 (175.4–224.4) | 97.2 (79.7–117.1) | 70.0 (55.8–88.1) | 24.5 (17.0–35.4) | 2.6 (1.9–3.7) | 40.7 (31.8–52.5) | 1.8 (1.3–2.4) | 0.9 (0.6–1.3) | 0.7 (0.5–1.2) | 0.1 (0.1–0.2) | 2.6 (1.8–4.1) | 0.2 (0.1–0.4) | 0.01 (0.004–0.03) | 2.4 (1.6–3.8) | 0.4 (0.3–0.6) | 4.4 (3.4–5.5) | 0.9 (0.8–1.1) | 0.4 (0.3–0.4) | 0.6 (0.5–0.8) | 7.6 (5.7–9.7) |
| Afghanistan | 587.0 (527.2–658.5) | 4.8 (1.6–8.7) | 244.9 (182.0–325.5) | 261.5 (204.3–327.5) | 182.5 (132.7–242.8) | 75.7 (46.7–118.9) | 3.2 (0.9–8.0) | 58.8 (29.4–113.6) | 1.2 (0.8–1.9) | 0.5 (0.3–0.8) | 0.7 (0.4–1.2) | 0.03 (0.01–0.1) | 3.4 (1.2–7.1) | 0.6 (0.2–1.3) | 0.02 (0.002–0.1) | 2.8 (0.9–5.9) | 0.7 (0.3–1.3) | 2.7 (1.8–3.9) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.6 (0.3–0.9) | 8.1 (4.0–15.8) |
| Algeria | 322.6 (263.7–391.7) | 1.6 (0.9–2.5) | 178.8 (139.8–224.3) | 82.7 (56.6–118.7) | 60.4 (38.4–90.7) | 20.1 (11.6–35.1) | 2.2 (1.2–3.8) | 42.6 (24.8–68.0) | 1.8 (1.1–2.8) | 1.0 (0.6–1.7) | 0.7 (0.4–1.3) | 0.1 (0.03–0.1) | 2.6 (1.4–4.8) | 0.2 (0.1–0.3) | 0.01 (0.003–0.03) | 2.4 (1.3–4.5) | 0.3 (0.1–0.6) | 4.2 (2.8–6.2) | 0.4 (0.2–0.7) | 0.2 (0.1–0.4) | 0.5 (0.3–0.7) | 6.9 (4.0–10.3) |
| Bahrain | 202.5 (169.2–233.4) | 0.5 (0.3–0.7) | 119.6 (99.3–141.7) | 47.1 (36.4–60.6) | 32.2 (24.0–41.3) | 13.4 (9.7–18.8) | 1.5 (0.9–2.3) | 18.8 (12.7–25.8) | 1.3 (0.9–1.9) | 1.0 (0.7–1.5) | 0.3 (0.2–0.5) | 0.006 (0.003–0.01) | 3.6 (2.3–5.3) | 0.05 (0.02–0.1) | 0.1 (0.03–0.2) | 3.5 (2.2–5.1) | 0.1 (0.1–0.3) | 5.0 (3.4–7.0) | 0.6 (0.4–0.8) | 1.5 (1.0–2.1) | 0.5 (0.3–0.7) | 3.8 (2.5–5.7) |
| Egypt | 703.8 (615.2–792.8) | 5.2 (3.7–6.9) | 441.0 (375.4–509.9) | 144.4 (109.0–195.2) | 113.8 (86.4–154.2) | 28.2 (17.6–48.9) | 2.4 (1.3–4.3) | 84.3 (57.0–114.3) | 1.9 (1.2–3.0) | 0.8 (0.5–1.3) | 0.9 (0.5–1.6) | 0.2 (0.1–0.4) | 3.1 (1.8–5.2) | 0.03 (0.01–0.1) | 0.001 (0.0003–0.005) | 3.1 (1.8–5.1) | 0.5 (0.3–0.9) | 5.1 (3.8–6.5) | 0.6 (0.4–0.8) | 0.2 (0.1–0.2) | 0.7 (0.5–0.9) | 16.8 (12.3–22.5) |
| Iran (Islamic Republic of) | 217.5 (179.8–250.6) | 1.2 (0.7–1.7) | 127.2 (104.5–149.1) | 47.1 (37.2–58.5) | 38.7 (29.8–48.8) | 7.3 (5.1–11.3) | 1.2 (0.8–1.7) | 28.1 (21.5–36.4) | 1.2 (0.8–1.8) | 0.5 (0.3–0.7) | 0.6 (0.3–1.0) | 0.2 (0.1–0.4) | 1.5 (1.0–2.1) | 0.1 (0.05–0.2) | 0.0008 (0.00005–0.002) | 1.4 (0.8–2.0) | 0.5 (0.3–0.9) | 4.0 (2.8–5.3) | 0.5 (0.3–0.8) | 0.2 (0.1–0.2) | 0.3 (0.2–0.5) | 5.5 (3.7–8.0) |
| Alborz | 230.3 (178.7–269.5) | 0.8 (0.4–1.2) | 156.0 (117.4–187.9) | 43.6 (28.1–60.0) | 37.0 (23.1–50.9) | 5.8 (3.7–9.3) | 0.8 (0.4–1.5) | 19.7 (14.1–28.9) | 0.8 (0.5–1.6) | 0.3 (0.2–0.5) | 0.4 (0.2–0.9) | 0.1 (0.03–0.2) | 1.1 (0.6–1.7) | 0.1 (0.03–0.1) | 0.0003 (0.00002–0.0008) | 1.0 (0.6–1.6) | 0.4 (0.2–0.7) | 3.9 (2.3–5.5) | 0.7 (0.3–1.0) | 0.1 (0.1–0.1) | 0.2 (0.1–0.3) | 3.1 (1.7–5.8) |
| Ardebil | 274.1 (227.0–313.5) | 1.1 (0.7–1.5) | 162.3 (132.8–190.7) | 54.2 (42.7–71.4) | 45.1 (35.0–59.2) | 8.2 (5.6–12.4) | 0.9 (0.4–1.6) | 33.7 (25.2–42.2) | 1.6 (1.0–2.4) | 0.7 (0.3–1.2) | 0.6 (0.3–1.2) | 0.3 (0.04–0.8) | 1.0 (0.5–2.1) | 0.1 (0.03–0.2) | 0.0008 (0.00004–0.002) | 0.9 (0.4–2.0) | 0.5 (0.3–0.9) | 4.3 (2.9–5.9) | 0.3 (0.2–0.4) | 0.1 (0.05–0.1) | 0.1 (0.05–0.4) | 15.0 (6.8–21.6) |
| Bushehr | 265.4 (213.7–305.2) | 0.7 (0.4–1.0) | 154.9 (123.9–182.9) | 66.9 (49.3–86.7) | 60.3 (42.5–77.2) | 5.8 (3.6–10.0) | 0.8 (0.3–1.5) | 28.6 (20.8–39.9) | 1.2 (0.7–1.9) | 0.2 (0.1–0.5) | 0.6 (0.3–1.3) | 0.3 (0.1–0.6) | 1.0 (0.5–1.9) | 0.1 (0.02–0.1) | 0.0005 (0.00004–0.001) | 0.9 (0.5–1.8) | 0.7 (0.3–1.3) | 4.9 (3.5–6.7) | 0.3 (0.2–0.4) | 1.0 (0.5–1.4) | 0.1 (0.1–0.3) | 5.2 (3.1–8.1) |
| Chahar Mahaal and Bakhtiari | 273.9 (222.7–314.0) | 3.7 (0.9–5.9) | 171.2 (138.3–202.4) | 48.1 (37.8–64.2) | 41.3 (31.4–54.5) | 5.8 (3.7–9.6) | 1.0 (0.5–1.6) | 33.4 (24.6–43.7) | 1.7 (1.0–2.4) | 0.6 (0.3–0.9) | 0.9 (0.5–1.5) | 0.3 (0.1–0.7) | 1.8 (1.1–2.5) | 0.1 (0.03–0.2) | 0.001 (0.00004–0.004) | 1.7 (1.0–2.4) | 0.5 (0.3–0.8) | 4.3 (3.1–5.6) | 1.4 (0.5–2.1) | 0.05 (0.03–0.1) | 0.8 (0.3–1.2) | 7.1 (4.7–9.8) |
| East Azarbayejan | 283.8 (238.2–328.1) | 1.7 (1.0–2.6) | 145.2 (112.5–180.0) | 60.4 (45.8–78.7) | 49.1 (37.9–64.7) | 9.7 (6.6–14.9) | 1.5 (0.9–2.3) | 56.3 (31.8–76.6) | 1.8 (1.2–2.5) | 0.7 (0.4–1.1) | 0.8 (0.5–1.4) | 0.3 (0.1–0.6) | 2.5 (1.6–3.4) | 0.2 (0.1–0.3) | 0.001 (0.00007–0.004) | 2.3 (1.5–3.3) | 0.6 (0.3–1.0) | 5.7 (3.9–7.8) | 1.4 (0.7–2.1) | 0.2 (0.1–0.3) | 0.4 (0.3–0.5) | 7.6 (5.0–11.2) |
| Fars | 204.8 (162.9–238.8) | 0.8 (0.5–1.2) | 115.3 (91.4–137.2) | 47.7 (34.9–60.2) | 41.0 (29.9–51.9) | 6.2 (4.3–9.9) | 0.6 (0.3–1.0) | 28.8 (19.0–38.3) | 1.0 (0.7–1.4) | 0.3 (0.2–0.5) | 0.4 (0.2–0.8) | 0.2 (0.1–0.5) | 1.0 (0.5–1.6) | 0.1 (0.03–0.1) | 0.0003 (0.00002–0.0007) | 0.9 (0.5–1.5) | 0.4 (0.2–0.9) | 3.9 (2.6–5.3) | 0.2 (0.1–0.3) | 0.1 (0.1–0.1) | 0.2 (0.1–0.3) | 5.3 (3.8–7.0) |
| Gilan | 243.5 (190.1–284.0) | 0.7 (0.5–1.1) | 154.9 (115.7–172.7) | 52.9 (37.3–66.4) | 43.2 (30.9–55.5) | 8.0 (5.5–12.5) | 1.0 (0.6–1.5) | 32.6 (20.7–42.9) | 0.8 (0.5–1.6) | 0.3 (0.1–0.7) | 0.4 (0.2–0.9) | 0.2 (0.1–0.3) | 0.7 (0.3–1.6) | 0.03 (0.01–0.1) | 0.0003 (0.00002–0.0007) | 0.6 (0.3–1.5) | 0.5 (0.2–0.9) | 4.4 (3.0–6.0) | 0.2 (0.1–0.3) | 0.1 (0.04–0.1) | 0.2 (0.1–0.3) | 5.7 (4.0–7.7) |
| Golestan | 240.9 (198.1–274.6) | 1.2 (0.8–1.7) | 145.7 (120.3–172.1) | 52.2 (40.0–66.3) | 45.5 (34.2–58.5) | 5.9 (3.9–8.8) | 0.8 (0.5–1.4) | 27.0 (20.2–33.6) | 1.0 (0.7–1.6) | 0.3 (0.2–0.6) | 0.5 (0.3–1.0) | 0.2 (0.1–0.4) | 0.9 (0.5–1.7) | 0.1 (0.03–0.1) | 0.0003 (0.00004–0.0008) | 0.9 (0.4–1.6) | 0.4 (0.3–0.8) | 3.4 (2.3–4.7) | 0.3 (0.2–0.4) | 0.1 (0.1–0.2) | 0.2 (0.1–0.4) | 8.3 (5.4–11.4) |
| Hamadan | 238.1 (194.2–276.4) | 0.9 (0.6–1.3) | 149.3 (117.8–181.1) | 49.1 (37.6–62.7) | 40.9 (30.5–53.2) | 6.9 (4.5–10.9) | 1.3 (0.8–2.0) | 25.2 (17.0–41.1) | 1.2 (0.8–1.8) | 0.4 (0.2–0.8) | 0.5 (0.2–1.1) | 0.3 (0.05–0.7) | 1.4 (0.8–2.1) | 0.2 (0.04–0.5) | 0.0009 (0.00004–0.003) | 1.2 (0.6–2.0) | 0.6 (0.3–1.0) | 4.0 (2.8–5.2) | 0.3 (0.2–0.4) | 0.1 (0.1–0.2) | 0.4 (0.3–0.5) | 5.5 (3.5–8.4) |
| Hormozgan | 217.2 (180.7–247.5) | 1.5 (0.8–2.2) | 127.9 (105.6–148.9) | 42.6 (33.1–53.8) | 35.4 (27.6–44.8) | 6.2 (4.4–10.0) | 0.9 (0.5–1.5) | 30.5 (21.0–39.2) | 1.3 (0.9–1.9) | 0.4 (0.2–0.7) | 0.7 (0.4–1.1) | 0.3 (0.1–0.6) | 1.1 (0.5–2.0) | 0.1 (0.04–0.2) | 0.0007 (0.00005–0.002) | 1.0 (0.5–1.9) | 0.4 (0.3–0.7) | 3.3 (2.2–4.3) | 0.1 (0.1–0.3) | 0.2 (0.1–0.3) | 0.3 (0.3–0.5) | 7.9 (5.3–10.6) |
| Ilam | 195.4 (162.2–229.6) | 0.8 (0.5–1.1) | 123.2 (100.3–147.6) | 34.4 (26.4–44.6) | 26.2 (20.0–33.4) | 7.3 (5.1–11.1) | 0.8 (0.5–1.2) | 25.0 (17.3–32.8) | 1.5 (0.8–2.1) | 0.6 (0.3–1.0) | 0.5 (0.3–1.0) | 0.3 (0.04–0.7) | 0.7 (0.3–1.6) | 0.04 (0.02–0.1) | 0.0003 (0.00004–0.0007) | 0.6 (0.3–1.5) | 0.5 (0.2–1.0) | 3.1 (2.3–4.1) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 0.2 (0.2–0.4) | 5.8 (3.9–7.6) |
| Isfahan | 205.7 (164.4–238.3) | 0.8 (0.5–1.2) | 124.0 (98.7–151.2) | 41.6 (30.5–54.5) | 34.4 (24.8–44.2) | 5.5 (3.8–8.7) | 1.7 (0.8–2.8) | 25.2 (18.2–35.2) | 1.5 (0.9–2.1) | 0.4 (0.2–0.7) | 0.7 (0.4–1.1) | 0.4 (0.1–0.8) | 1.2 (0.7–1.8) | 0.1 (0.04–0.2) | 0.0005 (0.00002–0.002) | 1.1 (0.6–1.7) | 0.5 (0.2–0.9) | 4.1 (2.8–5.4) | 0.7 (0.3–1.0) | 0.2 (0.1–0.3) | 0.6 (0.2–0.9) | 5.3 (3.7–7.4) |
| Kerman | 218.5 (181.0–255.1) | 1.1 (0.7–1.4) | 131.1 (106.5–154.3) | 43.9 (34.6–54.4) | 35.4 (27.9–44.8) | 7.2 (4.9–11.3) | 0.9 (0.5–1.4) | 27.8 (21.2–36.6) | 1.2 (0.8–1.7) | 0.3 (0.1–0.6) | 0.6 (0.4–1.1) | 0.3 (0.1–0.6) | 1.3 (0.7–2.0) | 0.1 (0.04–0.2) | 0.0006 (0.00004–0.002) | 1.2 (0.6–1.9) | 0.5 (0.3–0.9) | 4.3 (2.8–5.8) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 6.7 (4.6–8.8) |
| Kermanshah | 261.1 (210.5–298.5) | 0.8 (0.5–1.2) | 154.9 (126.8–177.3) | 59.7 (45.4–75.2) | 48.7 (37.2–61.7) | 10.0 (6.8–15.4) | 1.0 (0.6–1.5) | 29.7 (22.1–39.8) | 1.4 (0.9–1.9) | 0.3 (0.2–0.7) | 0.8 (0.4–1.2) | 0.3 (0.1–0.5) | 1.5 (0.9–2.3) | 0.2 (0.1–0.4) | 0.0007 (0.00004–0.002) | 1.4 (0.8–2.1) | 0.6 (0.3–1.1) | 4.4 (3.1–5.8) | 0.3 (0.2–0.5) | 0.1 (0.04–0.1) | 0.4 (0.3–0.6) | 7.2 (5.0–9.4) |
| Khorasan-e-Razavi | 209.2 (173.2–243.5) | 0.9 (0.6–1.3) | 114.2 (92.0–136.1) | 46.8 (36.5–61.0) | 35.7 (27.4–46.4) | 7.9 (5.3–12.5) | 3.1 (0.8–5.5) | 33.3 (24.4–43.0) | 1.3 (0.8–1.8) | 0.5 (0.3–0.8) | 0.6 (0.3–1.0) | 0.1 (0.1–0.3) | 1.4 (0.8–2.1) | 0.1 (0.1–0.2) | 0.0007 (0.00004–0.002) | 1.3 (0.7–2.0) | 0.5 (0.3–0.9) | 4.0 (2.7–5.3) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) | 5.9 (4.1–8.4) |
| Khuzestan | 269.5 (223.7–307.2) | 1.0 (0.7–1.4) | 166.7 (136.8–194.8) | 58.6 (45.4–73.9) | 51.2 (39.6–65.0) | 6.5 (4.5–10.2) | 0.9 (0.4–1.8) | 26.5 (19.7–38.6) | 1.5 (1.1–2.1) | 0.9 (0.4–1.3) | 0.5 (0.3–1.1) | 0.2 (0.1–0.4) | 3.1 (1.7–4.4) | 0.4 (0.1–0.9) | 0.002 (0.00009–0.005) | 2.7 (1.6–4.0) | 0.6 (0.3–1.0) | 3.7 (2.6–5.0) | 0.5 (0.3–0.7) | 0.2 (0.1–0.3) | 0.5 (0.3–0.6) | 6.7 (4.7–8.9) |
| Kohgiluyeh and Boyer-Ahmad | 204.6 (165.1–238.1) | 0.8 (0.5–1.2) | 132.1 (100.6–161.4) | 39.5 (28.0–54.7) | 31.3 (21.2–43.0) | 7.2 (4.5–10.2) | 1.0 (0.6–1.7) | 21.2 (13.0–32.8) | 0.9 (0.5–1.6) | 0.2 (0.1–0.5) | 0.7 (0.4–1.3) | 0.008 (0.0001–0.03) | 1.2 (0.6–2.0) | 0.1 (0.04–0.2) | 0.0005 (0.00004–0.001) | 1.1 (0.6–1.9) | 0.7 (0.3–1.5) | 3.1 (2.1–4.3) | 0.2 (0.2–0.4) | 0.009 (0.005–0.04) | 0.6 (0.3–0.9) | 4.1 (2.5–6.9) |
| Kurdistan | 215.3 (176.5–249.7) | 1.2 (0.8–1.7) | 122.9 (98.2–143.0) | 45.7 (36.3–57.6) | 34.3 (27.0–43.4) | 10.0 (7.1–14.8) | 1.4 (0.8–2.1) | 27.1 (23.9–41.8) | 1.2 (0.8–1.9) | 0.5 (0.3–0.9) | 0.6 (0.3–1.2) | 0.2 (0.02–0.4) | 1.2 (0.6–2.3) | 0.1 (0.04–0.2) | 0.0004 (0.00004–0.001) | 1.1 (0.6–2.2) | 0.5 (0.3–0.9) | 3.7 (2.5–4.8) | 0.4 (0.3–0.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 6.4 (4.1–9.3) |
| Lorestan | 275.0 (228.5–316.6) | 0.7 (0.4–1.2) | 162.0 (131.9–191.6) | 54.7 (42.1–71.5) | 43.4 (33.5–56.0) | 9.6 (6.8–15.6) | 1.6 (0.9–2.6) | 42.7 (25.2–57.3) | 1.3 (0.9–2.0) | 0.5 (0.3–0.8) | 0.6 (0.3–1.2) | 0.3 (0.1–0.6) | 3.7 (1.7–5.6) | 0.1 (0.04–0.2) | 0.004 (0.00008–0.01) | 3.6 (1.6–5.5) | 0.6 (0.3–1.2) | 4.4 (3.2–6.0) | 0.3 (0.2–0.5) | 0.1 (0.1–0.1) | 0.3 (0.2–0.4) | 4.1 (2.1–8.0) |
| Markazi | 209.7 (168.0–247.1) | 1.1 (0.7–1.6) | 110.7 (88.1–132.6) | 45.7 (35.6–56.7) | 37.9 (29.0–47.4) | 6.6 (4.4–10.3) | 1.2 (0.7–1.7) | 38.7 (27.4–49.7) | 1.9 (1.1–2.9) | 0.9 (0.4–1.5) | 0.7 (0.4–1.2) | 0.3 (0.1–0.7) | 0.9 (0.4–1.9) | 0.1 (0.03–0.2) | 0.0006 (0.00003–0.002) | 0.8 (0.3–1.8) | 0.5 (0.3–0.9) | 4.2 (2.9–5.4) | 0.4 (0.3–0.6) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 5.2 (3.0–8.8) |
| Mazandaran | 221.4 (177.2–261.3) | 0.7 (0.5–1.1) | 125.0 (98.3–151.0) | 46.5 (33.6–62.1) | 38.5 (27.3–52.7) | 7.1 (4.7–11.1) | 1.0 (0.6–1.7) | 37.1 (23.1–51.2) | 0.9 (0.5–1.7) | 0.3 (0.1–0.7) | 0.5 (0.2–0.9) | 0.1 (0.1–0.3) | 1.0 (0.5–1.7) | 0.1 (0.03–0.2) | 0.0006 (0.00003–0.002) | 0.9 (0.4–1.6) | 0.4 (0.2–0.8) | 4.6 (3.1–6.1) | 0.4 (0.3–0.7) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 4.3 (2.4–7.5) |
| North Khorasan | 239.8 (202.2–278.5) | 1.2 (0.8–1.8) | 126.0 (99.7–150.5) | 52.2 (40.6–68.7) | 43.3 (33.7–56.7) | 7.6 (5.1–12.3) | 1.3 (0.7–2.0) | 41.5 (31.4–52.4) | 1.5 (0.9–2.2) | 0.5 (0.3–0.8) | 0.6 (0.2–1.3) | 0.4 (0.1–0.9) | 1.4 (0.7–2.6) | 0.1 (0.1–0.3) | 0.0009 (0.00006–0.003) | 1.3 (0.6–2.4) | 0.6 (0.4–1.1) | 4.2 (2.9–5.5) | 0.3 (0.2–0.4) | 0.7 (0.5–1.0) | 1.4 (0.3–2.4) | 8.8 (5.8–11.8) |
| Qazvin | 226.6 (188.3–264.3) | 0.7 (0.5–1.0) | 133.2 (108.1–154.9) | 50.6 (39.6–64.0) | 35.6 (27.9–44.9) | 13.4 (9.3–20.5) | 1.5 (0.9–2.5) | 27.7 (20.7–39.2) | 1.3 (0.9–1.9) | 0.7 (0.4–1.0) | 0.5 (0.3–1.0) | 0.1 (0.02–0.2) | 1.0 (0.6–1.9) | 0.1 (0.03–0.1) | 0.0005 (0.00003–0.001) | 1.0 (0.5–1.8) | 0.7 (0.3–1.3) | 4.2 (3.0–5.6) | 0.5 (0.3–0.7) | 0.1 (0.1–0.2) | 0.3 (0.2–0.4) | 6.2 (4.0–8.6) |
| Qom | 398.5 (321.9–469.4) | 1.4 (0.8–2.1) | 262.8 (213.4–310.5) | 79.1 (54.1–100.7) | 61.2 (42.4–79.2) | 16.0 (10.4–24.6) | 1.9 (1.1–2.8) | 34.7 (23.0–53.9) | 2.1 (1.3–3.1) | 0.8 (0.4–1.3) | 0.9 (0.5–1.5) | 0.4 (0.1–0.8) | 1.6 (0.9–2.8) | 0.1 (0.04–0.2) | 0.0005 (0.00004–0.001) | 1.6 (0.9–2.6) | 0.7 (0.4–1.4) | 8.5 (4.6–11.7) | 0.9 (0.5–1.3) | 0.02 (0.008–0.1) | 0.5 (0.4–0.7) | 6.2 (3.7–9.8) |
| Semnan | 210.1 (172.6–244.1) | 0.6 (0.4–0.9) | 117.5 (95.3–138.1) | 48.0 (37.0–59.8) | 42.3 (32.3–52.5) | 4.7 (3.1–8.2) | 1.0 (0.5–1.5) | 32.1 (23.9–40.9) | 1.2 (0.8–1.8) | 0.6 (0.3–0.9) | 0.6 (0.3–1.0) | 0.1 (0.03–0.2) | 1.0 (0.5–1.9) | 0.1 (0.03–0.2) | 0.0004 (0.00003–0.001) | 0.9 (0.4–1.8) | 0.4 (0.2–0.7) | 4.0 (2.8–5.3) | 0.6 (0.3–0.9) | 0.1 (0.03–0.1) | 0.3 (0.2–0.4) | 4.3 (2.5–7.5) |
| Sistan and Baluchistan | 199.7 (162.4–240.2) | 3.0 (1.9–4.3) | 106.2 (84.6–126.7) | 43.9 (33.3–63.6) | 30.7 (23.3–42.4) | 11.8 (7.9–19.5) | 1.5 (0.8–2.6) | 30.5 (22.0–41.9) | 1.6 (1.0–2.3) | 0.4 (0.2–0.7) | 0.7 (0.3–1.3) | 0.4 (0.05–1.0) | 1.4 (0.6–2.8) | 0.2 (0.1–0.4) | 0.0008 (0.00009–0.002) | 1.2 (0.5–2.6) | 0.8 (0.5–1.3) | 3.1 (2.2–4.0) | 0.5 (0.3–0.6) | 0.01 (0.008–0.04) | 0.7 (0.4–1.0) | 8.1 (5.4–11.0) |
| South Khorasan | 204.1 (163.6–242.4) | 1.3 (0.8–1.9) | 113.2 (89.7–137.2) | 44.3 (34.4–58.5) | 35.5 (26.8–46.0) | 7.8 (5.0–12.6) | 1.1 (0.6–1.8) | 28.9 (18.2–46.0) | 1.2 (0.7–1.9) | 0.5 (0.3–0.8) | 0.5 (0.2–1.1) | 0.2 (0.1–0.4) | 0.8 (0.4–2.1) | 0.1 (0.02–0.1) | 0.0005 (0.00003–0.001) | 0.7 (0.3–1.9) | 0.7 (0.4–1.3) | 4.7 (3.2–6

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 283.4 (254.8–308.8) | 1.0 (0.7–1.5) | 145.6 (128.3–162.5) | 74.1 (63.7–87.0) | 58.7 (50.1–69.1) | 14.4 (11.3–18.9) | 1.0 (0.7–1.4) | 49.1 (35.2–60.9) | 0.8 (0.5–1.2) | 0.5 (0.3–0.7) | 0.3 (0.2–0.5) | 0.04 (0.02–0.1) | 3.2 (2.1–4.6) | 0.2 (0.1–0.4) | 0.03 (0.01–0.1) | 3.0 (1.9–4.3) | 0.1 (0.04–0.5) | 5.3 (3.9–6.6) | 0.8 (0.6–1.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 3.0 (2.2–4.2) |
| Palestine | 160.2 (129.0–190.5) | 0.8 (0.5–1.1) | 103.2 (78.0–126.7) | 29.8 (20.8–42.8) | 21.5 (14.6–31.2) | 6.5 (3.8–11.8) | 1.8 (1.0–2.8) | 15.0 (8.8–22.2) | 0.9 (0.5–1.6) | 0.7 (0.3–1.1) | 0.2 (0.1–0.5) | 0.04 (0.01–0.1) | 1.5 (0.9–2.2) | 0.1 (0.04–0.3) | 0.01 (0.003–0.03) | 1.3 (0.8–2.1) | 0.1 (0.04–0.3) | 5.8 (3.4–8.8) | 0.5 (0.3–0.8) | 0.3 (0.2–0.5) | 0.2 (0.1–0.3) | 2.1 (1.3–3.3) |
| Qatar | 350.4 (288.4–398.2) | 0.7 (0.4–1.0) | 179.8 (141.9–220.3) | 81.6 (56.8–103.4) | 57.6 (39.9–74.4) | 22.6 (14.2–30.6) | 1.3 (0.7–2.1) | 68.6 (50.9–89.7) | 1.3 (0.8–2.0) | 0.7 (0.4–1.1) | 0.6 (0.3–1.0) | 0.04 (0.01–0.1) | 4.9 (3.0–7.6) | 0.3 (0.1–0.5) | 0.1 (0.01–0.1) | 4.6 (2.7–7.3) | 0.1 (0.1–0.3) | 5.2 (3.8–7.0) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.5 (0.3–0.7) | 7.4 (4.8–10.6) |
| Saudi Arabia | 575.0 (493.4–655.3) | 3.2 (1.2–6.5) | 300.0 (226.9–386.6) | 195.4 (134.7–277.7) | 143.0 (94.4–205.9) | 49.0 (22.6–98.5) | 3.3 (1.3–7.3) | 55.6 (30.2–91.9) | 1.9 (1.0–3.2) | 1.0 (0.5–1.6) | 0.9 (0.4–1.6) | 0.1 (0.02–0.1) | 3.5 (1.5–7.1) | 0.3 (0.1–0.6) | 0.02 (0.003–0.1) | 3.2 (1.3–6.5) | 0.4 (0.2–0.8) | 4.6 (2.9–7.4) | 0.3 (0.1–0.6) | 0.2 (0.1–0.3) | 0.6 (0.4–1.0) | 9.2 (4.9–16.1) |
| Sudan | 489.4 (429.6–547.3) | 1.9 (1.1–3.0) | 327.8 (278.9–372.7) | 89.5 (69.4–117.8) | 58.7 (45.4–79.1) | 28.8 (19.7–44.8) | 1.9 (1.0–3.1) | 44.0 (32.4–59.9) | 3.8 (2.7–5.5) | 2.3 (1.4–3.3) | 1.4 (0.8–2.6) | 0.1 (0.04–0.2) | 2.4 (1.3–4.9) | 0.2 (0.1–0.3) | 0.01 (0.003–0.05) | 2.3 (1.2–4.6) | 0.1 (0.01–0.4) | 6.7 (4.6–9.8) | 0.4 (0.3–0.5) | 0.2 (0.2–0.3) | 0.2 (0.1–0.2) | 12.3 (8.9–16.8) |
| Syrian Arab Republic | 172.0 (142.9–198.9) | 1.5 (0.9–2.0) | 74.4 (61.4–87.9) | 63.1 (49.5–76.5) | 41.8 (33.2–52.2) | 19.3 (14.7–25.8) | 2.0 (1.3–2.8) | 15.6 (11.4–21.4) | 1.9 (1.2–2.7) | 1.4 (0.9–2.1) | 0.5 (0.3–0.9) | 0.02 (0.007–0.04) | 3.3 (2.1–4.6) | 0.2 (0.1–0.3) | 0.01 (0.003–0.03) | 3.1 (2.0–4.4) | 0.3 (0.1–0.7) | 4.0 (2.9–5.3) | 1.3 (1.0–1.8) | 0.2 (0.1–0.2) | 1.3 (1.0–1.9) | 5.1 (3.7–6.9) |
| Tunisia | 219.3 (183.3–253.5) | 0.8 (0.6–1.1) | 123.7 (99.7–150.5) | 57.0 (43.4–71.4) | 37.1 (27.1–47.6) | 16.3 (12.0–21.4) | 3.7 (2.5–5.1) | 22.6 (15.1–30.3) | 1.9 (1.3–2.9) | 1.0 (0.6–1.5) | 0.8 (0.5–1.4) | 0.1 (0.04–0.2) | 1.3 (0.9–1.8) | 0.03 (0.01–0.1) | 0.007 (0.002–0.02) | 1.2 (0.9–1.8) | 0.4 (0.3–0.5) | 3.9 (2.9–5.1) | 2.3 (1.7–3.0) | 0.8 (0.6–1.1) | 0.8 (0.6–1.1) | 3.7 (2.7–5.1) |
| Türkiye | 217.3 (169.5–258.6) | 1.8 (1.1–2.8) | 128.9 (93.8–163.8) | 55.6 (40.6–74.9) | 38.0 (27.1–50.7) | 14.9 (9.8–23.3) | 2.6 (1.5–4.2) | 12.8 (7.9–18.6) | 0.9 (0.5–1.4) | 0.8 (0.5–1.2) | 0.1 (0.02–0.1) | 0.03 (0.01–0.1) | 3.3 (2.0–5.1) | 0.2 (0.1–0.3) | 0.02 (0.006–0.1) | 3.1 (1.8–4.8) | 0.2 (0.1–0.4) | 3.6 (2.2–5.0) | 0.5 (0.3–0.7) | 0.7 (0.5–1.1) | 0.3 (0.2–0.5) | 8.9 (5.1–14.5) |
| United Arab Emirates | 483.8 (435.9–541.7) | 3.5 (1.5–6.6) | 228.6 (173.0–281.8) | 178.1 (132.6–229.0) | 127.4 (86.7–170.2) | 47.1 (27.8–84.0) | 3.5 (1.2–8.8) | 57.2 (32.8–94.7) | 1.5 (0.9–2.2) | 0.7 (0.4–1.1) | 0.7 (0.4–1.3) | 0.04 (0.01–0.1) | 3.3 (1.3–6.8) | 0.4 (0.2–0.9) | 0.02 (0.003–0.1) | 2.8 (1.1–6.1) | 0.4 (0.2–0.9) | 3.5 (2.4–4.9) | 0.3 (0.2–0.5) | 0.2 (0.1–0.2) | 0.5 (0.3–0.8) | 6.8 (4.5–10.7) |
| Yemen | 483.8 (435.9–541.7) | 3.5 (1.5–6.6) | 228.6 (173.0–281.8) | 178.1 (132.6–229.0) | 127.4 (86.7–170.2) | 47.1 (27.8–84.0) | 3.5 (1.2–8.8) | 57.2 (32.8–94.7) | 1.5 (0.9–2.2) | 0.7 (0.4–1.1) | 0.7 (0.4–1.3) | 0.04 (0.01–0.1) | 3.3 (1.3–6.8) | 0.4 (0.2–0.9) | 0.02 (0.003–0.1) | 2.8 (1.1–6.1) | 0.4 (0.2–0.9) | 3.5 (2.4–4.9) | 0.3 (0.2–0.5) | 0.2 (0.1–0.2) | 0.5 (0.3–0.8) | 6.8 (4.5–10.7) |
| **South Asia** | **284.2 (244.9–317.7)** | **15.5 (8.4–25.0)** | **129.9 (112.7–151.1)** | **93.7 (75.7–112.1)** | **44.1 (31.6–58.7)** | **45.5 (29.5–59.8)** | **4.2 (2.3–7.0)** | **25.5 (16.7–36.7)** | **1.4 (0.9–2.1)** | **1.0 (0.6–1.5)** | **0.4 (0.2–0.8)** | **0.02 (0.007–0.03)** | **6.5 (4.0–9.3)** | **0.3 (0.1–0.5)** | **0.2 (0.05–0.5)** | **6.0 (3.7–8.8)** | **0.4 (0.2–0.7)** | **4.8 (3.5–6.7)** | **1.4 (0.9–2.1)** | **0.4 (0.3–0.6)** | **0.8 (0.5–1.2)** | **3.9 (2.6–5.4)** |
| South Asia | 284.2 (244.9–317.7) | 15.5 (8.4–25.0) | 129.9 (112.7–151.1) | 93.7 (75.7–112.1) | 44.1 (31.6–58.7) | 45.5 (29.5–59.8) | 4.2 (2.3–7.0) | 25.5 (16.7–36.7) | 1.4 (0.9–2.1) | 1.0 (0.6–1.5) | 0.4 (0.2–0.8) | 0.02 (0.007–0.03) | 6.5 (4.0–9.3) | 0.3 (0.1–0.5) | 0.2 (0.05–0.5) | 6.0 (3.7–8.8) | 0.4 (0.2–0.7) | 4.8 (3.5–6.7) | 1.4 (0.9–2.1) | 0.4 (0.3–0.6) | 0.8 (0.5–1.2) | 3.9 (2.6–5.4) |
| Bangladesh | 379.7 (284.1–442.5) | 24.8 (11.2–43.2) | 159.9 (122.3–190.3) | 121.2 (85.8–153.3) | 58.0 (33.9–81.5) | 57.6 (39.8–78.9) | 5.6 (3.2–9.4) | 41.2 (23.3–72.3) | 2.3 (1.4–3.4) | 1.6 (1.0–2.5) | 0.7 (0.3–1.3) | 0.02 (0.01–0.1) | 10.5 (6.2–16.3) | 0.4 (0.2–0.8) | 0.3 (0.1–0.7) | 9.8 (5.8–15.4) | 0.7 (0.4–1.3) | 8.5 (5.7–11.7) | 2.0 (1.1–3.3) | 0.7 (0.4–1.0) | 1.2 (0.8–1.8) | 6.6 (4.2–10.4) |
| Bhutan | 211.2 (168.2–264.4) | 16.9 (5.1–36.9) | 80.1 (55.5–107.8) | 72.8 (52.3–98.2) | 30.5 (20.9–42.5) | 38.4 (23.6–56.6) | 3.8 (2.1–6.7) | 22.0 (14.0–33.2) | 1.3 (0.7–2.2) | 0.9 (0.5–1.5) | 0.4 (0.2–0.7) | 0.02 (0.006–0.04) | 6.4 (3.8–9.5) | 0.4 (0.2–0.7) | 0.1 (0.04–0.4) | 5.9 (3.5–8.7) | 0.5 (0.3–0.9) | 4.8 (3.3–6.5) | 1.1 (0.6–2.1) | 0.3 (0.2–0.5) | 0.9 (0.5–1.5) | 4.1 (2.7–6.1) |
| India | 279.1 (241.1–316.1) | 14.5 (8.0–23.3) | 127.8 (109.8–151.4) | 92.9 (74.4–113.0) | 43.6 (31.0–57.8) | 45.2 (28.2–59.7) | 4.1 (2.3–6.9) | 24.9 (15.9–38.1) | 1.4 (0.8–2.1) | 1.0 (0.6–1.4) | 0.4 (0.2–0.8) | 0.02 (0.007–0.03) | 6.2 (3.9–9.0) | 0.3 (0.1–0.5) | 0.2 (0.05–0.5) | 5.8 (3.6–8.5) | 0.3 (0.2–0.6) | 4.7 (3.4–6.7) | 1.4 (0.9–2.1) | 0.4 (0.3–0.6) | 0.8 (0.5–1.1) | 3.7 (2.5–5.2) |
| Andhra Pradesh | 332.0 (271.5–393.5) | 21.0 (9.8–36.4) | 182.4 (146.5–223.0) | 70.4 (48.7–96.2) | 30.4 (21.0–41.8) | 36.0 (22.7–51.7) | 4.2 (2.2–7.2) | 33.0 (19.3–50.9) | 1.9 (1.1–3.0) | 1.3 (0.7–2.0) | 0.6 (0.3–1.1) | 0.02 (0.01–0.05) | 8.4 (5.1–12.6) | 0.3 (0.1–0.6) | 0.2 (0.1–0.6) | 7.9 (4.7–11.7) | 0.5 (0.3–0.9) | 5.6 (3.8–8.4) | 2.1 (1.3–3.1) | 0.6 (0.3–0.9) | 1.1 (0.7–1.6) | 5.0 (3.1–6.9) |
| Arunachal Pradesh | 154.5 (121.1–187.9) | 12.5 (6.3–22.2) | 55.5 (41.7–72.7) | 50.5 (35.1–65.7) | 20.6 (12.9–30.2) | 26.8 (17.9–40.1) | 3.1 (1.8–5.4) | 19.6 (11.4–31.3) | 1.3 (0.7–2.0) | 0.9 (0.5–1.4) | 0.4 (0.2–0.7) | 0.01 (0.006–0.03) | 5.6 (3.1–8.3) | 0.2 (0.1–0.4) | 0.2 (0.04–0.4) | 5.2 (2.9–8.0) | 0.3 (0.2–0.5) | 3.9 (2.6–5.8) | 0.9 (0.5–1.9) | 0.4 (0.2–0.6) | 0.6 (0.4–1.0) | 3.3 (2.0–4.9) |
| Assam | 284.1 (236.4–336.2) | 12.6 (7.2–19.5) | 94.8 (73.6–127.9) | 138.5 (107.8–174.5) | 58.5 (38.6–79.2) | 73.7 (51.6–101.9) | 6.3 (3.3–10.7) | 21.8 (11.8–37.7) | 1.2 (0.7–1.9) | 0.8 (0.4–1.3) | 0.4 (0.2–0.7) | 0.01 (0.006–0.03) | 5.7 (3.1–9.0) | 0.2 (0.1–0.5) | 0.2 (0.04–0.4) | 5.3 (2.9–8.4) | 0.3 (0.1–0.5) | 3.9 (2.6–5.5) | 0.9 (0.5–1.8) | 0.4 (0.2–0.6) | 0.7 (0.5–1.1) | 3.4 (2.1–5.2) |
| Bihar | 349.6 (295.9–420.5) | 25.3 (13.1–41.8) | 186.0 (150.7–223.6) | 65.2 (44.8–107.7) | 31.0 (17.3–50.3) | 31.8 (13.6–56.9) | 2.3 (1.0–5.4) | 43.3 (25.8–74.5) | 2.3 (1.4–3.4) | 1.5 (0.9–2.3) | 0.7 (0.3–1.3) | 0.02 (0.01–0.1) | 9.9 (5.8–14.5) | 0.4 (0.2–0.8) | 0.2 (0.1–0.7) | 9.3 (5.3–13.8) | 0.6 (0.3–1.1) | 7.4 (5.1–10.7) | 1.8 (1.1–3.2) | 0.6 (0.4–0.9) | 1.2 (0.8–2.0) | 6.1 (3.7–9.8) |
| Chhattisgarh | 463.7 (385.3–553.3) | 27.5 (13.7–47.1) | 179.9 (138.0–232.0) | 182.2 (133.8–230.9) | 84.9 (56.9–120.4) | 90.7 (42.5–131.8) | 6.6 (2.9–14.5) | 42.8 (23.2–71.8) | 2.2 (1.2–3.5) | 1.5 (0.8–2.3) | 0.7 (0.4–1.3) | 0.03 (0.01–0.1) | 10.2 (5.3–17.5) | 0.5 (0.2–1.2) | 0.3 (0.1–0.7) | 9.4 (4.9–16.2) | 0.6 (0.3–1.1) | 8.1 (5.3–12.6) | 2.1 (1.3–3.4) | 0.6 (0.4–1.1) | 1.3 (0.8–2.0) | 6.2 (3.6–9.9) |
| Delhi | 210.7 (174.4–247.2) | 13.3 (4.3–19.7) | 132.8 (104.6–164.4) | 31.2 (20.0–44.8) | 18.6 (10.3–28.8) | 11.2 (5.2–18.4) | 1.4 (0.7–2.8) | 17.2 (10.6–26.9) | 1.2 (0.6–1.8) | 0.9 (0.5–1.4) | 0.3 (0.1–0.5) | 0.01 (0.006–0.03) | 4.5 (2.8–6.6) | 0.2 (0.1–0.3) | 0.1 (0.03–0.3) | 4.2 (2.6–6.2) | 0.2 (0.1–0.4) | 4.9 (3.4–7.1) | 1.6 (1.0–2.5) | 0.4 (0.2–0.7) | 0.5 (0.4–0.8) | 2.7 (1.7–4.1) |
| Goa | 276.0 (220.6–325.8) | 9.4 (5.1–14.3) | 168.6 (131.6–212.2) | 60.9 (41.7–81.1) | 29.2 (18.4–42.0) | 27.8 (18.5–39.4) | 3.9 (2.0–6.5) | 18.6 (11.6–27.4) | 1.4 (0.8–2.2) | 1.0 (0.6–1.6) | 0.4 (0.2–0.7) | 0.02 (0.007–0.04) | 5.6 (3.2–8.3) | 0.2 (0.1–0.3) | 0.1 (0.03–0.4) | 5.3 (3.1–7.8) | 0.3 (0.1–0.5) | 5.0 (3.3–7.3) | 1.5 (0.9–2.5) | 0.4 (0.2–0.7) | 0.7 (0.5–1.1) | 3.5 (2.2–5.1) |
| Gujarat | 257.2 (213.8–297.1) | 11.5 (6.6–17.6) | 115.8 (94.3–145.8) | 90.2 (67.5–115.7) | 43.0 (30.7–58.4) | 43.0 (28.6–57.9) | 4.3 (2.4–6.9) | 22.4 (13.9–33.2) | 1.3 (0.7–1.9) | 0.9 (0.5–1.4) | 0.4 (0.2–0.7) | 0.02 (0.007–0.03) | 5.8 (3.6–8.8) | 0.2 (0.1–0.5) | 0.2 (0.05–0.5) | 5.4 (3.3–8.1) | 0.3 (0.2–0.5) | 4.1 (2.7–6.1) | 1.4 (0.9–2.1) | 0.4 (0.2–0.6) | 0.7 (0.4–1.0) | 3.2 (2.1–4.6) |
| Haryana | 261.9 (215.8–315.0) | 11.6 (6.5–18.7) | 116.4 (90.4–153.9) | 92.2 (68.8–115.1) | 46.7 (29.6–65.3) | 41.3 (25.3–61.1) | 4.3 (2.2–7.2) | 22.3 (12.8–36.5) | 1.5 (0.8–2.3) | 1.1 (0.6–1.7) | 0.4 (0.2–0.8) | 0.02 (0.007–0.04) | 6.4 (3.9–9.6) | 0.2 (0.1–0.4) | 0.2 (0.1–0.6) | 6.0 (3.6–8.8) | 0.3 (0.1–0.5) | 4.9 (3.3–7.0) | 1.3 (0.7–2.4) | 0.5 (0.3–0.8) | 0.7 (0.5–1.1) | 3.8 (2.4–5.5) |
| Himachal Pradesh | 162.9 (133.4–193.1) | 9.2 (5.4–14.7) | 93.7 (74.4–116.5) | 27.0 (18.7–38.0) | 12.3 (8.1–17.9) | 13.2 (8.1–20.0) | 1.5 (0.9–2.7) | 17.5 (10.6–27.9) | 1.2 (0.7–1.8) | 0.8 (0.5–1.4) | 0.3 (0.2–0.6) | 0.01 (0.006–0.03) | 5.2 (3.0–7.8) | 0.2 (0.1–0.3) | 0.2 (0.04–0.4) | 4.8 (2.7–7.4) | 0.2 (0.1–0.4) | 3.5 (2.4–5.1) | 1.3 (0.8–2.1) | 0.4 (0.2–0.7) | 0.6 (0.4–0.8) | 3.1 (1.9–4.5) |
| Jammu & Kashmir and Ladakh | 190.3 (153.4–226.8) | 11.3 (5.0–20.3) | 112.1 (87.5–139.2) | 35.4 (25.2–48.2) | 13.9 (8.8–21.2) | 19.2 (12.5–27.9) | 2.4 (1.4–3.9) | 17.0 (10.2–27.6) | 1.1 (0.6–1.6) | 0.7 (0.4–1.2) | 0.3 (0.2–0.6) | 0.01 (0.005–0.03) | 5.1 (3.0–7.6) | 0.2 (0.1–0.3) | 0.2 (0.04–0.4) | 4.7 (2.8–7.1) | 0.2 (0.1–0.4) | 3.1 (2.1–4.5) | 1.0 (0.6–1.9) | 0.3 (0.2–0.5) | 0.7 (0.4–1.0) | 2.8 (1.8–4.0) |
| Jharkhand | 284.1 (241.2–337.4) | 20.0 (9.3–34.4) | 80.3 (61.0–109.3) | 137.8 (105.3–173.1) | 70.6 (37.3–90.2) | 61.0 (42.2–99.7) | 5.3 (2.6–10.0) | 26.4 (15.6–45.5) | 1.8 (0.8–2.2) | 1.0 (0.5–1.5) | 0.4 (0.2–0.9) | 0.02 (0.007–0.04) | 6.4 (3.8–10.0) | 0.3 (0.1–0.5) | 0.2 (0.1–0.5) | 6.0 (3.5–9.3) | 0.4 (0.2–0.6) | 4.8 (3.2–7.0) | 1.1 (0.6–2.0) | 0.4 (0.2–0.6) | 1.0 (0.7–1.6) | 4.0 (2.4–6.2) |
| Karnataka | 372.4 (319.2–442.7) | 16.6 (8.4–26.5) | 216.8 (184.0–262.1) | 77.5 (57.0–100.2) | 36.5 (26.2–50.1) | 37.6 (23.4–50.7) | 3.5 (1.8–6.2) | 35.1 (21.1–53.1) | 1.9 (1.2–2.9) | 1.3 (0.8–2.1) | 0.5 (0.3–1.1) | 0.02 (0.009–0.05) | 8.1 (5.0–12.3) | 0.3 (0.2–0.7) | 0.2 (0.04–0.4) | 7.6 (4.7–11.8) | 0.5 (0.2–0.9) | 7.3 (4.8–11.4) | 1.8 (1.0–2.7) | 0.6 (0.4–1.0) | 1.0 (0.6–1.4) | 5.3 (3.5–7.7) |
| Kerala | 261.4 (213.3–311.2) | 6.4 (4.0–9.1) | 100.7 (82.7–126.1) | 113.4 (76.0–142.0) | 65.7 (45.3–86.0) | 42.5 (26.3–57.6) | 5.2 (3.0–8.6) | 22.1 (14.0–31.5) | 1.4 (0.8–2.1) | 1.0 (0.6–1.6) | 0.4 (0.2–0.7) | 0.02 (0.007–0.03) | 5.0 (3.0–7.3) | 0.1 (0.1–0.2) | 0.1 (0.03–0.3) | 4.8 (2.9–7.0) | 0.2 (0.1–0.5) | 5.1 (3.4–7.5) | 2.4 (1.5–3.4) | 0.5 (0.3–0.7) | 0.7 (0.4–1.0) | 3.5 (2.4–5.0) |
| Madhya Pradesh | 259.3 (221.3–305.0) | 17.4 (9.0–29.6) | 126.7 (100.5–160.1) | 67.3 (47.7–90.1) | 30.2 (19.5–48.3) | 34.2 (18.5–48.8) | 2.8 (1.3–5.4) | 28.3 (17.5–44.6) | 1.4 (0.8–2.1) | 0.9 (0.5–1.5) | 0.4 (0.2–0.8) | 0.02 (0.007–0.04) | 6.7 (3.7–10.3) | 0.3 (0.2–0.6) | 0.2 (0.05–0.5) | 6.2 (3.4–9.6) | 0.4 (0.2–0.7) | 4.9 (3.2–7.4) | 1.2 (0.7–2.0) | 0.4 (0.2–0.7) | 0.9 (0.6–1.2) | 3.7 (2.3–5.7) |
| Maharashtra | 203.8 (169.8–236.3) | 8.1 (4.7–12.2) | 72.3 (58.9–90.1) | 92.0 (71.3–111.1) | 44.5 (31.3–57.5) | 43.1 (30.8–58.1) | 4.4 (2.8–6.7) | 17.7 (11.9–26.1) | 1.0 (0.6–1.5) | 0.7 (0.4–1.1) | 0.3 (0.2–0.6) | 0.01 (0.005–0.03) | 4.4 (2.8–6.3) | 0.2 (0.1–0.3) | 0.1 (0.03–0.3) | 4.1 (2.6–5.9) | 0.2 (0.1–0.4) | 3.5 (2.5–5.0) | 1.1 (0.7–1.7) | 0.3 (0.2–0.4) | 0.6 (0.4–0.8) | 2.6 (1.8–3.6) |
| Manipur | 218.0 (179.0–262.0) | 13.6 (8.3–20.4) | 84.3 (64.8–106.3) | 77.3 (56.8–98.4) | 33.1 (23.2–47.9) | 39.8 (27.7–54.4) | 4.5 (2.6–7.5) | 23.7 (13.8–39.7) | 1.6 (0.8–2.4) | 1.1 (0.6–1.8) | 0.4 (0.2–0.8) | 0.02 (0.007–0.04) | 6.4 (3.6–10.1) | 0.2 (0.1–0.4) | 0.2 (0.05–0.5) | 6.0 (3.4–9.1) | 0.3 (0.1–0.5) | 4.6 (3.0–6.8) | 1.4 (0.8–2.3) | 0.5 (0.3–0.8) | 0.8 (0.5–1.3) | 3.5 (2.2–5.1) |
| Meghalaya | 169.6 (136.5–211.1) | 14.2 (8.2–23.2) | 58.4 (43.5–77.6) | 53.5 (38.7–75.9) | 22.6 (14.2–32.7) | 27.9 (17.4–43.7) | 3.0 (1.6–5.8) | 24.5 (13.8–42.0) | 1.4 (0.8–2.3) | 1.0 (0.6–1.6) | 0.4 (0.2–0.8) | 0.02 (0.007–0.04) | 6.5 (3.8–10.0) | 0.2 (0.1–0.5) | 0.2 (0.05–0.6) | 6.0 (3.5–9.4) | 0.3 (0.2–0.6) | 4.5 (2.9–6.7) | 1.2 (0.7–2.1) | 0.5 (0.3–0.8) | 0.8 (0.5–1.2) | 3.8 (2.3–5.8) |
| Mizoram | 71.6 (53.7–98.8) | 5.6 (3.5–8.3) | 25.0 (17.7–36.0) | 21.6 (14.6–31.8) | 9.7 (6.5–13.7) | 10.3 (6.7–16.9) | 1.6 (0.9–3.0) | 10.3 (6.1–18.2) | 0.8 (0.5–1.3) | 0.6 (0.3–1.0) | 0.2 (0.1–0.4) | 0.009 (0.004–0.02) | 3.1 (1.6–4.7) | 0.1 (0.04–0.2) | 0.1 (0.03–0.3) | 2.9 (1.5–4.5) | 0.1 (0.1–0.3) | 2.2 (1.4–3.3) | 0.6 (0.3–1.1) | 0.3 (0.1–0.4) | 0.4 (0.2–0.6) | 1.7 (1.1–2.4) |
| Nagaland | 197.2 (160.0–238.2) | 10.0 (5.9–15.3) | 74.5 (56.1–96.3) | 73.7 (54.5–94.4) | 34.6 (23.6–47.7) | 35.2 (24.4–49.8) | 3.9 (2.2–6.4) | 21.6 (13.1–35.5) | 1.3 (0.7–2.1) | 0.9 (0.5–1.4) | 0.4 (0.2–0.7) | 0.02 (0.007–0.03) | 5.5 (3.3–8.2) | 0.2 (0.1–0.4) | 0.1 (0.04–0.4) | 5.2 (3.1–7.9) | 0.3 (0.1–0.5) | 4.4 (2.8–6.3) | 1.3 (0.8–2.2) | 0.4 (0.2–0.6) | 0.7 (0.4–1.0) | 3.5 (2.1–5.0) |
| Odisha | 224.9 (189.7–260.2) | 13.9 (7.7–22.1) | 63.8 (49.9–86.9) | 116.1 (91.7–140.5) | 47.2 (32.4–65.9) | 63.9 (39.7–83.0) | 5.0 (2.4–9.3) | 17.5 (9.9–30.4) | 0.9 (0.5–1.5) | 0.6 (0.3–1.0) | 0.3 (0.2–0.6) | 0.01 (0.005–0.03) | 4.8 (2.7–8.0) | 0.2 (0.1–0.5) | 0.1 (0.03–0.4) | 4.5 (2.5–7.4) | 0.3 (0.1–0.5) | 2.9 (2.0–4.1) | 0.8 (0.5–1.4) | 0.3 (0.1–0.4) | 0.7 (0.4–1.1) | 2.9 (1.7–4.5) |
| Other Union Territories | 251.7 (209.2–293.4) | 11.3 (6.5–17.5) | 155.3 (126.7–186.9) | 48.5 (34.7–65.7) | 22.8 (15.3–35.1) | 22.8 (14.0–32.9) | 2.9 (1.5–5.4) | 19.5 (12.5–29.7) | 1.3 (0.7–1.9) | 0.9 (0.5–1.4) | 0.4 (0.2–0.7) | 0.02 (0.007–0.03) | 5.5 (3.1–8.4) | 0.2 (0.1–0.4) | 0.1 (0.04–0.4) | 5.1 (2.9–7.8) | 0.3 (0.1–0.5) | 4.5 (3.0–6.7) | 1.3 (0.8–2.1) | 0.4 (0.2–0.6) | 0.7 (0.5–1.0) | 3.2 (2.1–4.6) |
| Punjab | 314.7 (264.6–365.0) | 11.6 (5.9–18.4) | 219.8 (183.8–258.8) | 42.1 (29.6–58.4) | 20.2 (13.1–29.5) | 19.7 (12.8–28.4) | 2.2 (1.2–3.9) | 22.6 (13.0–36.4) | 1.4 (0.9–2.0) | 1.0 (0.6–1.5) | 0.4 (0.2–0.7) | 0.02 (0.007–0.03) | 6.1 (3.8–8.9) | 0.2 (0.1–0.4) | 0.1 (0.04–0.4) | 5.7 (3.6–8.5) | 0.3 (0.2–0.6) | 4.6 (3.2–6.2) | 1.3 (0.8–2.4) | 0.4 (0.2–0.6) | 0.7 (0.5–1.1) | 3.9 (2.6–5.3) |
| Rajasthan | 202.6 (162.8–241.4) | 16.2 (8.1–27.5) | 100.2 (79.8–127.3) | 40.4 (27.6–59.7) | 19.2 (12.3–30.3) | 19.3 (9.7–29.5) | 1.9 (1.0–4.0) | 25.5 (14.3–45.2) | 1.5 (0.8–2.3) | 1.0 (0.6–1.6) | 0.4 (0.2–0.9) | 0.02 (0.007–0.04) | 6.6 (3.9–10.0) | 0.3 (0.1–0.5) | 0.2 (0.1–0.6) | 6.1 (3.7–9.5) | 0.4 (0.2–0.7) | 5.0 (3.3–7.5) | 1.7 (1.1–2.6) | 0.5 (0.3–0.7) | 0.8 (0.5–1.3) | 3.9 (2.4–5.7) |
| Sikkim | 131.5 (104.5–159.2) | 8.7 (4.6–14.9) | 68.2 (52.2–86.9) | 27.5 (19.1–37.9) | 13.5 (8.6–19.3) | 12.4 (8.2–18.5) | 1.5 (0.8–2.9) | 14.2 (8.9–20.7) | 1.0 (0.6–1.6) | 0.7 (0.4–1.1) | 0.3 (0.1–0.5) | 0.01 (0.005–0.02) | 4.2 (2.5–6.3) | 0.1 (0.1–0.3) | 0.1 (0.03–0.3) | 4.0 (2.3–6.0) | 0.2 (0.1–0.4) | 3.2 (2.2–4.5) | 1.0 (0.6–1.8) | 0.3 (0.2–0.5) | 0.5 (0.3–0.7) | 2.6 (1.6–3.7) |
| Tamil Nadu | 250.2 (210.8–303.7) | 12.5 (7.3–18.6) | 121.8 (101.7–149.5) | 79.3 (58.0–100.5) | 36.8 (26.6–49.3) | 38.4 (24.5–51.5) | 4.1 (2.4–6.8) | 19.7 (12.1–28.6) | 1.2 (0.7–1.8) | 0.8 (0.5–1.2) | 0.3 (0.2–0.7) | 0.02 (0.006–0.03) | 5.5 (3.4–7.9) | 0.2 (0.1–0.4) | 0.1 (0.04–0.4) | 5.1 (3.2–7.4) | 0.3 (0.1–0.5) | 4.0 (2.8–5.9) | 1.4 (1.0–2.0) | 0.4 (0.2–0.6) | 0.7 (0.5–1.1) | 3.4 (2.2–4.8) |
| Telangana | 568.0 (468.4–684.4) | 30.7 (12.8–54.3) | 345.1 (275.3–431.5) | 113.4 (78.2–155.2) | 50.3 (34.6–75.4) | 57.4 (32.6–80.6) | 5.7 (2.9–10.3) | 43.5 (26.1–66.9) | 2.7 (1.5–4.4) | 1.9 (1.0–3.0) | 0.8 (0.4–1.5) | 0.03 (0.01–0.1) | 11.4 (6.6–17.1) | 0.5 (0.2–0.9) | 0.3 (0.1–0.8) | 10.6 (6.0–15.9) | 0.7 (0.4–1.3) | 8.7 (5.7–13.2) | 2.8 (1.7–4.1) | 0.8 (0.4–1.3) | 1.4 (0.9–2.1) | 6.8 (4.2–9.5) |
| Tripura | 299.5 (242.7–355.8) | 15.1 (8.2–24.6) | 122.4 (92.5–159.2) | 116.6 (85.8–151.2) | 50.7 (34.3–72.9) | 59.5 (42.3–80.2) | 6.5 (3.8–10.7) | 25.2 (15.4–40.3) | 1.5 (0.8–2.3) | 1.1 (0.6–1.7) | 0.5 (0.2–0.9) | 0.02 (0.007–0.04) | 7.0 (4.0–10.6) | 0.3 (0.1–0.6) | 0.2 (0.1–0.6) | 6.5 (3.8–9.9) | 0.4 (0.2–0.7) | 4.7 (2.9–6.9) | 1.3 (0.7–2.4) | 0.5 (0.3–0.7) | 0.9 (0.6–1.3) | 4.0 (2.4–5.7) |
| Uttar Pradesh | 269.8 (225.3–333.3) | 13.3 (7.1–21.2) | 85.3 (65.2–115.0) | 132.4 (101.7–170.5) | 61.5 (36.1–94.0) | 66.2 (31.5–100.4) | 4.7 (1.8–10.5) | 23.1 (12.4–41.4) | 1.1 (0.6–1.9) | 0.8 (0.4–1.3) | 0.4 (0.2–0.7) | 0.01 (0.006–0.03) | 5.4 (2.9–8.6) | 0.3 (0.1–0.5) | 0.2 (0.04–0.5) | 5.0 (2.6–8.0) | 0.3 (0.1–0.5) | 4.1 (2.6–6.3) | 0.8 (0.4–1.5) | 0.4 (0.2–0.5) | 0.7 (0.4–1.1) | 3.0 (1.8–4.8) |
| Uttarakhand | 364.7 (289.7–449.5) | 19.8 (12.0–30.2) | 213.7 (164.8–272.8) | 69.5 (46.1–106.1) | 33.4 (20.6–54.5) | 32.8 (16.5–53.5) | 3.2 (1.5–6.7) | 34.0 (18.6–63.6) | 2.1 (1.2–3.4) | 1.4 (0.8–2.3) | 0.6 (0.3–1.2) | 0.03 (0.01–0.1) | 9.0 (4.8–14.6) | 0.4 (0.1–0.7) | 0.3 (0.1–0.7) | 8.3 (4.5–13.5) | 0.4 (0.2–0.7) | 7.3 (4.8–11.3) | 2.0 (1.2–3.3) | 0.7 (0.4–1.2) | 1.0 (0.6–1.6) | 5.1 (3.0–7.8) |
| West Bengal | 320.6 (255.1–370.5) | 11.8 (5.8–19.3) | 148.0 (121.2–178.5) | 117.8 (82.6–147.4) | 57.0 (34.8–77.8) | 55.2 (38.6–73.4) | 5.6 (3.2–8.9) | 24.2 (15.4–36.7) | 1.4 (0.9–2.1) | 1.0 (0.6–1.6) | 0.4 (0.2–0.8) | 0.02 (0.007–0.03) | 5.9 (3.8–8.5) | 0.2 (0.1–0.4) | 0.2 (0.04–0.4) | 5.6 (3.5–8.1) | 0.3 (0.2–0.6) | 4.8 (3.1–7.0) | 1.4 (0.9–2.3) | 0.5 (0.3–0.7) | 0.7 (0.5–1.0) | 3.7 (2.2–5.4) |
| Nepal | 205.7 (167.3–242.1) | 16.

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 390.3 | 5.0 | 147.9 | 193.8 | 68.9 | 116.6 | 8.3 | 32.4 | 0.3 | 0.1 | 0.2 | 0.01 | 2.7 | 0.7 | 0.2 | 1.8 | 0.4 | 5.6 | 0.7 | 0.1 | 0.2 | 1.1 |
| Democratic People's Republic of Korea | (331.5–446.8) | (2.0–9.8) | (98.1–194.3) | (147.8–259.8) | (38.6–115.6) | (83.6–175.3) | (2.1–21.6) | (18.1–56.1) | (0.1–0.8) | (0.05–0.3) | (0.04–0.6) | (0.004–0.04) | (1.1–5.0) | (0.3–1.5) | (0.1–1.1) | (0.7–3.6) | (0.1–0.9) | (2.8–8.4) | (0.4–1.1) | (0.05–0.1) | (0.1–0.5) | (0.6–1.8) |
| | 87.7 | 0.6 | 33.3 | 29.8 | 13.1 | 14.3 | 2.3 | 11.2 | 1.3 | 1.0 | 0.3 | 0.001 | 1.5 | 0.2 | 0.2 | 1.1 | 0.2 | 4.0 | 2.5 | 0.04 | 2.4 | 0.9 |
| Taiwan | (74.6–95.3) | (0.4–0.7) | (28.5–36.8) | (25.5–33.2) | (10.9–15.3) | (11.6–16.8) | (1.9–2.8) | (9.2–12.9) | (1.1–1.5) | (0.8–1.1) | (0.3–0.4) | (0.0004–0.003) | (1.2–1.8) | (0.2–0.3) | (0.1–0.2) | (0.9–1.3) | (0.1–0.2) | (3.1–4.5) | (2.2–2.8) | (0.04–0.1) | (2.0–2.7) | (0.8–1.0) |
| | 425.6 | 22.3 | 220.1 | 139.3 | 37.3 | 94.8 | 7.2 | 24.3 | 0.9 | 0.9 | 0.1 | 0.01 | 4.4 | 0.1 | 0.1 | 4.2 | 0.3 | 5.7 | 2.4 | 0.4 | 2.4 | 3.0 |
| Oceania | (364.1–482.7) | (11.2–36.5) | (177.0–260.4) | (107.1–176.8) | (25.6–53.4) | (71.9–123.7) | (4.0–13.7) | (16.6–35.3) | (0.6–1.4) | (0.5–1.3) | (0.03–0.1) | (0.004–0.02) | (2.4–7.3) | (0.05–0.2) | (0.03–0.3) | (2.3–6.9) | (0.1–0.9) | (4.2–7.3) | (1.7–3.3) | (0.2–0.6) | (1.5–3.5) | (2.0–4.3) |
| | 315.6 | 4.7 | 169.9 | 100.4 | 31.9 | 62.8 | 5.7 | 13.2 | 1.9 | 1.5 | 0.2 | 0.2 | 7.6 | 0.01 | 0.2 | 7.4 | 0.1 | 6.9 | 2.8 | 0.8 | 3.0 | 4.3 |
| American Samoa | (259.3–365.7) | (3.1–6.6) | (131.8–208.7) | (75.4–133.4) | (22.6–42.9) | (45.3–81.9) | (3.7–8.5) | (8.9–18.7) | (1.2–3.0) | (0.9–2.4) | (0.1–0.4) | (0.1–0.4) | (4.8–10.9) | (0.005–0.03) | (0.1–0.6) | (4.7–10.6) | (0.03–0.3) | (4.5–9.8) | (1.9–3.9) | (0.4–1.2) | (1.4–4.8) | (2.9–6.0) |
| | 302.7 | 1.9 | 131.6 | 66.8 | 24.9 | 36.7 | 5.3 | 82.0 | 0.1 | 0.1 | 0.002 | 0.0003 | 0.4 | 0.0009 | 0.0005 | 0.4 | 0.2 | 10.2 | 6.4 | 0.9 | 1.6 | 0.5 |
| Cook Islands | (261.0–345.4) | (1.1–2.7) | (98.0–163.6) | (49.3–91.2) | (17.5–35.7) | (24.9–52.0) | (2.7–9.5) | (59.0–108.2) | (0.1–0.2) | (0.1–0.2) | (0.0006–0.004) | (0.0001–0.0008) | (0.2–0.7) | (0.0004–0.002) | (0.0001–0.001) | (0.2–0.7) | (0.1–0.5) | (7.6–13.2) | (3.2–10.5) | (0.4–1.7) | (1.0–2.4) | (0.3–0.7) |
| | 445.5 | 6.7 | 222.4 | 173.0 | 62.6 | 102.2 | 8.2 | 21.0 | 1.6 | 1.2 | 0.3 | 0.1 | 2.2 | 0.004 | 0.1 | 2.2 | 0.1 | 8.7 | 1.5 | 2.1 | 1.0 | 5.0 |
| Micronesia (Federated States of) | (380.5–508.5) | (4.4–9.4) | (182.0–261.1) | (134.9–213.8) | (47.5–83.5) | (76.7–128.3) | (5.4–12.4) | (14.2–30.2) | (1.0–2.4) | (0.6–2.0) | (0.1–0.5) | (0.03–0.2) | (1.4–3.1) | (0.002–0.007) | (0.02–0.1) | (1.4–3.0) | (0.05–0.4) | (6.4–11.4) | (1.0–2.1) | (1.3–3.5) | (0.5–1.6) | (3.4–6.8) |
| | 420.6 | 7.8 | 253.3 | 114.2 | 35.7 | 70.5 | 8.0 | 25.6 | 0.5 | 0.4 | 0.1 | 0.007 | 3.4 | 0.1 | 0.01 | 3.3 | 0.1 | 6.3 | 3.6 | 0.3 | 2.5 | 3.2 |
| Fiji | (374.0–468.4) | (5.1–10.6) | (216.2–288.4) | (89.8–144.1) | (25.9–47.2) | (55.0–90.2) | (5.1–11.0) | (18.4–36.6) | (0.3–0.7) | (0.2–0.6) | (0.03–0.1) | (0.003–0.02) | (2.3–4.6) | (0.03–0.1) | (0.005–0.03) | (2.3–4.5) | (0.04–0.4) | (4.8–8.1) | (2.6–4.8) | (0.2–0.4) | (1.7–3.5) | (2.2–4.5) |
| | 254.8 | 3.1 | 178.1 | 49.5 | 12.0 | 30.1 | 7.3 | 7.8 | 1.0 | 0.7 | 0.3 | 0.002 | 3.3 | 0.1 | 0.1 | 3.1 | 0.2 | 4.0 | 2.5 | 1.0 | 1.7 | 2.7 |
| Guam | (236.9–270.2) | (2.6–3.6) | (164.9–189.9) | (44.1–54.4) | (10.1–14.1) | (26.6–33.4) | (6.2–8.5) | (6.7–9.1) | (0.8–1.2) | (0.6–0.9) | (0.2–0.3) | (0.0005–0.006) | (2.7–3.8) | (0.1–0.1) | (0.04–0.1) | (2.6–3.6) | (0.1–0.3) | (3.6–4.5) | (2.0–3.0) | (0.9–1.2) | (1.4–1.9) | (2.3–3.2) |
| | 214.0 | 5.1 | 90.1 | 99.5 | 26.2 | 66.5 | 6.8 | 8.5 | 2.0 | 1.8 | 0.2 | 0.007 | 2.4 | 0.3 | 0.1 | 2.0 | 0.1 | 1.8 | 0.2 | 0.2 | 1.1 | 2.9 |
| Kiribati | (178.8–255.8) | (3.1–8.0) | (66.9–115.2) | (72.1–131.2) | (16.3–39.0) | (46.9–92.2) | (3.5–11.0) | (5.0–13.2) | (1.1–3.3) | (1.0–3.0) | (0.1–0.4) | (0.002–0.02) | (1.2–4.0) | (0.1–0.6) | (0.04–0.4) | (1.0–3.3) | (0.04–0.3) | (1.2–2.7) | (0.1–0.3) | (0.1–0.3) | (0.6–1.9) | (1.7–4.5) |
| | 713.4 | 12.7 | 347.8 | 280.6 | 79.9 | 187.1 | 13.6 | 42.7 | 1.3 | 1.3 | 0.05 | 0.01 | 5.7 | 0.1 | 0.1 | 5.5 | 0.3 | 11.5 | 3.2 | 0.8 | 2.4 | 4.2 |
| Marshall Islands | (612.7–819.0) | (7.9–19.0) | (267.1–432.1) | (216.6–363.5) | (56.2–118.4) | (137.9–244.7) | (7.3–24.3) | (27.1–69.1) | (0.8–2.1) | (0.8–2.0) | (0.02–0.1) | (0.005–0.03) | (3.4–8.8) | (0.02–0.2) | (0.04–0.3) | (3.3–8.6) | (0.1–0.8) | (8.1–16.2) | (2.0–4.8) | (0.4–1.4) | (1.5–3.7) | (2.5–7.7) |
| | 818.5 | 13.8 | 412.7 | 318.8 | 92.2 | 207.4 | 19.1 | 40.3 | 1.6 | 1.5 | 0.1 | 0.02 | 6.9 | 0.1 | 0.1 | 6.6 | 0.3 | 11.8 | 4.0 | 0.6 | 2.9 | 4.8 |
| Nauru | (669.2–962.5) | (9.2–19.7) | (306.3–522.6) | (230.4–423.5) | (61.2–136.8) | (145.6–274.4) | (10.5–32.6) | (24.8–63.7) | (0.9–2.6) | (0.9–2.4) | (0.03–0.2) | (0.006–0.1) | (3.9–11.2) | (0.03–0.2) | (0.1–0.3) | (3.7–10.8) | (0.1–0.8) | (8.1–17.4) | (2.5–5.6) | (0.4–1.0) | (1.6–4.6) | (2.9–7.5) |
| | 346.2 | 4.8 | 187.2 | 119.1 | 40.5 | 71.3 | 7.3 | 18.7 | 0.8 | 0.8 | 0.04 | 0.01 | 2.9 | 0.04 | 0.1 | 2.8 | 0.1 | 6.3 | 2.3 | 0.3 | 1.4 | 2.2 |
| Niue | (286.6–405.4) | (3.1–7.0) | (140.0–234.6) | (86.5–164.3) | (26.1–59.5) | (49.4–97.2) | (4.2–12.2) | (11.6–28.7) | (0.5–1.4) | (0.4–1.3) | (0.01–0.1) | (0.004–0.04) | (1.6–4.6) | (0.01–0.1) | (0.02–0.1) | (1.6–4.5) | (0.04–0.3) | (4.4–9.2) | (1.4–3.2) | (0.2–0.4) | (0.8–2.3) | (1.4–3.4) |
| | 330.9 | 4.8 | 172.5 | 118.6 | 33.7 | 73.2 | 11.7 | 6.5 | 2.5 | 2.3 | 0.1 | 0.03 | 4.7 | 0.1 | 0.2 | 4.4 | 0.1 | 10.1 | 2.4 | 0.8 | 1.7 | 6.1 |
| Northern Mariana Islands | (285.3–376.3) | (3.0–7.0) | (139.6–208.2) | (93.5–148.6) | (24.4–46.3) | (54.7–92.8) | (7.6–18.2) | (3.7–11.6) | (1.3–4.5) | (1.3–4.1) | (0.02–0.4) | (0.0001–0.2) | (3.0–6.4) | (0.05–0.2) | (0.1–0.5) | (2.8–6.0) | (0.04–0.4) | (7.3–13.4) | (1.7–3.5) | (0.5–1.3) | (1.0–2.7) | (4.0–8.4) |
| | 393.8 | 7.0 | 226.7 | 135.2 | 53.4 | 74.5 | 7.3 | 9.5 | 0.9 | 0.8 | 0.03 | 0.009 | 2.8 | 0.03 | 0.04 | 2.7 | 0.1 | 5.4 | 1.7 | 0.4 | 1.1 | 2.9 |
| Palau | (342.9–442.2) | (4.5–10.0) | (182.0–271.3) | (100.0–172.6) | (37.8–73.4) | (53.6–97.3) | (4.5–11.1) | (5.8–13.8) | (0.5–1.4) | (0.5–1.4) | (0.01–0.1) | (0.003–0.02) | (1.8–4.4) | (0.01–0.1) | (0.01–0.1) | (1.7–4.3) | (0.03–0.4) | (3.8–7.4) | (1.0–2.9) | (0.2–0.8) | (0.7–1.7) | (2.0–4.1) |
| | 427.2 | 27.6 | 213.0 | 140.0 | 35.7 | 97.7 | 6.7 | 26.2 | 1.0 | 1.0 | 0.05 | 0.009 | 4.8 | 0.1 | 0.1 | 4.6 | 0.4 | 5.8 | 2.3 | 0.3 | 2.7 | 3.1 |
| Papua New Guinea | (356.7–498.1) | (13.0–47.0) | (158.9–266.0) | (100.9–186.9) | (20.9–56.9) | (65.9–133.1) | (3.3–14.6) | (17.1–40.0) | (0.6–1.7) | (0.6–1.5) | (0.02–0.1) | (0.003–0.02) | (2.3–8.4) | (0.1–0.2) | (0.03–0.3) | (2.2–8.0) | (0.1–1.0) | (3.9–7.9) | (1.5–3.4) | (0.2–0.6) | (1.5–4.1) | (1.8–4.8) |
| | 306.2 | 5.7 | 167.7 | 99.9 | 29.1 | 64.4 | 6.5 | 17.9 | 0.7 | 0.7 | 0.03 | 0.007 | 3.0 | 0.04 | 0.1 | 2.9 | 0.2 | 5.3 | 1.9 | 0.4 | 1.1 | 2.4 |
| Samoa | (253.9–359.9) | (3.4–9.2) | (127.6–215.5) | (70.5–133.2) | (17.7–43.3) | (46.0–93.3) | (3.2–11.0) | (11.5–28.9) | (0.4–1.2) | (0.4–1.1) | (0.01–0.1) | (0.003–0.02) | (1.7–4.7) | (0.02–0.1) | (0.02–0.2) | (1.6–4.6) | (0.05–0.5) | (3.6–7.9) | (1.2–2.7) | (0.2–0.6) | (0.6–1.7) | (1.3–4.2) |
| | 686.9 | 16.9 | 356.1 | 272.8 | 72.6 | 187.0 | 13.2 | 24.5 | 0.8 | 0.8 | 0.04 | 0.006 | 4.4 | 0.1 | 0.1 | 4.3 | 0.3 | 4.6 | 1.8 | 0.4 | 1.6 | 2.6 |
| Solomon Islands | (594.0–781.7) | (7.8–26.3) | (284.4–434.9) | (208.4–345.2) | (47.8–105.4) | (139.2–241.5) | (6.0–25.4) | (17.0–35.8) | (0.5–1.4) | (0.5–1.3) | (0.01–0.1) | (0.002–0.01) | (2.2–7.1) | (0.02–0.1) | (0.03–0.4) | (2.1–6.8) | (0.1–0.8) | (3.5–6.0) | (1.2–2.8) | (0.2–0.6) | (1.0–2.5) | (1.5–4.3) |
| | 304.9 | 3.1 | 170.2 | 102.8 | 39.9 | 57.8 | 5.1 | 15.5 | 0.7 | 0.6 | 0.02 | 0.008 | 2.1 | 0.03 | 0.04 | 2.1 | 0.1 | 5.3 | 2.1 | 0.3 | 1.0 | 1.7 |
| Tokelau | (253.0–354.1) | (2.0–4.9) | (132.1–208.0) | (72.4–137.9) | (27.4–59.4) | (39.0–84.1) | (2.9–8.6) | (9.8–23.5) | (0.4–1.1) | (0.4–1.0) | (0.009–0.1) | (0.002–0.02) | (1.2–3.4) | (0.008–0.1) | (0.01–0.1) | (1.2–3.3) | (0.02–0.3) | (3.6–7.4) | (1.2–3.1) | (0.2–0.5) | (0.6–1.5) | (1.1–2.5) |
| | 349.8 | 4.9 | 191.4 | 114.8 | 42.9 | 64.8 | 7.2 | 13.0 | 1.2 | 1.2 | 0.04 | 0.01 | 4.1 | 0.04 | 0.1 | 4.0 | 0.2 | 10.0 | 4.0 | 0.5 | 1.8 | 3.8 |
| Tonga | (289.2–410.0) | (2.9–7.6) | (152.9–239.3) | (80.1–159.4) | (22.5–65.8) | (42.7–98.5) | (2.8–13.1) | (8.5–19.2) | (0.7–2.0) | (0.7–2.0) | (0.02–0.1) | (0.004–0.03) | (2.4–6.4) | (0.01–0.1) | (0.02–0.2) | (2.3–6.2) | (0.1–0.7) | (6.5–15.0) | (2.6–5.7) | (0.3–0.9) | (1.1–2.8) | (2.3–5.9) |
| | 678.6 | 13.6 | 323.9 | 277.4 | 95.0 | 167.9 | 14.5 | 36.6 | 1.5 | 1.4 | 0.1 | 0.01 | 6.4 | 0.1 | 0.1 | 6.2 | 0.3 | 9.0 | 2.9 | 0.6 | 2.2 | 4.2 |
| Tuvalu | (587.5–787.3) | (9.1–20.2) | (230.6–422.7) | (188.7–389.5) | (47.4–134.8) | (103.5–248.2) | (6.8–25.5) | (22.0–56.2) | (0.8–2.5) | (0.8–2.4) | (0.02–0.2) | (0.004–0.03) | (3.6–9.7) | (0.03–0.3) | (0.03–0.3) | (3.6–9.4) | (0.1–0.7) | (6.0–13.1) | (1.6–4.9) | (0.3–1.0) | (1.3–3.4) | (2.6–6.5) |
| | 413.5 | 11.0 | 219.9 | 152.8 | 44.9 | 100.4 | 7.5 | 17.6 | 0.6 | 0.5 | 0.03 | 0.005 | 3.2 | 0.04 | 0.1 | 3.1 | 0.2 | 3.3 | 1.6 | 0.2 | 1.1 | 2.0 |
| Vanuatu | (345.4–474.9) | (6.0–16.5) | (163.7–276.2) | (115.6–200.9) | (28.8–66.9) | (72.7–139.5) | (3.6–13.6) | (11.4–26.7) | (0.3–1.0) | (0.3–0.9) | (0.01–0.1) | (0.002–0.01) | (1.7–5.0) | (0.02–0.1) | (0.02–0.2) | (1.6–4.8) | (0.1–0.5) | (2.2–4.6) | (1.1–2.3) | (0.1–0.4) | (0.6–1.8) | (1.2–3.0) |
| | 248.8 | 1.8 | 96.8 | 119.5 | 47.2 | 66.1 | 6.2 | 19.5 | 0.4 | 0.2 | 0.1 | 0.01 | 2.9 | 0.1 | 0.1 | 2.6 | 0.1 | 4.1 | 1.1 | 0.1 | 1.2 | 1.3 |
| Southeast Asia | (223.0–271.9) | (1.1–2.8) | (81.8–110.7) | (103.0–136.9) | (35.6–58.5) | (53.2–81.3) | (4.6–8.7) | (13.0–26.9) | (0.3–0.6) | (0.2–0.4) | (0.1–0.3) | (0.005–0.03) | (1.9–3.9) | (0.1–0.3) | (0.03–0.2) | (1.8–3.6) | (0.05–0.4) | (3.1–5.1) | (0.9–1.3) | (0.1–0.2) | (0.9–1.7) | (0.9–2.0) |
| | 262.9 | 3.4 | 108.6 | 118.1 | 44.8 | 68.8 | 4.6 | 22.7 | 0.2 | 0.1 | 0.1 | 0.007 | 3.2 | 0.3 | 0.1 | 2.9 | 0.2 | 3.6 | 0.6 | 0.1 | 0.9 | 1.3 |
| Cambodia | (225.9–313.6) | (1.9–6.1) | (80.6–136.9) | (92.2–147.5) | (32.2–64.7) | (48.7–90.2) | (2.5–8.5) | (11.9–41.3) | (0.1–0.5) | (0.1–0.3) | (0.02–0.3) | (0.002–0.02) | (1.9–5.0) | (0.1–0.6) | (0.03–0.2) | (1.6–4.4) | (0.05–0.5) | (2.4–5.2) | (0.4–1.0) | (0.1–0.2) | (0.5–1.6) | (0.7–2.6) |
| | 277.2 | 1.8 | 105.3 | 138.8 | 52.2 | 80.7 | 5.9 | 22.2 | 0.2 | 0.1 | 0.1 | 0.009 | 3.0 | 0.2 | 0.1 | 2.7 | 0.1 | 3.3 | 0.5 | 0.1 | 0.8 | 1.2 |
| Indonesia | (240.3–313.1) | (0.9–3.0) | (81.5–129.2) | (113.4–168.2) | (30.4–72.5) | (59.3–108.7) | (3.3–10.2) | (13.0–33.2) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.003–0.02) | (1.7–4.5) | (0.1–0.3) | (0.02–0.2) | (1.5–4.2) | (0.03–0.3) | (2.3–4.4) | (0.3–0.9) | (0.1–0.2) | (0.4–1.4) | (0.7–2.3) |
| | 251.4 | 1.8 | 96.7 | 123.6 | 45.1 | 73.3 | 5.3 | 20.7 | 0.2 | 0.1 | 0.1 | 0.009 | 2.9 | 0.2 | 0.1 | 2.6 | 0.1 | 2.9 | 0.4 | 0.1 | 0.8 | 1.2 |
| Aceh | (209.3–299.8) | (0.9–2.9) | (70.5–123.3) | (97.8–157.0) | (26.9–64.1) | (51.8–101.8) | (2.6–10.0) | (11.4–32.2) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.003–0.02) | (1.5–4.7) | (0.1–0.3) | (0.02–0.2) | (1.4–4.2) | (0.03–0.3) | (2.0–3.9) | (0.3–0.9) | (0.1–0.2) | (0.4–1.5) | (0.7–2.3) |
| | 196.4 | 1.2 | 73.9 | 97.4 | 34.6 | 58.5 | 4.3 | 16.8 | 0.2 | 0.1 | 0.1 | 0.007 | 2.1 | 0.1 | 0.1 | 1.9 | 0.1 | 2.7 | 0.4 | 0.1 | 0.6 | 0.9 |
| Bali | (159.9–230.5) | (0.6–2.1) | (54.3–95.3) | (75.8–123.4) | (21.5–48.6) | (42.9–79.2) | (2.5–6.9) | (9.5–25.3) | (0.1–0.4) | (0.04–0.2) | (0.01–0.2) | (0.002–0.02) | (1.2–3.2) | (0.05–0.2) | (0.01–0.1) | (1.2–2.9) | (0.02–0.3) | (1.8–3.8) | (0.2–0.7) | (0.05–0.1) | (0.3–1.0) | (0.5–1.6) |
| | 269.5 | 1.3 | 99.8 | 143.2 | 53.6 | 84.1 | 5.5 | 17.8 | 0.2 | 0.1 | 0.1 | 0.007 | 2.4 | 0.2 | 0.1 | 2.2 | 0.1 | 2.6 | 0.4 | 0.1 | 0.6 | 0.9 |
| Bangka-Belitung Islands | (225.1–323.0) | (0.6–2.3) | (73.2–127.9) | (112.8–182.9) | (29.1–79.4) | (58.6–117.6) | (2.6–10.5) | (10.0–27.7) | (0.1–0.4) | (0.04–0.2) | (0.02–0.2) | (0.002–0.02) | (1.2–3.9) | (0.1–0.3) | (0.01–0.1) | (1.2–3.6) | (0.02–0.2) | (1.8–3.6) | (0.2–0.8) | (0.1–0.1) | (0.3–1.1) | (0.5–1.8) |
| | 288.2 | 1.9 | 115.1 | 138.4 | 50.3 | 82.1 | 6.0 | 23.2 | 0.2 | 0.1 | 0.1 | 0.009 | 3.1 | 0.2 | 0.1 | 2.9 | 0.1 | 3.4 | 0.5 | 0.1 | 0.8 | 1.2 |
| Banten | (238.3–337.3) | (0.9–3.2) | (86.6–147.6) | (107.1–173.3) | (31.2–73.3) | (58.1–111.5) | (3.1–11.7) | (12.3–36.0) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.003–0.03) | (1.7–5.0) | (0.1–0.4) | (0.02–0.2) | (1.5–4.7) | (0.03–0.3) | (2.3–4.6) | (0.3–0.9) | (0.1–0.2) | (0.5–1.5) | (0.7–2.3) |
| | 282.8 | 2.0 | 102.8 | 147.7 | 52.7 | 88.9 | 6.1 | 21.4 | 0.2 | 0.1 | 0.1 | 0.008 | 3.0 | 0.2 | 0.1 | 2.8 | 0.1 | 2.9 | 0.4 | 0.1 | 0.8 | 1.2 |
| Bengkulu | (235.3–327.8) | (1.0–3.2) | (73.8–130.1) | (114.9–182.2) | (26.8–78.8) | (60.9–125.1) | (3.3–10.2) | (12.8–33.9) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.002–0.02) | (1.7–4.8) | (0.1–0.4) | (0.02–0.3) | (1.5–4.5) | (0.03–0.3) | (1.9–3.9) | (0.2–0.9) | (0.1–0.2) | (0.4–1.4) | (0.7–2.2) |
| | 275.5 | 2.3 | 74.6 | 155.3 | 55.5 | 93.6 | 6.2 | 31.3 | 0.3 | 0.2 | 0.1 | 0.009 | 4.2 | 0.2 | 0.1 | 3.8 | 0.1 | 4.0 | 0.6 | 0.2 | 1.0 | 1.6 |
| Gorontalo | (222.1–321.2) | (1.3–3.4) | (50.9–100.4) | (121.6–191.2) | (30.5–80.2) | (65.9–127.8) | (3.6–11.0) | (18.7–48.6) | (0.1–0.7) | (0.1–0.4) | (0.02–0.3) | (0.003–0.02) | (2.2–7.0) | (0.1–0.4) | (0.03–0.4) | (2.0–6.4) | (0.04–0.4) | (2.8–5.4) | (0.3–1.3) | (0.1–0.3) | (0.5–2.1) | (0.9–3.2) |
| | 250.8 | 0.8 | 117.4 | 108.6 | 50.4 | 53.5 | 4.8 | 15.8 | 0.2 | 0.1 | 0.1 | 0.01 | 2.1 | 0.1 | 0.05 | 2.0 | 0.1 | 3.1 | 1.0 | 0.1 | 0.6 | 1.0 |
| Jakarta | (205.4–290.4) | (0.3–1.5) | (89.9–145.6) | (83.3–135.7) | (34.9–70.2) | (36.4–72.2) | (2.4–8.5) | (8.0–24.2) | (0.1–0.5) | (0.1–0.3) | (0.01–0.2) | (0.003–0.03) | (1.1–3.4) | (0.1–0.3) | (0.009–0.1) | (1.0–3.2) | (0.02–0.2) | (2.1–4.2) | (0.4–1.7) | (0.1–0.2) | (0.3–1.1) | (0.5–1.8) |
| | 252.1 | 1.6 | 96.6 | 137.6 | 52.5 | 79.9 | 5.3 | 19.3 | 0.2 | 0.1 | 0.1 | 0.008 | 2.7 | 0.2 | 0.1 | 2.4 | 0.1 | 2.9 | 0.4 | 0.1 | 0.7 | 1.1 |
| Jambi | (211.3–298.4) | (0.8–2.7) | (59.5–112.1) | (108.8–177.8) | (28.6–80.1) | (55.8–111.0) | (2.8–9.5) | (11.1–30.6) | (0.1–0.5) | (0.05–0.3) | (0.02–0.2) | (0.002–0.02) | (1.5–4.2) | (0.1–0.3) | (0.02–0.2) | (1.3–3.9) | (0.03–0.3) | (1.9–3.8) | (0.2–0.9) | (0.1–0.2) | (0.3–1.2) | (0.6–2.0) |
| | 291.2 | 1.9 | 122.4 | 134.1 | 58.1 | 70.3 | 5.8 | 23.0 | 0.2 | 0.1 | 0.1 | 0.009 | 3.1 | 0.2 | 0.1 | 2.8 | 0.1 | 3.5 | 0.8 | 0.1 | 0.8 | 1.3 |
| West Java | (254.1–330.8) | (0.9–3.2) | (98.4–151.2) | (107.4–161.0) | (36.4–78.7) | (50.0–93.6) | (3.4–9.7) | (13.3–33.9) | (0.1–0.5) | (0.1–0.3) | (0.02–0.3) | (0.003–0.03) | (1.8–4.8) | (0.1–0.3) | (0.02–0.2) | (1.7–4.4) | (0.03–0.3) | (2.6–4.6) | (0.5–1.2) | (0.1–0.2) | (0.5–1.4) | (0.7–2.3) |
| | 279.3 | 1.8 | 93.6 | 152.5 | 57.1 | 88.6 | 6.7 | 22.5 | 0.2 | 0.1 | 0.1 | 0.009 | 2.9 | 0.2 | 0.1 | 2.7 | 0.1 | 3.3 | 0.4 | 0.1 | 0.7 | 1.2 |
| Central Java | (232.2–335.0) | (0.9–3.1) | (74.4–117.7) | (120.7–188.8) | (29.0–83.5) | (63.6–118.1) | (3.8–11.2) | (12.8–34.8) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.003–0.02) | (1.7–4.3) | (0.1–0.3) | (0.02–0.2) | (1.6–4.0) | (0.03–0.3) | (2.2–4.5) | (0.3–0.9) | (0.1–0.2) | (0.4–1.3) | (0.7–2.1) |
| | 286.7 | 1.8 | 111.1 | 141.5 | 50.4 | 85.1 | 5.9 | 22.9 | 0.2 | 0.1 | 0.1 | 0.009 | 3.1 | 0.2 | 0.1 | 2.9 | 0.1 | 3.3 | 0.5 | 0.1 | 0.8 | 1.3 |
| East Java | (238.7–334.3) | (0.9–3.0) | (85.7–141.8) | (111.7–172.4) | (29.1–72.5) | (63.1–117.0) | (3.3–10.8) | (13.1–35.0) | (0.1–0.5) | (0.1–0.3) | (0.02–0.3) | (0.003–0.03) | (1.8–4.9) | (0.1–0.3) | (0.02–0.2) | (1.6–4.5) | (0.03–0.3) | (2.2–4.5) | (0.3–0.9) | (0.1–0.2) | (0.4–1.5) | (0.7–2.5) |
| | 299.6 | 2.4 | 115.6 | 144.4 | 53.3 | 85.3 | 5.8 | 26.3 | 0.3 | 0.2 | 0.1 | 0.01 | 3.6 | 0.2 | 0.1 | 3.3 | 0.1 | 3.9 | 0.5 | 0.1 | 0.9 | 1.4 |
| West Kalimantan | (244.9–358.5) | (1.1–4.2) | (83.6–146.4) | (111.1–178.1) | (30.4–76.9) | (58.8–114.9) | (3.0–10.6) | (15.2–41.0) | (0.1–0.6) | (0.1–0.3) | (0.02–0.3) | (0.003–0.03) | (2.1–5.6) | (0.1–0.5) | (0.02–0.2) | (1.8–5.3) | (0.04–0.4) | (2.7–5.3) | (0.3–1.1) | (0.1–0.2) | (0.5–1.6) | (0.8–2.4) |
| | 374.0 | 2.5 | 125.9 | 208.9 | 74.6 | 126.1 | 8.2 | 26.2 | 0.3 | 0.1 | 0.1 | 0.01 | 3.6 | 0.3 | 0.1 | 3.3 | 0.1 | 3.4 | 0.5 | 0.1 | 1.0 | 1.5 |
| South Kalimantan | (315.6–436.3) | (1.2–4.2) | (92.0–164.3) | (167.7–262.4) | (40.7–109.1) | (87.1–170.1) | (4.1–17.3) | (15.4–41.9) | (0.1–0.6) | (0.1–0.3) | (0.02–0.3) | (0.003–0.03) | (1.8–6.1) | (0.1–0.6) | (0.02–0.3) | (1.6–5.3) | (0.04–0.4) | (2.3–4.6) | (0.3–1.1) | (0.1–0.2) | (0.5–1.7) | (0.8–2.7) |
| | 253.8 | 1.7 | 115.8 | 107.7 | 39.4 | 64.0 | 4.2 | 20.2 | 0.2 | 0.1 | 0.1 | 0.008 | 2.7 | 0.2 | 0.1 | 2.5 | 0.1 | 3.0 | 0.4 | 0.1 | 0.8 | 1.1 |
| Central Kalimantan | (209.5–299.9) | (0.8–2.9) | (84.9–145.0) | (80.8–135.6) | (21.6–59.0) | (43.5–92.0) | (2.2–7.3) | (13.3–30.9) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.002–0.02) | (1.5–4.4) | (0.1–0.3) | (0.02–0.2) | (1.4–4.1) | (0.03–0.3) | (2.1–4.1) | (0.2–0.9) | (0.1–0.2) | (0.4–1.4) | (0.6–2.1) |
| | 273.5 | 1.0 | 92.7 | 155.8 | 57.6 | 91.2 | 7.0 | 16.2 | 0.2 | 0.1 | 0.1 | 0.009 | 2.3 | 0.1 | 0.1 | 2.1 | 0.1 | 3.1 | 0.5 | 0.1 | 0.6 | 1.0 |
| East Kalimantan | (220.5–323.7) | (0.4–1.8) | (64.4–121.8) | (119.3–194.3) | (30.7–87.7) | (64.7–126.4) | (3.0–13.3) | (8.0–25.4) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.002–0.02) | (1.2–4.0) | (0.04–0.3) | (0.01–0.1) | (1.1–3.7) | (0.02–0.2) | (2.0–4.2) | (0.3–1.0) | (0.1–0.2) | (0.3–1.1) | (0.6–1.9) |
| | 198.0 | 2.2 | 46.1 | 119.6 | 40.9 | 70.3 | 8.4 | 19.0 | 0.3 | 0.2 | 0.1 | 0.01 | 3.2 | 0.1 | 0.1 | 3.0 | 0.2 | 4.0 | 0.7 | 0.2 | 1.1 | 1.5 |
| North Kalimantan | (154.6–251.8) | (0.9–4.1) | (31.6–65.4) | (90.2–158.3) | (20.0–62.7) | (47.7–112.4) | (4.4–13.7) | (11.0–29.0) | (0.1–0.8) | (0.1–0.5) | (0.02–0.3) | (0.003–0.04) | (1.7–5.1) | (0.04–0.2) | (0.02–0.3) | (1.6–4.8) | (0.04–0.4) | (2.6–5.5) | (0.4–1.2) | (0.1–0.3) | (0.6–2.0) | (0.7–2.8) |
| | 209.9 | 1.0 | 75.6 | 108.0 | 39.1 | 63.9 | 5.1 | 17.6 | 0.2 | 0.1 | 0.1 | 0.009 | 2.4 | 0.1 | 0.1 | 2.2 | 0.1 | 3.0 | 0.5 | 0.1 | 0.6 | 0.9 |
| Riau Islands | (170.1–250.5) | (0.4–1.7) | (54.0–99.0) | (84.3–134.1) | (22.9–57.5) | (46.6–84.6) | (2.5–8.8) | (9.2–26.7) | (0.1–0.4) | (0.1–0.3) | (0.02–0.2) | (0.003–0.02) | (1.2–3.8) | (0.04–0.3) | (0.01–0.1) | (1.1–3.6) | (0.02–0.2) | (1.9–4.1) | (0.3–0.8) | (0.1–0.2) | (0.3–1.1) | (0.5–1.7) |
| | 248.0 | 1.7 | 75.3 | 140.7 | 52.7 | 82.3 | 5.8 | 21.6 | 0.2 | 0.1 | 0.1 | 0.008 | 2.9 | 0.2 | 0.1 | 2.7 | 0.1 | 3.1 | 0.4 | 0.1 | 0.7 | 1.1 |
| Lampung | (203.0–292.3) | (0.9–3.0) | (54.8–96.9) | (110.3–172.4) | (27.8–78.5) | (57.9–111.9) | (3.4–9.9) | (12.5–34.1) | (0.1–0.5) | (0.1–0.3) | (0.02–0.2) | (0.002–0.02) | (1.7–4.6) | (0.1–0.3) | (0.02–0.2) | (1.5–4.3) | (0.03–0.3) | (2.1–4.2) | (0.3–0.9) | (0.1–0.2) | (0.4–1.3) | (0.6–2.0) |
| | 305.0 | 2.1 | 78.2 | 184.7 | 66.7 | 111.0 | 7.0 | 29.3 | 0.2 | 0.1 | 0.1 | 0.009 | 3.7 | 0.2 | 0.1 | 3.4 | 0.1 | 3.6 | 0.5 | 0.1 | 0.9 | 1.5 |
| Maluku | (252.1–361.4) | (1.1–3.1) | (56.5–103.5) | (146.0–226.6) | (37.5–95.5) | (79.7–150.0) | (4.0–12.2) | (16.6–46.6) | (0.1–0.6) | (0.1–0.3) | (0.02–0.3) | (0.003–0.03) | (2.1–6.2) | (0.1–0.4) | (0.01–0.3) | (1.8–5.7) | (0.03–0.4) | (2.4–4.8) | (0.3–1.1) | (0.1–0.2

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 217.3 | 0.9 | 76.5 | 116.3 | 44.0 | 67.6 | 4.7 | 16.8 | 0.2 | 0.1 | 0.1 | 0.007 | 2.1 | 0.1 | 0.1 | 1.9 | 0.1 | 2.7 | 0.3 | 0.1 | 0.5 | 0.8 |
| | (178.5–256.7) | (0.5–1.4) | (55.6–98.5) | (91.5–146.7) | (25.1–61.7) | (47.5–93.8) | (2.8–7.9) | (9.3–26.3) | (0.1–0.4) | (0.04–0.2) | (0.01–0.2) | (0.002–0.02) | (1.2–3.3) | (0.05–0.2) | (0.01–0.1) | (1.1–3.1) | (0.02–0.2) | (1.9–3.7) | (0.2–0.7) | (0.1–0.1) | (0.3–0.9) | (0.5–1.5) |
| Yogyakarta | 408.1 | 5.6 | 143.2 | 209.5 | 73.4 | 128.4 | 7.7 | 33.6 | 0.4 | 0.2 | 0.1 | 0.01 | 5.3 | 0.4 | 0.2 | 4.8 | 0.3 | 5.4 | 0.9 | 0.2 | 1.5 | 2.1 |
| | (347.1–466.6) | (2.9–10.8) | (110.1–180.4) | (165.8–256.3) | (51.3–108.2) | (87.1–166.2) | (4.0–15.1) | (20.6–50.6) | (0.1–0.8) | (0.1–0.5) | (0.04–0.4) | (0.003–0.04) | (3.2–8.4) | (0.2–0.8) | (0.05–0.4) | (2.8–7.7) | (0.1–0.8) | (3.9–7.2) | (0.5–1.3) | (0.1–0.3) | (0.8–2.7) | (1.2–4.3) |
| Lao People's Democratic Republic | 229.4 | 0.6 | 124.8 | 79.9 | 37.9 | 38.9 | 3.0 | 6.7 | 0.8 | 0.6 | 0.2 | 0.006 | 3.6 | 0.1 | 0.003 | 3.5 | 0.1 | 5.4 | 3.4 | 0.2 | 1.5 | 2.4 |
| | (204.1–252.6) | (0.4–0.8) | (111.7–138.9) | (66.9–94.7) | (30.3–45.8) | (31.6–47.6) | (2.0–4.0) | (5.1–8.7) | (0.5–1.1) | (0.4–0.9) | (0.1–0.3) | (0.003–0.01) | (2.6–4.7) | (0.04–0.1) | (0.0008–0.007) | (2.5–4.6) | (0.03–0.3) | (4.1–6.8) | (2.6–4.4) | (0.1–0.2) | (1.1–2.0) | (1.8–3.1) |
| Malaysia | 325.3 | 0.6 | 152.8 | 134.5 | 68.9 | 60.1 | 5.5 | 16.9 | 1.7 | 1.3 | 0.3 | 0.1 | 4.9 | 0.1 | 0.1 | 4.7 | 0.6 | 8.1 | 0.6 | 0.1 | 0.6 | 4.0 |
| | (289.4–362.1) | (0.4–0.8) | (130.3–178.1) | (113.9–156.2) | (55.1–83.0) | (48.4–75.4) | (3.8–7.2) | (11.1–23.5) | (1.0–2.4) | (0.7–1.8) | (0.1–0.6) | (0.02–0.1) | (3.2–6.7) | (0.04–0.2) | (0.04–0.2) | (3.1–6.4) | (0.4–0.9) | (6.4–9.8) | (0.4–0.8) | (0.1–0.2) | (0.4–0.8) | (2.8–5.5) |
| Maldives | 237.9 | 0.5 | 129.4 | 72.2 | 39.1 | 26.6 | 6.5 | 19.4 | 1.6 | 1.2 | 0.4 | 0.02 | 3.8 | 0.03 | 0.4 | 3.4 | 0.5 | 5.9 | 0.8 | 0.6 | 0.9 | 2.2 |
| | (220.0–250.8) | (0.5–0.6) | (119.2–139.5) | (66.2–77.9) | (34.9–42.8) | (24.0–29.6) | (5.7–7.4) | (17.1–21.1) | (1.4–1.8) | (1.0–1.4) | (0.3–0.4) | (0.005–0.1) | (3.2–4.4) | (0.02–0.04) | (0.3–0.5) | (2.8–3.9) | (0.4–0.6) | (5.1–6.5) | (0.6–0.9) | (0.6–0.7) | (0.8–1.0) | (1.9–2.5) |
| Mauritius | 472.3 | 4.5 | 149.9 | 263.2 | 107.1 | 147.7 | 8.3 | 38.1 | 0.4 | 0.2 | 0.2 | 0.01 | 5.6 | 0.3 | 0.1 | 5.1 | 0.3 | 5.7 | 1.0 | 0.2 | 1.4 | 2.1 |
| | (396.8–542.7) | (2.5–7.4) | (107.1–186.7) | (208.4–322.1) | (76.9–141.8) | (108.9–187.5) | (4.7–14.3) | (22.4–58.6) | (0.1–0.9) | (0.1–0.5) | (0.03–0.5) | (0.004–0.04) | (3.4–8.3) | (0.2–0.7) | (0.04–0.4) | (3.0–7.8) | (0.1–0.8) | (3.9–7.7) | (0.7–1.6) | (0.1–0.3) | (0.7–2.5) | (1.1–4.3) |
| Myanmar | 305.3 | 1.9 | 165.5 | 95.3 | 38.4 | 52.4 | 4.6 | 30.1 | 0.3 | 0.2 | 0.1 | 0.004 | 3.8 | 0.1 | 0.1 | 3.5 | 0.1 | 4.9 | 1.3 | 0.2 | 0.8 | 1.2 |
| | (278.4–330.1) | (1.3–2.4) | (149.2–183.8) | (83.1–110.9) | (32.1–46.7) | (44.7–62.2) | (3.3–5.8) | (23.9–38.0) | (0.2–0.4) | (0.1–0.3) | (0.03–0.1) | (0.001–0.008) | (2.5–5.2) | (0.04–0.2) | (0.04–0.2) | (2.4–4.8) | (0.02–0.3) | (4.0–5.8) | (1.0–1.5) | (0.2–0.3) | (0.6–1.1) | (0.9–1.6) |
| Philippines | 216.9 | 1.7 | 89.0 | 101.8 | 38.0 | 59.6 | 4.2 | 15.3 | 0.2 | 0.1 | 0.03 | 0.003 | 1.5 | 0.1 | 0.1 | 1.4 | 0.02 | 4.6 | 1.1 | 0.2 | 0.7 | 0.8 |
| | (188.4–246.4) | (1.1–2.5) | (70.4–106.7) | (80.1–123.9) | (29.1–46.9) | (46.7–75.6) | (3.0–5.7) | (8.8–26.9) | (0.1–0.2) | (0.1–0.2) | (0.02–0.1) | (0.001–0.005) | (1.0–2.6) | (0.02–0.1) | (0.03–0.2) | (0.8–2.5) | (0.003–0.1) | (3.4–6.0) | (0.8–1.5) | (0.1–0.2) | (0.5–0.9) | (0.5–1.1) |
| Abra | 238.7 | 1.4 | 109.0 | 94.5 | 39.8 | 50.0 | 4.6 | 23.6 | 0.2 | 0.2 | 0.02 | 0.01 | 2.1 | 0.1 | 0.1 | 1.9 | 0.1 | 4.8 | 1.0 | 0.2 | 0.7 | 1.2 |
| | (209.8–271.1) | (0.9–2.0) | (93.6–127.6) | (78.6–112.4) | (32.5–49.6) | (40.4–61.3) | (3.3–6.2) | (16.1–38.3) | (0.1–0.3) | (0.1–0.3) | (0.006–0.1) | (0.0009–0.03) | (1.4–3.4) | (0.1–0.2) | (0.03–0.2) | (1.3–3.2) | (0.02–0.3) | (3.6–6.3) | (0.7–1.3) | (0.1–0.2) | (0.5–1.0) | (0.9–1.6) |
| Agusan Del Norte | 265.3 | 1.6 | 121.3 | 99.8 | 43.7 | 52.5 | 3.6 | 33.8 | 0.1 | 0.1 | 0.1 | 0.003 | 1.9 | 0.04 | 0.1 | 1.8 | 0.1 | 4.0 | 0.6 | 0.2 | 0.9 | 1.2 |
| | (227.4–300.6) | (1.0–2.6) | (101.2–141.9) | (80.8–121.2) | (34.1–55.8) | (41.7–64.7) | (2.3–5.5) | (23.3–44.1) | (0.1–0.2) | (0.03–0.1) | (0.04–0.1) | (0.001–0.008) | (1.1–3.2) | (0.01–0.1) | (0.03–0.2) | (1.1–2.9) | (0.01–0.3) | (3.0–5.2) | (0.4–0.9) | (0.1–0.3) | (0.6–1.2) | (0.9–1.7) |
| Agusan Del Sur | 236.4 | 1.8 | 101.5 | 79.5 | 36.8 | 38.9 | 3.8 | 42.5 | 0.3 | 0.2 | 0.1 | 0.001 | 1.8 | 0.1 | 0.1 | 1.6 | 0.1 | 5.0 | 1.3 | 0.4 | 1.1 | 1.1 |
| | (206.2–268.8) | (1.3–2.5) | (87.8–121.3) | (65.7–95.6) | (29.5–46.6) | (30.8–49.1) | (2.5–6.8) | (28.6–55.1) | (0.2–0.4) | (0.1–0.3) | (0.03–0.1) | (0.0005–0.004) | (1.1–3.5) | (0.02–0.1) | (0.02–0.2) | (1.0–3.2) | (0.02–0.3) | (3.9–6.2) | (1.0–1.7) | (0.3–0.5) | (0.8–1.5) | (0.8–1.6) |
| Aklan | 367.9 | 2.4 | 201.0 | 127.6 | 47.8 | 74.9 | 4.9 | 25.7 | 0.2 | 0.2 | 0.1 | 0.004 | 2.6 | 0.05 | 0.1 | 2.5 | 0.1 | 5.2 | 1.1 | 0.2 | 0.8 | 1.1 |
| | (327.0–412.2) | (1.6–3.3) | (174.2–229.3) | (108.2–150.9) | (38.8–59.3) | (62.0–90.5) | (3.5–6.4) | (18.4–39.7) | (0.1–0.3) | (0.1–0.2) | (0.03–0.1) | (0.001–0.009) | (1.9–3.6) | (0.02–0.1) | (0.03–0.2) | (1.7–3.4) | (0.02–0.3) | (4.1–6.3) | (0.8–1.3) | (0.2–0.3) | (0.6–1.0) | (0.8–1.4) |
| Albay | 208.2 | 2.1 | 78.5 | 73.0 | 28.7 | 40.5 | 3.8 | 34.3 | 0.2 | 0.1 | 0.1 | 0.003 | 11.3 | 0.3 | 0.3 | 10.7 | 0.05 | 4.9 | 1.2 | 0.3 | 1.6 | 0.8 |
| | (180.2–236.3) | (1.4–2.9) | (67.0–92.0) | (60.2–89.9) | (22.5–36.7) | (33.0–51.4) | (2.4–6.5) | (25.8–43.0) | (0.1–0.3) | (0.1–0.2) | (0.03–0.1) | (0.0005–0.007) | (2.9–16.5) | (0.04–0.8) | (0.05–0.8) | (2.8–15.6) | (0.008–0.3) | (3.7–6.2) | (0.9–1.6) | (0.2–0.4) | (0.7–2.2) | (0.5–1.5) |
| Antique | 230.4 | 1.7 | 91.4 | 87.5 | 28.7 | 54.4 | 4.4 | 37.2 | 0.4 | 0.1 | 0.2 | 0.01 | 2.9 | 0.04 | 0.2 | 2.6 | 0.02 | 4.5 | 1.6 | 0.4 | 1.2 | 1.6 |
| | (194.1–265.8) | (1.1–2.7) | (72.7–113.4) | (69.4–111.9) | (21.6–36.9) | (42.9–70.8) | (2.7–6.9) | (26.0–49.5) | (0.2–0.6) | (0.1–0.2) | (0.1–0.4) | (0.001–0.04) | (1.8–4.3) | (0.008–0.1) | (0.05–0.4) | (1.6–4.0) | (0.002–0.1) | (3.1–6.1) | (1.1–2.2) | (0.2–0.6) | (0.8–1.8) | (1.1–2.1) |
| Apayao | 345.2 | 2.4 | 149.2 | 134.3 | 53.6 | 75.7 | 5.0 | 44.4 | 0.2 | 0.1 | 0.1 | 0.01 | 4.9 | 0.3 | 0.1 | 4.4 | 0.05 | 6.4 | 0.9 | 0.02 | 1.2 | 1.3 |
| | (301.3–386.3) | (1.7–3.4) | (124.2–175.9) | (110.9–157.9) | (43.1–65.6) | (60.8–91.2) | (3.6–7.0) | (31.1–57.4) | (0.1–0.3) | (0.1–0.2) | (0.04–0.1) | (0.002–0.03) | (3.3–6.7) | (0.04–0.6) | (0.05–0.3) | (3.1–6.0) | (0.006–0.3) | (4.9–8.0) | (0.6–1.5) | (0.01–0.1) | (0.8–1.6) | (1.0–1.8) |
| Aurora | 392.3 | 1.2 | 244.9 | 108.0 | 44.4 | 60.3 | 3.3 | 27.9 | 0.3 | 0.1 | 0.2 | 0.009 | 2.7 | 0.2 | 0.1 | 2.4 | 0.02 | 5.5 | 0.4 | 0.2 | 0.4 | 0.9 |
| | (307.9–449.5) | (0.7–2.0) | (191.3–287.4) | (75.6–141.7) | (30.8–60.2) | (39.4–80.8) | (2.0–5.0) | (18.2–39.2) | (0.1–0.6) | (0.03–0.1) | (0.03–0.5) | (0.001–0.02) | (1.7–3.7) | (0.04–0.4) | (0.03–0.3) | (1.5–3.3) | (0.0007–0.1) | (2.7–7.6) | (0.2–0.8) | (0.1–0.3) | (0.2–0.7) | (0.6–1.2) |
| Basilan | 297.0 | 1.8 | 185.7 | 74.4 | 31.9 | 38.1 | 4.4 | 23.1 | 0.2 | 0.2 | 0.1 | 0.004 | 2.9 | 0.1 | 0.1 | 2.7 | 0.1 | 4.7 | 1.8 | 0.3 | 0.7 | 1.2 |
| | (265.7–332.0) | (1.3–2.5) | (163.4–208.5) | (62.7–91.2) | (26.2–39.8) | (30.7–46.2) | (3.2–5.8) | (16.6–34.2) | (0.1–0.3) | (0.1–0.2) | (0.03–0.1) | (0.0005–0.01) | (2.1–3.8) | (0.03–0.1) | (0.03–0.2) | (1.9–3.7) | (0.02–0.3) | (3.7–5.7) | (1.3–2.3) | (0.2–0.4) | (0.5–0.9) | (0.9–1.6) |
| Bataan | 231.5 | 2.6 | 101.1 | 88.1 | 30.9 | 53.8 | 3.3 | 27.0 | 0.6 | 0.5 | 0.1 | 0.02 | 2.0 | 0.1 | 0.3 | 1.6 | 0.01 | 4.5 | 1.4 | 0.9 | 0.6 | 2.7 |
| | (196.4–267.6) | (1.6–3.7) | (80.0–123.9) | (71.1–106.4) | (23.7–40.4) | (42.5–68.1) | (1.8–6.5) | (17.2–44.3) | (0.2–1.0) | (0.1–0.7) | (0.04–0.2) | (0.0007–0.1) | (1.2–3.8) | (0.02–0.1) | (0.05–0.7) | (0.9–3.3) | (0.0006–0.1) | (3.1–7.3) | (1.0–1.9) | (0.6–1.4) | (0.4–1.3) | (1.5–3.9) |
| Batanes | 313.4 | 1.5 | 183.0 | 91.2 | 38.0 | 48.1 | 5.1 | 22.9 | 0.3 | 0.2 | 0.1 | 0.004 | 4.8 | 0.1 | 0.1 | 4.6 | 0.1 | 5.4 | 1.7 | 0.3 | 0.9 | 1.4 |
| | (281.1–348.9) | (1.1–2.1) | (161.6–206.7) | (77.8–107.5) | (31.4–46.7) | (40.4–57.2) | (3.3–6.9) | (16.8–35.4) | (0.2–0.5) | (0.1–0.4) | (0.02–0.1) | (0.001–0.009) | (2.3–7.0) | (0.03–0.1) | (0.03–0.2) | (2.2–6.8) | (0.02–0.3) | (4.3–6.7) | (1.3–2.1) | (0.2–0.4) | (0.7–1.2) | (1.0–1.9) |
| Batangas | 281.7 | 1.7 | 148.2 | 92.2 | 39.1 | 47.6 | 5.5 | 25.3 | 0.4 | 0.3 | 0.2 | 0.002 | 2.5 | 0.1 | 0.1 | 2.3 | 0.1 | 6.2 | 2.4 | 0.4 | 0.9 | 1.4 |
| | (251.7–310.6) | (1.1–2.4) | (130.5–169.4) | (77.5–110.7) | (31.9–47.8) | (39.9–58.4) | (3.4–7.9) | (17.7–38.4) | (0.2–0.7) | (0.1–0.6) | (0.02–0.1) | (0.0003–0.006) | (1.7–3.5) | (0.03–0.2) | (0.03–0.2) | (1.6–3.2) | (0.03–0.3) | (5.0–7.6) | (1.8–3.1) | (0.3–0.5) | (0.6–1.1) | (0.9–1.9) |
| Benguet | 259.6 | 2.0 | 105.1 | 88.1 | 34.5 | 49.9 | 3.7 | 54.2 | 0.3 | 0.2 | 0.1 | 0.01 | 1.6 | 0.1 | 0.1 | 1.4 | 0.1 | 5.5 | 0.9 | 0.5 | 0.7 | 0.8 |
| | (222.3–299.0) | (1.2–2.8) | (83.9–130.8) | (67.7–115.8) | (26.5–44.7) | (37.9–67.4) | (2.1–7.4) | (30.5–73.2) | (0.2–0.5) | (0.1–0.2) | (0.1–0.2) | (0.001–0.03) | (0.8–3.7) | (0.03–0.1) | (0.03–0.3) | (0.7–3.5) | (0.04–0.4) | (4.0–7.2) | (0.6–1.5) | (0.3–0.6) | (0.4–1.2) | (0.4–1.7) |
| Biliran | 235.9 | 1.7 | 99.0 | 90.3 | 39.4 | 47.0 | 3.9 | 27.2 | 0.2 | 0.1 | 0.1 | 0.005 | 9.1 | 0.2 | 0.2 | 8.8 | 0.05 | 5.7 | 0.6 | 0.2 | 0.7 | 1.1 |
| | (211.0–268.4) | (1.2–2.3) | (84.3–114.5) | (77.2–108.5) | (31.6–48.2) | (39.3–56.8) | (2.8–5.7) | (20.4–39.0) | (0.1–0.3) | (0.1–0.2) | (0.03–0.1) | (0.001–0.01) | (2.7–13.5) | (0.1–0.3) | (0.04–0.5) | (2.5–13.1) | (0.009–0.3) | (4.4–7.1) | (0.4–1.0) | (0.2–0.3) | (0.5–0.9) | (0.8–1.5) |
| Bohol | 330.3 | 2.3 | 159.0 | 116.4 | 49.5 | 62.0 | 4.9 | 41.2 | 0.3 | 0.3 | 0.04 | 0.004 | 2.4 | 0.1 | 0.1 | 2.2 | 0.1 | 5.6 | 0.9 | 0.3 | 0.7 | 1.1 |
| | (287.5–371.3) | (1.6–3.1) | (136.5–184.1) | (94.2–137.2) | (39.2–61.8) | (48.9–75.4) | (3.4–6.6) | (29.4–52.9) | (0.2–0.5) | (0.1–0.4) | (0.009–0.1) | (0.0005–0.01) | (1.5–3.9) | (0.04–0.2) | (0.04–0.3) | (1.4–3.7) | (0.02–0.3) | (4.2–7.4) | (0.6–1.2) | (0.2–0.4) | (0.4–1.0) | (0.7–1.5) |
| Bukidnon | 342.3 | 1.7 | 208.5 | 94.4 | 37.0 | 53.2 | 4.2 | 27.4 | 0.2 | 0.2 | 0.1 | 0.002 | 2.4 | 0.1 | 0.1 | 2.2 | 0.1 | 4.6 | 1.2 | 0.2 | 0.8 | 1.0 |
| | (307.1–371.8) | (1.1–2.3) | (185.5–229.6) | (80.5–110.3) | (30.2–45.8) | (43.7–63.6) | (2.9–5.6) | (20.3–34.4) | (0.1–0.3) | (0.1–0.3) | (0.02–0.1) | (0.0006–0.004) | (1.7–3.3) | (0.03–0.1) | (0.02–0.1) | (1.6–3.1) | (0.02–0.2) | (3.4–5.7) | (0.9–1.4) | (0.1–0.2) | (0.6–1.1) | (0.7–1.3) |
| Bulacan | 193.4 | 2.0 | 100.1 | 62.6 | 22.7 | 36.3 | 3.6 | 20.8 | 0.2 | 0.1 | 0.1 | 0.003 | 1.4 | 0.1 | 0.1 | 1.3 | 0.03 | 3.8 | 0.8 | 0.1 | 0.8 | 0.8 |
| | (169.2–217.4) | (1.2–2.7) | (85.8–115.3) | (53.3–74.4) | (17.8–28.7) | (30.5–43.0) | (2.6–4.8) | (16.1–27.4) | (0.1–0.3) | (0.1–0.2) | (0.02–0.1) | (0.001–0.007) | (0.9–2.3) | (0.02–0.1) | (0.02–0.2) | (0.8–2.1) | (0.006–0.2) | (2.9–4.6) | (0.6–1.0) | (0.1–0.1) | (0.5–1.1) | (0.6–1.0) |
| Cagayan | 374.1 | 2.1 | 210.4 | 118.4 | 45.5 | 65.5 | 4.4 | 25.3 | 0.3 | 0.2 | 0.1 | 0.003 | 8.2 | 0.3 | 0.2 | 7.7 | 0.1 | 4.9 | 0.8 | 0.2 | 0.8 | 1.1 |
| | (333.4–422.4) | (1.5–2.8) | (183.8–242.2) | (100.2–142.6) | (39.4–59.9) | (53.4–80.3) | (3.2–5.9) | (19.1–38.1) | (0.1–0.5) | (0.1–0.3) | (0.03–0.2) | (0.001–0.007) | (2.8–12.3) | (0.04–0.7) | (0.04–0.3) | (2.6–11.7) | (0.02–0.3) | (3.9–6.0) | (0.6–1.1) | (0.2–0.3) | (0.6–1.1) | (0.8–1.5) |
| Camarines Norte | 331.8 | 2.4 | 177.1 | 114.5 | 41.1 | 68.1 | 5.4 | 25.6 | 0.6 | 0.3 | 0.3 | 0.007 | 3.2 | 0.1 | 0.1 | 2.9 | 0.1 | 4.5 | 1.0 | 0.3 | 1.3 | 1.4 |
| | (299.5–364.7) | (1.7–3.3) | (156.3–198.7) | (99.1–133.5) | (33.7–49.2) | (57.9–80.1) | (3.7–7.0) | (19.4–35.1) | (0.1–1.0) | (0.1–0.5) | (0.01–0.6) | (0.001–0.02) | (2.2–4.2) | (0.05–0.2) | (0.04–0.3) | (2.1–3.9) | (0.02–0.3) | (3.6–5.5) | (0.7–1.2) | (0.2–0.4) | (0.7–1.8) | (1.0–1.8) |
| Camarines Sur | 300.6 | 1.8 | 132.9 | 99.7 | 38.4 | 56.5 | 4.8 | 50.7 | 0.04 | 0.02 | 0.02 | 0.004 | 3.5 | 0.1 | 0.1 | 3.3 | 0.04 | 6.3 | 1.6 | 1.1 | 1.2 | 1.7 |
| | (264.2–345.6) | (1.2–2.6) | (111.2–161.0) | (80.9–122.7) | (30.5–49.5) | (43.9–72.7) | (3.0–8.2) | (35.1–66.0) | (0.01–0.1) | (0.004–0.1) | (0.002–0.1) | (0.002–0.009) | (2.4–4.9) | (0.03–0.1) | (0.04–0.3) | (2.3–4.6) | (0.005–0.3) | (4.9–8.0) | (1.1–2.3) | (0.8–1.4) | (0.8–1.7) | (1.2–2.3) |
| Camiguin | 237.9 | 1.8 | 131.1 | 66.1 | 25.9 | 36.7 | 3.6 | 25.5 | 0.2 | 0.2 | 0.03 | 0.002 | 6.8 | 0.2 | 0.1 | 6.5 | 0.05 | 3.7 | 0.8 | 0.2 | 0.5 | 1.0 |
| | (206.5–270.2) | (1.3–2.5) | (113.6–151.1) | (57.0–80.2) | (21.2–32.1) | (30.5–45.7) | (2.6–4.8) | (19.5–32.7) | (0.1–0.3) | (0.1–0.2) | (0.02–0.1) | (0.0003–0.006) | (2.1–10.3) | (0.04–0.5) | (0.04–0.3) | (1.9–9.7) | (0.01–0.2) | (2.8–4.6) | (0.6–1.0) | (0.2–0.3) | (0.4–0.7) | (0.7–1.3) |
| Capiz | 313.8 | 2.1 | 155.1 | 112.6 | 42.6 | 66.0 | 4.0 | 32.9 | 0.2 | 0.2 | 0.1 | 0.001 | 3.0 | 0.1 | 0.1 | 2.8 | 0.1 | 5.5 | 0.7 | 0.3 | 0.5 | 0.8 |
| | (277.5–353.5) | (1.4–2.9) | (131.7–181.5) | (94.5–132.6) | (33.6–51.5) | (54.5–80.6) | (2.8–5.9) | (24.3–42.6) | (0.2–0.4) | (0.1–0.3) | (0.01–0.1) | (0.0004–0.003) | (2.1–4.1) | (0.1–0.2) | (0.04–0.3) | (1.9–3.8) | (0.02–0.3) | (4.3–6.9) | (0.5–1.0) | (0.2–0.4) | (0.3–1.0) | (0.5–1.4) |
| Catanduanes | 320.5 | 1.4 | 198.6 | 80.8 | 34.4 | 41.8 | 4.6 | 28.0 | 0.3 | 0.2 | 0.1 | 0.003 | 3.0 | 0.1 | 0.1 | 2.9 | 0.1 | 4.8 | 1.5 | 0.2 | 0.8 | 1.1 |
| | (285.7–350.8) | (1.0–1.9) | (176.3–220.8) | (68.5–95.4) | (27.9–42.3) | (34.2–49.1) | (3.2–6.1) | (22.1–35.7) | (0.2–0.4) | (0.1–0.3) | (0.03–0.1) | (0.002–0.006) | (1.9–4.1) | (0.03–0.1) | (0.03–0.2) | (1.8–3.9) | (0.02–0.2) | (3.9–5.9) | (1.1–1.9) | (0.1–0.3) | (0.6–1.0) | (0.8–1.4) |
| Cavite | 304.8 | 1.6 | 158.6 | 92.4 | 38.3 | 50.1 | 4.1 | 39.8 | 0.3 | 0.3 | 0.1 | 0.002 | 4.2 | 0.1 | 0.1 | 4.0 | 0.1 | 4.7 | 1.0 | 0.2 | 0.8 | 1.1 |
| | (274.3–331.8) | (1.1–2.1) | (140.6–177.3) | (78.1–109.6) | (31.6–46.5) | (41.8–60.2) | (2.9–5.7) | (26.8–50.8) | (0.2–0.5) | (0.1–0.4) | (0.03–0.1) | (0.0004–0.005) | (2.7–5.8) | (0.1–0.2) | (0.04–0.3) | (2.4–5.5) | (0.03–0.3) | (3.8–5.8) | (0.8–1.3) | (0.2–0.3) | (0.6–1.0) | (0.8–1.5) |
| Cebu | 296.7 | 2.2 | 139.4 | 117.5 | 41.8 | 71.3 | 4.5 | 27.7 | 0.1 | 0.1 | 0.03 | 0.002 | 2.1 | 0.1 | 0.1 | 1.9 | 0.1 | 4.8 | 1.0 | 0.2 | 0.7 | 0.9 |
| | (261.2–337.4) | (1.5–2.9) | (117.7–166.3) | (96.5–139.1) | (33.2–51.7) | (56.0–84.5) | (3.0–6.1) | (20.5–37.6) | (0.05–0.2) | (0.03–0.1) | (0.01–0.1) | (0.0008–0.005) | (1.3–3.3) | (0.04–0.1) | (0.03–0.2) | (1.2–3.0) | (0.02–0.3) | (3.4–6.5) | (0.7–1.3) | (0.1–0.2) | (0.5–1.0) | (0.6–1.3) |
| Cotabato (North Cotabato) | 275.6 | 1.6 | 112.8 | 112.4 | 44.1 | 64.8 | 3.5 | 39.0 | 0.03 | 0.009 | 0.02 | 0.006 | 2.3 | 0.1 | 0.1 | 2.2 | 0.1 | 5.3 | 0.7 | 0.2 | 0.5 | 0.8 |
| | (231.9–318.5) | (0.9–2.8) | (89.9–136.3) | (91.6–139.8) | (33.9–56.9) | (51.2–81.2) | (1.8–6.6) | (27.1–51.6) | (0.002–0.1) | (0.0008–0.03) | (0.0003–0.1) | (0.001–0.03) | (1.4–3.8) | (0.03–0.1) | (0.02–0.2) | (1.4–3.6) | (0.02–0.4) | (4.0–6.7) | (0.5–1.1) | (0.1–0.2) | (0.2–1.0) | (0.4–1.5) |
| Davao de Oro | 376.5 | 2.4 | 224.1 | 105.2 | 38.3 | 62.8 | 4.0 | 33.1 | 0.2 | 0.1 | 0.05 | 0.003 | 3.8 | 0.2 | 0.1 | 3.5 | 0.04 | 4.8 | 0.9 | 0.2 | 0.7 | 1.1 |
| | (331.9–418.2) | (1.7–3.4) | (196.0–255.7) | (87.9–121.1) | (30.3–48.1) | (52.4–74.5) | (2.8–5.7) | (25.9–41.5) | (0.1–0.3) | (0.1–0.2) | (0.03–0.1) | (0.0007–0.007) | (2.4–5.4) | (0.04–0.5) | (0.04–0.3) | (2.3–4.8) | (0.007–0.2) | (3.7–6.0) | (0.7–1.2) | (0.1–0.2) | (0.5–1.0) | (0.8–1.4) |
| Davao Del Norte | 375.1 | 2.1 | 169.7 | 159.2 | 72.0 | 81.3 | 5.9 | 31.3 | 0.3 | 0.2 | 0.1 | 0.002 | 2.2 | 0.1 | 0.1 | 1.9 | 0.1 | 6.0 | 1.9 | 0.2 | 0.8 | 1.5 |
| | (338.5–411.7) | (1.4–2.7) | (148.1–193.7) | (138.1–185.1) | (59.2–87.5) | (68.7–94.8) | (4.2–7.9) | (23.1–43.7) | (0.2–0.5) | (0.1–0.4) | (0.03–0.2) | (0.0004–0.004) | (1.4–3.6) | (0.04–0.2) | (0.03–0.3) | (1.2–3.4) | (0.03–0.4) | (4.7–7.3) | (1.4–2.4) | (0.2–0.3) | (0.5–1.1) | (1.1–2.0) |
| Davao Del Sur | 549.1 | 2.8 | 232.5 | 236.6 | 84.1 | 145.4 | 7.1 | 61.3 | 0.5 | 0.3 | 0.2 | 0.02 | 3.3 | 0.2 | 0.1 | 3.0 | 0.1 | 7.1 | 1.6 | 0.5 | 1.1 | 1.8 |
| | (484.0–620.7) | (1.7–4.4) | (195.2–273.3) | (194.4–281.7) | (65.6–107.9) | (116.3–181.2) | (4.9–11.0) | (37.2–84.0) | (0.2–0.8) | (0.1–0.5) | (0.05–0.4) | (0.0009–0.05) | (2.0–5.8) | (0.1–0.3) | (0.04–0.4) | (1.8–5.2) | (0.01–0.5) | (5.5–9.0) | (1.1–2.2) | (0.3–0.7) | (0.7–1.5) | (1.2–2.4) |
| Davao Occidental | 262.5 | 1.6 | 117.7 | 111.8 | 44.2 | 64.4 | 3.1 | 23.6 | 0.2 | 0.1 | 0.1 | 0.002 | 1.3 | 0.04 | 0.1 | 1.1 | 0.05 | 4.5 | 0.5 | 0.1 | 0.5 | 0.7 |
| | (221.6–299.5) | (1.0–2.5) | (97.4–139.7) | (92.4–133.5) | (34.0–56.1) | (51.4–80.5) | (1.9–5.1) | (16.3–34.6) | (0.1–0.3) | (0.03–0.1) | (0.1–0.2) | (0.0003–0.008) | (0.7–3.0) | (0.01–0.1) | (0.03–0.3) | (0.6–2.8) | (0.007–0.2) | (3.3–5.9) | (0.3–0.8) | (0.1–0.2) | (0.3–0.9) | (0.4–1.2) |
| Davao Oriental | 299.5 | 1.2 | 131.2 | 106.0 | 47.7 | 54.3 | 4.1 | 48.8 | 0.2 | 0.2 | 0.05 | 0.008 | 3.6 | 0.2 | 0.1 | 3.2 | 0.05 | 5.5 | 0.7 | 0.1 | 0.8 | 1.3 |
| | (257.2–343.8) | (0.7–2.5) | (105.4–160.2) | (83.7–132.1) | (37.9–61.6) | (41.5–69.4) | (2.5–6.6) | (28.7–67.9) | (0.1–0.4) | (0.1–0.3) | (0.02–0.1) | (0.0007–0.02) | (2.2–5.3) | (0.04–0.5) | (0.04–0.3) | (1.9–5.0) | (0.005–0.2) | (4.0–6.9) | (0.4–1.2) | (0.1–0.2) | (0.5–1.2) | (0.8–1.8) |
| Dinagat Islands | 312.6 | 3.8 | 154.8 | 100.8 | 43.4 | 53.4 | 4.0 | 43.2 | 0.2 | 0.1 | 0.1 | 0.002 | 1.9 | 0.1 | 0.1 | 1.7 | 0.1 | 5.3 | 0.3 | 0.2 | 0.9 | 1.3 |
| | (268.3–358.5) | (2.4–5.3) | (128.8–183.9) | (79.6–123.8) | (33.5–56.7) | (40.6–67.9) | (2.4–6.7) | (28.3–59.0) | (0.1–0.3) | (0.03–0.2) | (0.1–0.2) | (0.0006–0.008) | (1.1–3.7) | (0.05–0.2) | (0.04–0.3) | (0.9–3.5) | (0.01–0.3) | (3.7–6.9) | (0.2–0.8) | (0.1–0.3) | (0.6–1.3) | (0.9–1.7) |
| Eastern Samar | 215.2 | 2.1 | 75.8 | 62.2 | 23.2 | 35.8 | 3.1 | 53.3 | 0.2 | 0.05 | 0.2 | 0.009 | 12.1 | 0.4 | 0.4 | 11.3 | 0.1 | 4.9 | 1.2 | 0.5 | 1.8 | 1.0 |
| | (184.9–248.2) | (1.4–3.0) | (60.3–97.3) | (48.1–79.0) | (17.0–30.0) | (27.6–46.6) | (1.4–7.3) | (28.3–73.1) | (0.1–0.3) | (0.02–0.1) | (0.1–0.3) | (0.003–0.02) | (3.4–17.6) | (0.01–0.9) | (0.05–1.0) | (3.3–16.5) | (0.01–0.3) | (3.6–6.6) | (0.8–2.0) | (0.3–0.7) | (0.8–2.7) | (0.6–1.7) |
| Guimaras | 245.4 | 1.7 | 113.4 | 100.2 | 42.1 | 54.3 | 3.8 | 19.6 | 0.1 | 0.1 | 0.1 | 0.01 | 1.8 | 0.1 | 0.1 | 1.6 | 0.01 | 5.7 | 0.8 | 0.2 | 0.8 | 1.1 |
| | (207.3–280.9) | (1.1–2.3) | (89.9–140.9) | (79.1–124.4) | (31.2–53.6) | (42.0–70.6) | (2.4–5.9) | (10.8–37.7) | (0.1–0.3) | (0.03–0.2) | (0.02–0.1) | (0.001–0.03) | (1.0–3.5) | (0.02–0.2) | (0.02–0.2) | (0.9–3.2) | (0.0004–0.1) | (4.2–7.5) | (0.6–1.4) | (0.1–0.3) | (0.6–1.2) | (0.8–1.5) |
| Ifugao | 248.9 | 2.0 | 117.7 | 85.0 | 32.0 | 47.6 | 5.4 | 31.6 | 0.3 | 0.3 | 0.1 | 0.002 | 3.0 | 0.05 | 0.2 | 2.8 | 0.05 | 4.5 | 1.9 | 0.2 | 1.2 | 1.3 |
| | (221.5–279.9) | (1.4–2.8) | (102.1–135.2) | (72.8–101.5) | (26.0–40.5) | (39.6–56.9) | (3.4–7.5) | (24.7–39.1) | (0.2–0.5) | (0.1–0.4) | (0.02–0.1) | (0.001–0.005) | (2.2–4.1) | (0.02–0.1) | (0.03–0.5) | (2.0–3.8) | (0.01–0.2) | (3.6–5.5) | (1.5–2.4) | (0

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mountain Province | 283.6 (242.3–324.6) | 1.7 (1.0–2.5) | 108.3 (87.8–130.9) | 126.1 (102.0–150.3) | 55.1 (42.9–70.8) | 66.5 (51.7–84.0) | 4.5 (3.1–6.4) | 35.9 (26.0–48.3) | 0.1 (0.1–0.3) | 0.03 (0.007–0.1) | 0.1 (0.1–0.2) | 0.007 (0.002–0.02) | 1.8 (1.0–3.6) | 0.02 (0.005–0.1) | 0.2 (0.04–0.4) | 1.6 (0.9–3.3) | 0.04 (0.004–0.2) | 6.1 (4.2–8.2) | 1.1 (0.7–1.6) | 0.4 (0.2–0.5) | 0.9 (0.6–1.2) | 1.3 (0.9–1.8) |
| National Capital Region | 364.2 (328.9–399.7) | 1.8 (1.1–2.4) | 243.8 (217.4–271.5) | 79.3 (67.7–92.1) | 32.8 (26.9–40.0) | 40.8 (34.4–49.5) | 5.7 (3.2–7.8) | 26.0 (21.0–33.5) | 0.5 (0.1–0.8) | 0.4 (0.1–0.7) | 0.1 (0.01–0.1) | 0.004 (0.001–0.008) | 3.1 (1.8–4.3) | 0.1 (0.03–0.2) | 0.1 (0.02–0.3) | 2.9 (1.7–4.0) | 0.1 (0.02–0.3) | 4.7 (3.7–5.5) | 2.1 (1.5–2.7) | 0.3 (0.2–0.4) | 1.0 (0.6–1.3) | 1.5 (0.9–2.1) |
| Negros Occidental | 235.9 (211.6–266.1) | 2.2 (1.6–2.9) | 111.4 (98.7–126.4) | 77.2 (65.5–98.0) | 31.8 (25.5–39.1) | 41.6 (34.9–55.4) | 3.9 (2.6–5.9) | 28.3 (22.1–38.5) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.05 (0.03–0.1) | 0.002 (0.001–0.005) | 8.1 (3.1–11.8) | 0.3 (0.1–0.5) | 0.2 (0.1–0.3) | 7.6 (2.8–11.2) | 0.05 (0.008–0.2) | 5.0 (4.0–6.2) | 1.2 (0.9–1.5) | 0.3 (0.2–0.4) | 0.9 (0.7–1.2) | 1.0 (0.7–1.5) |
| Negros Oriental | 234.0 (203.3–265.4) | 1.1 (0.7–1.9) | 116.4 (98.0–134.4) | 76.8 (64.5–90.7) | 34.0 (27.8–43.3) | 39.4 (32.2–50.8) | 3.4 (2.2–5.2) | 30.0 (23.1–38.0) | 0.2 (0.1–0.4) | 0.2 (0.1–0.2) | 0.1 (0.03–0.2) | 0.002 (0.0003–0.006) | 1.8 (1.1–3.1) | 0.1 (0.04–0.1) | 0.1 (0.02–0.2) | 1.6 (1.0–2.8) | 0.1 (0.01–0.3) | 4.8 (3.8–5.9) | 0.8 (0.6–1.0) | 0.2 (0.1–0.2) | 0.9 (0.6–1.2) | 1.0 (0.7–1.4) |
| Northern Samar | 329.1 (288.1–378.6) | 2.6 (1.8–3.5) | 135.4 (114.1–159.9) | 138.6 (117.0–167.0) | 58.7 (47.8–74.4) | 76.1 (62.9–91.3) | 3.8 (2.3–6.3) | 40.6 (30.8–52.7) | 0.2 (0.1–0.3) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.001 (0.0002–0.004) | 2.6 (1.6–4.1) | 0.1 (0.05–0.2) | 0.1 (0.03–0.3) | 2.4 (1.5–3.9) | 0.1 (0.03–0.4) | 5.9 (4.6–7.2) | 0.4 (0.3–0.9) | 0.2 (0.2–0.3) | 0.8 (0.6–1.2) | 1.5 (1.1–2.1) |
| Nueva Ecija | 300.8 (260.8–335.4) | 2.4 (1.3–3.3) | 160.9 (139.0–183.5) | 102.4 (83.6–122.1) | 38.7 (30.3–48.2) | 59.1 (46.9–70.6) | 4.6 (2.9–6.3) | 24.6 (19.5–31.1) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) | 0.05 (0.03–0.1) | 0.002 (0.0005–0.005) | 2.8 (1.9–3.8) | 0.1 (0.03–0.1) | 0.1 (0.03–0.3) | 2.6 (1.7–3.5) | 0.1 (0.02–0.3) | 4.3 (3.1–5.3) | 1.3 (0.9–1.6) | 0.1 (0.1–0.1) | 0.7 (0.5–0.9) | 1.0 (0.7–1.2) |
| Nueva Vizcaya | 234.5 (208.0–260.4) | 1.7 (1.2–2.3) | 101.4 (86.7–117.5) | 91.1 (77.7–108.6) | 33.0 (27.1–40.9) | 53.4 (44.3–64.9) | 4.7 (3.3–6.3) | 29.4 (22.0–38.1) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.1 (0.04–0.2) | 0.005 (0.002–0.01) | 2.2 (1.5–3.2) | 0.05 (0.02–0.1) | 0.1 (0.03–0.2) | 2.0 (1.4–3.0) | 0.2 (0.03–0.4) | 4.8 (3.8–5.9) | 1.1 (0.8–1.4) | 0.1 (0.1–0.2) | 0.9 (0.7–1.2) | 1.2 (0.9–1.7) |
| Occidental Mindoro | 275.2 (236.1–312.7) | 2.0 (1.3–2.9) | 120.0 (101.6–140.5) | 98.5 (81.1–117.1) | 35.4 (28.2–44.2) | 59.6 (48.5–72.8) | 3.5 (2.2–5.9) | 44.3 (27.2–58.8) | 0.2 (0.1–0.3) | 0.1 (0.03–0.2) | 0.1 (0.05–0.2) | 0.002 (0.0004–0.006) | 2.2 (1.3–3.9) | 0.1 (0.04–0.2) | 0.1 (0.03–0.3) | 2.0 (1.2–3.6) | 0.1 (0.008–0.3) | 4.8 (3.6–5.9) | 1.1 (0.8–1.4) | 0.1 (0.1–0.2) | 1.0 (0.7–1.4) | 0.9 (0.6–1.5) |
| Oriental Mindoro | 277.7 (248.7–310.8) | 2.0 (1.4–2.8) | 122.2 (105.5–140.9) | 105.1 (89.0–123.2) | 43.4 (36.1–52.5) | 57.6 (48.3–68.6) | 4.2 (3.0–5.5) | 35.0 (24.5–44.8) | 0.2 (0.2–0.3) | 0.2 (0.1–0.3) | 0.1 (0.02–0.1) | 0.006 (0.0008–0.02) | 4.5 (2.7–6.3) | 0.2 (0.05–0.3) | 0.1 (0.04–0.2) | 4.3 (2.5–5.9) | 0.1 (0.01–0.3) | 5.1 (4.0–6.3) | 1.1 (0.8–1.4) | 0.2 (0.2–0.3) | 1.0 (0.7–1.4) | 1.1 (0.7–1.4) |
| Palawan | 279.1 (244.4–323.8) | 1.3 (0.8–2.4) | 134.4 (112.2–160.0) | 102.0 (81.4–120.9) | 42.5 (32.9–53.3) | 55.5 (43.2–68.6) | 4.0 (2.5–6.5) | 29.5 (20.3–46.2) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.1 (0.03–0.1) | 0.0001 (0.000001–0.0005) | 2.9 (1.8–4.3) | 0.1 (0.1–0.3) | 0.1 (0.04–0.3) | 2.6 (1.6–4.0) | 0.1 (0.01–0.4) | 5.5 (4.1–7.0) | 1.1 (0.8–1.5) | 0.3 (0.2–0.3) | 0.7 (0.4–1.1) | 1.1 (0.7–1.7) |
| Pampanga | 346.7 (310.1–381.5) | 2.0 (1.3–2.8) | 219.2 (191.7–243.8) | 90.7 (76.5–107.8) | 35.6 (28.5–44.8) | 50.3 (41.6–59.2) | 4.8 (3.3–6.3) | 22.3 (15.9–35.6) | 0.3 (0.2–0.4) | 0.2 (0.1–0.3) | 0.1 (0.03–0.1) | 0.002 (0.0007–0.004) | 3.1 (2.1–4.1) | 0.1 (0.04–0.1) | 0.1 (0.03–0.2) | 2.9 (1.9–3.9) | 0.1 (0.02–0.3) | 5.3 (4.2–6.7) | 1.4 (1.0–1.8) | 0.2 (0.1–0.3) | 0.6 (0.5–0.9) | 1.5 (1.0–2.0) |
| Pangasinan | 233.3 (208.1–257.4) | 2.1 (1.2–2.9) | 120.5 (103.9–138.5) | 82.2 (71.3–96.1) | 29.4 (24.0–36.7) | 49.1 (42.0–59.0) | 3.7 (2.5–4.9) | 20.1 (15.9–27.0) | 0.2 (0.1–0.2) | 0.1 (0.1–0.2) | 0.04 (0.02–0.1) | 0.003 (0.001–0.005) | 1.8 (1.3–2.4) | 0.1 (0.03–0.1) | 0.1 (0.02–0.2) | 1.7 (1.2–2.2) | 0.05 (0.01–0.2) | 3.7 (3.0–4.6) | 1.2 (0.9–1.5) | 0.1 (0.1–0.2) | 0.6 (0.4–0.7) | 0.9 (0.6–1.1) |
| Quezon | 398.1 (357.2–434.2) | 2.0 (1.4–2.6) | 234.4 (204.2–261.8) | 123.8 (104.4–144.5) | 49.5 (40.2–60.6) | 69.1 (57.9–83.3) | 5.2 (3.8–6.8) | 26.3 (19.6–39.3) | 0.1 (0.1–0.3) | 0.1 (0.1–0.2) | 0.03 (0.009–0.1) | 0.003 (0.001–0.007) | 2.8 (2.0–3.7) | 0.1 (0.03–0.1) | 0.1 (0.04–0.2) | 2.6 (1.9–3.5) | 0.1 (0.02–0.3) | 5.3 (4.2–6.5) | 1.0 (0.8–1.2) | 0.2 (0.2–0.3) | 0.9 (0.6–1.1) | 1.1 (0.8–1.5) |
| Quirino | 251.8 (218.7–281.6) | 2.1 (1.5–3.0) | 111.5 (93.2–129.7) | 97.2 (80.1–114.4) | 36.8 (28.4–44.8) | 55.6 (44.1–66.8) | 4.9 (3.4–6.6) | 30.2 (21.6–42.4) | 0.3 (0.2–0.4) | 0.2 (0.1–0.2) | 0.1 (0.04–0.2) | 0.01 (0.001–0.03) | 1.8 (1.1–3.6) | 0.1 (0.03–0.2) | 0.1 (0.03–0.3) | 1.6 (0.9–3.2) | 0.1 (0.02–0.3) | 5.0 (3.8–6.2) | 1.6 (1.2–2.1) | 0.2 (0.1–0.2) | 0.6 (0.4–1.0) | 1.2 (0.9–1.7) |
| Rizal | 353.7 (320.5–392.6) | 1.5 (1.0–2.0) | 231.1 (206.6–258.7) | 84.7 (71.6–99.6) | 34.0 (27.6–41.5) | 46.6 (38.5–55.0) | 4.1 (2.9–5.5) | 26.2 (20.4–34.1) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) | 0.1 (0.03–0.1) | 0.004 (0.001–0.009) | 2.3 (1.6–3.0) | 0.1 (0.03–0.1) | 0.1 (0.03–0.2) | 2.1 (1.5–2.8) | 0.1 (0.01–0.3) | 4.6 (3.5–5.6) | 0.9 (0.7–1.2) | 0.2 (0.1–0.2) | 0.9 (0.6–1.2) | 1.1 (0.8–1.5) |
| Romblon | 232.4 (201.7–264.1) | 1.6 (1.0–2.3) | 88.7 (74.8–104.9) | 90.8 (74.7–109.0) | 37.1 (29.7–44.7) | 50.2 (40.3–63.2) | 3.5 (2.2–6.0) | 41.7 (27.5–53.9) | 0.1 (0.05–0.2) | 0.1 (0.05–0.2) | 0.01 (0.0004–0.1) | 0.003 (0.0009–0.008) | 1.8 (1.1–3.5) | 0.1 (0.04–0.1) | 0.1 (0.03–0.2) | 1.7 (1.0–3.2) | 0.1 (0.02–0.3) | 5.0 (3.8–6.3) | 0.8 (0.6–1.0) | 0.3 (0.2–0.4) | 0.9 (0.7–1.2) | 0.8 (0.5–1.4) |
| Samar (Western Samar) | 405.3 (353.2–456.3) | 3.2 (2.1–4.3) | 175.7 (148.2–204.6) | 152.5 (122.7–181.5) | 67.7 (54.2–85.2) | 78.8 (61.7–97.1) | 5.9 (4.0–8.4) | 59.0 (35.0–80.1) | 0.3 (0.2–0.4) | 0.2 (0.1–0.3) | 0.05 (0.02–0.1) | 0.009 (0.002–0.02) | 5.3 (3.4–7.3) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 4.9 (3.2–6.9) | 0.1 (0.02–0.5) | 6.0 (4.3–7.8) | 0.9 (0.6–1.3) | 0.2 (0.2–0.3) | 0.6 (0.4–1.3) | 1.6 (1.2–2.1) |
| Sarangani | 464.4 (386.7–520.5) | 2.0 (1.2–3.2) | 223.0 (183.2–263.6) | 196.5 (138.2–237.3) | 89.6 (64.3–110.0) | 100.7 (71.2–124.6) | 6.2 (4.4–8.3) | 28.5 (18.4–45.7) | 0.4 (0.2–0.5) | 0.3 (0.1–0.4) | 0.1 (0.02–0.1) | 0.008 (0.001–0.02) | 2.3 (1.4–4.1) | 0.1 (0.04–0.2) | 0.1 (0.02–0.3) | 2.2 (1.3–3.8) | 0.1 (0.03–0.4) | 5.8 (4.0–7.6) | 1.4 (1.0–1.8) | 0.3 (0.2–0.4) | 0.8 (0.5–1.2) | 3.3 (1.3–4.9) |
| Siquijor | 229.7 (198.4–259.7) | 1.2 (0.7–2.1) | 112.4 (94.0–131.6) | 75.2 (62.0–91.3) | 33.0 (26.0–41.1) | 39.8 (31.6–50.1) | 2.4 (1.2–5.3) | 30.9 (22.2–40.4) | 0.1 (0.02–0.2) | 0.03 (0.01–0.1) | 0.04 (0.006–0.1) | 0.007 (0.002–0.02) | 2.8 (1.9–3.8) | 0.1 (0.04–0.3) | 0.2 (0.04–0.3) | 2.5 (1.7–3.4) | 0.1 (0.02–0.3) | 4.8 (3.6–6.0) | 0.3 (0.2–1.0) | 0.1 (0.05–0.1) | 0.7 (0.5–1.1) | 1.0 (0.7–1.5) |
| Sorsogon | 286.0 (250.1–321.5) | 1.9 (1.3–2.5) | 150.6 (130.9–172.8) | 100.1 (83.5–116.8) | 40.9 (33.2–50.9) | 55.3 (46.4–65.3) | 3.9 (2.8–5.2) | 24.7 (18.7–33.8) | 0.1 (0.02–0.2) | 0.04 (0.01–0.1) | 0.03 (0.007–0.1) | 0.002 (0.0005–0.005) | 1.7 (1.1–2.9) | 0.1 (0.02–0.1) | 0.1 (0.02–0.2) | 1.6 (1.0–2.7) | 0.1 (0.01–0.3) | 4.6 (3.7–5.7) | 0.6 (0.5–0.9) | 0.1 (0.1–0.2) | 0.6 (0.5–0.8) | 1.0 (0.7–1.3) |
| South Cotabato | 346.8 (307.3–386.9) | 2.5 (1.7–3.3) | 155.5 (135.0–173.7) | 130.0 (109.0–157.2) | 50.1 (40.5–60.1) | 73.7 (60.7–92.6) | 6.3 (4.6–8.6) | 44.4 (34.4–55.9) | 0.4 (0.2–0.5) | 0.3 (0.2–0.4) | 0.1 (0.04–0.2) | 0.003 (0.001–0.007) | 3.4 (2.4–4.9) | 0.2 (0.1–0.3) | 0.1 (0.05–0.3) | 3.2 (2.2–4.7) | 0.1 (0.04–0.5) | 6.1 (4.9–7.6) | 1.6 (1.2–2.1) | 0.2 (0.1–0.2) | 0.9 (0.6–1.3) | 1.6 (1.2–2.1) |
| Southern Leyte | 244.4 (213.5–275.4) | 2.1 (1.4–3.0) | 92.8 (79.0–108.1) | 95.3 (79.7–114.3) | 41.6 (33.9–52.2) | 50.1 (41.2–63.2) | 3.6 (2.1–6.5) | 43.1 (31.3–55.0) | 0.2 (0.2–0.3) | 0.2 (0.1–0.3) | 0.04 (0.02–0.1) | 0.001 (0.0003–0.004) | 1.8 (1.1–3.8) | 0.05 (0.02–0.1) | 0.1 (0.02–0.3) | 1.7 (1.0–3.7) | 0.1 (0.02–0.4) | 6.1 (4.6–7.5) | 0.7 (0.5–1.3) | 0.3 (0.2–0.4) | 0.9 (0.7–1.2) | 1.0 (0.6–1.7) |
| Sultan Kudarat | 285.2 (245.1–329.1) | 2.1 (1.4–3.0) | 118.7 (99.7–140.3) | 114.2 (94.8–139.0) | 38.1 (28.6–48.1) | 72.1 (58.7–89.9) | 4.0 (2.4–6.7) | 34.7 (25.6–45.9) | 0.3 (0.2–0.5) | 0.2 (0.1–0.4) | 0.1 (0.01–0.2) | 0.003 (0.0007–0.009) | 7.1 (3.2–10.9) | 0.2 (0.1–0.3) | 0.2 (0.1–0.4) | 6.7 (2.8–10.4) | 0.1 (0.006–0.3) | 4.9 (3.6–6.3) | 1.3 (0.9–1.7) | 0.03 (0.02–0.1) | 0.7 (0.5–1.2) | 1.1 (0.8–1.6) |
| Sulu | 457.1 (343.9–525.9) | 1.2 (0.7–2.0) | 263.0 (202.6–324.8) | 155.6 (98.4–202.7) | 64.3 (42.6–85.4) | 86.8 (52.1–117.1) | 4.5 (2.7–7.2) | 29.2 (16.9–42.4) | 0.1 (0.03–0.2) | 0.1 (0.02–0.1) | 0.04 (0.008–0.1) | 0.004 (0.00009–0.01) | 2.3 (1.4–3.3) | 0.04 (0.01–0.1) | 0.1 (0.03–0.2) | 2.1 (1.4–3.2) | 0.02 (0.0007–0.1) | 3.9 (1.9–5.6) | 0.5 (0.3–0.7) | 0.01 (0.008–0.03) | 0.5 (0.3–0.8) | 0.8 (0.5–1.1) |
| Surigao Del Norte | 291.5 (254.4–330.6) | 1.9 (1.2–2.6) | 131.4 (110.1–150.1) | 107.6 (90.6–129.1) | 45.0 (36.7–54.7) | 58.9 (48.2–72.7) | 3.8 (2.4–6.3) | 32.9 (22.7–46.5) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) | 0.04 (0.02–0.1) | 0.002 (0.0004–0.005) | 8.7 (3.4–12.5) | 0.2 (0.1–0.4) | 0.2 (0.1–0.4) | 8.3 (3.1–11.9) | 0.1 (0.01–0.3) | 5.7 (4.4–7.1) | 0.8 (0.6–1.3) | 0.3 (0.2–0.4) | 0.7 (0.5–1.0) | 1.2 (0.8–1.7) |
| Surigao Del Sur | 303.7 (260.4–351.9) | 2.0 (1.2–2.9) | 131.3 (103.3–144.6) | 114.2 (110.4–155.6) | 54.2 (42.6–67.8) | 72.0 (58.4–88.1) | 5.2 (3.3–7.3) | 24.7 (26.5–48.0) | 0.3 (0.1–0.4) | 0.2 (0.1–0.3) | 0.2 (0.02–0.1) | 0.006 (0.001–0.01) | 2.5 (1.5–4.0) | 0.1 (0.05–0.3) | 0.2 (0.04–0.3) | 2.2 (1.4–3.8) | 0.1 (0.02–0.3) | 6.1 (4.4–7.8) | 1.0 (0.7–1.4) | 0.4 (0.2–0.5) | 0.8 (0.5–1.2) | 1.3 (0.9–1.8) |
| Tarlac | 330.5 (300.1–363.4) | 2.1 (1.4–2.8) | 175.4 (155.9–197.6) | 114.6 (99.3–133.8) | 42.0 (34.0–51.5) | 68.1 (57.6–80.5) | 4.6 (3.2–5.9) | 25.7 (19.1–38.0) | 0.4 (0.2–0.5) | 0.2 (0.1–0.4) | 0.1 (0.03–0.2) | 0.01 (0.0005–0.04) | 3.2 (2.3–4.3) | 0.1 (0.03–0.1) | 0.1 (0.03–0.2) | 3.1 (2.2–4.2) | 0.1 (0.01–0.2) | 5.1 (4.1–6.2) | 1.7 (1.2–2.2) | 0.1 (0.1–0.2) | 1.0 (0.7–1.3) | 1.0 (0.8–1.4) |
| Tawi-Tawi | 304.3 (237.8–363.8) | 0.5 (0.3–1.3) | 135.0 (100.2–173.5) | 137.7 (95.7–175.2) | 58.1 (41.5–75.8) | 72.7 (48.4–96.8) | 6.8 (2.3–11.7) | 21.5 (14.3–30.5) | 0.2 (0.1–0.3) | 0.1 (0.05–0.2) | 0.1 (0.03–0.1) | 0.008 (0.0004–0.02) | 1.9 (1.1–3.0) | 0.2 (0.02–0.5) | 0.1 (0.02–0.2) | 1.7 (0.9–2.7) | 0.02 (0.001–0.1) | 4.1 (1.8–6.0) | 0.8 (0.5–1.1) | 0.7 (0.1–1.2) | 0.2 (0.1–0.6) | 1.8 (0.7–2.7) |
| Zambales | 299.9 (264.7–336.6) | 1.7 (1.1–2.3) | 173.7 (151.1–197.9) | 82.1 (69.3–99.0) | 32.6 (26.5–40.8) | 45.3 (37.8–56.2) | 4.2 (3.0–5.9) | 30.8 (24.0–39.3) | 0.3 (0.2–0.4) | 0.2 (0.1–0.3) | 0.1 (0.03–0.1) | 0.003 (0.0007–0.006) | 2.5 (1.8–3.3) | 0.1 (0.03–0.1) | 0.1 (0.03–0.2) | 2.3 (1.7–3.1) | 0.1 (0.02–0.3) | 4.5 (3.5–5.5) | 1.9 (1.4–2.4) | 0.2 (0.1–0.2) | 0.9 (0.7–1.2) | 1.2 (0.9–1.7) |
| Zamboanga Del Norte | 343.8 (302.4–388.3) | 1.1 (0.7–2.1) | 185.0 (160.6–218.9) | 114.0 (94.4–134.9) | 50.5 (39.6–63.3) | 59.0 (47.0–73.5) | 4.5 (2.9–6.6) | 32.3 (23.6–45.5) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.05 (0.02–0.1) | 0.004 (0.002–0.009) | 2.2 (1.3–3.8) | 0.1 (0.03–0.2) | 0.1 (0.02–0.3) | 2.1 (1.3–3.5) | 0.05 (0.005–0.3) | 5.5 (4.2–7.0) | 0.7 (0.5–1.0) | 0.2 (0.1–0.3) | 0.8 (0.5–1.1) | 1.8 (1.3–2.4) |
| Zamboanga Del Sur | 407.0 (362.4–446.2) | 2.3 (1.5–3.1) | 236.8 (208.7–262.1) | 110.8 (94.2–132.0) | 44.7 (36.4–54.0) | 60.2 (49.7–72.9) | 5.8 (4.4–7.6) | 42.7 (32.7–53.8) | 0.3 (0.2–0.3) | 0.2 (0.1–0.2) | 0.1 (0.04–0.1) | 0.004 (0.001–0.01) | 4.0 (2.9–5.4) | 0.2 (0.1–0.3) | 0.3 (0.05–0.6) | 3.6 (2.6–4.8) | 0.1 (0.02–0.4) | 5.9 (4.7–7.2) | 1.3 (1.0–1.7) | 0.2 (0.2–0.3) | 1.0 (0.8–1.3) | 1.7 (1.2–2.1) |
| Zamboanga Sibugay | 329.7 (293.2–373.1) | 1.5 (0.9–2.7) | 161.4 (139.3–191.9) | 115.3 (94.5–138.6) | 47.2 (37.5–58.4) | 63.9 (50.3–79.2) | 4.2 (2.6–7.0) | 37.7 (27.9–48.5) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) | 0.1 (0.02–0.1) | 0.0008 (0.00008–0.003) | 3.4 (2.3–4.6) | 0.2 (0.1–0.3) | 0.1 (0.04–0.3) | 3.1 (2.1–4.3) | 0.1 (0.03–0.5) | 4.8 (3.6–6.0) | 0.5 (0.3–1.1) | 0.3 (0.2–0.4) | 0.6 (0.4–1.1) | 1.0 (0.6–1.6) |
| Seychelles | 193.4 (172.7–212.3) | 0.5 (0.3–0.7) | 68.8 (58.2–81.8) | 58.8 (47.7–71.1) | 29.4 (19.3–39.5) | 26.9 (19.3–38.4) | 2.5 (1.2–4.2) | 54.0 (42.9–66.6) | 0.2 (0.1–0.2) | 0.1 (0.1–0.2) | 0.04 (0.02–0.1) | 0.007 (0.003–0.02) | 3.2 (2.3–4.7) | 0.5 (0.3–0.8) | 0.1 (0.02–0.2) | 2.7 (1.8–3.9) | 0.1 (0.02–0.2) | 4.6 (3.1–6.4) | 1.0 (0.6–1.4) | 0.1 (0.1–0.2) | 0.5 (0.3–0.9) | 1.7 (1.2–2.2) |
| Sri Lanka | 238.2 (209.2–262.4) | 0.6 (0.4–0.8) | 108.2 (95.1–122.1) | 101.7 (83.7–117.7) | 44.7 (36.4–53.0) | 60.2 (49.7–72.9) | 5.8 (4.4–7.6) | 16.5 (12.0–24.2) | 0.4 (0.3–0.6) | 0.3 (0.2–0.5) | 0.2 (0.02–0.1) | 0.1 (0.03–0.1) | 2.6 (1.8–4.3) | 0.2 (0.1–0.3) | 0.1 (0.03–0.3) | 2.4 (1.6–3.9) | 0.5 (0.3–0.6) | 4.5 (3.6–5.6) | 0.4 (0.3–0.5) | 0.1 (0.1–0.2) | 1.1 (0.8–1.4) | 1.6 (1.2–2.0) |
| Thailand | 105.3 (94.3–115.8) | 0.3 (0.3–0.5) | 38.5 (32.8–44.0) | 53.1 (46.5–61.4) | 19.0 (15.8–23.2) | 26.2 (21.9–31.5) | 8.0 (6.1–10.0) | 2.9 (2.0–3.9) | 0.7 (0.4–0.9) | 0.4 (0.3–0.5) | 0.2 (0.1–0.4) | 0.01 (0.007–0.03) | 0.8 (0.6–1.0) | 0.1 (0.1–0.2) | 0.03 (0.009–0.1) | 0.7 (0.5–0.9) | 0.1 (0.03–0.3) | 3.8 (2.9–4.6) | 1.8 (1.5–2.3) | 0.04 (0.03–0.1) | 2.4 (1.9–3.1) | 0.8 (0.6–1.1) |
| Timor-Leste | 319.1 (266.2–381.2) | 5.1 (2.7–7.9) | 112.5 (78.9–170.2) | 155.0 (115.6–202.6) | 59.1 (33.4–85.3) | 89.7 (61.5–125.7) | 6.2 (3.2–12.3) | 34.7 (15.1–65.7) | 0.3 (0.1–0.6) | 0.1 (0.1–0.3) | 0.1 (0.03–0.3) | 0.008 (0.002–0.02) | 4.1 (2.2–6.6) | 0.3 (0.1–0.6) | 0.1 (0.03–0.3) | 3.7 (2.0–6.1) | 0.2 (0.1–0.6) | 4.0 (2.7–5.7) | 0.5 (0.3–1.0) | 0.1 (0.1–0.2) | 1.1 (0.6–1.9) | 1.5 (0.8–2.6) |
| Viet Nam | 208.4 (172.0–243.2) | 1.5 (0.9–2.4) | 56.0 (40.7–74.1) | 119.5 (94.5–143.6) | 51.5 (32.9–72.1) | 61.1 (44.0–84.6) | 6.9 (3.3–11.2) | 20.7 (12.2–30.2) | 0.3 (0.1–0.7) | 0.2 (0.1–0.4) | 0.1 (0.02–0.3) | 0.01 (0.003–0.04) | 2.9 (1.8–4.3) | 0.1 (0.05–0.2) | 0.1 (0.02–0.2) | 2.7 (1.6–4.1) | 0.1 (0.04–0.4) | 4.2 (2.7–5.9) | 0.9 (0.6–1.3) | 0.1 (0.1–0.2) | 0.8 (0.5–1.5) | 1.2 (0.7–2.2) |
| **Sub-Saharan Africa** | **243.4 (208.4–277.6)** | **2.7 (1.6–4.0)** | **75.8 (53.8–96.9)** | **102.5 (80.5–125.6)** | **49.0 (33.5–68.3)** | **51.2 (36.6–71.4)** | **2.4 (0.7–6.1)** | **35.9 (23.8–50.5)** | **1.8 (1.1–2.8)** | **1.1 (0.6–1.8)** | **0.7 (0.3–1.1)** | **0.01 (0.005–0.03)** | **7.7 (4.7–10.7)** | **0.2 (0.1–0.4)** | **0.1 (0.01–0.2)** | **7.4 (4.6–10.4)** | **0.3 (0.1–0.5)** | **3.4 (2.4–4.5)** | **2.8 (1.7–4.1)** | **2.0 (1.2–2.9)** | **1.5 (1.0–2.4)** | **7.0 (4.0–10.5)** |
| Central Sub-Saharan Africa | 301.7 (238.4–363.9) | 4.0 (1.6–8.2) | 90.6 (53.1–132.9) | 128.3 (88.2–173.9) | 62.5 (34.3–98.8) | 62.7 (41.2–100.1) | 3.2 (0.5–10.8) | 48.2 (26.4–74.9) | 1.7 (1.0–2.9) | 1.0 (0.5–1.7) | 0.7 (0.3–1.3) | 0.01 (0.004–0.03) | 12.7 (5.8–24.3) | 0.5 (0.1–1.5) | 0.01 (0.001–0.1) | 12.2 (5.5–23.4) | 0.3 (0.1–0.6) | 3.2 (1.9–4.4) | 2.6 (1.6–4.1) | 1.9 (1.1–3.3) | 1.4 (0.8–2.2) | 6.6 (3.1–12.1) |
| Angola | 254.9 (204.4–300.0) | 3.3 (2.0–4.9) | 83.0 (58.5–110.0) | 107.7 (79.2–142.8) | 54.8 (38.7–77.5) | 50.7 (34.7–69.0) | 2.2 (0.9–4.8) | 35.4 (19.0–53.1) | 1.6 (0.9–2.3) | 1.0 (0.6–1.5) | 0.6 (0.3–1.0) | 0.01 (0.005–0.03) | 10.0 (5.8–15.3) | 0.3 (0.1–0.7) | 0.008 (0.0009–0.04) | 9.7 (5.4–14.8) | 0.2 (0.1–0.4) | 2.6 (1.8–3.6) | 2.7 (1.6–4.3) | 2.0 (1.2–3.0) | 1.3 (0.8–1.9) | 5.0 (2.9–7.9) |
| Central African Republic | 325.0 (229.4–421.3) | 6.0 (2.2–12.7) | 89.2 (41.2–141.8) | 165.1 (112.3–224.6) | 85.4 (42.3–134.6) | 77.0 (47.3–118.1) | 2.7 (0.4–9.7) | 40.3 (20.3–64.2) | 1.2 (0.6–2.0) | 0.7 (0.3–1.2) | 0.5 (0.3–1.0) | 0.006 (0.002–0.01) | 11.1 (4.3–22.2) | 0.6 (0.1–2.0) | 0.01 (0.0006–0.1) | 10.5 (4.1–20.3) | 0.3 (0.1–0.6) | 2.3 (1.2–3.3) | 1.5 (0.9–2.8) | 1.3 (0.6–2.4) | 1.3 (0.6–2.2) | 5.4 (2.1–11.8) |
| Congo | 315.9 (253.5–378.8) | 3.0 (1.4–5.3) | 109.7 (70.8–151.4) | 130.3 (96.0–169.4) | 71.5 (47.1–102.5) | 56.3 (38.7–81.7) | 2.5 (0.8–6.0) | 43.2 (21.9–71.3) | 1.8 (1.1–3.0) | 1.2 (0.6–1.9) | 0.6 (0.3–1.2) | 0.01 (0.005–0.03) | 10.9 (5.8–17.3) | 0.2 (0.1–0.6) | 0.008 (0.0009–0.05) | 10.6 (5.6–17.0) | 0.2 (0.1–0.3) | 3.5 (2.4–4.8) | 3.5 (1.8–5.8) | 2.5 (1.5–3.9) | 1.3 (0.7–2.0) | 6.2 (3.2–9.7) |
| Democratic Republic of the Congo | 318.2 (242.1–396.6) | 4.3 (1.1–10.0) | 92.0 (48.4–141.9) | 135.1 (90.2–188.0) | 64.0 (32.1–106.3) | 67.5 (40.8–115.3) | 3.7 (0.4–13.5) | 54.1 (28.3–85.6) | 1.8 (0.9–3.1) | 1.1 (0.5–1.8) | 0.7 (0.3–1.4) | 0.01 (0.003–0.03) | 14.1 (5.3–29.5) | 0.6 (0.1–1.8) | 0.02 (0.0008–0.1) | 13.5 (5.1–28.5) | 0.3 (0.1–0.7) | 3.4 (1.8–4.9) | 2.5 (1.4–4.0) | 1.9 (0.9–3.3) | 1.5 (0.7–2.5) | 7.4 (2.9–15.0) |
| Equatorial Guinea | 304.1 (242.1–371.0) | 2.1 (1.2–3.5) | 116.5 (77.4–158.9) | 105.3 (71.4–146.1) | 56.7 (35.8–78.8) | 46.2 (29.4–70.5) | 2.4 (1.1–5.2) | 46.0 (18.8–80.1) | 2.3 (1.4–3.7) | 1.6 (0.9–2.5) | 0.7 (0.3–1.3) | 0.02 (0.009–0.1) | 10.8 (4.7–16.9) | 0.2 (0.1–0.4) | 0.008 (0.001–0.05) | 10.6 (4.6–16.7) | 0.2 (0.1–0.3) | 4.3 (2.8–6.1) | 5.0 (2.6–8.7) | 3.1 (1.7–5.7) | 1.3 (0.8–2.1) | 7.1 (4.0–11.1) |
| Gabon | 222.6 (177.0–269.6) | 1.7 (1.1–2.6) | 82.9 (58.6–110.4) | 79.0 (56.8–106.3) | 42.8 (29.4–65.1) | 34.4 (22.5–51.3) | 1.8 (0.9–3.5) | 33.2 (13.3–56.4) | 1.7 (1.0–2.6) | 1.1 (0.6–1.8) | 0.5 (0.2–0.9) | 0.02 (0.006–0.04) | 8.0 (3.9–12.3) | 0.1 (0.1–0.4) | 0.005 (0.0008–0.03) | 7.9 (3.7–12.0) | 0.1 (0.1–0.2) | 3.6 (2.4–5.1) | 3.8 (1.9–6.5) | 2.4 (1.4–4.3) | 1.0 (0.6–1.6) | 5.1 (3.0–8.1) |
| Eastern Sub-Saharan Africa | 212.4 (178.5–244.5) | 2.8 (1.7–4.1) | 56.1 (38.6–75.2) | 90.7 (69.4–111.5) | 39.9 (24.7–58.6) | 48.6 (33.7–69.7) | 2.2 (0.5–6.1) | 43.6 (26.9–64.8) | 1.6 (1.0–2.5) | 0.9 (0.5–1.4) | 0.7 (0.4–1.2) | 0.01 (0.004–0.02) | 3.5 (2.0–5.3) | 0.1 (0.1–0.3) | 0.003 (0.0004–0.02) | 3.3 (1.9–5.1) | 0.3 (0.1–0.6) | 2.9 (2

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 234.4 (187.2–290.3) | 2.6 (1.4–4.4) | 65.7 (44.2–96.9) | 84.3 (61.5–115.5) | 32.9 (15.9–57.4) | 48.5 (33.9–70.9) | 2.9 (0.6–7.1) | 58.4 (31.1–94.7) | 2.0 (1.2–3.1) | 1.1 (0.6–1.9) | 0.8 (0.4–1.4) | 0.01 (0.005–0.04) | 4.6 (2.3–7.3) | 0.2 (0.1–0.4) | 0.005 (0.0006–0.03) | 4.4 (2.2–7.0) | 0.3 (0.2–0.6) | 3.7 (2.4–5.5) | 2.5 (1.5–3.6) | 2.4 (1.4–3.8) | 1.7 (1.0–2.8) | 6.3 (3.7–10.1) |
| Harari | 204.8 (165.7–245.2) | 4.1 (2.2–7.2) | 51.3 (33.0–73.6) | 70.4 (47.7–96.2) | 25.9 (12.2–41.3) | 42.6 (28.4–59.8) | 2.0 (0.4–5.6) | 56.5 (31.9–90.2) | 1.9 (1.1–2.9) | 1.0 (0.6–1.6) | 0.9 (0.5–1.5) | 0.01 (0.004–0.03) | 4.3 (2.5–6.7) | 0.2 (0.1–0.4) | 0.005 (0.0005–0.02) | 4.1 (2.4–6.4) | 0.4 (0.2–0.8) | 3.2 (2.1–4.5) | 2.1 (1.3–3.1) | 1.7 (1.0–2.8) | 2.4 (1.4–4.0) | 6.4 (3.5–10.4) |
| Oromia | 203.9 (150.9–273.3) | 3.1 (1.1–5.8) | 56.5 (34.6–85.0) | 68.8 (43.7–104.5) | 26.4 (9.7–49.6) | 39.8 (21.5–66.0) | 2.6 (0.3–7.1) | 52.7 (28.0–89.5) | 2.0 (1.0–3.4) | 1.1 (0.5–2.0) | 0.8 (0.4–1.6) | 0.01 (0.003–0.03) | 4.3 (2.1–7.7) | 0.2 (0.1–0.4) | 0.005 (0.0004–0.03) | 4.1 (2.0–7.4) | 0.5 (0.2–1.0) | 3.4 (2.1–5.3) | 2.3 (1.2–3.6) | 2.0 (1.0–3.5) | 1.6 (0.9–2.9) | 6.7 (3.1–12.5) |
| Sidama | 191.5 (147.7–240.3) | 3.0 (1.7–5.1) | 57.2 (36.7–83.0) | 76.2 (53.3–103.9) | 29.2 (16.0–51.3) | 45.2 (25.9–68.9) | 1.8 (0.6–4.5) | 38.4 (21.7–60.3) | 1.3 (0.7–2.0) | 0.7 (0.3–1.2) | 0.6 (0.3–1.0) | 0.006 (0.002–0.01) | 3.3 (1.7–5.4) | 0.2 (0.1–0.5) | 0.004 (0.0005–0.03) | 3.1 (1.6–4.8) | 0.4 (0.2–0.7) | 2.3 (1.3–3.4) | 2.0 (1.0–3.4) | 1.4 (0.7–2.8) | 1.6 (0.8–2.7) | 4.4 (2.4–7.3) |
| Somali | 334.9 (250.3–459.7) | 4.9 (1.9–8.8) | 97.1 (60.7–149.9) | 110.9 (68.9–173.3) | 41.7 (16.5–78.0) | 64.9 (36.2–112.2) | 4.3 (0.5–11.1) | 82.2 (42.3–141.4) | 3.4 (1.8–5.8) | 2.0 (0.9–3.5) | 1.4 (0.7–2.9) | 0.02 (0.005–0.04) | 7.7 (3.8–13.1) | 0.4 (0.1–0.8) | 0.01 (0.0007–0.1) | 7.3 (3.6–12.7) | 0.9 (0.4–1.9) | 5.7 (3.4–8.8) | 4.0 (2.2–6.6) | 3.5 (1.8–6.6) | 2.9 (1.6–5.2) | 11.6 (5.2–22.4) |
| South West | 199.1 (155.9–254.3) | 3.6 (1.8–6.3) | 55.8 (37.9–82.2) | 67.9 (43.3–96.9) | 26.0 (12.0–47.2) | 40.2 (25.0–56.8) | 1.7 (0.4–4.6) | 52.4 (28.3–86.9) | 1.6 (0.9–2.6) | 0.9 (0.4–1.4) | 0.8 (0.4–1.3) | 0.01 (0.003–0.02) | 3.9 (2.3–6.2) | 0.2 (0.1–0.4) | 0.004 (0.0004–0.02) | 3.7 (2.2–5.9) | 0.4 (0.2–0.7) | 2.8 (1.8–4.1) | 1.6 (0.9–2.6) | 1.5 (0.8–2.4) | 2.0 (1.1–3.4) | 5.7 (2.9–9.3) |
| Southern Nations, Nationalities, and Peoples | 200.6 (162.5–244.7) | 3.2 (1.6–5.5) | 51.9 (36.2–72.5) | 76.9 (54.0–102.7) | 25.8 (14.0–43.6) | 49.0 (31.5–65.7) | 2.1 (0.5–6.1) | 49.5 (27.7–76.9) | 1.6 (1.0–2.6) | 0.9 (0.5–1.4) | 0.8 (0.4–1.3) | 0.01 (0.004–0.03) | 3.8 (2.2–6.5) | 0.2 (0.1–0.4) | 0.004 (0.0004–0.02) | 3.6 (2.1–6.3) | 0.4 (0.2–0.7) | 2.9 (1.9–4.2) | 1.6 (0.9–2.7) | 1.4 (0.8–2.2) | 1.9 (1.1–3.2) | 5.6 (3.3–9.1) |
| Tigray | 129.5 (100.9–160.2) | 1.2 (0.7–1.8) | 35.4 (24.0–49.0) | 54.6 (39.0–74.2) | 23.4 (13.3–36.3) | 29.9 (20.7–43.8) | 1.4 (0.4–3.6) | 26.2 (14.4–38.3) | 1.1 (0.7–1.8) | 0.7 (0.4–1.1) | 0.4 (0.2–0.8) | 0.008 (0.003–0.02) | 2.0 (1.0–3.3) | 0.1 (0.02–0.1) | 0.002 (0.0003–0.01) | 2.0 (1.0–3.2) | 0.1 (0.1–0.3) | 2.2 (1.5–3.0) | 1.3 (0.8–1.9) | 1.1 (0.7–1.8) | 0.9 (0.6–1.3) | 3.4 (1.8–5.3) |
| Kenya | 172.3 (135.4–214.8) | 1.8 (1.0–3.0) | 49.3 (33.2–68.5) | 78.4 (57.2–102.3) | 31.1 (18.7–51.5) | 45.4 (28.9–63.7) | 1.9 (0.5–5.9) | 29.2 (14.5–45.2) | 1.1 (0.6–1.7) | 0.6 (0.3–0.9) | 0.5 (0.3–0.8) | 0.007 (0.003–0.02) | 2.6 (1.4–4.2) | 0.1 (0.03–0.2) | 0.003 (0.0003–0.01) | 2.5 (1.3–4.1) | 0.2 (0.1–0.3) | 2.1 (1.4–2.9) | 1.6 (1.0–2.5) | 1.0 (0.6–1.6) | 1.1 (0.7–1.8) | 3.7 (2.0–6.0) |
| Baringo | 129.0 (94.2–175.8) | 1.6 (0.9–2.9) | 33.0 (20.7–52.3) | 50.7 (32.7–77.7) | 19.3 (9.1–35.9) | 29.7 (18.5–50.0) | 1.7 (0.3–5.2) | 29.9 (17.6–49.1) | 1.2 (0.7–2.0) | 0.7 (0.4–1.3) | 0.5 (0.2–0.9) | 0.008 (0.003–0.02) | 2.2 (1.1–3.9) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.01) | 2.1 (1.1–3.8) | 0.2 (0.1–0.3) | 2.5 (1.5–3.7) | 1.6 (0.9–2.4) | 1.2 (0.7–2.1) | 1.0 (0.6–1.7) | 3.8 (1.9–6.6) |
| Bomet | 153.8 (118.4–191.3) | 1.3 (0.7–2.2) | 42.4 (27.7–59.8) | 66.4 (45.7–89.0) | 27.5 (15.8–43.3) | 37.2 (24.2–52.7) | 1.7 (0.4–4.8) | 29.9 (16.7–46.4) | 1.2 (0.7–2.0) | 0.7 (0.4–1.2) | 0.5 (0.3–0.9) | 0.008 (0.003–0.02) | 2.5 (1.3–4.3) | 0.1 (0.03–0.2) | 0.002 (0.0003–0.01) | 2.5 (1.3–4.2) | 0.2 (0.1–0.3) | 2.3 (1.6–3.2) | 1.4 (0.8–2.0) | 1.1 (0.7–1.8) | 1.0 (0.6–1.6) | 4.1 (2.2–6.5) |
| Bungoma | 144.0 (111.2–182.3) | 1.5 (0.8–2.5) | 39.2 (24.9–55.7) | 64.3 (44.4–86.4) | 26.4 (15.6–41.7) | 36.4 (24.3–50.5) | 1.6 (0.4–4.7) | 26.6 (14.4–40.0) | 1.1 (0.6–1.7) | 0.6 (0.3–1.0) | 0.5 (0.2–0.8) | 0.007 (0.003–0.02) | 2.3 (1.2–3.8) | 0.1 (0.03–0.2) | 0.002 (0.0003–0.01) | 2.3 (1.1–3.7) | 0.2 (0.1–0.3) | 2.1 (1.4–3.0) | 1.1 (0.7–1.7) | 1.0 (0.5–1.5) | 1.0 (0.6–1.5) | 3.6 (1.9–6.2) |
| Busia | 138.8 (107.2–179.2) | 1.3 (0.7–2.1) | 34.7 (22.1–48.8) | 64.6 (46.6–86.1) | 25.7 (14.0–40.0) | 37.5 (25.8–53.8) | 1.5 (0.4–4.2) | 26.9 (15.1–41.3) | 1.0 (0.6–1.5) | 0.6 (0.3–0.9) | 0.4 (0.2–0.7) | 0.006 (0.002–0.02) | 2.1 (1.1–3.2) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.01) | 2.0 (1.1–3.1) | 0.1 (0.1–0.2) | 2.0 (1.4–2.9) | 1.0 (0.6–1.6) | 1.0 (0.6–1.7) | 0.8 (0.5–1.3) | 3.2 (1.7–5.5) |
| Elgeyo-Marakwet | 146.3 (105.5–188.9) | 1.1 (0.6–1.9) | 42.9 (27.3–63.5) | 61.2 (37.1–94.0) | 28.6 (14.5–51.1) | 31.1 (17.0–49.4) | 1.4 (0.3–3.7) | 27.7 (14.6–43.0) | 1.3 (0.7–2.1) | 0.8 (0.4–1.3) | 0.5 (0.2–0.9) | 0.009 (0.003–0.02) | 2.2 (1.0–3.9) | 0.05 (0.02–0.1) | 0.002 (0.0002–0.01) | 2.1 (1.0–3.9) | 0.1 (0.1–0.3) | 2.3 (1.5–3.4) | 1.4 (0.8–2.3) | 1.2 (0.7–2.0) | 0.9 (0.6–1.6) | 3.9 (2.1–6.5) |
| Embu | 201.4 (152.5–251.6) | 2.1 (1.1–3.5) | 50.8 (33.1–71.6) | 108.0 (75.1–149.1) | 49.5 (32.2–73.8) | 57.1 (35.2–84.2) | 1.4 (0.5–3.7) | 28.8 (13.2–46.0) | 1.0 (0.6–1.6) | 0.5 (0.3–0.9) | 0.5 (0.3–0.8) | 0.005 (0.002–0.01) | 2.3 (1.0–3.9) | 0.1 (0.05–0.3) | 0.002 (0.0002–0.01) | 2.2 (0.9–3.8) | 0.2 (0.1–0.4) | 1.8 (1.2–2.7) | 1.0 (0.6–1.7) | 1.0 (0.5–1.8) | 0.9 (0.5–1.4) | 3.3 (1.7–5.7) |
| Garissa | 124.6 (89.7–167.3) | 1.4 (0.7–2.5) | 34.0 (20.5–51.6) | 52.4 (33.7–76.8) | 22.9 (11.3–36.6) | 28.1 (16.7–41.9) | 1.4 (0.3–3.9) | 25.0 (13.4–38.7) | 1.0 (0.6–1.6) | 0.6 (0.3–1.0) | 0.4 (0.2–0.8) | 0.007 (0.002–0.02) | 2.0 (1.1–3.3) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.009) | 1.9 (1.1–3.2) | 0.2 (0.1–0.3) | 2.1 (1.3–2.9) | 1.1 (0.7–1.6) | 1.0 (0.5–1.5) | 1.0 (0.6–1.7) | 3.4 (1.6–5.7) |
| Homa Bay | 172.8 (138.2–211.8) | 1.8 (1.0–2.8) | 48.0 (31.6–66.6) | 79.9 (56.1–107.9) | 35.1 (22.1–52.8) | 43.3 (27.7–59.3) | 1.5 (0.5–4.2) | 30.3 (16.0–45.3) | 1.2 (0.7–2.0) | 0.7 (0.3–1.1) | 0.5 (0.3–1.0) | 0.007 (0.003–0.02) | 2.4 (1.2–4.0) | 0.1 (0.03–0.2) | 0.002 (0.0003–0.01) | 2.3 (1.2–3.9) | 0.2 (0.1–0.4) | 2.2 (1.4–3.0) | 1.2 (0.7–1.9) | 1.1 (0.6–1.9) | 0.9 (0.6–1.5) | 3.8 (2.0–6.0) |
| Isiolo | 125.7 (97.2–153.7) | 0.9 (0.5–1.4) | 35.2 (25.0–48.0) | 52.1 (38.3–67.6) | 22.1 (14.8–31.9) | 28.8 (20.2–40.0) | 1.2 (0.4–3.0) | 25.5 (14.3–38.4) | 1.1 (0.6–1.7) | 0.7 (0.4–1.0) | 0.4 (0.2–0.7) | 0.007 (0.003–0.02) | 1.8 (0.9–3.1) | 0.05 (0.02–0.1) | 0.002 (0.0002–0.009) | 1.8 (0.9–3.0) | 0.1 (0.1–0.2) | 2.4 (1.7–3.3) | 1.3 (0.8–2.0) | 1.2 (0.7–1.9) | 0.7 (0.4–1.1) | 3.2 (1.9–4.9) |
| Kajiado | 131.6 (95.7–166.5) | 1.0 (0.6–1.7) | 36.1 (22.3–53.9) | 57.8 (36.5–80.6) | 27.5 (15.1–44.0) | 29.2 (17.4–45.0) | 1.1 (0.3–3.2) | 25.4 (13.4–40.2) | 1.0 (0.6–1.7) | 0.6 (0.3–1.0) | 0.4 (0.2–0.7) | 0.007 (0.002–0.02) | 1.8 (0.9–3.0) | 0.1 (0.02–0.1) | 0.001 (0.0002–0.006) | 1.7 (0.9–2.9) | 0.1 (0.1–0.2) | 2.1 (1.4–3.0) | 1.1 (0.7–1.7) | 1.0 (0.6–1.7) | 0.7 (0.4–1.2) | 3.3 (1.7–5.2) |
| Kakamega | 144.9 (109.3–191.7) | 1.2 (0.7–2.0) | 38.4 (23.6–57.1) | 63.3 (41.3–88.6) | 27.8 (13.0–49.3) | 33.9 (20.8–53.4) | 1.5 (0.3–3.8) | 29.0 (16.1–44.7) | 1.1 (0.7–1.8) | 0.7 (0.4–1.1) | 0.5 (0.2–0.8) | 0.008 (0.003–0.02) | 2.2 (1.1–3.5) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.009) | 2.1 (1.1–3.4) | 0.1 (0.1–0.3) | 2.3 (1.5–3.3) | 1.3 (0.8–2.0) | 1.1 (0.7–1.9) | 0.9 (0.6–1.4) | 3.8 (2.0–6.3) |
| Kericho | 91.7 (69.8–114.9) | 0.5 (0.3–0.8) | 25.0 (17.1–33.9) | 35.1 (23.9–46.3) | 15.2 (9.5–22.6) | 18.9 (12.5–27.2) | 0.9 (0.3–2.1) | 21.5 (11.5–34.0) | 0.9 (0.6–1.5) | 0.6 (0.3–0.9) | 0.3 (0.2–0.6) | 0.007 (0.003–0.02) | 1.3 (0.6–2.3) | 0.02 (0.01–0.1) | 0.001 (0.0001–0.006) | 1.3 (0.6–2.3) | 0.1 (0.03–0.1) | 2.0 (1.4–2.8) | 1.2 (0.7–1.7) | 1.1 (0.6–1.7) | 0.5 (0.4–0.8) | 2.5 (1.5–3.8) |
| Kiambu | 114.2 (86.2–150.6) | 1.3 (0.7–2.1) | 28.3 (18.7–42.6) | 47.9 (31.7–68.5) | 18.6 (11.2–28.3) | 28.1 (18.8–41.7) | 1.3 (0.3–3.5) | 25.6 (14.1–39.0) | 1.1 (0.6–1.7) | 0.6 (0.3–1.0) | 0.4 (0.2–0.8) | 0.008 (0.003–0.02) | 1.8 (1.0–3.2) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.008) | 1.8 (1.0–3.1) | 0.2 (0.1–0.3) | 2.1 (1.3–3.1) | 1.2 (0.7–1.9) | 1.0 (0.5–1.5) | 0.8 (0.5–1.3) | 3.2 (1.8–5.2) |
| Kilifi | 109.5 (78.7–148.2) | 1.1 (0.6–1.8) | 30.4 (19.3–45.9) | 40.7 (25.4–60.1) | 15.9 (7.8–26.9) | 23.3 (14.0–39.9) | 1.5 (0.3–3.9) | 25.4 (14.6–40.8) | 1.1 (0.6–1.7) | 0.7 (0.4–1.1) | 0.4 (0.2–0.8) | 0.008 (0.003–0.02) | 1.9 (0.9–3.4) | 0.04 (0.01–0.1) | 0.002 (0.0002–0.01) | 1.9 (0.9–3.3) | 0.1 (0.1–0.2) | 2.2 (1.4–3.2) | 1.3 (0.8–1.9) | 1.2 (0.7–1.8) | 0.9 (0.6–1.6) | 3.2 (1.7–5.6) |
| Kirinyaga | 155.1 (114.6–199.5) | 1.5 (0.6–2.6) | 40.7 (26.3–59.2) | 69.2 (45.5–99.9) | 24.9 (13.3–41.2) | 42.1 (28.4–60.2) | 2.2 (0.6–6.8) | 27.9 (14.1–45.4) | 1.4 (0.8–2.3) | 0.7 (0.4–1.2) | 0.6 (0.3–1.2) | 0.01 (0.004–0.03) | 3.3 (1.7–6.0) | 0.1 (0.04–0.3) | 0.003 (0.0004–0.02) | 3.2 (1.6–5.9) | 0.2 (0.1–0.4) | 2.2 (1.3–3.1) | 1.5 (0.8–2.2) | 1.0 (0.6–1.6) | 1.4 (0.8–2.2) | 4.9 (2.7–7.9) |
| Kisii | 123.6 (92.3–165.2) | 0.8 (0.4–1.3) | 38.1 (25.6–53.4) | 49.0 (34.3–67.4) | 23.2 (14.2–33.9) | 24.7 (16.7–35.5) | 1.1 (0.3–2.7) | 24.6 (13.1–38.7) | 1.0 (0.6–1.6) | 0.6 (0.3–1.0) | 0.4 (0.2–0.7) | 0.008 (0.003–0.02) | 1.7 (0.8–3.0) | 0.05 (0.02–0.1) | 0.001 (0.0002–0.007) | 1.7 (0.8–2.9) | 0.1 (0.05–0.2) | 2.1 (1.3–3.0) | 1.2 (0.8–1.8) | 1.0 (0.6–1.6) | 0.7 (0.5–1.2) | 3.1 (1.6–5.3) |
| Kisumu | 167.1 (129.6–215.5) | 1.7 (1.0–2.9) | 50.9 (32.2–76.0) | 70.7 (46.7–99.2) | 30.4 (16.4–54.9) | 33.8 (20.7–55.1) | 3.5 (0.3–4.4) | 30.3 (15.9–48.4) | 1.2 (0.7–1.9) | 0.7 (0.4–1.1) | 0.5 (0.2–0.8) | 0.008 (0.003–0.02) | 2.4 (1.1–3.9) | 0.1 (0.02–0.2) | 0.002 (0.0002–0.01) | 2.3 (1.1–3.8) | 0.1 (0.1–0.3) | 2.2 (1.5–3.0) | 1.2 (0.9–2.6) | 1.2 (0.7–2.0) | 1.0 (0.6–1.8) | 3.8 (2.0–6.6) |
| Kitui | 161.0 (120.2–205.0) | 1.5 (0.9–2.5) | 49.6 (29.8–77.1) | 70.9 (44.5–106.3) | 35.4 (18.9–59.9) | 34.1 (19.6–51.3) | 1.4 (0.3–3.7) | 26.2 (14.0–40.3) | 1.2 (0.7–2.0) | 0.7 (0.4–1.2) | 0.5 (0.2–0.9) | 0.007 (0.003–0.02) | 2.3 (1.1–3.8) | 0.1 (0.03–0.2) | 0.002 (0.0002–0.009) | 2.2 (1.1–3.7) | 0.2 (0.1–0.3) | 1.9 (1.2–2.8) | 1.6 (0.8–2.6) | 1.1 (0.7–2.0) | 0.9 (0.5–1.6) | 3.6 (2.0–5.7) |
| Kwale | 134.4 (91.7–186.4) | 1.1 (0.6–1.9) | 35.6 (22.0–56.3) | 56.0 (34.3–90.9) | 23.1 (11.2–43.5) | 31.1 (17.2–53.3) | 1.8 (0.3–4.8) | 27.6 (15.3–43.9) | 1.4 (0.8–2.3) | 0.8 (0.4–1.4) | 0.5 (0.2–1.0) | 0.009 (0.003–0.02) | 2.3 (1.2–4.1) | 0.05 (0.02–0.1) | 0.002 (0.0003–0.02) | 2.3 (1.1–4.1) | 0.1 (0.1–0.3) | 2.5 (1.5–4.0) | 1.2 (0.7–2.0) | 1.5 (0.8–2.6) | 0.9 (0.5–1.6) | 4.0 (1.9–7.1) |
| Laikipia | 143.3 (110.9–184.8) | 1.2 (0.6–1.9) | 44.4 (29.4–63.1) | 59.8 (41.7–81.5) | 27.9 (16.3–46.0) | 30.5 (20.2–44.9) | 1.4 (0.3–3.9) | 25.6 (14.3–38.5) | 1.1 (0.7–1.7) | 0.6 (0.4–1.0) | 0.5 (0.2–0.8) | 0.007 (0.003–0.02) | 2.2 (1.1–3.5) | 0.1 (0.03–0.2) | 0.002 (0.0002–0.009) | 2.1 (1.1–3.4) | 0.1 (0.1–0.3) | 2.1 (1.3–2.9) | 1.5 (0.9–2.3) | 1.1 (0.7–1.9) | 0.8 (0.5–1.3) | 3.5 (1.8–5.6) |
| Lamu | 134.0 (102.8–167.0) | 1.1 (0.6–1.8) | 34.5 (22.1–48.2) | 55.8 (37.8–76.0) | 19.6 (10.8–30.9) | 34.5 (23.5–48.0) | 1.8 (0.5–4.8) | 29.0 (15.8–43.9) | 1.2 (0.7–1.9) | 0.7 (0.4–1.2) | 0.5 (0.3–0.8) | 0.01 (0.003–0.03) | 2.3 (1.2–4.0) | 0.1 (0.02–0.1) | 0.003 (0.0004–0.02) | 2.3 (1.1–4.0) | 0.1 (0.1–0.3) | 2.5 (1.7–3.4) | 1.4 (0.9–2.1) | 1.2 (0.7–1.9) | 1.0 (0.6–1.7) | 3.7 (2.1–5.9) |
| Machakos | 140.3 (97.2–201.3) | 1.4 (0.7–2.5) | 38.5 (22.9–64.2) | 56.5 (31.2–91.7) | 25.8 (10.2–48.5) | 29.2 (14.6–53.2) | 1.5 (0.2–3.9) | 30.8 (16.0–52.4) | 1.2 (0.7–2.1) | 0.7 (0.4–1.3) | 0.5 (0.2–0.9) | 0.008 (0.003–0.02) | 2.2 (1.1–3.9) | 0.05 (0.02–0.1) | 0.002 (0.0002–0.01) | 2.1 (1.0–3.8) | 0.1 (0.1–0.3) | 2.3 (1.4–3.6) | 1.2 (0.7–1.9) | 1.2 (0.7–1.9) | 1.0 (0.6–1.8) | 3.8 (1.7–7.0) |
| Makueni | 155.5 (118.1–198.6) | 2.0 (1.1–3.1) | 35.7 (21.7–52.5) | 82.8 (54.9–109.9) | 37.7 (23.9–55.1) | 44.1 (26.0–64.6) | 1.0 (0.3–2.9) | 25.3 (13.0–40.9) | 1.0 (0.5–1.5) | 0.5 (0.2–0.8) | 0.4 (0.2–0.7) | 0.004 (0.001–0.01) | 1.8 (1.0–3.0) | 0.1 (0.05–0.3) | 0.002 (0.0002–0.008) | 1.7 (0.9–2.8) | 0.3 (0.1–0.5) | 1.6 (1.0–2.6) | 0.8 (0.4–1.5) | 0.8 (0.4–1.5) | 0.7 (0.4–1.2) | 2.8 (1.5–4.6) |
| Mandera | 143.3 (112.2–176.0) | 2.3 (1.1–3.7) | 36.6 (23.1–50.5) | 63.9 (43.6–85.1) | 25.3 (15.1–39.4) | 37.2 (23.7–50.6) | 1.4 (0.3–4.7) | 28.4 (17.2–43.2) | 1.1 (0.7–1.7) | 0.6 (0.3–1.0) | 0.5 (0.2–0.9) | 0.006 (0.002–0.01) | 2.2 (1.2–3.5) | 0.1 (0.04–0.2) | 0.002 (0.0002–0.01) | 2.1 (1.2–3.4) | 0.2 (0.1–0.5) | 2.1 (1.3–3.0) | 1.0 (0.6–1.8) | 1.0 (0.5–1.6) | 1.0 (0.6–1.5) | 3.5 (1.9–5.8) |
| Marsabit | 132.9 (105.0–166.5) | 1.1 (0.6–1.7) | 34.9 (23.9–48.9) | 58.3 (40.0–79.2) | 23.7 (13.3–35.9) | 33.3 (22.2–46.8) | 1.4 (0.4–3.8) | 26.8 (14.1–39.9) | 1.1 (0.7–1.8) | 0.7 (0.3–1.1) | 0.5 (0.2–0.8) | 0.008 (0.003–0.02) | 1.9 (1.0–3.2) | 0.05 (0.02–0.1) | 0.002 (0.0003–0.008) | 1.9 (1.0–3.2) | 0.1 (0.1–0.3) | 2.2 (1.6–3.1) | 1.1 (0.7–1.8) | 1.2 (0.7–1.8) | 0.8 (0.5–1.2) | 3.4 (1.9–5.5) |
| Meru | 125.7 (94.8–158.6) | 1.4 (0.8–2.3) | 32.5 (21.9–46.6) | 56.9 (39.3–76.5) | 25.9 (14.7–38.9) | 29.9 (19.3–43.2) | 1.1 (0.3–3.1) | 24.4 (13.5–36.7) | 0.9 (0.5–1.5) | 0.5 (0.3–0.9) | 0.4 (0.2–0.7) | 0.006 (0.002–0.02) | 1.7 (1.0–2.6) | 0.1 (0.02–0.1) | 0.001 (0.0001–0.006) | 1.6 (0.9–2.6) | 0.1 (0.1–0.2) | 2.1 (1.3–3.0) | 1.0 (0.6–1.5) | 0.9 (0.5–1.4) | 0.9 (0.5–1.4) | 3.0 (1.6–4.9) |
| Migori | 114.8 (92.2–147.5) | 0.6 (0.3–0.9) | 36.6 (25.0–52.3) | 42.7 (30.5–56.6) | 20.0 (13.0–29.5) | 21.6 (15.2–29.5) | 1.1 (0.4–2.4) | 23.4 (12.6–37.1) | 1.1 (0.6–1.7) | 0.7 (0.4–1.1) | 0.4 (0.2–0.7) | 0.009 (0.003–0.02) | 1.8 (0.7–3.1) | 0.04 (0.02–0.1) | 0.001 (0.0002–0.007) | 1.7 (0.7–3.0) | 0.1 (0.04–0.2) | 2.2 (1.5–3.0) | 1.7 (1.0–2.8) | 1.2 (0.7–1.8) | 0.6 (0.4–1.0) | 3.0 (1.8–4.7) |
| Mombasa | 111.3 (76.4–165.9) | 1.1 (0.6–1.8) | 31.9 (19.9–52.3) | 39.7 (24.6–64.7) | 15.7 (7.4–28.1) | 22.4 (13.5–38.7) | 1.6 (0.2–4.3) | 25.9 (14.5–44.2) | 1.2 (0.7–2.0) | 0.7 (0.4–1.2) | 0.4 (0.2–0.9) | 0.008 (0.003–0.02) | 2.1 (0.9–3.7) | 0.04 (0.01–0.1) | 0.002 (0.0002–0.02) | 2.0 (0.9–3.7) | 0.1 (0.1–0.3) | 2.2 (1.4–3.4) | 1.5 (0.9–2.4) | 1.2 (0.7–1.9) | 1.0 (0.5–1.8) | 3.5 (1.7–6.3) |
| Murang'a | 79.0 (56.1–112.8) | 0.3 (0.2–0.5) | 24.1 (14.9–37.8) | 25.0 (15.6–36.2) | 10.6 (6.2–17.1) | 13.3 (7.9–23.2) | 1.0 (0.3–2.4) | 18.1 (10.5–30.3) | 1.1 (0.6–1.9) | 0.7 (0.4–1.3) | 0.4 (0.2–0.7) | 0.009 (0.003–0.02) | 1.6 (0.6–3.3) | 0.03 (0.01–0.1) | 0.002 (0.0001–0.01) | 1.6 (0.6–3.2) | 0.1 (0.03–0.1) | 2.2 (1.4–3.4) | 1.7 (0.9–3.2) | 1.4 (0.8–2.5) | 0.6 (0.4–1.2) | 2.6 (1.4–4.4) |
| Nairobi | 128.2 (93.9–167.8) | 0.8 (0.4–1.3) | 35.2 (23.0–50.8) | 54.7 (35.2–77.6) | 25.0 (13.3–42.4) | 28.6 (17.6–44.0) | 1.2 (0.4–2.7) | 26.1 (13.6–40.8) | 1.1 (0.7–1.8) | 0.7 (0.4–1.1) | 0.4 (0.2–0.8) | 0.008 (0.003–0.02) | 1.7 (0.7–2.9) | 0.03 (0.01–0.1) | 0.001 (0.0002–0.008) | 1.6 (0.7–2.9) | 0.1 (0.04–0.2) | 2.3 (1.5–3.3) | 1.3 (0.7–2.0) | 1.3 (0.8–2.1) | 0.6 (0.4–1.0) | 3.1 (1.8–5.1) |
| Nakuru | 143.4 (110.4–180.9) | 1.3 (0.8–2.2) | 37.4 (25.1–54.0) | 64.5 (45.7–84.6) | 26.9 (15.0–41.7) | 36.1 (24.1–53.5) | 1.5 (0.4–4.8) | 27.7 (14.8–41.6) | 1.1 (0.7–1.7) | 0.6 (0.3–1.0) | 0.5 (0.2–0.8) | 0.008 (0.003–0.02) | 2.1 (1.1–3.4) | 0.1 (0.02–0.2) | 0.002 (0.0002–0.01) | 2.0 (1.1–3.4) | 0.1 (0.1–0.3) | 2.2 (1.4–3.2) | 1.4 (0.9–2.2) | 1.1 (0.7–1.7) | 0.9 (0.5–1.5) | 3.5 (1.8–5.9) |
| Nandi | 142.0 (113.0–177.5) | 1.9 (1.2–2.9) | 35.5 (23.7–51.2) | 64.8 (47.4–84.1) | 27.0 (15.4–42.8) | 36.4 (24.8–50.9) | 1.4 (0.3–4.2) | 27.7 (15.4–41.1) | 1.1 (0.7–1.6) | 0.6 (0.3–1.0) | 0.5 (0.2–0.8) | 0.006 (0.002–0.02) | 2.0 (1.1–3.2) | 0.1 (0.02–0.1) | 0.002 (0.0002–0.01) | 2.0 (1.1–3.2) | 0.2 (0.1–0.3) | 2.2 (1.4–3.1) | 1.3 (0.8–1.9) | 1.1 (0.6–1.8) | 1.0 (0.6–1.6) | 3.4 (1.8–5.5) |
| Narok | 133.1 (85.3–184.2) | 1.1 (0.5–2.0) | 29.2 (15.7–57.0) | 67.2 (34.2–105.3) | 26.9 (10.6–55.4) | 38.6 (18.7–66.8) | 1.7 (0.4–4.9) | 24.2 (12.6–41.7) | 0.9 (0.5–1.6) | 0.5 (0.3–0.9) | 0.4 (0.2–0.8) | 0.007 (0.002–0.02) | 2.4 (1.0–4.4) | 0.1 (0.02–0.2) | 0.002 (0.0002–0.01) | 2.4 (1.0–4.3) | 0.1 (0.05–0.2) | 1.8 (1.1–2.7) | 0.8 (0.4–1.4) | 0.9 (0.5–1.6) | 0.9 (0.6–1.6) | 3.5 (1.7–6.8) |
| Nyamira | 116.5 (84.1–152.7) | 0.9 (0.5–1.6) | 31.3 (20.0–44.9) | 50.2 (32.7–69.9) | 20.9 (10.3–33.6) | 27.9 (18.3–44.1) | 1.3 (0.3–3.7) | 23.5 (12.5–37.1) | 1.0 (0.6–1.5) | 0.6 (0.3–1.0) | 0.4 (0.2–0.7) | 0.007 (0.002–0.02) | 1.8 (0.8–3.2) | 0.04 (0.01–0.1) | 0.002 (0.0002–0.01) | 1.7 (0.8–3.1) | 0.1 (0.04–0.2) | 1.9 (1.2–2.8) | 1.1 (0.7–1.7) | 1.0 (0.6–1.6) | 0.7 (0.4–1.2) | 3.0 (1.6–5.2) |
| Nyandarua | 106.8 (75.2–146.3) | 0.6 (0.3–1.1) | 31.8 (20.2–48.0) | 40.5 (24.8–62.4) | 18.7 (8.8–32.1) | 20.6 (11.4–35.7) | 1.2 (0.2–3.0) | 22.9 (12.8–39.3) | 1.1 (0.6–1.8) | 0.7 (0.4–1.1) | 0.4 (0.2–0.7) | 0.007 (0.002–0.02) | 1.5 (0.7–2.9) | 0.02 (0.008–0.1) | 0.002 (0.0002–0.009) | 1.5 (0.7–2.8) | 0.1 (0.03–0.1) | 2.0 (1.2–3.0) | 1.5 (0.8–2.4) | 1.2 (0.7–2.0) | 0.7 (0.4–1.1) | 2.8 (1.4–5.0) |
| Nyeri | 161.7 (122.3–200.9) | 3.1 (1.7–5.1) | 39.2 (25.0–57.8) | 72.7 (51.0–101.0) | 28.5 (16.2–47.0) | 42.3 (28.6–61.4) | 1.9 (0.3–6.4) | 32.6 (19.1–47.8) | 1.3 (0.7–1.9) | 0.7 (0.3–1.1) | 0.6 (0.3–1.0) | 0.008 (0.003–0.02) | 2.7 (1.5–4.4) | 0.1 (0.04–0.3) | 0.003 (0.0003–0.01) | 2.6 (1.5–4.2) | 0.3 (0.1–0.6) | 2.2 (1.3–3.3) | 1.1 (0.6–1.9) | 1.1 (0.6–1.9) | 1.3 (0.8–2.1) | 4.0 (2.1–6.9) |
| Samburu | 110.7 (78.9–156.0) | 1.1 (0.6–2.1) | 35.1 (23.2–53.7) | 38.5 (25.1–56.4) | 17.2 (9.4–29.9) | 20.2 (12.1–34.2) | 1.2 (0.2–3.6) | 24.2 (13.4–38.0) | 1.0 (0.6–1.6) | 0.6 (0.3–1.0) | 0.4 (0.2–0.7) | 0.007 (0.002–0.02) | 1.8 (0.9–3.1) | 0.1 (0.02–0.2) | 0.002 (0.0002–0.01) | 1.8 (0.8–3.0) | 0.2 (0.1–0.3) | 2.2 (1.3–3.2) | 1.3 (0.8–2.0) | 1.1 (0.6–1.8) | 0.9 (0.5–1.4) | 3.2 (1.5–5.4) |
| Siaya | 113.0 (82.0–153.5) | 0.8 (0.4–1.3) | 28.3 (16.5–47

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mozambique | 201.2 (170.4–237.8) | 1.9 (1.2–2.8) | 56.5 (42.6–71.3) | 94.6 (74.9–115.1) | 48.1 (25.4–66.6) | 44.7 (27.0–72.1) | 1.8 (0.3–5.2) | 35.5 (19.1–56.2) | 1.1 (0.7–1.7) | 0.6 (0.3–1.0) | 0.5 (0.3–0.8) | 0.005 (0.002–0.01) | 1.8 (1.1–2.7) | 0.1 (0.04–0.2) | 0.002 (0.0002–0.008) | 1.7 (1.0–2.6) | 0.2 (0.1–0.4) | 2.1 (1.5–2.8) | 1.5 (0.8–2.2) | 1.1 (0.6–1.8) | 1.0 (0.6–1.7) | 3.9 (2.0–6.6) |
| Rwanda | 252.4 (200.3–310.6) | 2.7 (1.5–4.3) | 66.8 (45.2–97.0) | 112.9 (78.1–155.0) | 46.5 (23.7–72.5) | 63.4 (43.9–93.0) | 3.1 (0.8–8.8) | 47.3 (26.7–72.8) | 2.2 (1.3–3.5) | 1.3 (0.7–2.0) | 0.9 (0.4–1.7) | 0.01 (0.005–0.04) | 4.4 (2.4–6.8) | 0.2 (0.1–0.3) | 0.005 (0.0006–0.03) | 4.2 (2.3–6.6) | 0.3 (0.1–0.6) | 3.5 (2.3–5.1) | 2.1 (1.2–3.2) | 2.1 (1.3–3.4) | 1.5 (0.9–2.5) | 6.4 (3.4–10.8) |
| Somalia | 129.5 (96.2–165.1) | 2.7 (1.3–5.2) | 28.5 (16.7–43.3) | 65.1 (43.5–84.3) | 27.9 (13.3–44.0) | 35.8 (23.1–50.2) | 1.4 (0.2–5.1) | 23.8 (12.1–38.5) | 0.7 (0.4–1.1) | 0.3 (0.2–0.6) | 0.3 (0.2–0.6) | 0.003 (0.0009–0.007) | 2.0 (1.0–3.2) | 0.2 (0.1–0.4) | 0.002 (0.0002–0.01) | 1.8 (1.0–2.9) | 0.2 (0.1–0.4) | 1.4 (0.8–2.0) | 0.6 (0.3–1.2) | 0.6 (0.3–1.1) | 0.9 (0.5–1.5) | 2.9 (1.3–6.5) |
| South Sudan | 331.0 (263.7–395.0) | 5.7 (3.5–8.4) | 87.1 (52.1–123.1) | 157.8 (118.0–195.8) | 69.5 (42.4–106.6) | 84.9 (55.8–119.0) | 3.3 (0.8–10.7) | 55.0 (33.1–83.9) | 2.0 (1.1–3.1) | 1.0 (0.5–1.7) | 0.9 (0.5–1.6) | 0.01 (0.004–0.02) | 5.3 (3.0–8.0) | 0.3 (0.1–0.8) | 0.006 (0.0006–0.03) | 5.0 (2.8–7.5) | 0.5 (0.2–1.0) | 3.4 (2.2–4.6) | 2.2 (1.3–3.9) | 1.8 (1.0–3.2) | 2.9 (1.8–4.6) | 7.4 (3.5–13.3) |
| Uganda | 192.2 (149.4–234.9) | 2.0 (1.2–3.2) | 56.0 (35.1–83.0) | 81.4 (55.6–114.4) | 37.5 (22.2–56.2) | 41.8 (27.5–68.1) | 2.0 (0.4–5.8) | 34.3 (17.5–55.0) | 1.6 (1.0–2.6) | 0.9 (0.5–1.5) | 0.7 (0.3–1.2) | 0.01 (0.004–0.03) | 3.1 (1.6–5.0) | 0.1 (0.04–0.2) | 0.003 (0.0003–0.01) | 3.0 (1.6–4.9) | 0.3 (0.1–0.5) | 3.1 (2.0–4.5) | 2.0 (1.2–3.0) | 1.7 (0.9–2.6) | 1.3 (0.8–2.2) | 5.5 (2.6–10.1) |
| United Republic of Tanzania | 208.5 (170.4–248.6) | 2.1 (1.3–3.2) | 53.8 (36.1–75.4) | 91.2 (67.1–122.3) | 46.5 (29.6–74.8) | 42.7 (26.0–65.3) | 2.0 (0.5–4.9) | 40.1 (22.9–58.3) | 1.8 (1.1–2.6) | 1.0 (0.6–1.6) | 0.7 (0.4–1.2) | 0.01 (0.004–0.02) | 3.4 (1.7–5.1) | 0.1 (0.04–0.2) | 0.003 (0.0003–0.01) | 3.3 (1.6–5.0) | 0.2 (0.1–0.4) | 3.2 (2.2–4.3) | 3.5 (1.8–5.7) | 1.9 (1.2–2.9) | 1.4 (0.9–2.2) | 6.0 (3.0–10.6) |
| Zambia | 337.2 (280.6–398.5) | 2.2 (1.3–3.4) | 93.5 (61.9–130.9) | 151.0 (115.6–188.5) | 69.6 (45.6–96.0) | 77.9 (57.4–113.2) | 3.4 (1.1–8.2) | 64.1 (34.5–111.9) | 2.3 (1.4–3.6) | 1.4 (0.7–2.2) | 0.9 (0.5–1.7) | 0.02 (0.006–0.04) | 4.4 (2.0–7.1) | 0.1 (0.05–0.3) | 0.004 (0.0006–0.02) | 4.2 (1.9–7.0) | 0.3 (0.1–0.5) | 4.3 (3.0–6.1) | 3.0 (1.9–4.4) | 2.5 (1.5–3.8) | 1.7 (1.0–2.6) | 7.9 (4.2–13.1) |
| Southern Sub-Saharan Africa | 198.4 (178.8–218.3) | 1.7 (1.1–2.5) | 58.6 (51.0–67.8) | 78.8 (66.5–91.9) | 38.2 (31.3–47.3) | 38.5 (31.2–47.1) | 2.1 (1.3–2.9) | 37.0 (28.1–47.5) | 1.3 (0.9–1.8) | 0.9 (0.6–1.3) | 0.3 (0.2–0.6) | 0.01 (0.006–0.03) | 10.1 (7.0–13.6) | 0.2 (0.1–0.3) | 0.008 (0.003–0.02) | 10.0 (6.8–13.5) | 0.1 (0.1–0.1) | 2.9 (2.3–3.6) | 1.7 (1.4–2.2) | 1.6 (1.2–2.1) | 0.8 (0.6–1.1) | 3.8 (2.7–5.0) |
| Botswana | 156.7 (122.8–193.7) | 1.0 (0.5–1.9) | 51.1 (37.1–69.0) | 58.2 (40.3–78.4) | 31.3 (20.4–43.0) | 25.9 (17.3–35.9) | 1.1 (0.5–2.3) | 29.9 (19.2–44.7) | 1.0 (0.6–1.5) | 0.7 (0.4–1.2) | 0.3 (0.1–0.5) | 0.01 (0.005–0.03) | 6.6 (4.0–10.0) | 0.1 (0.03–0.1) | 0.004 (0.0009–0.01) | 6.6 (3.9–9.9) | 0.1 (0.03–0.1) | 2.3 (1.6–3.1) | 1.5 (1.0–2.3) | 1.4 (0.8–2.1) | 0.6 (0.4–1.0) | 3.0 (1.9–4.5) |
| Eswatini | 194.7 (151.2–243.1) | 2.0 (1.1–3.5) | 52.9 (36.9–73.1) | 87.8 (61.6–114.9) | 41.4 (28.3–58.4) | 44.9 (31.3–62.0) | 1.5 (0.7–2.9) | 32.8 (20.9–48.2) | 1.0 (0.6–1.6) | 0.7 (0.4–1.0) | 0.4 (0.2–0.7) | 0.01 (0.005–0.03) | 8.0 (5.0–11.5) | 0.2 (0.1–0.3) | 0.005 (0.001–0.02) | 7.9 (4.9–11.3) | 0.1 (0.1–0.2) | 2.4 (1.6–3.4) | 1.3 (0.9–1.8) | 1.1 (0.6–1.7) | 1.0 (0.6–1.6) | 4.4 (2.4–7.7) |
| Lesotho | 277.2 (225.3–337.4) | 3.0 (1.4–6.5) | 59.8 (39.9–83.8) | 143.7 (108.5–186.3) | 65.3 (38.7–94.7) | 75.9 (52.5–110.4) | 2.5 (0.9–6.0) | 46.9 (27.7–75.4) | 1.2 (0.7–1.8) | 0.7 (0.4–1.2) | 0.4 (0.2–0.8) | 0.01 (0.004–0.02) | 11.6 (6.3–19.1) | 0.2 (0.1–0.4) | 0.008 (0.002–0.03) | 11.4 (6.2–18.6) | 0.1 (0.1–0.2) | 2.8 (1.7–3.8) | 1.2 (0.7–1.9) | 1.4 (0.8–2.1) | 1.0 (0.6–1.6) | 4.8 (2.6–7.8) |
| Namibia | 189.1 (152.4–226.6) | 1.9 (1.0–3.2) | 59.2 (41.6–80.7) | 76.0 (54.9–98.5) | 37.4 (25.8–52.3) | 37.1 (26.1–50.3) | 1.5 (0.7–2.8) | 32.0 (19.8–46.2) | 1.3 (0.7–2.0) | 0.9 (0.5–1.3) | 0.4 (0.2–0.7) | 0.02 (0.006–0.04) | 8.4 (5.1–12.3) | 0.1 (0.1–0.3) | 0.005 (0.001–0.02) | 8.2 (5.1–12.1) | 0.1 (0.1–0.2) | 2.4 (1.6–3.3) | 1.6 (1.1–2.3) | 1.3 (0.8–2.0) | 1.0 (0.6–1.5) | 3.9 (2.5–5.8) |
| South Africa | 200.2 (180.5–220.0) | 1.4 (1.0–1.8) | 60.5 (52.9–69.4) | 76.9 (64.9–90.0) | 38.5 (30.2–48.2) | 37.0 (30.0–45.8) | 1.4 (0.9–2.0) | 38.4 (29.4–49.1) | 1.3 (0.9–1.8) | 0.9 (0.6–1.4) | 0.3 (0.2–0.6) | 0.01 (0.006–0.03) | 10.2 (7.1–13.9) | 0.1 (0.05–0.2) | 0.004 (0.002–0.01) | 10.1 (7.0–13.8) | 0.1 (0.1–0.1) | 3.1 (2.5–3.9) | 2.0 (1.5–2.5) | 1.9 (1.5–2.5) | 0.9 (0.6–1.1) | 3.6 (2.6–4.9) |
| Eastern Cape | 209.2 (184.8–235.5) | 1.6 (1.1–2.3) | 54.6 (44.4–64.8) | 86.7 (70.8–105.8) | 43.0 (34.1–55.4) | 42.2 (33.1–53.0) | 1.5 (1.0–2.2) | 40.5 (30.1–54.3) | 1.2 (0.8–1.8) | 0.9 (0.5–1.3) | 0.4 (0.2–0.7) | 0.02 (0.006–0.03) | 13.6 (9.2–18.9) | 0.1 (0.04–0.2) | 0.003 (0.0009–0.01) | 13.5 (9.2–18.8) | 0.1 (0.1–0.2) | 3.0 (2.2–3.9) | 1.6 (1.1–2.2) | 1.6 (1.1–2.2) | 0.9 (0.6–1.2) | 3.7 (2.6–5.0) |
| Free State | 258.1 (231.9–289.6) | 1.5 (1.0–2.2) | 73.0 (60.8–85.8) | 101.9 (83.5–121.8) | 47.6 (37.0–61.2) | 52.5 (42.2–65.4) | 1.9 (1.2–2.6) | 53.8 (34.7–72.3) | 1.6 (1.0–2.2) | 1.1 (0.7–1.5) | 0.5 (0.3–0.8) | 0.02 (0.01–0.05) | 12.5 (8.7–16.5) | 0.1 (0.1–0.2) | 0.005 (0.002–0.01) | 12.4 (8.7–16.4) | 0.1 (0.1–0.1) | 3.4 (2.7–4.3) | 2.8 (2.0–3.6) | 1.5 (1.1–2.1) | 1.1 (0.8–1.5) | 5.0 (3.5–7.1) |
| Gauteng | 178.9 (158.1–201.0) | 1.4 (0.9–1.9) | 59.8 (50.9–72.5) | 59.9 (47.6–71.8) | 28.9 (22.4–36.8) | 29.6 (22.9–37.3) | 1.3 (0.9–1.9) | 33.7 (25.2–43.8) | 1.5 (0.9–2.1) | 1.2 (0.6–1.7) | 0.3 (0.2–0.5) | 0.01 (0.005–0.03) | 10.1 (7.0–13.8) | 0.1 (0.04–0.1) | 0.003 (0.0008–0.01) | 10.0 (6.9–13.7) | 0.1 (0.05–0.1) | 2.9 (2.2–3.6) | 2.5 (1.9–3.1) | 2.3 (1.8–3.0) | 0.8 (0.5–1.0) | 4.0 (2.7–5.8) |
| KwaZulu-Natal | 192.2 (166.5–220.8) | 1.2 (0.8–1.7) | 59.7 (47.7–73.3) | 75.8 (59.1–95.2) | 40.2 (30.2–51.8) | 34.2 (25.1–45.5) | 1.4 (0.8–2.1) | 35.9 (27.2–46.7) | 1.1 (0.7–1.8) | 0.8 (0.5–1.2) | 0.3 (0.1–0.6) | 0.01 (0.004–0.03) | 8.2 (5.4–11.9) | 0.1 (0.03–0.1) | 0.003 (0.0009–0.008) | 8.1 (5.3–11.8) | 0.1 (0.03–0.1) | 3.0 (2.2–3.9) | 1.4 (0.9–2.1) | 1.8 (1.3–2.3) | 0.8 (0.6–1.2) | 3.5 (2.4–4.8) |
| Limpopo | 205.5 (179.3–233.9) | 1.4 (0.9–2.3) | 43.2 (35.4–51.4) | 89.1 (72.4–108.5) | 46.5 (35.8–59.7) | 41.3 (32.3–52.3) | 1.3 (0.8–2.0) | 47.9 (34.3–62.5) | 1.0 (0.6–1.6) | 0.6 (0.3–1.1) | 0.4 (0.2–0.8) | 0.01 (0.003–0.04) | 11.5 (7.8–16.1) | 0.1 (0.1–0.2) | 0.007 (0.002–0.01) | 11.4 (7.7–16.0) | 0.1 (0.03–0.1) | 3.6 (2.6–4.7) | 1.2 (0.8–1.8) | 1.7 (1.2–2.4) | 0.9 (0.6–1.2) | 3.9 (2.6–5.3) |
| Mpumalanga | 186.7 (158.7–214.1) | 1.0 (0.6–1.8) | 52.0 (40.4–63.1) | 72.6 (56.5–89.4) | 38.0 (29.0–47.7) | 33.5 (25.5–43.1) | 1.1 (0.7–1.6) | 41.8 (28.6–55.7) | 0.9 (0.5–1.6) | 0.6 (0.3–1.0) | 0.3 (0.2–0.7) | 0.02 (0.008–0.04) | 9.3 (6.3–13.0) | 0.1 (0.1–0.2) | 0.004 (0.001–0.009) | 9.2 (6.3–12.8) | 0.1 (0.04–0.1) | 2.8 (2.1–3.5) | 1.3 (0.9–1.8) | 1.3 (0.9–1.7) | 0.7 (0.5–1.0) | 3.0 (2.0–4.2) |
| North-West | 239.7 (195.2–280.3) | 1.8 (1.1–2.7) | 61.6 (46.1–77.1) | 98.7 (73.8–125.8) | 45.8 (30.1–66.7) | 51.5 (36.1–70.4) | 1.4 (0.8–2.4) | 52.3 (31.1–76.0) | 1.2 (0.8–1.8) | 0.7 (0.4–1.2) | 0.4 (0.2–0.7) | 0.02 (0.006–0.04) | 13.3 (8.2–18.8) | 0.2 (0.1–0.3) | 0.009 (0.002–0.02) | 13.2 (8.1–18.6) | 0.1 (0.03–0.1) | 2.9 (2.0–4.0) | 2.1 (1.4–2.8) | 1.4 (0.9–2.0) | 1.0 (0.6–1.4) | 3.3 (2.2–4.9) |
| Northern Cape | 281.7 (245.6–322.3) | 1.8 (1.2–2.5) | 94.2 (77.4–115.9) | 106.1 (86.0–126.5) | 49.9 (39.6–63.3) | 54.4 (42.8–67.2) | 1.9 (1.3–2.8) | 51.2 (35.3–67.3) | 1.6 (1.0–2.4) | 1.1 (0.7–1.6) | 0.5 (0.3–1.0) | 0.02 (0.01–0.05) | 10.4 (6.6–15.8) | 0.1 (0.1–0.2) | 0.006 (0.002–0.01) | 10.3 (6.5–15.6) | 0.1 (0.1–0.2) | 3.8 (2.9–4.8) | 3.2 (2.2–4.1) | 2.9 (2.1–3.8) | 1.1 (0.8–1.5) | 5.3 (3.5–7.5) |
| Western Cape | 192.0 (171.9–212.0) | 1.4 (0.9–2.0) | 80.2 (69.0–91.2) | 63.9 (51.6–78.6) | 30.7 (24.2–38.9) | 31.7 (25.3–40.0) | 1.5 (1.0–2.0) | 24.5 (15.7–43.0) | 1.8 (1.1–2.7) | 1.5 (0.8–2.2) | 0.4 (0.2–0.6) | 0.01 (0.006–0.04) | 6.8 (4.5–11.5) | 0.1 (0.04–0.1) | 0.004 (0.001–0.008) | 6.8 (4.4–11.4) | 0.1 (0.1–0.1) | 3.6 (2.7–4.7) | 2.9 (2.3–3.9) | 2.7 (2.1–3.5) | 1.0 (0.7–1.4) | 2.9 (2.0–4.1) |
| Zimbabwe | 188.6 (154.1–231.6) | 3.3 (1.9–6.2) | 50.0 (36.3–68.6) | 84.6 (63.4–111.4) | 34.8 (25.2–48.4) | 43.7 (30.6–59.8) | 6.1 (3.6–9.0) | 31.3 (19.5–55.4) | 1.2 (0.7–1.8) | 0.8 (0.4–1.2) | 0.4 (0.2–0.7) | 0.01 (0.005–0.03) | 10.3 (6.3–15.4) | 0.4 (0.2–0.8) | 0.03 (0.006–0.1) | 9.9 (5.9–14.7) | 0.2 (0.1–0.3) | 2.2 (1.6–3.1) | 0.6 (0.4–0.9) | 0.009 (0.006–0.01) | 0.5 (0.3–0.7) | 4.5 (2.8–6.8) |
| Western Sub-Saharan Africa | 273.0 (225.5–318.8) | 2.6 (1.5–4.2) | 96.8 (70.3–124.5) | 115.1 (89.8–144.5) | 58.1 (40.8–81.2) | 54.6 (37.7–74.9) | 2.4 (0.7–5.8) | 24.9 (15.4–35.8) | 2.2 (1.3–3.5) | 1.4 (0.7–2.3) | 0.8 (0.4–1.3) | 0.02 (0.006–0.04) | 9.3 (5.9–13.2) | 0.2 (0.1–0.4) | 0.1 (0.03–0.4) | 9.0 (5.7–12.6) | 0.3 (0.2–0.6) | 4.2 (3.0–5.8) | 3.7 (2.1–6.1) | 2.6 (1.5–3.8) | 1.7 (1.0–2.8) | 9.5 (5.6–13.9) |
| Benin | 188.7 (150.9–224.3) | 2.4 (1.4–3.8) | 58.7 (40.7–78.5) | 85.1 (65.0–108.2) | 38.7 (24.5–57.5) | 44.4 (30.1–61.5) | 2.0 (0.5–5.3) | 18.1 (11.1–26.8) | 1.6 (0.9–2.5) | 1.0 (0.5–1.6) | 0.6 (0.3–1.0) | 0.01 (0.004–0.02) | 7.2 (4.3–11.0) | 0.2 (0.1–0.3) | 0.1 (0.03–0.5) | 6.9 (4.1–10.4) | 0.3 (0.2–0.6) | 3.0 (2.0–4.1) | 2.1 (1.2–3.2) | 1.7 (0.9–2.7) | 1.4 (0.8–2.2) | 7.1 (3.9–11.0) |
| Burkina Faso | 157.9 (128.8–192.5) | 1.8 (1.6–5.1) | 48.6 (34.3–66.7) | 59.0 (42.7–76.6) | 23.2 (12.8–36.6) | 34.3 (23.1–46.0) | 1.5 (0.4–4.5) | 23.5 (11.9–40.2) | 1.5 (0.9–2.5) | 0.9 (0.5–1.4) | 0.6 (0.3–1.0) | 0.008 (0.003–0.02) | 7.4 (4.1–12.8) | 0.2 (0.1–0.5) | 0.1 (0.03–0.4) | 7.1 (4.0–12.2) | 0.4 (0.2–0.7) | 2.7 (1.9–3.8) | 1.5 (0.8–2.6) | 1.8 (1.0–2.8) | 1.4 (0.8–2.2) | 7.0 (3.9–11.4) |
| Cabo Verde | 181.9 (148.3–214.4) | 1.0 (0.6–1.5) | 79.6 (59.6–99.5) | 57.2 (42.1–76.3) | 32.3 (18.9–49.0) | 23.2 (14.9–37.0) | 1.7 (0.3–3.6) | 19.2 (11.8–28.4) | 2.2 (1.4–3.6) | 1.6 (0.8–2.5) | 0.6 (0.3–1.2) | 0.02 (0.007–0.05) | 3.0 (1.8–4.6) | 0.04 (0.02–0.1) | 0.05 (0.01–0.1) | 2.9 (1.8–4.4) | 0.2 (0.1–0.4) | 4.9 (3.3–7.1) | 3.6 (2.0–5.4) | 2.9 (1.6–4.6) | 1.4 (0.7–2.1) | 6.8 (4.3–9.9) |
| Cameroon | 290.7 (234.3–347.5) | 2.5 (1.2–4.5) | 81.7 (56.1–112.6) | 140.8 (103.1–187.2) | 63.1 (38.0–91.6) | 74.5 (49.7–110.6) | 3.1 (0.9–7.9) | 28.0 (16.4–42.9) | 2.6 (1.5–4.5) | 1.7 (0.9–2.8) | 0.9 (0.4–1.7) | 0.02 (0.007–0.05) | 9.9 (6.0–14.7) | 0.2 (0.1–0.3) | 0.1 (0.03–0.4) | 9.6 (5.9–14.4) | 0.3 (0.2–0.6) | 5.7 (4.0–8.0) | 2.5 (1.3–4.4) | 3.3 (1.9–5.0) | 1.9 (1.1–3.0) | 11.4 (6.3–18.2) |
| Chad | 389.2 (319.6–461.2) | 5.8 (3.2–9.9) | 116.9 (79.2–154.3) | 191.5 (146.8–237.6) | 92.5 (60.5–130.8) | 95.7 (61.1–135.7) | 3.2 (0.9–9.3) | 35.7 (20.3–62.0) | 2.4 (1.5–3.7) | 1.4 (0.8–2.2) | 0.9 (0.5–1.6) | 0.01 (0.004–0.03) | 12.5 (6.8–21.4) | 0.5 (0.2–0.9) | 0.2 (0.05–0.9) | 11.9 (6.2–20.1) | 0.7 (0.3–1.4) | 4.3 (2.7–5.9) | 3.1 (1.7–4.8) | 2.7 (1.5–4.1) | 2.6 (1.5–4.0) | 11.0 (5.9–18.2) |
| Côte d'Ivoire | 270.7 (228.3–321.0) | 2.1 (1.4–3.2) | 99.2 (73.1–128.0) | 115.9 (89.0–148.2) | 61.5 (41.7–81.8) | 52.1 (34.4–72.6) | 2.3 (0.9–4.9) | 22.1 (13.4–32.7) | 2.0 (1.2–3.3) | 1.3 (0.7–2.2) | 0.7 (0.3–1.2) | 0.01 (0.006–0.03) | 8.1 (5.0–11.7) | 0.2 (0.1–0.3) | 0.1 (0.02–0.3) | 7.8 (4.9–11.3) | 0.3 (0.2–0.6) | 3.8 (2.7–5.4) | 3.5 (2.0–5.4) | 2.5 (1.5–3.7) | 1.4 (0.8–2.3) | 9.7 (5.8–14.1) |
| Ghana | 342.1 (287.6–398.0) | 1.5 (1.0–2.2) | 99.1 (72.3–129.4) | 168.0 (130.4–207.8) | 76.4 (49.7–114.8) | 87.0 (56.0–120.3) | 4.6 (1.6–9.9) | 25.5 (14.2–38.5) | 2.5 (1.6–4.0) | 1.6 (0.9–2.6) | 0.9 (0.4–1.5) | 0.02 (0.008–0.1) | 18.3 (11.8–26.6) | 0.3 (0.1–0.5) | 0.4 (0.1–0.9) | 17.7 (11.4–25.8) | 0.3 (0.1–0.4) | 4.6 (3.2–6.3) | 5.3 (2.6–8.6) | 2.8 (1.6–4.3) | 1.7 (1.1–2.7) | 12.4 (8.3–16.7) |
| Guinea | 317.4 (256.5–375.9) | 3.6 (2.1–6.1) | 100.8 (67.3–138.2) | 154.2 (117.0–191.7) | 77.9 (47.5–113.8) | 72.6 (47.1–102.6) | 2.8 (0.8–7.0) | 26.1 (16.1–39.5) | 2.1 (1.3–3.4) | 1.3 (0.7–2.2) | 0.8 (0.4–1.4) | 0.01 (0.004–0.03) | 10.1 (5.7–15.1) | 0.2 (0.1–0.5) | 0.2 (0.03–0.6) | 9.7 (5.5–14.7) | 0.4 (0.2–0.8) | 3.8 (2.6–5.3) | 3.2 (1.6–5.4) | 2.2 (1.3–3.7) | 1.8 (1.0–2.8) | 10.0 (5.4–15.3) |
| Guinea-Bissau | 385.5 (322.4–447.9) | 4.2 (2.0–7.3) | 116.8 (80.2–155.5) | 195.7 (158.6–247.5) | 95.9 (65.2–134.8) | 96.5 (66.9–134.9) | 3.3 (0.9–9.7) | 33.7 (18.3–56.8) | 2.1 (1.2–3.4) | 1.2 (0.6–2.0) | 0.9 (0.4–1.5) | 0.01 (0.005–0.03) | 10.5 (6.1–15.8) | 0.2 (0.1–0.5) | 0.1 (0.03–0.5) | 10.1 (5.9–15.3) | 0.4 (0.2–0.8) | 4.0 (2.8–5.5) | 2.8 (1.6–4.3) | 2.3 (1.3–3.4) | 1.9 (1.0–2.9) | 11.3 (5.8–18.6) |
| Liberia | 333.0 (272.0–401.8) | 3.7 (1.5–7.1) | 111.8 (71.9–149.5) | 143.2 (102.7–204.8) | 70.4 (35.6–114.5) | 69.0 (40.3–117.9) | 3.8 (0.4–10.7) | 33.1 (18.8–52.5) | 2.4 (1.4–4.2) | 1.5 (0.8–2.8) | 0.9 (0.4–1.6) | 0.01 (0.004–0.03) | 12.0 (5.8–19.9) | 0.3 (0.1–0.6) | 0.2 (0.05–0.8) | 11.5 (5.5–18.9) | 0.5 (0.2–0.9) | 4.9 (2.9–7.2) | 4.3 (2.3–7.4) | 2.9 (1.6–4.6) | 2.1 (1.2–3.5) | 12.1 (5.6–21.2) |
| Mali | 251.0 (209.0–290.6) | 3.5 (1.9–6.1) | 81.2 (54.8–112.3) | 114.8 (87.7–146.0) | 54.0 (34.3–79.9) | 58.5 (37.8–81.2) | 2.3 (0.6–7.0) | 22.9 (13.5–36.2) | 1.8 (1.1–2.8) | 1.1 (0.6–1.8) | 0.7 (0.3–1.2) | 0.01 (0.004–0.02) | 9.1 (4.5–15.8) | 0.3 (0.1–0.6) | 0.2 (0.04–0.7) | 8.6 (4.2–14.9) | 0.5 (0.2–1.0) | 3.2 (2.1–4.3) | 2.4 (1.3–3.9) | 1.9 (1.0–3.1) | 1.6 (1.0–2.5) | 8.2 (4.3–13.5) |
| Mauritania | 292.7 (232.9–348.6) | 2.0 (1.1–3.2) | 118.1 (79.8–160.9) | 105.5 (73.2–143.0) | 53.2 (32.8–78.0) | 49.7 (33.8–75.9) | 2.7 (0.7–6.3) | 32.7 (18.1–58.1) | 2.4 (1.4–4.1) | 1.6 (0.9–2.7) | 0.8 (0.4–1.4) | 0.02 (0.007–0.04) | 9.2 (5.3–14.4) | 0.1 (0.1–0.3) | 0.2 (0.04–0.5) | 8.9 (5.1–14.1) | 0.3 (0.2–0.5) | 5.1 (3.3–7.1) | 4.6 (1.9–8.5) | 2.5 (1.4–3.9) | 1.6 (0.9–2.6) | 8.7 (5.1–13.4) |
| Niger | 321.5 (252.3–389.5) | 5.7 (2.3–10.9) | 100.5 (59.8–149.5) | 151.2 (109.1–201.4) | 75.8 (43.0–112.3) | 72.8 (44.2–115.6) | 2.6 (0.6–9.4) | 28.5 (15.8–49.0) | 2.1 (1.2–3.4) | 1.3 (0.7–2.1) | 0.8 (0.4–1.5) | 0.01 (0.004–0.02) | 11.7 (5.3–23.5) | 0.5 (0.2–1.2) | 0.2 (0.03–0.9) | 11.0 (4.9–21.2) | 0.8 (0.4–1.6) | 4.2 (2.7–5.9) | 2.3 (1.2–4.4) | 2.3 (1.1–3.9) | 2.3 (1.2–3.7) | 9.8 (4.7–18.9) |
| Nigeria | 267.6 (205.1–333.9) | 2.2 (1.2–3.6) | 108.9 (77.2–144.0) | 98.1 (70.7–138.3) | 53.6 (36.3–79.1) | 42.7 (27.8–64.2) | 1.8 (0.6–4.2) | 24.8 (14.3–38.9) | 2.3 (1.3–4.0) | 1.5 (0.8–2.6) | 0.8 (0.4–1.4) | 0.02 (0.007–0.05) | 7.9 (5.1–12.1) | 0.1 (0.1–0.3) | 0.1 (0.02–0.3) | 7.7 (4.9–11.8) | 0.3 (0.1–0.5) | 4.5 (3.0–6.7) | 4.5 (2.2–7.9) | 2.9 (1.7–4.4) | 1.8 (1.0–3.0) | 9.3 (5.6–14.2) |
| Abia | 329.0 (251.1–419.3) | 1.7 (0.9–3.0) | 139.4 (95.6–194.2) | 108.3 (76.0–153.2) | 59.5 (36.2–92.5) | 46.5 (29.7–74.8) | 2.3 (0.6–5.0) | 35.3 (19.9–55.3) | 3.2 (1.7–5.6) | 2.2 (1.1–3.8) | 1.0 (0.4–1.8) | 0.03 (0.01–0.1) | 8.9 (5.3–14.3) | 0.1 (0.04–0.2) | 0.1 (0.02–0.2) | 8.7 (5.2–14.0) | 0.2 (0.1–0.4) | 6.9 (4.6–10.2) | 6.7 (3.3–11.9) | 4.2 (2.3–6.5) | 1.9 (0.9–3.5) | 12.2 (7.2–19.0) |
| Adamawa | 339.1 (258.4–428.0) | 3.0 (1.7–4.8) | 136.6 (92.2–187.3) | 135.5 (97.2–181.9) | 74.4 (48.4–108.9) | 59.0 (38.7–90.3) | 2.1 (0.7–5.2) | 26.9 (14.7–42.4) | 2.5 (1.3–4.1) | 1.6 (0.8–2.7) | 0.9 (0.4–1.5) | 0.02 (0.007–0.04) | 9.9 (5.7–15.9) | 0.2 (0.1–0.3) | 0.1 (0.03–0.5) | 9.6 (5.6–15.5) | 0.3 (0.2–0.6) | 4.6 (3.2–6.7) | 4.3 (2.1–7.4) | 2.9 (1.7–4.6) | 2.1 (1.2–3.7) | 10.4 (6.1–15.9) |
| Akwa Ibom | 270.2 (196.5–342.0) | 1.8 (0.9–3.3) | 110.9 (76.1–153.7) | 91.8 (59.8–134.3) | 49.3 (28.5–80.7) | 40.5 (24.6–63.3) | 2.0 (0.5–4.6) | 28.4 (16.3–44.2) | 2.7 (1.4–4.5) | 1.8 (0.8–3.2) | 0.9 (0.4–1.6) | 0.02 (0.008–0.1) | 7.7 (4.6–12.4) | 0.1 (0.03–0.2) | 0.1 (0.02–0.2) | 7.6 (4.5–12.2) | 0.2 (0.1–0.4) | 5.5 (3.3–8.4) | 5.1 (2.5–9.0) | 3.3 (1.8–5.0) | 1.8 (1.0–3.2) | 11.0 (5.9–17.4) |
| Anambra | 233.8 (173.8–303.5) | 1.3 (0.7–2.3) | 97.1 (66.5–136.8) | 77.3 (52.4–119.4) | 42.4 (26.4–69.6) | 33.1 (20.0–54.1) | 1.8 (0.5–3.8) | 24.8 (13.8–38.9) | 2.4 (1.3–4.2) | 1.6 (0.8–2.8) | 0.7 (0.3–1.3) | 0.02 (0.007–0.1) | 7.0 (3.9–11.2) | 0.1 (0.04–0.2) | 0.1 (0.01–0.2) | 6.8 (3.8–11.1) | 0.2 (0.1–0.3) | 4.9 (3.2–7.3) | 5.0 (2.3–9.0) | 3.1 (1.7–4.9) | 1.5 (0.8–2.6) | 9.4 (5.4–14.1) |
| Bauchi | 298.0 (228.0–379.8) | 3.6 (2.0–6.3) | 113.6 (71.9–160.8) | 128.5 (95.4–170.1) | 72.7 (49.8–111.6) | 54.3 (33.7–81.5) | 1.5 (0.6–3.9) | 22.1 (12.6–35.0) | 1.9 (1.0–3.1) | 1.2 (0.6–2.1) | 0.7 (0.3–1.3) | 0.01 (0.004–0.03) | 8.8 (4.8–16.4) | 0.3 (0.1–0.5) | 0.1 (0.02–0.4) | 8.5 (4.9–15.6) | 0.5 (0.2–0.9) | 3.7 (2.4–5.3) | 2.7 (1.2–4.6) | 2.2 (1.2–3.6) | 2.0 (1.2–3.8) | 8.3 (4.5–12.6) |
| Bayelsa | 251.3 (188.2–322.6) | 1.7 (0.9–3.2) | 100.8 (69.5–138.5) | 88.7 (63.3–133.1) | 47.9 (31.3–78.1) | 38.9 (25.2–61.5) | 1.9 (0.5–4.2) | 25.9 (14.3–38.4) | 2.4 (1.3–4.3) | 1.6 (0.8–2.8) | 0.8 (0.3–1.4) | 0.02 (0.007–0.1) | 7.5 (4.6–11.6) | 0.1 (0.04–0.2) | 0.1 (0.02–0.2) | 7.3 (4.5–11.4) | 0.2 (0.1–0.4) | 5.1 (3.3–7.4) | 4.7 (2.4–8.5) | 3.1 (1.7–4.7) | 1.8 (0.9–3.3) | 9.3 (5.7–14.4) |
| Benue | 345.3 (259.7–441.6) | 3.0 (1.7–5.1) | 137.5 (93.8–193.6) | 132.9 (94.5–190.5) | 71.2 (43.9–110.6) | 59.4 (37.0–92.1) | 2.3 (0.7–5.4) | 31.7 (17.6–51.8) | 2.8 (1.5–4.7) | 1.8 (0.9–3.2) | 1.0 (0.4–1.6) | 0.02 (0.007–0.1) | 9.6 (5.8–14.9) | 0.1 (0.1–0.3) | 0.1 (0.03–0.4) | 9.4 (5.7–14.6) | 0.3 (0.1–0.6) | 5.6 (3.7–8.2) | 4.9 (2.5–8.7) | 3.4 (2.0–5.2) | 2.2 (1.2–3.8) | 11.5 (6.2–18.3) |
| Borno | 190.2 (130.7–256.7) | 2.2 (1.1–3.6) | 71.4 (43.9–101.5) | 76.6 (50.5–111.5) | 41.2 (24.2–67.0) | 34.2 (20.7–56.1) | 1.2 (0.4–3.0) | 16.8 (9.9–26.2) | 1.6 (0.8–2.8) | 1.1 (0.5–1.8) | 0.6 (0.3–1.1) | 0.01 (0.004–0.03) | 6.4 (3.6–10.6) | 0.1 (0.04–0.2) | 0.1 (0.01–0.3) | 6.2 (3.5–10.3) | 0.3 (0.1–0.5) | 3.1 (2.0–4.6) | 1.9 (1.0–3.1) | 1.8 (0.9–2.9) | 1.4 (0.8–2.6) | 6.7 (3.7–11.1) |
| Cross River | 296.2 (217.4–384.7) | 2.8 (1.3–5.3) | 116.4 (77

**Age-standardized mortality rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 251.6 | 2.2 | 103.4 | 102.7 | 58.6 | 42.8 | 1.3 | 18.3 | 1.7 | 1.1 | 0.6 | 0.01 | 6.8 | 0.1 | 0.1 | 6.6 | 0.3 | 3.1 | 2.5 | 1.9 | 1.4 | 7.1 |
| Kano | (198.6–317.3) | (1.3–3.5) | (66.7–143.2) | (73.1–137.7) | (38.6–87.4) | (26.7–62.8) | (0.5–3.3) | (10.3–28.4) | (0.9–2.7) | (0.6–1.8) | (0.3–1.0) | (0.004–0.03) | (4.0–11.1) | (0.1–0.3) | (0.02–0.3) | (3.9–10.8) | (0.1–0.5) | (2.1–4.5) | (1.3–4.4) | (1.1–3.0) | (0.8–2.5) | (4.2–10.7) |
| | 204.5 | 2.4 | 79.9 | 85.4 | 48.4 | 35.9 | 1.1 | 15.5 | 1.4 | 0.9 | 0.5 | 0.008 | 6.1 | 0.2 | 0.1 | 5.9 | 0.3 | 2.7 | 2.0 | 1.6 | 1.4 | 5.9 |
| Katsina | (149.3–262.3) | (1.3–4.0) | (51.2–117.0) | (62.2–114.5) | (31.5–76.6) | (22.7–54.3) | (0.4–2.8) | (8.7–24.6) | (0.7–2.3) | (0.5–1.5) | (0.2–0.9) | (0.003–0.02) | (3.4–11.0) | (0.1–0.3) | (0.02–0.3) | (3.2–10.6) | (0.1–0.6) | (1.7–3.9) | (0.9–3.3) | (0.9–2.7) | (0.8–2.4) | (3.4–9.1) |
| | 279.1 | 3.6 | 105.0 | 121.0 | 67.2 | 52.3 | 1.5 | 20.8 | 1.9 | 1.2 | 0.7 | 0.01 | 8.3 | 0.2 | 0.1 | 8.0 | 0.4 | 3.5 | 2.5 | 2.1 | 2.0 | 8.0 |
| Kebbi | (208.8–356.0) | (1.9–6.4) | (69.1–147.9) | (88.2–157.3) | (45.2–99.7) | (33.9–76.9) | (0.6–3.8) | (12.0–32.8) | (1.0–3.0) | (0.6–2.0) | (0.3–1.3) | (0.004–0.02) | (4.6–14.8) | (0.1–0.5) | (0.02–0.3) | (4.3–14.2) | (0.2–0.8) | (2.3–5.0) | (1.3–4.1) | (1.1–3.3) | (1.1–3.5) | (4.6–12.2) |
| | 273.7 | 2.3 | 114.2 | 92.2 | 47.8 | 42.1 | 2.2 | 27.5 | 2.6 | 1.7 | 0.9 | 0.02 | 8.7 | 0.1 | 0.1 | 8.4 | 0.3 | 4.7 | 5.2 | 3.1 | 2.1 | 10.9 |
| Kogi | (206.4–352.8) | (1.2–4.1) | (79.7–154.8) | (64.8–136.0) | (28.4–76.9) | (26.8–67.9) | (0.6–5.2) | (16.2–43.8) | (1.4–4.4) | (0.8–2.9) | (0.4–1.5) | (0.008–0.1) | (5.3–13.7) | (0.05–0.3) | (0.02–0.3) | (5.2–13.5) | (0.1–0.5) | (3.0–7.0) | (2.4–9.6) | (1.8–4.7) | (1.2–3.7) | (6.3–17.0) |
| | 258.7 | 2.0 | 107.9 | 87.4 | 47.0 | 38.6 | 1.8 | 26.1 | 2.5 | 1.7 | 0.8 | 0.02 | 8.0 | 0.1 | 0.1 | 7.8 | 0.3 | 4.9 | 5.0 | 3.2 | 1.7 | 9.8 |
| Kwara | (195.8–339.5) | (1.1–3.1) | (74.4–145.3) | (61.9–129.8) | (29.9–76.8) | (24.2–63.3) | (0.5–4.2) | (14.8–44.0) | (1.3–4.1) | (0.8–2.9) | (0.4–1.5) | (0.007–0.1) | (4.9–12.0) | (0.04–0.2) | (0.02–0.3) | (4.8–11.8) | (0.1–0.5) | (3.1–7.0) | (2.3–9.0) | (1.8–5.1) | (1.0–3.0) | (5.6–15.0) |
| | 275.8 | 1.1 | 123.6 | 81.7 | 47.1 | 32.5 | 2.1 | 27.6 | 3.0 | 2.1 | 0.9 | 0.03 | 8.3 | 0.1 | 0.1 | 8.2 | 0.2 | 6.2 | 7.7 | 4.4 | 1.6 | 10.3 |
| Lagos | (213.1–380.6) | (0.6–1.9) | (89.2–176.7) | (55.9–120.5) | (30.5–77.7) | (20.9–53.5) | (0.6–4.4) | (15.4–44.6) | (1.6–5.3) | (1.1–3.9) | (0.4–1.7) | (0.009–0.1) | (4.2–13.9) | (0.03–0.2) | (0.02–0.2) | (4.1–13.5) | (0.1–0.3) | (4.0–9.2) | (3.3–14.8) | (2.5–7.1) | (0.9–3.0) | (5.8–16.2) |
| | 266.3 | 2.3 | 110.9 | 96.8 | 52.8 | 42.2 | 1.8 | 23.1 | 2.2 | 1.5 | 0.8 | 0.02 | 8.0 | 0.1 | 0.1 | 7.8 | 0.3 | 4.3 | 4.3 | 2.8 | 1.8 | 9.4 |
| Nasarawa | (195.1–347.6) | (1.2–3.8) | (76.7–150.7) | (68.4–135.6) | (31.2–81.9) | (26.2–64.1) | (0.6–4.5) | (13.4–36.7) | (1.2–4.0) | (0.8–2.7) | (0.3–1.4) | (0.006–0.04) | (5.0–11.8) | (0.1–0.3) | (0.02–0.3) | (4.8–11.6) | (0.1–0.5) | (2.8–6.2) | (2.1–7.9) | (1.6–4.3) | (1.0–3.1) | (5.4–14.4) |
| | 220.7 | 2.4 | 85.9 | 88.1 | 47.5 | 39.2 | 1.5 | 17.6 | 1.8 | 1.1 | 0.6 | 0.01 | 7.2 | 0.1 | 0.1 | 7.0 | 0.3 | 3.2 | 3.0 | 2.1 | 1.6 | 7.4 |
| Niger | (166.7–284.2) | (1.3–3.9) | (57.6–119.4) | (63.4–120.8) | (30.6–73.3) | (24.6–58.4) | (0.5–3.4) | (10.1–26.6) | (0.9–3.1) | (0.6–1.9) | (0.3–1.1) | (0.004–0.03) | (4.3–11.7) | (0.1–0.3) | (0.02–0.3) | (4.1–11.3) | (0.1–0.6) | (2.2–4.6) | (1.5–5.5) | (1.2–3.4) | (0.9–2.9) | (4.2–11.3) |
| | 190.4 | 1.2 | 77.2 | 67.3 | 37.7 | 28.3 | 1.4 | 19.5 | 1.9 | 1.3 | 0.6 | 0.02 | 5.7 | 0.1 | 0.1 | 5.5 | 0.1 | 3.8 | 3.6 | 2.4 | 1.2 | 6.5 |
| Ogun | (140.1–254.9) | (0.7–1.9) | (54.2–108.4) | (47.5–104.1) | (25.1–62.4) | (18.1–47.0) | (0.4–2.8) | (11.0–31.9) | (1.0–3.3) | (0.7–2.2) | (0.2–1.1) | (0.005–0.04) | (3.3–9.0) | (0.03–0.1) | (0.02–0.2) | (3.1–8.9) | (0.1–0.3) | (2.4–5.8) | (1.8–6.6) | (1.3–3.8) | (0.6–2.1) | (3.8–10.1) |
| | 233.0 | 1.6 | 95.3 | 80.5 | 43.7 | 35.1 | 1.7 | 23.8 | 2.3 | 1.5 | 0.7 | 0.02 | 7.0 | 0.1 | 0.1 | 6.8 | 0.2 | 4.7 | 4.5 | 2.8 | 1.6 | 8.8 |
| Ondo | (175.6–312.0) | (0.8–2.9) | (65.9–137.2) | (54.2–119.2) | (27.1–71.2) | (21.8–58.2) | (0.5–3.9) | (14.0–36.8) | (1.2–3.8) | (0.7–2.7) | (0.3–1.4) | (0.006–0.1) | (3.9–11.3) | (0.03–0.2) | (0.02–0.2) | (3.8–11.1) | (0.1–0.4) | (2.9–6.8) | (2.2–8.3) | (1.6–4.3) | (0.8–2.8) | (5.1–14.0) |
| | 132.4 | 1.1 | 43.5 | 45.6 | 21.0 | 23.2 | 1.4 | 18.5 | 1.8 | 1.2 | 0.6 | 0.02 | 5.4 | 0.1 | 0.1 | 5.3 | 0.2 | 3.7 | 2.1 | 2.3 | 1.2 | 7.0 |
| Osun | (85.1–206.4) | (0.5–2.2) | (25.1–67.8) | (23.9–74.8) | (10.2–38.9) | (12.0–41.0) | (0.3–3.5) | (11.1–32.0) | (0.9–3.3) | (0.6–2.3) | (0.2–1.2) | (0.005–0.05) | (2.9–9.0) | (0.02–0.2) | (0.01–0.2) | (2.9–8.9) | (0.1–0.3) | (2.2–6.2) | (1.1–4.0) | (1.2–4.4) | (0.7–2.6) | (3.6–12.3) |
| | 215.9 | 1.4 | 94.5 | 63.3 | 34.5 | 27.2 | 1.6 | 23.6 | 2.3 | 1.5 | 0.7 | 0.02 | 6.8 | 0.1 | 0.1 | 6.6 | 0.2 | 4.7 | 6.5 | 2.8 | 1.5 | 8.2 |
| Oyo | (168.4–288.3) | (0.8–2.4) | (68.7–130.2) | (42.9–96.6) | (21.9–59.0) | (15.9–44.1) | (0.4–3.9) | (13.8–37.5) | (1.2–3.9) | (0.8–2.7) | (0.3–1.3) | (0.007–0.1) | (3.9–10.8) | (0.03–0.2) | (0.02–0.3) | (3.8–10.4) | (0.1–0.4) | (3.0–7.0) | (2.3–12.6) | (1.7–4.6) | (0.8–2.7) | (4.7–13.6) |
| | 258.6 | 2.1 | 109.0 | 92.8 | 51.6 | 39.5 | 1.7 | 22.5 | 2.2 | 1.5 | 0.7 | 0.02 | 7.7 | 0.1 | 0.1 | 7.5 | 0.2 | 4.3 | 4.4 | 2.8 | 1.7 | 8.7 |
| Plateau | (189.8–328.7) | (1.2–3.6) | (74.6–145.4) | (62.6–135.1) | (31.7–80.8) | (23.7–62.3) | (0.5–4.0) | (12.7–36.0) | (1.2–3.8) | (0.8–2.5) | (0.3–1.2) | (0.006–0.04) | (4.6–11.6) | (0.04–0.2) | (0.02–0.3) | (4.5–11.3) | (0.1–0.4) | (2.6–6.4) | (2.0–8.2) | (1.6–4.4) | (1.0–3.0) | (4.8–13.0) |
| | 348.1 | 1.9 | 143.6 | 114.4 | 61.1 | 50.6 | 2.7 | 37.4 | 3.6 | 2.5 | 1.1 | 0.03 | 10.1 | 0.1 | 0.1 | 9.9 | 0.3 | 8.1 | 7.9 | 4.9 | 2.3 | 13.6 |
| Rivers | (268.7–445.1) | (1.1–3.4) | (100.2–197.2) | (81.9–160.2) | (41.8–96.4) | (32.2–79.4) | (0.8–6.0) | (21.1–57.5) | (2.0–6.2) | (1.3–4.3) | (0.5–2.1) | (0.01–0.1) | (5.9–16.1) | (0.05–0.2) | (0.02–0.3) | (5.8–15.8) | (0.1–0.5) | (5.4–11.9) | (3.8–13.8) | (2.9–7.7) | (1.2–3.9) | (8.2–21.2) |
| | 313.2 | 3.5 | 127.7 | 133.3 | 80.8 | 51.0 | 1.5 | 19.9 | 1.8 | 1.1 | 0.6 | 0.009 | 8.5 | 0.3 | 0.1 | 8.1 | 0.5 | 3.2 | 3.2 | 2.1 | 1.9 | 7.7 |
| Sokoto | (232.6–412.1) | (1.9–6.2) | (77.5–191.2) | (97.5–186.0) | (53.9–119.4) | (30.8–82.1) | (0.6–3.4) | (10.8–32.1) | (0.9–3.0) | (0.5–2.0) | (0.3–1.2) | (0.003–0.02) | (4.6–15.7) | (0.1–0.5) | (0.02–0.4) | (4.4–15.0) | (0.2–0.9) | (2.0–4.8) | (1.3–5.8) | (1.2–3.5) | (1.0–3.3) | (4.3–11.6) |
| | 384.6 | 4.2 | 147.9 | 157.2 | 83.1 | 71.6 | 2.6 | 32.6 | 2.8 | 1.8 | 1.0 | 0.02 | 11.2 | 0.2 | 0.1 | 10.8 | 0.4 | 5.4 | 4.6 | 3.2 | 2.7 | 12.3 |
| Taraba | (297.9–479.4) | (2.3–7.5) | (99.0–198.4) | (113.6–210.6) | (53.5–122.9) | (47.1–102.7) | (0.9–6.6) | (18.7–52.0) | (1.6–4.7) | (0.9–3.0) | (0.5–1.8) | (0.007–0.1) | (6.4–17.2) | (0.1–0.4) | (0.03–0.5) | (6.3–16.8) | (0.2–0.8) | (3.5–7.8) | (2.4–7.7) | (1.9–4.8) | (1.6–4.7) | (6.9–20.0) |
| | 225.8 | 2.9 | 89.1 | 94.0 | 53.1 | 39.6 | 1.2 | 16.5 | 1.5 | 0.9 | 0.5 | 0.008 | 6.9 | 0.2 | 0.1 | 6.7 | 0.4 | 2.7 | 2.1 | 1.7 | 1.6 | 6.5 |
| Yobe | (167.3–287.7) | (1.6–4.8) | (54.2–126.5) | (68.2–123.9) | (33.5–82.7) | (24.6–60.8) | (0.4–3.3) | (9.5–25.8) | (0.8–2.3) | (0.5–1.6) | (0.2–0.9) | (0.003–0.02) | (3.9–11.8) | (0.1–0.4) | (0.02–0.3) | (3.7–11.3) | (0.2–0.7) | (1.7–3.8) | (1.0–3.7) | (0.9–2.7) | (0.9–2.7) | (3.6–10.5) |
| | 270.6 | 3.5 | 99.8 | 120.9 | 67.1 | 52.4 | 1.4 | 20.0 | 1.7 | 1.0 | 0.6 | 0.009 | 7.8 | 0.2 | 0.1 | 7.5 | 0.4 | 3.2 | 2.2 | 1.9 | 1.8 | 7.3 |
| Zamfara | (208.4–343.7) | (1.9–6.0) | (64.7–143.4) | (87.9–161.3) | (45.6–104.3) | (32.9–77.9) | (0.5–3.4) | (11.2–31.0) | (0.9–2.8) | (0.5–1.8) | (0.3–1.1) | (0.003–0.02) | (4.3–13.7) | (0.1–0.4) | (0.02–0.3) | (4.0–13.1) | (0.2–0.8) | (2.1–4.7) | (1.1–3.6) | (1.0–3.1) | (1.0–3.2) | (4.1–11.5) |
| | 210.4 | 3.8 | 72.1 | 85.2 | 44.0 | 38.5 | 2.7 | 14.3 | 1.9 | 1.3 | 0.6 | 0.01 | 7.4 | 0.1 | 0.1 | 7.1 | 0.3 | 3.6 | 4.9 | 2.2 | 1.2 | 13.7 |
| Sao Tome and Principe | (168.3–256.4) | (2.3–6.6) | (52.5–95.8) | (63.2–114.2) | (23.3–68.9) | (24.1–60.5) | (0.5–6.6) | (8.2–22.5) | (0.7–2.1) | (0.3–1.1) | (0.1–1.9) | (0.005–0.03) | (4.4–11.1) | (0.1–0.3) | (0.03–0.4) | (4.3–10.6) | (0.1–0.5) | (2.2–5.2) | (2.0–8.7) | (1.3–3.4) | (0.7–2.0) | (7.4–20.8) |
| | 230.6 | 2.1 | 65.0 | 121.4 | 61.8 | 57.0 | 2.6 | 18.2 | 1.6 | 1.0 | 0.6 | 0.01 | 7.2 | 0.2 | 0.1 | 6.9 | 0.3 | 2.8 | 2.0 | 1.7 | 1.1 | 7.2 |
| Senegal | (191.7–273.0) | (1.1–3.4) | (45.4–89.3) | (97.7–149.7) | (42.2–82.5) | (40.4–81.3) | (0.7–6.5) | (10.7–30.3) | (0.9–2.5) | (0.5–1.6) | (0.3–1.0) | (0.004–0.02) | (4.3–10.4) | (0.1–0.3) | (0.03–0.4) | (4.2–10.1) | (0.2–0.6) | (1.9–3.9) | (1.1–3.1) | (0.9–2.7) | (0.7–1.8) | (4.4–10.7) |
| | 297.9 | 3.8 | 91.6 | 141.0 | 71.4 | 66.5 | 3.2 | 26.0 | 2.3 | 1.4 | 0.8 | 0.01 | 10.9 | 0.2 | 0.2 | 10.5 | 0.4 | 3.8 | 3.3 | 2.5 | 2.0 | 10.3 |
| Sierra Leone | (242.3–347.0) | (1.9–6.6) | (69.3–116.8) | (107.8–178.1) | (40.2–101.6) | (37.9–109.9) | (0.6–7.9) | (14.9–41.3) | (1.4–3.7) | (0.8–2.4) | (0.4–1.4) | (0.005–0.03) | (6.3–16.2) | (0.1–0.5) | (0.04–0.6) | (5.9–15.6) | (0.2–0.7) | (2.7–5.4) | (1.7–5.1) | (1.4–3.8) | (1.1–3.1) | (5.7–15.8) |
| | 239.5 | 2.0 | 86.4 | 105.3 | 55.8 | 47.5 | 2.0 | 21.2 | 1.5 | 1.0 | 0.5 | 0.01 | 7.0 | 0.1 | 0.1 | 6.7 | 0.3 | 2.9 | 2.3 | 1.8 | 1.1 | 7.7 |
| Gambia | (193.4–288.8) | (1.1–3.6) | (56.1–121.9) | (77.9–139.2) | (34.2–79.5) | (29.3–73.6) | (0.5–5.4) | (11.9–39.1) | (0.9–2.5) | (0.5–1.6) | (0.3–1.0) | (0.004–0.02) | (3.9–10.4) | (0.1–0.3) | (0.02–0.4) | (3.8–10.2) | (0.1–0.5) | (2.0–4.2) | (1.2–3.6) | (1.0–2.9) | (0.6–1.8) | (3.9–12.2) |
| | 282.9 | 2.8 | 97.2 | 123.1 | 59.6 | 60.6 | 2.9 | 29.7 | 1.9 | 1.2 | 0.7 | 0.01 | 8.5 | 0.2 | 0.1 | 8.2 | 0.3 | 3.7 | 3.1 | 2.0 | 1.7 | 8.9 |
| Togo | (227.4–340.4) | (1.4–5.1) | (66.9–133.3) | (91.9–158.5) | (37.1–85.7) | (39.5–92.2) | (0.6–8.0) | (15.7–51.8) | (1.2–3.2) | (0.6–2.0) | (0.4–1.3) | (0.005–0.03) | (4.8–13.1) | (0.1–0.3) | (0.03–0.4) | (4.5–12.4) | (0.1–0.5) | (2.3–5.6) | (1.7–4.9) | (1.1–3.2) | (0.9–2.8) | (4.8–14.5) |

**Table S14. Age-standardized incidence rates for cardiovascular diseases by location**

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Global** | **590.4 (555.6–645.5)** | **57.5 (47.1–68.3)** | **140.9 (122.9–161.4)** | **148.1 (134.7–165.6)** | **94.1 (82.2–108.2)** | **43.6 (37.7–48.5)** | **10.3 (9.1–11.7)** | **--** | **24.1 (22.2–26.1)** | **11.7 (10.0–13.3)** | **12.4 (11.6–13.3)** | **--** | **12.5 (9.9–15.7)** | **12.5 (9.9–15.7)** | **--** | **--** | **0.5 (0.4–0.6)** | **54.8 (43.5–68.8)** | **--** | **137.9 (105.9–175.9)** | **14.1 (12.4–16.6)** | **--** |
| **Europe, and Central Asia** | **710.0 (661.3–775.2)** | **17.4 (14.6–20.2)** | **287.9 (247.7–333.6)** | **154.3 (140.1–171.1)** | **120.3 (107.2–134.5)** | **24.6 (22.0–27.1)** | **9.4 (8.3–10.6)** | **--** | **42.8 (38.7–47.5)** | **20.4 (16.8–24.4)** | **22.4 (20.1–24.9)** | **--** | **12.2 (9.4–15.6)** | **12.2 (9.4–15.6)** | **--** | **--** | **0.4 (0.4–0.5)** | **57.9 (44.9–75.5)** | **--** | **121.8 (92.9–156.6)** | **15.3 (13.3–17.8)** | **--** |
| Central Asia | 724.0 (677.4–780.2) | 42.3 (34.0–50.7) | 290.6 (256.7–327.9) | 149.5 (137.8–160.5) | 98.7 (88.9–109.0) | 41.3 (38.1–44.5) | 9.5 (8.4–10.6) | -- | 47.2 (40.7–55.4) | 10.1 (8.2–12.2) | 37.1 (30.9–44.4) | -- | 12.1 (9.4–15.3) | 12.1 (9.4–15.3) | -- | -- | 0.4 (0.4–0.5) | 54.1 (41.8–70.3) | -- | 118.5 (90.4–152.4) | 9.1 (7.7–10.7) | -- |
| Armenia | 610.8 (566.7–668.8) | 10.2 (8.8–11.7) | 257.8 (225.2–297.5) | 99.1 (90.2–107.4) | 77.3 (69.3–85.8) | 15.3 (13.7–16.9) | 6.5 (5.5–7.6) | -- | 41.1 (35.0–47.7) | 12.3 (9.8–14.9) | 28.8 (23.6–34.9) | -- | 15.0 (11.6–18.9) | 15.0 (11.6–18.9) | -- | -- | 0.4 (0.3–0.5) | 55.0 (42.1–71.2) | -- | 123.0 (92.3–159.6) | 9.2 (7.5–11.0) | -- |
| Azerbaijan | 738.6 (684.6–800.0) | 49.9 (39.4–61.2) | 336.3 (291.8–379.2) | 113.5 (101.9–125.4) | 65.5 (56.6–75.2) | 41.4 (37.0–46.1) | 6.6 (5.3–7.7) | -- | 42.9 (36.0–52.8) | 9.7 (7.8–12.1) | 33.2 (27.1–42.7) | -- | 12.2 (9.5–15.4) | 12.2 (9.5–15.4) | -- | -- | 0.4 (0.3–0.5) | 54.5 (42.4–69.8) | -- | 121.1 (91.4–155.2) | 7.8 (6.1–9.5) | -- |
| Georgia | 731.8 (686.4–786.3) | 8.5 (7.7–9.3) | 203.2 (179.4–229.3) | 223.7 (205.0–243.3) | 142.7 (126.7–159.8) | 64.4 (59.6–69.1) | 16.6 (14.9–18.5) | -- | 94.2 (82.1–108.3) | 15.0 (12.2–18.0) | 79.1 (66.8–93.3) | -- | 9.6 (7.2–12.4) | 9.6 (7.2–12.4) | -- | -- | 0.4 (0.3–0.5) | 56.2 (42.9–73.6) | -- | 126.6 (96.9–163.1) | 9.4 (8.2–10.6) | -- |
| Kazakhstan | 606.6 (570.5–664.3) | 7.7 (6.6–8.9) | 209.6 (184.1–239.1) | 143.7 (133.8–156.2) | 100.1 (89.6–111.8) | 34.3 (31.6–37.4) | 9.4 (8.2–10.5) | -- | 41.9 (35.3–50.3) | 10.3 (8.2–12.6) | 31.6 (25.1–39.4) | -- | 12.1 (9.3–15.2) | 12.1 (9.3–15.2) | -- | -- | 0.4 (0.4–0.5) | 57.6 (44.6–75.5) | -- | 123.1 (93.1–158.1) | 10.2 (8.7–11.8) | -- |
| Kyrgyzstan | 716.1 (670.9–775.4) | 54.6 (42.8–66.3) | 294.9 (259.8–339.3) | 139.2 (127.6–152.9) | 99.0 (88.4–111.5) | 29.6 (26.6–32.3) | 10.6 (9.5–12.0) | -- | 36.5 (30.5–44.1) | 7.9 (6.2–9.7) | 28.7 (22.3–36.7) | -- | 12.1 (9.4–15.3) | 12.1 (9.4–15.3) | -- | -- | 0.4 (0.3–0.5) | 50.9 (39.3–65.1) | -- | 117.8 (89.5–151.9) | 9.6 (8.1–11.2) | -- |
| Mongolia | 667.0 (628.3–717.1) | 53.5 (41.8–65.1) | 237.1 (210.0–270.7) | 141.3 (131.4–151.3) | 49.6 (43.5–56.8) | 75.3 (69.6–81.2) | 16.4 (14.8–18.1) | -- | 51.3 (43.3–60.5) | 7.8 (6.1–9.7) | 43.5 (35.5–52.7) | -- | 12.1 (9.3–15.2) | 12.1 (9.3–15.2) | -- | -- | 0.5 (0.4–0.6) | 54.5 (42.1–70.6) | -- | 109.4 (82.1–142.6) | 7.3 (6.0–8.7) | -- |
| Tajikistan | 804.7 (747.3–867.9) | 54.9 (42.8–67.6) | 362.8 (320.6–410.9) | 175.1 (159.1–193.7) | 109.2 (96.5–124.4) | 56.6 (51.2–62.8) | 9.3 (8.2–10.3) | -- | 35.0 (28.9–42.1) | 5.9 (4.7–7.2) | 29.1 (22.5–36.4) | -- | 12.2 (9.4–15.4) | 12.2 (9.4–15.4) | -- | -- | 0.4 (0.4–0.5) | 51.3 (39.8–66.7) | -- | 105.5 (80.3–135.2) | 7.6 (6.0–9.2) | -- |
| Turkmenistan | 834.2 (781.4–899.8) | 51.8 (40.6–62.4) | 355.4 (317.0–407.6) | 201.0 (183.5–222.2) | 137.4 (123.0–155.9) | 50.3 (44.4–57.3) | 13.4 (11.6–15.0) | -- | 40.4 (34.0–48.3) | 9.1 (7.0–11.1) | 31.3 (24.8–39.2) | -- | 12.3 (9.5–15.5) | 12.3 (9.5–15.5) | -- | -- | 0.5 (0.4–0.6) | 56.3 (43.3–73.7) | -- | 108.5 (83.9–138.5) | 7.9 (6.5–9.4) | -- |
| Uzbekistan | 797.4 (742.1–852.6) | 51.5 (41.0–62.7) | 361.1 (317.4–410.3) | 146.2 (134.3–158.9) | 96.9 (86.7–109.3) | 40.9 (37.6–44.8) | 8.4 (7.4–9.5) | -- | 49.8 (41.6–59.8) | 10.5 (8.5–12.8) | 39.2 (31.5–48.3) | -- | 12.1 (9.4–15.3) | 12.1 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 51.4 (39.8–67.7) | -- | 115.7 (89.0–148.5) | 9.1 (7.6–10.7) | -- |
| Central Europe | 587.5 (551.6–641.9) | 4.8 (4.2–5.4) | 199.6 (176.1–225.6) | 129.6 (118.1–140.5) | 103.3 (92.6–113.5) | 18.3 (16.9–19.7) | 8.0 (7.1–8.9) | -- | 48.0 (42.8–53.2) | 26.8 (22.9–31.2) | 21.2 (18.4–24.2) | -- | 11.2 (8.7–14.4) | 11.2 (8.7–14.4) | -- | -- | 0.5 (0.4–0.6) | 61.7 (47.7–80.3) | -- | 119.1 (90.3–153.8) | 13.0 (11.4–15.0) | -- |
| Albania | 588.8 (552.5–641.5) | 5.1 (4.4–6.0) | 201.3 (176.4–227.6) | 143.8 (131.5–158.0) | 76.1 (65.9–89.6) | 60.3 (55.0–66.1) | 7.5 (6.5–8.7) | -- | 38.7 (33.4–44.6) | 17.3 (14.0–21.1) | 21.4 (17.5–26.2) | -- | 11.0 (8.4–14.2) | 11.0 (8.4–14.2) | -- | -- | 0.5 (0.4–0.6) | 59.6 (46.4–77.9) | -- | 113.6 (86.3–147.8) | 15.2 (13.4–17.6) | -- |
| Bosnia and Herzegovina | 622.6 (578.1–677.5) | 3.5 (3.0–4.1) | 188.3 (162.6–214.6) | 165.8 (147.8–186.6) | 137.8 (119.8–157.8) | 19.4 (17.2–21.4) | 8.6 (7.5–9.7) | -- | 52.4 (46.2–59.4) | 23.1 (19.2–27.5) | 29.2 (24.4–34.8) | -- | 10.9 (8.4–14.2) | 10.9 (8.4–14.2) | -- | -- | 0.5 (0.4–0.6) | 59.1 (45.8–77.3) | -- | 133.0 (101.3–168.7) | 9.1 (7.5–11.1) | -- |
| Bulgaria | 649.4 (609.4–701.8) | 4.4 (3.9–5.0) | 203.1 (179.5–230.7) | 209.8 (190.7–227.7) | 173.7 (155.6–191.5) | 28.2 (26.2–30.3) | 8.0 (7.0–9.0) | -- | 31.9 (27.7–36.9) | 15.3 (12.4–18.6) | 16.7 (13.6–20.8) | -- | 11.0 (8.5–14.3) | 11.0 (8.5–14.3) | -- | -- | 0.5 (0.4–0.6) | 58.5 (45.5–76.7) | -- | 117.3 (88.1–151.2) | 12.9 (11.4–14.7) | -- |
| Croatia | 549.3 (510.6–595.5) | 4.3 (3.8–4.9) | 169.0 (148.8–191.9) | 104.6 (95.3–113.4) | 84.4 (75.0–93.1) | 13.8 (12.6–15.0) | 6.5 (5.7–7.5) | -- | 75.6 (65.7–89.6) | 41.9 (34.4–51.4) | 33.8 (27.8–42.4) | -- | 10.5 (8.1–13.7) | 10.5 (8.1–13.7) | -- | -- | 0.5 (0.4–0.6) | 50.9 (43.0–59.9) | -- | 121.1 (91.2–156.7) | 12.8 (11.1–15.0) | -- |
| Czechia | 571.0 (531.4–624.4) | 4.7 (4.2–5.4) | 182.8 (159.5–206.3) | 88.7 (80.2–97.7) | 70.2 (61.9–79.1) | 11.5 (10.2–12.8) | 7.0 (6.1–8.0) | -- | 75.3 (65.8–86.7) | 39.2 (32.5–47.1) | 36.1 (29.5–44.6) | -- | 12.0 (9.3–15.1) | 12.0 (9.3–15.1) | -- | -- | 0.5 (0.4–0.6) | 66.6 (51.0–86.9) | -- | 122.6 (92.4–156.7) | 17.7 (15.6–19.8) | -- |
| Hungary | 620.1 (580.5–675.7) | 4.6 (4.0–5.2) | 219.5 (193.0–250.0) | 115.5 (104.1–128.1) | 95.0 (83.8–107.2) | 14.0 (12.8–15.2) | 6.5 (5.6–7.4) | -- | 68.0 (59.5–76.3) | 38.8 (32.4–45.2) | 29.2 (24.7–35.0) | -- | 10.9 (8.4–14.2) | 10.9 (8.4–14.2) | -- | -- | 0.5 (0.4–0.6) | 58.9 (45.3–76.4) | -- | 123.6 (95.4–158.8) | 18.5 (16.4–20.8) | -- |
| Montenegro | 635.4 (592.2–701.9) | 3.9 (3.4–4.4) | 216.3 (186.6–247.7) | 168.9 (150.3–187.4) | 119.0 (102.7–137.6) | 42.7 (38.5–46.8) | 7.3 (6.4–8.3) | -- | 37.5 (33.0–42.9) | 19.3 (15.6–23.2) | 18.2 (14.9–22.3) | -- | 11.0 (8.4–14.3) | 11.0 (8.4–14.3) | -- | -- | 0.4 (0.3–0.5) | 61.3 (47.1–80.9) | -- | 126.5 (97.3–163.0) | 9.6 (7.8–11.7) | -- |
| North Macedonia | 676.2 (626.9–739.1) | 4.2 (3.6–4.7) | 181.0 (157.2–207.3) | 242.4 (203.5–279.1) | 197.0 (159.2–232.5) | 33.6 (30.7–36.8) | 11.8 (10.5–13.1) | -- | 36.2 (31.7–41.6) | 18.7 (15.2–22.2) | 17.6 (14.5–21.6) | -- | 10.9 (8.4–14.2) | 10.9 (8.4–14.2) | -- | -- | 0.5 (0.4–0.6) | 59.3 (45.6–78.3) | -- | 132.6 (100.9–169.7) | 9.2 (7.5–11.2) | -- |
| Poland | 564.5 (522.5–622.4) | 4.7 (4.0–5.4) | 216.8 (188.2–248.2) | 107.6 (98.5–118.3) | 87.2 (78.4–97.7) | 11.8 (10.4–13.0) | 8.7 (7.7–9.7) | -- | 21.1 (19.5–22.7) | 10.1 (8.6–11.7) | 10.9 (10.4–11.5) | -- | 12.0 (9.2–15.1) | 12.0 (9.2–15.1) | -- | -- | 0.5 (0.4–0.6) | 67.3 (51.9–87.6) | -- | 123.5 (94.0–158.8) | 11.1 (9.5–13.3) | -- |
| Romania | 613.6 (577.7–665.4) | 5.8 (5.0–6.7) | 189.7 (167.8–212.9) | 167.8 (150.1–185.7) | 130.0 (113.7–148.2) | 29.1 (27.4–31.3) | 8.7 (7.9–9.5) | -- | 67.1 (57.8–76.6) | 47.8 (39.4–57.4) | 19.4 (15.5–23.1) | -- | 8.8 (6.8–11.5) | 8.8 (6.8–11.5) | -- | -- | 0.4 (0.4–0.6) | 55.6 (42.9–74.1) | -- | 106.0 (79.4–137.3) | 12.4 (10.6–14.6) | -- |
| Serbia | 608.4 (564.1–664.5) | 3.9 (3.4–4.4) | 188.2 (162.3–217.2) | 148.0 (129.8–166.7) | 119.2 (101.7–137.7) | 20.8 (18.8–22.9) | 8.0 (7.0–9.1) | -- | 65.9 (57.9–74.5) | 27.2 (22.4–32.5) | 38.7 (32.8–46.1) | -- | 12.3 (9.6–15.9) | 12.3 (9.6–15.9) | -- | -- | 0.4 (0.4–0.5) | 54.8 (41.7–72.1) | -- | 124.2 (94.0–159.4) | 10.7 (9.2–12.5) | -- |
| Slovakia | 562.5 (525.5–617.3) | 5.7 (4.8–6.8) | 210.6 (184.0–243.8) | 112.3 (101.3–124.7) | 90.7 (79.8–102.6) | 14.8 (13.4–16.3) | 6.7 (5.8–7.8) | -- | 31.6 (27.2–36.3) | 17.6 (14.3–21.0) | 14.0 (11.3–17.6) | -- | 11.8 (9.2–15.0) | 11.8 (9.2–15.0) | -- | -- | 0.5 (0.4–0.6) | 67.8 (52.0–89.9) | -- | 107.3 (82.2–137.8) | 15.0 (13.1–17.6) | -- |
| Slovenia | 504.0 (470.5–549.9) | 5.7 (5.1–6.5) | 123.2 (106.3–141.8) | 71.8 (64.8–79.4) | 56.2 (49.6–63.9) | 9.5 (8.3–10.6) | 6.2 (5.3–7.2) | -- | 112.1 (99.1–125.4) | 74.7 (65.0–85.8) | 37.3 (30.5–46.4) | -- | 11.0 (8.5–14.2) | 11.0 (8.5–14.2) | -- | -- | 0.4 (0.4–0.5) | 61.0 (46.7–79.9) | -- | 104.1 (79.0–135.0) | 14.5 (12.7–16.8) | -- |
| Eastern Europe | 771.2 (708.0–848.5) | 5.8 (4.8–6.9) | 345.6 (292.7–406.7) | 168.8 (150.4–191.0) | 134.1 (116.7–154.4) | 24.5 (21.0–27.5) | 10.2 (9.0–11.7) | -- | 39.0 (34.5–43.9) | 19.7 (15.3–24.2) | 19.4 (18.1–20.7) | -- | 12.8 (9.9–16.3) | 12.8 (9.9–16.3) | -- | -- | 0.4 (0.3–0.5) | 56.8 (44.1–73.4) | -- | 124.2 (95.2–159.6) | 17.7 (15.2–20.6) | -- |
| Belarus | 764.9 (706.8–830.6) | 9.2 (7.7–10.7) | 379.8 (335.5–431.0) | 146.8 (132.7–161.9) | 117.4 (104.2–132.0) | 20.8 (18.8–22.9) | 8.6 (7.6–9.8) | -- | 34.1 (29.0–40.1) | 16.8 (13.1–20.6) | 17.3 (13.6–21.7) | -- | 11.7 (9.1–15.0) | 11.7 (9.1–15.0) | -- | -- | 0.4 (0.3–0.5) | 54.6 (42.1–72.6) | -- | 113.0 (85.3–146.0) | 15.0 (13.0–17.5) | -- |
| Estonia | 513.7 (481.7–556.5) | 9.1 (7.4–10.7) | 144.7 (126.3–165.3) | 83.5 (75.6–91.8) | 64.7 (57.2–73.4) | 11.5 (10.0–12.7) | 7.3 (6.2–8.4) | -- | 74.5 (64.0–85.1) | 47.2 (38.7–56.8) | 27.3 (21.7–34.5) | -- | 11.8 (9.2–15.1) | 11.8 (9.2–15.1) | -- | -- | 0.4 (0.3–0.5) | 54.9 (43.1–70.8) | -- | 111.6 (84.6–144.4) | 23.3 (20.3–26.8) | -- |
| Latvia | 643.4 (601.6–698.5) | 9.9 (8.0–11.5) | 232.1 (199.9–264.7) | 158.3 (144.2–174.9) | 132.3 (118.6–148.1) | 17.7 (15.8–19.6) | 8.3 (7.3–9.4) | -- | 48.5 (42.1–55.6) | 30.5 (25.1–36.9) | 18.0 (14.6–22.3) | -- | 11.0 (8.5–14.2) | 11.0 (8.5–14.2) | -- | -- | 0.4 (0.3–0.4) | 53.8 (41.6–68.8) | -- | 111.4 (84.6–142.1) | 18.0 (15.8–20.5) | -- |
| Lithuania | 662.6 (621.2–723.5) | 9.3 (7.7–10.9) | 282.8 (249.5–320.6) | 131.4 (118.0–144.0) | 108.4 (96.4–121.1) | 15.2 (13.7–17.0) | 7.8 (6.7–8.8) | -- | 46.3 (40.0–53.5) | 22.9 (18.8–27.3) | 23.4 (18.9–29.0) | -- | 12.6 (9.7–15.9) | 12.6 (9.7–15.9) | -- | -- | 0.4 (0.3–0.4) | 56.0 (43.4–71.7) | -- | 107.3 (81.7–137.4) | 16.5 (14.2–18.9) | -- |
| Republic of Moldova | 690.9 (642.6–757.5) | 8.6 (6.9–10.1) | 308.3 (268.0–351.5) | 143.0 (129.1–157.2) | 104.7 (91.5–118.5) | 31.2 (28.6–33.7) | 7.0 (6.0–8.1) | -- | 32.8 (27.7–38.0) | 15.5 (12.4–19.3) | 17.3 (13.9–21.7) | -- | 11.8 (9.2–15.1) | 11.8 (9.2–15.1) | -- | -- | 0.4 (0.3–0.5) | 55.3 (42.5–71.2) | -- | 116.2 (88.6–149.2) | 14.6 (12.8–16.9) | -- |
| Russian Federation | 764.9 (701.5–842.0) | 4.8 (3.9–6.0) | 328.5 (276.1–391.5) | 172.6 (153.7–197.7) | 136.9 (118.4–158.2) | 25.0 (21.3–28.2) | 10.7 (9.4–12.1) | -- | 41.4 (36.5–46.6) | 21.0 (16.3–25.8) | 20.4 (19.0–21.5) | -- | 12.9 (10.0–16.4) | 12.9 (10.0–16.4) | -- | -- | 0.4 (0.3–0.5) | 58.0 (44.9–74.8) | -- | 126.8 (97.3–163.0) | 19.5 (16.6–22.7) | -- |
| Ukraine | 823.5 (744.6–922.0) | 7.6 (6.4–9.2) | 412.2 (344.7–484.4) | 172.1 (151.3–196.2) | 137.6 (118.0–160.7) | 24.9 (21.1–28.7) | 9.7 (8.4–11.0) | -- | 30.6 (27.0–34.5) | 14.6 (11.1–18.1) | 16.1 (15.0–17.3) | -- | 12.9 (10.0–16.4) | 12.9 (10.0–16.4) | -- | -- | 0.5 (0.4–0.6) | 54.1 (41.3–69.7) | -- | 121.2 (92.4–154.8) | 12.1 (10.1–14.3) | -- |
| **High-income** | **538.0 (501.5–589.3)** | **4.8 (4.2–5.4)** | **133.3 (116.6–150.4)** | **84.5 (78.3–92.3)** | **62.7 (56.8–69.6)** | **13.8 (12.4–15.1)** | **8.0 (7.1–8.9)** | **--** | **61.7 (57.0–66.3)** | **32.4 (27.8–36.7)** | **29.3 (27.4–31.3)** | **--** | **14.7 (12.0–17.9)** | **14.7 (12.0–17.9)** | **--** | **--** | **0.4 (0.3–0.4)** | **71.4 (60.1–86.6)** | **--** | **150.8 (118.5–189.5)** | **16.5 (14.9–18.4)** | **--** |
| Australasia | 435.0 (406.8–480.5) | 4.0 (3.5–4.5) | 112.1 (97.3–127.0) | 67.2 (60.5–74.4) | 50.4 (43.9–57.1) | 9.8 (8.8–11.0) | 7.0 (6.2–8.1) | -- | 46.5 (40.9–51.4) | 30.7 (25.9–34.9) | 15.9 (13.7–18.6) | -- | 11.9 (9.3–15.1) | 11.9 (9.3–15.1) | -- | -- | 0.4 (0.3–0.5) | 83.2 (65.4–105.9) | -- | 90.9 (69.2–117.9) | 18.8 (16.7–21.2) | -- |
| Australia | 415.3 (386.9–460.3) | 3.8 (3.4–4.3) | 98.5 (86.0–111.9) | 66.6 (59.5–74.1) | 49.6 (42.9–56.3) | 9.8 (8.8–10.9) | 7.2 (6.3–8.4) | -- | 43.2 (37.4–48.2) | 29.0 (23.7–33.5) | 14.2 (11.7–17.3) | -- | 11.8 (9.2–15.1) | 11.8 (9.2–15.1) | -- | -- | 0.4 (0.3–0.4) | 82.4 (64.1–105.2) | -- | 89.4 (67.7–115.9) | 19.2 (17.0–21.6) | -- |
| New Zealand | 545.3 (502.8–602.2) | 5.1 (4.4–6.1) | 188.1 (156.5–223.7) | 70.8 (64.3–79.1) | 55.0 (48.8–62.9) | 9.9 (8.6–11.3) | 5.8 (5.2–6.6) | -- | 65.0 (58.5–71.3) | 40.1 (33.4–46.4) | 24.9 (23.6–26.3) | -- | 12.4 (10.0–15.5) | 12.4 (10.0–15.5) | -- | -- | 0.4 (0.3–0.5) | 87.5 (70.0–109.3) | -- | 99.3 (75.6–128.4) | 16.6 (14.2–20.1) | -- |
| High-income Asia Pacific | 372.1 (347.4–410.0) | 2.0 (1.7–2.4) | 73.8 (62.5–86.3) | 92.5 (84.2–102.9) | 61.2 (53.9–70.6) | 18.3 (16.1–20.7) | 13.0 (11.3–14.5) | -- | 50.8 (46.6–55.4) | 22.6 (18.8–26.5) | 28.1 (26.2–30.5) | -- | 10.1 (7.7–12.9) | 10.1 (7.7–12.9) | -- | -- | 0.3 (0.3–0.4) | 36.2 (28.5–44.7) | -- | 94.3 (71.7–120.7) | 12.2 (10.3–14.4) | -- |
| Brunei Darussalam | 429.4 (400.7–467.2) | 2.8 (2.5–3.1) | 100.8 (87.4–116.5) | 116.6 (105.7–129.8) | 71.1 (61.7–82.0) | 31.2 (27.8–35.4) | 14.3 (12.6–16.1) | -- | 49.5 (43.4–56.8) | 20.3 (17.0–24.8) | 29.2 (24.0–35.5) | -- | 10.0 (7.8–13.0) | 10.0 (7.8–13.0) | -- | -- | 0.3 (0.3–0.4) | 35.4 (26.8–44.7) | -- | 100.9 (74.9–128.6) | 13.0 (11.5–14.7) | -- |
| Japan | 382.3 (356.3–423.1) | 2.0 (1.7–2.4) | 78.7 (65.9–94.3) | 94.6 (85.8–105.6) | 61.7 (53.5–72.0) | 18.5 (16.0–21.0) | 14.3 (12.4–16.2) | -- | 56.3 (51.9–61.0) | 24.6 (20.4–29.1) | 31.7 (30.2–33.3) | -- | 10.1 (7.7–13.1) | 10.1 (7.7–13.1) | -- | -- | 0.3 (0.3–0.4) | 32.2 (24.7–40.6) | -- | 96.0 (72.8–122.8) | 12.1 (10.2–14.6) | -- |
| Aichi | 374.5 (347.4–416.2) | 1.7 (1.4–2.1) | 78.4 (65.6–93.9) | 98.4 (88.7–110.6) | 64.3 (55.9–74.8) | 19.2 (16.5–22.0) | 14.9 (12.8–16.9) | -- | 45.4 (41.5–49.6) | 20.2 (16.4–23.9) | 25.3 (23.7–27.1) | -- | 9.5 (7.1–12.8) | 9.5 (7.1–12.8) | -- | -- | 0.4 (0.3–0.4) | 33.1 (25.5–41.0) | -- | 95.9 (73.8–123.4) | 11.6 (9.6–14.1) | -- |
| Akita | 363.5 (337.5–400.6) | 1.9 (1.5–2.3) | 59.3 (48.9–72.1) | 86.8 (78.7–96.4) | 55.5 (48.3–64.5) | 19.7 (16.6–22.8) | 11.6 (10.0–13.1) | -- | 61.3 (56.3–66.3) | 25.4 (21.2–30.0) | 35.9 (33.8–37.9) | -- | 12.6 (9.8–16.0) | 12.6 (9.8–16.0) | -- | -- | 0.4 (0.3–0.5) | 32.4 (24.9–40.6) | -- | 95.5 (73.4–122.1) | 13.3 (11.2–15.8) | -- |
| Aomori | 387.7 (361.2–427.1) | 2.0 (1.6–2.4) | 75.0 (62.0–89.6) | 114.7 (103.4–127.7) | 73.8 (64.1–85.4) | 23.5 (20.0–26.8) | 17.4 (15.0–19.8) | -- | 44.0 (39.8–48.6) | 22.8 (19.0–27.1) | 21.3 (19.6–22.8) | -- | 10.5 (8.2–13.4) | 10.5 (8.2–13.4) | -- | -- | 0.4 (0.3–0.5) | 32.4 (25.0–41.5) | -- | 96.3 (74.7–122.8) | 12.4 (10.5–14.8) | -- |
| Chiba | 389.6 (363.4–427.8) | 1.8 (1.5–2.2) | 83.6 (69.3–100.4) | 98.3 (89.1–109.9) | 64.6 (55.9–75.5) | 19.3 (16.6–22.0) | 14.4 (12.2–16.4) | -- | 54.8 (50.5–59.1) | 23.7 (19.6–27.9) | 31.1 (29.3–32.7) | -- | 9.4 (6.9–12.8) | 9.4 (6.9–12.8) | -- | -- | 0.3 (0.3–0.4) | 32.8 (25.4–42.0) | -- | 95.9 (72.3–122.1) | 12.6 (10.6–15.1) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ehime | 352.4 (327.5–389.5) | 1.8 (1.5–2.2) | 64.5 (53.3–78.3) | 86.1 (77.7–96.5) | 57.3 (49.6–67.4) | 16.6 (14.1–19.1) | 12.2 (10.5–13.8) | -- | 48.3 (43.8–52.8) | 23.2 (19.0–27.5) | 25.0 (23.3–26.6) | -- | 10.1 (7.7–13.1) | 10.1 (7.7–13.1) | -- | -- | 0.4 (0.3–0.4) | 32.4 (25.0–41.2) | -- | 95.8 (72.1–126.2) | 13.0 (11.0–15.5) | -- |
| Fukui | 352.9 (328.1–391.3) | 1.8 (1.4–2.2) | 77.0 (64.0–91.1) | 90.8 (82.0–101.0) | 61.4 (53.1–71.6) | 16.2 (13.8–18.6) | 13.3 (11.4–15.2) | -- | 32.6 (28.6–37.1) | 17.4 (13.4–21.3) | 15.2 (13.7–17.0) | -- | 10.7 (8.3–13.7) | 10.7 (8.3–13.7) | -- | -- | 0.3 (0.3–0.4) | 32.9 (25.2–41.6) | -- | 95.0 (71.3–120.7) | 11.8 (9.8–14.4) | -- |
| Fukuoka | 371.4 (344.9–408.6) | 1.8 (1.5–2.2) | 59.4 (49.7–71.3) | 101.3 (91.6–112.7) | 67.1 (58.4–78.2) | 20.0 (17.1–22.7) | 14.1 (12.1–16.1) | -- | 55.5 (50.9–60.2) | 24.6 (20.4–29.3) | 30.9 (29.3–32.5) | -- | 9.5 (7.1–12.9) | 9.5 (7.1–12.9) | -- | -- | 0.3 (0.3–0.4) | 32.0 (24.7–40.8) | -- | 100.6 (76.1–128.5) | 10.8 (8.9–13.1) | -- |
| Fukushima | 399.6 (372.8–439.1) | 2.8 (2.3–3.3) | 83.6 (70.4–99.7) | 103.9 (94.2–116.8) | 69.6 (60.4–81.0) | 20.4 (17.6–23.2) | 14.0 (12.1–15.8) | -- | 57.4 (53.1–62.0) | 23.8 (19.5–28.1) | 33.7 (32.0–35.7) | -- | 10.7 (8.2–13.5) | 10.7 (8.2–13.5) | -- | -- | 0.4 (0.3–0.5) | 32.9 (25.5–41.5) | -- | 95.4 (73.8–122.1) | 12.4 (10.3–14.7) | -- |
| Gifu | 361.1 (334.7–402.1) | 2.0 (1.6–2.4) | 73.0 (60.2–87.2) | 95.2 (86.1–106.0) | 63.1 (55.1–73.3) | 18.6 (16.0–21.2) | 13.5 (11.7–15.4) | -- | 40.4 (36.1–44.8) | 20.4 (16.5–24.4) | 20.0 (18.5–21.6) | -- | 9.8 (7.5–12.9) | 9.8 (7.5–12.9) | -- | -- | 0.3 (0.3–0.4) | 32.5 (24.9–41.4) | -- | 95.4 (71.6–123.4) | 12.5 (10.4–14.7) | -- |
| Gunma | 408.1 (381.8–450.5) | 1.9 (1.5–2.2) | 89.5 (75.0–108.4) | 113.0 (102.1–127.4) | 74.3 (64.5–86.9) | 23.0 (19.8–26.4) | 15.8 (13.6–18.0) | -- | 49.9 (45.3–54.8) | 26.4 (21.9–31.0) | 23.5 (21.8–25.2) | -- | 10.6 (8.1–13.4) | 10.6 (8.1–13.4) | -- | -- | 0.4 (0.3–0.4) | 32.9 (25.4–42.1) | -- | 95.7 (72.4–123.3) | 14.4 (12.2–17.0) | -- |
| Hiroshima | 357.1 (330.1–396.4) | 1.7 (1.4–2.1) | 74.1 (61.8–88.1) | 88.9 (80.1–99.1) | 58.7 (50.8–68.0) | 17.1 (14.6–19.7) | 13.1 (11.2–15.0) | -- | 41.8 (37.6–46.3) | 20.4 (16.9–24.5) | 21.4 (19.7–23.2) | -- | 10.1 (7.6–13.3) | 10.1 (7.6–13.3) | -- | -- | 0.3 (0.3–0.4) | 32.7 (25.5–41.3) | -- | 95.8 (73.5–122.2) | 11.5 (9.6–14.1) | -- |
| Hokkaidō | 369.5 (342.5–409.7) | 2.3 (1.9–2.7) | 72.9 (60.4–86.0) | 95.9 (86.2–106.9) | 62.3 (54.4–72.5) | 17.4 (15.0–19.9) | 16.2 (14.1–18.4) | -- | 48.9 (44.4–53.8) | 25.4 (21.1–29.5) | 23.6 (22.0–25.1) | -- | 9.7 (7.3–12.7) | 9.7 (7.3–12.7) | -- | -- | 0.4 (0.3–0.4) | 31.5 (24.2–39.9) | -- | 95.6 (72.8–120.6) | 12.4 (10.4–15.1) | -- |
| Hyōgo | 363.5 (335.5–404.1) | 1.7 (1.4–2.1) | 73.4 (61.3–89.1) | 86.1 (77.6–96.9) | 56.4 (48.8–66.3) | 15.8 (13.6–18.2) | 13.8 (12.0–15.8) | -- | 52.8 (48.5–57.6) | 22.4 (18.3–26.4) | 30.4 (28.8–32.1) | -- | 9.0 (6.5–12.4) | 9.0 (6.5–12.4) | -- | -- | 0.3 (0.3–0.4) | 32.5 (25.2–41.2) | -- | 96.3 (73.2–123.8) | 11.4 (9.4–13.7) | -- |
| Ibaraki | 410.3 (381.2–451.7) | 1.8 (1.5–2.2) | 86.9 (72.1–105.8) | 111.9 (101.1–125.6) | 71.8 (62.6–83.2) | 22.9 (19.7–26.1) | 17.2 (14.9–19.7) | -- | 56.6 (52.3–61.5) | 24.6 (20.5–28.9) | 32.1 (30.6–33.8) | -- | 10.0 (7.5–13.0) | 10.0 (7.5–13.0) | -- | -- | 0.4 (0.3–0.4) | 33.0 (25.6–41.5) | -- | 96.7 (72.9–122.3) | 13.0 (11.0–15.5) | -- |
| Ishikawa | 364.1 (337.9–402.8) | 1.7 (1.4–2.1) | 75.8 (63.8–89.9) | 90.3 (80.7–102.4) | 61.0 (52.3–71.6) | 16.5 (14.2–19.0) | 12.8 (11.1–14.6) | -- | 46.9 (43.1–51.6) | 20.4 (16.9–24.2) | 26.5 (25.1–28.2) | -- | 9.6 (7.1–12.8) | 9.6 (7.1–12.8) | -- | -- | 0.3 (0.3–0.4) | 32.7 (25.3–41.7) | -- | 95.6 (73.6–121.3) | 11.2 (9.3–13.5) | -- |
| Iwate | 455.3 (427.0–497.5) | 2.2 (1.8–2.6) | 73.2 (61.4–86.5) | 119.6 (108.4–134.3) | 77.5 (67.2–91.2) | 25.6 (22.2–29.2) | 16.4 (14.1–18.7) | -- | 105.2 (97.8–113.5) | 33.5 (27.6–40.4) | 71.7 (68.1–75.9) | -- | 13.1 (10.3–16.7) | 13.1 (10.3–16.7) | -- | -- | 0.4 (0.3–0.5) | 33.2 (25.3–42.6) | -- | 95.5 (72.7–122.3) | 13.0 (11.0–15.4) | -- |
| Kagawa | 366.4 (340.7–402.7) | 1.8 (1.5–2.2) | 67.6 (56.2–81.5) | 88.0 (78.3–99.0) | 59.6 (51.3–69.5) | 16.0 (13.6–18.3) | 12.4 (10.8–14.2) | -- | 58.0 (53.6–62.8) | 23.2 (19.1–27.8) | 34.7 (32.9–36.7) | -- | 10.2 (7.8–13.2) | 10.2 (7.8–13.2) | -- | -- | 0.3 (0.3–0.4) | 32.7 (25.2–41.9) | -- | 95.3 (71.9–122.1) | 12.5 (10.4–14.9) | -- |
| Kagoshima | 353.7 (328.4–391.0) | 1.8 (1.4–2.2) | 65.6 (54.6–79.7) | 100.6 (90.6–114.4) | 67.0 (58.5–79.8) | 18.9 (16.2–21.7) | 14.7 (12.7–16.7) | -- | 36.3 (32.3–41.0) | 20.7 (16.9–25.1) | 15.6 (13.9–17.1) | -- | 10.6 (8.2–13.5) | 10.6 (8.2–13.5) | -- | -- | 0.4 (0.3–0.5) | 32.4 (25.0–41.2) | -- | 94.2 (71.7–120.8) | 11.7 (9.9–13.9) | -- |
| Kanagawa | 389.6 (361.6–431.0) | 2.0 (1.6–2.4) | 88.1 (72.8–105.4) | 91.1 (82.5–102.3) | 58.5 (50.8–68.1) | 18.1 (15.4–20.7) | 14.6 (12.6–16.4) | -- | 56.2 (51.8–60.9) | 25.7 (21.4–29.9) | 30.6 (29.0–32.3) | -- | 10.5 (8.2–13.4) | 10.5 (8.2–13.4) | -- | -- | 0.3 (0.2–0.4) | 33.2 (25.6–42.7) | -- | 95.7 (72.7–123.6) | 12.5 (10.4–14.9) | -- |
| Kōchi | 399.1 (372.2–439.7) | 1.7 (1.4–2.1) | 75.0 (62.6–89.6) | 90.6 (81.9–102.0) | 60.2 (51.8–70.3) | 16.9 (14.7–19.3) | 13.5 (11.6–15.5) | -- | 79.4 (73.0–86.4) | 30.4 (24.3–36.2) | 48.9 (46.3–51.8) | -- | 10.8 (8.2–13.9) | 10.8 (8.2–13.9) | -- | -- | 0.4 (0.3–0.4) | 32.3 (25.1–40.6) | -- | 95.3 (71.8–121.8) | 13.7 (11.5–16.2) | -- |
| Kumamoto | 363.7 (337.5–401.5) | 1.9 (1.5–2.3) | 60.9 (50.7–73.0) | 91.6 (82.6–103.0) | 59.3 (51.0–69.4) | 18.6 (16.0–21.5) | 13.6 (11.9–15.5) | -- | 60.3 (55.5–65.8) | 25.9 (21.4–30.6) | 34.4 (32.6–36.3) | -- | 10.7 (8.3–13.6) | 10.7 (8.3–13.6) | -- | -- | 0.3 (0.3–0.4) | 32.3 (24.9–40.7) | -- | 95.2 (72.9–122.1) | 10.5 (8.6–12.9) | -- |
| Kyōto | 364.2 (336.0–403.5) | 1.9 (1.6–2.3) | 85.3 (71.0–102.0) | 77.5 (69.6–86.5) | 49.6 (42.6–57.5) | 16.7 (14.3–19.1) | 11.2 (9.7–12.8) | -- | 49.5 (45.2–54.2) | 22.7 (18.6–26.6) | 26.9 (25.3–28.5) | -- | 9.4 (7.0–12.4) | 9.4 (7.0–12.4) | -- | -- | 0.3 (0.2–0.4) | 32.7 (25.5–42.0) | -- | 95.7 (71.9–122.1) | 11.8 (9.8–14.3) | -- |
| Mie | 376.2 (349.4–417.2) | 1.7 (1.3–2.0) | 80.7 (67.5–96.2) | 95.9 (86.5–106.9) | 62.9 (54.0–73.0) | 18.8 (16.0–21.4) | 14.2 (12.2–16.3) | -- | 46.0 (41.7–50.5) | 21.8 (17.6–25.9) | 24.2 (22.7–26.1) | -- | 10.6 (8.1–13.5) | 10.6 (8.1–13.5) | -- | -- | 0.3 (0.3–0.4) | 32.7 (25.3–41.6) | -- | 95.7 (72.6–122.6) | 12.5 (10.6–14.9) | -- |
| Miyagi | 372.9 (346.3–411.1) | 1.8 (1.4–2.1) | 70.1 (58.3–83.8) | 97.2 (87.7–108.9) | 61.6 (53.8–71.7) | 21.2 (18.3–24.2) | 14.3 (12.6–16.2) | -- | 52.9 (48.2–58.0) | 25.9 (21.3–30.7) | 27.0 (25.4–28.6) | -- | 10.4 (8.0–13.4) | 10.4 (8.0–13.4) | -- | -- | 0.3 (0.3–0.4) | 32.3 (25.0–41.5) | -- | 95.5 (72.5–121.6) | 12.4 (10.3–14.7) | -- |
| Miyazaki | 385.9 (358.8–424.9) | 2.3 (1.9–2.8) | 69.3 (58.3–82.9) | 80.6 (71.2–91.3) | 51.0 (42.9–60.6) | 16.7 (14.2–19.0) | 13.0 (11.0–14.8) | -- | 81.6 (75.7–88.6) | 31.0 (25.6–36.9) | 50.6 (48.1–53.3) | -- | 11.0 (8.5–13.9) | 11.0 (8.5–13.9) | -- | -- | 0.4 (0.3–0.4) | 32.2 (25.1–40.8) | -- | 94.9 (71.9–122.2) | 13.6 (11.5–16.2) | -- |
| Nagano | 382.1 (354.7–422.7) | 1.8 (1.5–2.2) | 74.5 (62.7–89.6) | 94.6 (85.5–105.3) | 62.0 (53.6–72.2) | 17.9 (15.4–20.4) | 14.7 (12.5–16.8) | -- | 60.6 (55.5–66.0) | 26.7 (22.2–31.6) | 33.9 (32.0–35.7) | -- | 10.6 (8.1–13.8) | 10.6 (8.1–13.8) | -- | -- | 0.3 (0.2–0.4) | 32.8 (25.3–41.7) | -- | 94.7 (71.9–121.8) | 12.3 (10.4–14.9) | -- |
| Nagasaki | 360.8 (335.3–399.6) | 1.8 (1.5–2.2) | 65.9 (55.1–79.4) | 86.1 (77.5–96.9) | 57.0 (49.4–66.5) | 16.2 (13.9–18.4) | 12.9 (11.1–14.6) | -- | 56.3 (52.1–60.7) | 22.2 (18.2–26.1) | 34.2 (32.5–36.0) | -- | 10.9 (8.5–13.8) | 10.9 (8.5–13.8) | -- | -- | 0.4 (0.3–0.4) | 32.2 (24.8–40.4) | -- | 95.2 (72.2–122.4) | 12.0 (10.1–14.4) | -- |
| Nara | 357.2 (330.7–392.5) | 1.7 (1.4–2.1) | 61.0 (50.8–73.3) | 82.2 (74.0–91.9) | 55.4 (47.9–64.8) | 14.2 (12.0–16.2) | 12.6 (10.9–14.4) | -- | 60.6 (56.0–65.3) | 25.2 (20.8–30.3) | 35.4 (33.8–37.3) | -- | 10.4 (7.9–13.3) | 10.4 (7.9–13.3) | -- | -- | 0.3 (0.2–0.4) | 32.1 (24.7–40.5) | -- | 95.4 (73.2–121.0) | 13.5 (11.3–16.0) | -- |
| Niigata | 411.3 (381.6–449.2) | 2.4 (2.0–2.9) | 72.1 (59.7–84.9) | 111.2 (101.0–123.4) | 72.1 (61.9–83.5) | 21.8 (18.7–25.1) | 17.3 (14.9–19.6) | -- | 69.6 (64.4–76.0) | 27.9 (22.9–33.7) | 41.7 (39.7–44.0) | -- | 10.3 (7.9–13.3) | 10.3 (7.9–13.3) | -- | -- | 0.3 (0.3–0.4) | 38.9 (30.2–49.5) | -- | 93.8 (70.8–120.4) | 12.6 (10.6–14.9) | -- |
| Ōita | 365.5 (339.2–403.5) | 1.8 (1.4–2.1) | 71.7 (60.0–86.5) | 81.5 (73.1–91.9) | 54.4 (46.9–64.0) | 15.6 (13.4–18.1) | 11.5 (9.7–13.1) | -- | 60.0 (55.8–65.1) | 23.8 (19.8–28.9) | 36.3 (34.4–38.1) | -- | 10.2 (7.7–13.3) | 10.2 (7.7–13.3) | -- | -- | 0.3 (0.3–0.4) | 32.5 (25.0–40.7) | -- | 95.3 (72.2–121.8) | 12.2 (10.3–14.6) | -- |
| Okayama | 368.2 (341.4–406.6) | 2.3 (1.9–2.8) | 74.8 (62.5–89.3) | 86.9 (78.2–97.0) | 57.1 (49.5–66.0) | 16.8 (14.5–19.4) | 12.9 (11.1–14.7) | -- | 56.7 (52.1–61.7) | 24.1 (19.5–28.5) | 32.6 (30.9–34.4) | -- | 11.8 (9.0–15.3) | 11.8 (9.0–15.3) | -- | -- | 0.3 (0.3–0.4) | 28.2 (20.8–36.9) | -- | 95.4 (73.1–123.8) | 11.7 (9.7–14.1) | -- |
| Okinawa | 371.5 (344.0–411.7) | 2.2 (1.8–2.6) | 74.3 (62.4–88.8) | 86.4 (78.1–97.2) | 53.3 (45.9–61.8) | 21.3 (18.1–24.2) | 11.8 (10.2–13.3) | -- | 56.6 (51.3–61.6) | 28.7 (23.9–33.9) | 27.9 (26.5–29.5) | -- | 9.5 (7.1–12.6) | 9.5 (7.1–12.6) | -- | -- | 0.4 (0.3–0.4) | 32.7 (25.2–40.9) | -- | 95.5 (71.3–121.1) | 13.9 (11.9–16.4) | -- |
| Ōsaka | 373.8 (346.6–413.3) | 2.3 (1.9–2.7) | 82.8 (69.1–99.4) | 88.3 (79.7–99.8) | 59.3 (51.7–68.7) | 15.9 (13.7–18.3) | 13.1 (11.2–14.9) | -- | 50.8 (46.8–55.5) | 22.8 (19.0–26.7) | 28.0 (26.6–29.8) | -- | 10.1 (7.7–13.1) | 10.1 (7.7–13.1) | -- | -- | 0.4 (0.3–0.5) | 32.0 (24.6–40.8) | -- | 96.1 (71.7–123.4) | 11.0 (9.1–13.4) | -- |
| Saga | 359.6 (333.5–395.5) | 2.1 (1.7–2.5) | 62.9 (52.3–76.3) | 82.0 (74.0–92.7) | 53.2 (45.8–62.2) | 16.3 (14.0–18.7) | 12.5 (10.6–14.3) | -- | 60.4 (56.0–65.8) | 24.4 (20.3–29.2) | 36.0 (34.2–38.1) | -- | 12.3 (9.6–15.5) | 12.3 (9.6–15.5) | -- | -- | 0.3 (0.3–0.4) | 32.4 (25.0–41.0) | -- | 95.3 (71.2–122.0) | 11.8 (9.9–14.0) | -- |
| Saitama | 418.9 (389.3–461.8) | 2.0 (1.7–2.4) | 98.9 (83.4–118.0) | 100.6 (90.8–112.0) | 65.0 (56.4–75.5) | 19.5 (16.8–22.4) | 16.1 (13.9–18.3) | -- | 66.7 (61.3–72.1) | 27.4 (22.7–32.3) | 39.3 (37.3–41.2) | -- | 9.4 (6.9–12.7) | 9.4 (6.9–12.7) | -- | -- | 0.3 (0.3–0.4) | 32.7 (25.2–41.9) | -- | 95.8 (72.3–122.9) | 12.4 (10.4–14.9) | -- |
| Shiga | 373.2 (347.4–413.6) | 2.0 (1.6–2.4) | 69.5 (57.7–83.5) | 82.5 (74.6–91.5) | 52.9 (45.9–61.6) | 17.1 (14.7–19.8) | 12.5 (10.9–14.3) | -- | 66.2 (61.4–71.5) | 26.3 (21.7–31.1) | 39.9 (37.8–42.0) | -- | 10.9 (8.5–13.9) | 10.9 (8.5–13.9) | -- | -- | 0.3 (0.2–0.4) | 32.8 (25.1–41.7) | -- | 95.7 (72.5–123.3) | 13.3 (11.1–15.6) | -- |
| Shimane | 365.9 (340.5–402.2) | 1.6 (1.3–2.0) | 62.0 (52.4–73.7) | 89.4 (80.1–100.7) | 59.8 (51.1–70.2) | 17.3 (15.0–19.6) | 12.2 (10.7–13.9) | -- | 61.0 (56.6–66.3) | 24.2 (19.9–29.0) | 36.8 (35.0–38.7) | -- | 12.1 (9.4–15.2) | 12.1 (9.4–15.2) | -- | -- | 0.3 (0.3–0.4) | 32.8 (25.1–42.0) | -- | 94.5 (70.8–121.7) | 12.2 (10.3–14.7) | -- |
| Shizuoka | 391.1 (363.4–432.7) | 2.0 (1.6–2.4) | 77.3 (65.3–91.6) | 102.7 (93.0–114.3) | 66.0 (56.7–77.2) | 22.4 (19.2–25.5) | 14.3 (12.4–16.4) | -- | 57.1 (53.0–62.2) | 25.4 (21.2–30.1) | 31.7 (29.8–33.7) | -- | 10.1 (7.6–13.1) | 10.1 (7.6–13.1) | -- | -- | 0.3 (0.3–0.4) | 32.9 (25.3–41.4) | -- | 95.7 (72.5–122.5) | 12.8 (10.9–15.1) | -- |
| Tochigi | 425.0 (396.8–468.7) | 2.4 (2.0–2.9) | 97.1 (81.2–115.5) | 105.3 (95.2–117.5) | 66.3 (57.9–77.0) | 21.5 (18.6–24.4) | 17.5 (15.2–19.9) | -- | 69.8 (64.5–76.0) | 28.4 (23.5–34.2) | 41.4 (39.3–43.5) | -- | 10.2 (7.7–13.4) | 10.2 (7.7–13.4) | -- | -- | 0.4 (0.3–0.5) | 30.6 (23.8–38.5) | -- | 95.8 (73.3–124.6) | 13.5 (11.7–15.8) | -- |
| Tokushima | 379.7 (352.2–420.6) | 2.1 (1.8–2.5) | 71.1 (59.7–84.0) | 93.5 (84.4–105.2) | 62.0 (53.7–72.3) | 17.5 (14.9–19.9) | 14.0 (12.0–15.8) | -- | 59.6 (54.6–65.3) | 28.5 (23.9–33.8) | 31.1 (29.5–32.9) | -- | 13.2 (10.2–16.6) | 13.2 (10.2–16.6) | -- | -- | 0.4 (0.3–0.5) | 32.5 (25.0–40.8) | -- | 95.6 (71.7–121.4) | 11.7 (9.8–14.0) | -- |
| Tōkyō | 390.4 (363.7–431.8) | 2.5 (2.1–3.0) | 85.9 (71.7–103.3) | 89.2 (80.4–99.8) | 57.0 (49.2–66.6) | 17.6 (15.0–20.2) | 14.6 (12.8–16.7) | -- | 65.5 (60.5–71.1) | 26.3 (21.7–31.4) | 39.3 (37.4–41.5) | -- | 9.8 (7.4–12.9) | 9.8 (7.4–12.9) | -- | -- | 0.3 (0.3–0.4) | 28.4 (21.3–36.5) | -- | 97.2 (74.4–123.0) | 11.6 (9.6–13.8) | -- |
| Tottori | 363.5 (335.4–402.7) | 1.8 (1.5–2.2) | 66.0 (54.7–79.4) | 85.9 (77.3–96.4) | 56.5 (48.9–65.8) | 16.6 (14.2–18.9) | 12.8 (11.0–14.5) | -- | 55.9 (51.1–61.7) | 26.5 (21.9–31.8) | 29.5 (28.0–31.2) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.4 (0.3–0.4) | 32.4 (24.9–40.9) | -- | 95.8 (72.3–124.0) | 13.1 (11.1–15.5) | -- |
| Toyama | 355.4 (328.0–390.2) | 1.8 (1.4–2.2) | 67.5 (56.5–80.8) | 95.1 (86.4–105.7) | 63.1 (55.1–73.5) | 18.1 (15.4–20.5) | 14.0 (12.0–16.1) | -- | 40.9 (36.8–45.2) | 19.6 (15.6–23.5) | 21.3 (19.7–23.0) | -- | 11.1 (8.6–13.8) | 11.1 (8.6–13.8) | -- | -- | 0.3 (0.3–0.4) | 32.4 (25.0–40.7) | -- | 95.4 (72.0–123.2) | 10.8 (8.8–13.2) | -- |
| Wakayama | 378.8 (352.7–417.2) | 1.8 (1.4–2.2) | 83.5 (70.1–99.7) | 90.5 (81.3–101.4) | 62.1 (53.6–72.3) | 16.5 (14.1–18.7) | 11.9 (10.3–13.5) | -- | 50.0 (45.5–54.8) | 22.6 (18.2–26.6) | 27.4 (25.9–29.2) | -- | 11.7 (9.1–14.6) | 11.7 (9.1–14.6) | -- | -- | 0.4 (0.3–0.4) | 32.4 (24.9–41.0) | -- | 95.7 (72.0–122.4) | 13.0 (11.0–15.2) | -- |
| Yamagata | 393.2 (366.8–433.1) | 2.2 (1.8–2.6) | 76.0 (62.9–90.7) | 105.3 (95.1–117.6) | 72.2 (62.1–84.0) | 18.5 (15.8–21.1) | 14.6 (12.7–16.6) | -- | 62.9 (58.5–67.7) | 24.5 (20.3–28.9) | 38.5 (36.5–40.5) | -- | 9.9 (7.5–13.1) | 9.9 (7.5–13.1) | -- | -- | 0.3 (0.3–0.4) | 32.3 (25.0–40.5) | -- | 92.4 (71.4–118.9) | 11.9 (9.9–14.4) | -- |
| Yamaguchi | 399.8 (373.5–443.6) | 2.0 (1.6–2.4) | 84.3 (69.5–101.7) | 98.0 (88.7–109.7) | 64.6 (55.9–74.9) | 18.3 (15.7–20.9) | 15.2 (13.0–17.4) | -- | 63.1 (57.7–68.7) | 29.7 (24.7–34.8) | 33.4 (31.8–35.4) | -- | 10.6 (8.1–13.6) | 10.6 (8.1–13.6) | -- | -- | 0.4 (0.3–0.4) | 32.7 (25.1–41.0) | -- | 95.4 (72.0–123.9) | 13.5 (11.4–16.0) | -- |
| Yamanashi | 370.1 (343.5–407.6) | 1.8 (1.4–2.2) | 70.7 (59.4–85.8) | 81.2 (72.6–91.6) | 52.6 (45.2–61.8) | 14.8 (12.4–17.1) | 13.7 (11.7–15.6) | -- | 58.2 (53.0–63.5) | 25.4 (20.8–30.2) | 32.8 (31.1–34.5) | -- | 15.1 (11.9–18.9) | 15.1 (11.9–18.9) | -- | -- | 0.3 (0.3–0.4) | 32.9 (25.3–41.6) | -- | 95.3 (72.3–123.1) | 14.5 (12.2–17.4) | -- |
| Singapore | 454.4 (431.4–484.5) | 1.6 (1.4–1.8) | 171.5 (165.5–176.7) | 99.0 (93.7–104.4) | 68.9 (63.9–73.5) | 21.7 (20.0–23.4) | 8.4 (7.8–9.2) | -- | 36.4 (31.1–42.5) | 14.8 (11.8–17.9) | 21.6 (17.3–26.9) | -- | 9.9 (7.7–12.9) | 9.9 (7.7–12.9) | -- | -- | 0.3 (0.3–0.4) | 33.8 (25.7–42.5) | -- | 87.4 (66.0–112.0) | 14.5 (12.5–16.9) | -- |
| Republic of Korea | 335.7 (312.5–368.8) | 1.8 (1.6–2.0) | 52.1 (44.7–59.5) | 88.5 (80.5–98.8) | 59.4 (52.5–67.9) | 18.6 (16.6–20.8) | 10.5 (9.2–11.8) | -- | 36.5 (31.1–42.2) | 16.9 (14.1–20.3) | 19.6 (15.4–24.3) | -- | 9.9 (7.7–12.9) | 9.9 (7.7–12.9) | -- | -- | 0.3 (0.2–0.4) | 45.9 (37.2–55.6) | -- | 89.0 (67.8–116.8) | 11.8 (10.0–13.8) | -- |
| High-income North America | 675.1 (634.5–733.1) | 8.9 (7.6–10.3) | 183.4 (159.3–208.2) | 85.6 (79.1–93.0) | 69.1 (62.8–75.8) | 10.7 (9.6–11.7) | 5.8 (5.2–6.5) | -- | 76.3 (70.0–82.3) | 36.5 (30.9–42.0) | 39.8 (37.4–42.3) | -- | 17.4 (14.4–20.9) | 17.4 (14.4–20.9) | -- | -- | 0.3 (0.2–0.4) | 96.1 (84.7–110.8) | -- | 193.7 (158.9–235.3) | 13.4 (12.0–15.2) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Canada | 535.2 (494.0–597.0) | 9.7 (8.1–11.5) | 96.9 (86.3–107.9) | 81.4 (72.1–89.8) | 61.7 (52.4–69.4) | 11.8 (10.5–13.3) | 7.9 (6.7–9.1) | -- | 61.2 (52.7–70.1) | 29.7 (24.1–35.9) | 31.5 (25.1–38.7) | -- | 16.7 (13.4–21.6) | 16.7 (13.4–21.6) | -- | -- | 0.3 (0.2–0.3) | 66.1 (51.7–85.2) | -- | 188.4 (145.3–236.7) | 14.5 (12.8–16.3) | -- |
| Greenland | 606.4 (559.4–674.0) | 10.2 (8.1–12.0) | 95.8 (82.7–109.9) | 129.3 (115.7–144.5) | 90.4 (78.1–104.4) | 27.0 (23.8–29.9) | 11.9 (10.6–13.3) | -- | 75.4 (66.5–86.9) | 28.5 (23.8–33.6) | 46.9 (38.9–57.0) | -- | 16.9 (13.5–21.8) | 16.9 (13.5–21.8) | -- | -- | 0.3 (0.3–0.4) | 76.4 (59.7–98.5) | -- | 193.1 (147.0–242.3) | 9.0 (7.8–10.3) | -- |
| United States of America | 692.8 (651.4–750.1) | 8.8 (7.4–10.2) | 194.4 (168.6–221.4) | 86.2 (79.5–93.2) | 70.0 (63.7–76.5) | 10.5 (9.4–11.6) | 5.6 (5.0–6.2) | -- | 78.2 (71.6–84.5) | 37.4 (31.2–43.1) | 40.8 (38.8–43.0) | -- | 17.4 (14.5–20.8) | 17.4 (14.5–20.8) | -- | -- | 0.3 (0.2–0.4) | 99.8 (88.5–114.2) | -- | 194.5 (160.2–233.9) | 13.2 (11.8–15.1) | -- |
| Alabama | 691.1 (645.8–752.7) | 7.7 (6.6–9.1) | 208.6 (179.9–245.3) | 101.8 (93.5–111.5) | 84.2 (76.3–93.4) | 11.6 (10.2–12.8) | 6.0 (5.2–6.7) | -- | 70.0 (63.6–76.4) | 34.2 (28.3–40.2) | 35.8 (33.7–38.5) | -- | 17.6 (14.7–20.9) | 17.6 (14.7–20.9) | -- | -- | 0.4 (0.3–0.4) | 98.2 (85.9–113.4) | -- | 173.6 (140.7–213.5) | 13.1 (11.6–14.9) | -- |
| Alaska | 621.1 (573.1–685.2) | 7.0 (5.7–8.6) | 182.9 (156.2–212.3) | 80.3 (73.1–89.3) | 64.6 (57.6–72.8) | 10.2 (8.8–11.4) | 5.4 (4.7–6.1) | -- | 63.1 (54.4–71.1) | 37.8 (29.8–46.1) | 25.3 (22.9–27.8) | -- | 18.7 (14.9–23.6) | 18.7 (14.9–23.6) | -- | -- | 0.3 (0.2–0.4) | 88.9 (77.5–102.6) | -- | 164.5 (126.5–213.8) | 15.5 (13.5–17.8) | -- |
| Arizona | 670.9 (627.2–725.3) | 8.1 (6.9–9.5) | 177.6 (155.6–202.9) | 80.1 (73.8–86.6) | 64.3 (58.7–70.3) | 10.2 (9.1–11.2) | 5.5 (5.0–6.2) | -- | 80.8 (73.6–87.3) | 38.5 (32.6–44.8) | 42.3 (40.1–45.0) | -- | 15.4 (12.7–18.6) | 15.4 (12.7–18.6) | -- | -- | 0.3 (0.2–0.3) | 98.8 (87.6–112.5) | -- | 197.7 (162.9–237.9) | 12.1 (10.6–13.9) | -- |
| Arkansas | 697.2 (651.5–755.8) | 6.3 (5.4–7.3) | 247.9 (216.3–279.3) | 92.2 (84.9–100.5) | 74.8 (67.9–82.3) | 11.4 (10.2–12.4) | 6.0 (5.2–6.7) | -- | 60.2 (54.8–65.5) | 28.6 (23.6–33.4) | 31.5 (29.2–33.7) | -- | 15.8 (12.6–20.0) | 15.8 (12.6–20.0) | -- | -- | 0.3 (0.3–0.4) | 92.0 (80.8–105.8) | -- | 169.3 (136.6–207.3) | 13.3 (11.7–15.2) | -- |
| California | 612.4 (575.9–659.1) | 8.4 (7.0–9.7) | 158.9 (135.4–182.8) | 76.2 (69.8–82.2) | 61.0 (55.4–67.0) | 10.1 (8.9–11.1) | 5.1 (4.5–5.8) | -- | 75.5 (68.3–81.9) | 36.3 (30.1–42.5) | 39.2 (37.0–41.6) | -- | 16.3 (13.6–19.2) | 16.3 (13.6–19.2) | -- | -- | 0.3 (0.2–0.3) | 93.8 (81.5–107.1) | -- | 171.8 (140.0–209.3) | 11.3 (9.9–12.8) | -- |
| Colorado | 551.6 (514.1–599.5) | 7.8 (6.6–9.1) | 147.2 (129.4–167.2) | 67.2 (61.6–72.4) | 52.4 (47.2–57.2) | 9.3 (8.3–10.3) | 5.5 (4.9–6.1) | -- | 66.0 (59.9–72.7) | 33.3 (27.5–39.1) | 32.7 (30.6–35.2) | -- | 16.7 (14.0–19.9) | 16.7 (14.0–19.9) | -- | -- | 0.3 (0.2–0.3) | 87.6 (76.4–101.8) | -- | 146.2 (118.2–180.2) | 12.6 (11.0–14.6) | -- |
| Connecticut | 662.7 (620.6–715.3) | 8.4 (7.1–9.9) | 171.6 (147.0–199.1) | 70.8 (65.0–77.4) | 56.3 (50.5–62.3) | 9.4 (8.3–10.5) | 5.1 (4.5–5.8) | -- | 88.5 (81.0–96.0) | 40.3 (33.6–46.2) | 48.2 (45.4–51.1) | -- | 18.8 (15.7–22.5) | 18.8 (15.7–22.5) | -- | -- | 0.3 (0.2–0.4) | 108.9 (96.3–124.7) | -- | 183.1 (149.8–221.8) | 12.3 (10.7–14.3) | -- |
| Delaware | 765.2 (719.9–828.3) | 6.3 (5.2–7.6) | 185.0 (159.8–212.0) | 110.3 (101.8–119.7) | 90.7 (82.4–99.5) | 12.6 (11.3–13.8) | 7.0 (6.2–7.7) | -- | 85.8 (78.3–93.2) | 41.1 (34.3–47.7) | 44.7 (42.4–47.3) | -- | 18.9 (15.4–22.7) | 18.9 (15.4–22.7) | -- | -- | 0.3 (0.2–0.3) | 106.3 (94.2–120.2) | -- | 236.8 (197.5–282.2) | 15.4 (13.7–17.6) | -- |
| Florida | 764.3 (720.4–821.3) | 10.0 (8.5–11.9) | 204.5 (179.2–233.9) | 91.2 (83.7–99.0) | 75.3 (68.5–82.4) | 10.2 (9.1–11.2) | 5.7 (5.1–6.3) | -- | 94.5 (86.3–102.0) | 41.5 (33.8–48.2) | 53.0 (50.2–55.8) | -- | 17.6 (15.0–20.7) | 17.6 (15.0–20.7) | -- | -- | 0.3 (0.2–0.4) | 106.7 (93.6–122.4) | -- | 225.8 (187.8–271.5) | 13.7 (12.2–15.3) | -- |
| Georgia | 678.3 (636.9–734.2) | 6.8 (5.8–8.0) | 192.6 (168.3–221.8) | 93.9 (86.3–102.2) | 77.1 (69.6–84.6) | 11.5 (10.3–12.6) | 5.3 (4.8–5.8) | -- | 75.3 (68.6–81.8) | 35.9 (29.7–41.9) | 39.4 (37.1–41.6) | -- | 15.1 (12.5–18.2) | 15.1 (12.5–18.2) | -- | -- | 0.3 (0.3–0.4) | 96.7 (85.0–110.4) | -- | 183.9 (152.2–225.4) | 13.6 (12.2–15.6) | -- |
| Hawaii | 628.5 (583.8–693.0) | 8.7 (7.2–10.5) | 194.1 (166.1–226.4) | 87.1 (78.7–97.3) | 68.1 (60.6–77.8) | 13.0 (11.2–14.6) | 6.1 (5.2–7.0) | -- | 69.7 (62.9–76.1) | 31.7 (25.4–37.5) | 38.0 (35.9–40.2) | -- | 15.5 (11.8–21.1) | 15.5 (11.8–21.1) | -- | -- | 0.3 (0.2–0.3) | 81.6 (71.3–94.3) | -- | 158.0 (124.2–198.8) | 13.5 (11.6–15.7) | -- |
| Idaho | 585.5 (542.9–644.6) | 9.8 (8.1–12.0) | 171.9 (144.7–203.2) | 67.3 (61.3–73.9) | 54.1 (48.3–60.4) | 8.6 (7.5–9.5) | 4.7 (4.1–5.3) | -- | 71.2 (64.4–78.5) | 36.5 (30.1–42.5) | 34.7 (32.3–37.0) | -- | 18.0 (14.4–22.6) | 18.0 (14.4–22.6) | -- | -- | 0.3 (0.2–0.3) | 93.9 (82.4–106.4) | -- | 139.2 (107.3–180.2) | 13.9 (12.0–16.2) | -- |
| Illinois | 671.5 (627.9–727.9) | 8.5 (7.1–9.9) | 187.9 (162.6–217.6) | 88.1 (81.3–95.6) | 71.6 (65.4–78.6) | 10.7 (9.6–11.8) | 5.8 (5.2–6.5) | -- | 67.8 (61.6–73.6) | 33.8 (28.3–39.2) | 33.9 (31.8–36.2) | -- | 17.9 (15.2–21.1) | 17.9 (15.2–21.1) | -- | -- | 0.2 (0.2–0.3) | 97.6 (85.7–113.7) | -- | 192.0 (157.6–230.9) | 11.5 (10.0–13.3) | -- |
| Indiana | 715.7 (668.2–777.7) | 9.6 (8.2–11.2) | 215.5 (186.0–249.5) | 88.4 (81.7–96.7) | 73.1 (66.1–80.7) | 10.1 (8.9–11.2) | 5.3 (4.7–5.9) | -- | 71.7 (65.5–77.4) | 34.8 (29.2–40.1) | 36.8 (34.6–39.1) | -- | 19.3 (16.0–23.3) | 19.3 (16.0–23.3) | -- | -- | 0.3 (0.3–0.4) | 100.4 (88.7–114.7) | -- | 195.3 (161.2–237.5) | 15.1 (13.3–17.3) | -- |
| Iowa | 634.2 (590.3–687.9) | 5.5 (4.7–6.5) | 196.2 (168.4–222.6) | 71.5 (65.5–77.9) | 57.9 (52.5–63.9) | 9.0 (8.0–10.0) | 4.6 (4.1–5.3) | -- | 59.3 (53.2–65.2) | 31.9 (26.4–37.2) | 27.4 (25.4–29.7) | -- | 16.4 (13.1–19.7) | 16.4 (13.1–19.7) | -- | -- | 0.3 (0.2–0.3) | 89.5 (77.9–104.3) | -- | 184.4 (150.3–224.3) | 11.2 (9.7–13.0) | -- |
| Kansas | 658.8 (615.1–715.9) | 6.6 (5.5–7.8) | 199.8 (174.8–230.3) | 79.2 (72.9–86.0) | 64.8 (59.1–71.1) | 9.7 (8.6–10.7) | 4.8 (4.2–5.4) | -- | 67.4 (61.3–75.1) | 35.6 (29.3–42.2) | 31.8 (29.7–34.1) | -- | 16.8 (14.0–20.2) | 16.8 (14.0–20.2) | -- | -- | 0.3 (0.3–0.4) | 98.4 (86.1–112.9) | -- | 176.7 (144.2–215.6) | 13.5 (12.0–15.6) | -- |
| Kentucky | 743.5 (694.2–806.0) | 12.0 (10.1–14.2) | 229.3 (197.1–264.3) | 92.9 (85.4–100.6) | 76.2 (69.0–83.4) | 10.9 (9.7–12.1) | 5.8 (5.1–6.4) | -- | 73.9 (67.6–80.3) | 35.1 (29.1–40.8) | 38.7 (36.3–41.2) | -- | 18.1 (15.3–21.7) | 18.1 (15.3–21.7) | -- | -- | 0.3 (0.3–0.4) | 107.3 (94.3–123.7) | -- | 195.0 (159.6–235.5) | 14.8 (13.0–16.9) | -- |
| Louisiana | 760.4 (712.5–824.9) | 10.9 (9.2–12.9) | 213.3 (182.2–247.4) | 101.7 (93.8–110.1) | 83.7 (76.3–91.7) | 12.3 (11.0–13.5) | 5.7 (5.1–6.4) | -- | 93.0 (85.7–100.8) | 40.9 (33.7–47.6) | 52.1 (48.9–55.1) | -- | 16.7 (13.6–20.0) | 16.7 (13.6–20.0) | -- | -- | 0.3 (0.3–0.4) | 105.8 (92.6–124.2) | -- | 203.1 (166.0–245.4) | 15.6 (13.7–17.9) | -- |
| Maine | 678.8 (633.8–733.3) | 7.5 (6.3–8.9) | 215.6 (186.2–245.9) | 71.0 (64.7–77.9) | 57.5 (51.4–63.5) | 8.7 (7.6–9.6) | 4.9 (4.3–5.6) | -- | 83.9 (76.6–91.0) | 41.2 (34.8–47.8) | 42.8 (40.4–45.4) | -- | 19.6 (15.7–23.6) | 19.6 (15.7–23.6) | -- | -- | 0.3 (0.2–0.3) | 106.0 (93.7–121.2) | -- | 158.8 (127.4–195.4) | 16.0 (14.2–18.4) | -- |
| Maryland | 713.6 (667.0–764.8) | 8.1 (6.8–9.4) | 180.2 (156.6–203.8) | 95.5 (87.7–104.3) | 78.1 (70.7–85.8) | 11.7 (10.4–12.9) | 5.7 (5.2–6.3) | -- | 74.3 (67.8–81.4) | 35.9 (30.3–41.9) | 38.4 (36.2–40.8) | -- | 17.8 (14.8–20.7) | 17.8 (14.8–20.7) | -- | -- | 0.3 (0.3–0.4) | 96.9 (84.8–111.3) | -- | 227.3 (187.2–272.7) | 13.2 (11.7–15.1) | -- |
| Massachusetts | 654.7 (611.5–702.9) | 7.4 (6.2–8.6) | 177.8 (154.9–202.8) | 75.4 (69.3–81.8) | 59.6 (54.1–65.7) | 9.9 (8.8–11.0) | 5.9 (5.3–6.6) | -- | 85.0 (77.6–92.2) | 40.4 (33.6–47.2) | 44.6 (42.4–47.1) | -- | 18.9 (15.7–22.4) | 18.9 (15.7–22.4) | -- | -- | 0.3 (0.2–0.4) | 108.7 (95.3–125.4) | -- | 167.2 (135.5–205.1) | 13.9 (12.3–15.8) | -- |
| Michigan | 736.6 (692.8–794.7) | 8.4 (7.0–9.7) | 223.9 (195.7–254.0) | 95.6 (88.7–103.2) | 79.0 (71.9–86.6) | 10.7 (9.6–11.7) | 5.9 (5.3–6.5) | -- | 75.1 (68.2–82.1) | 36.6 (30.2–42.5) | 38.5 (36.3–40.8) | -- | 16.6 (14.1–19.5) | 16.6 (14.1–19.5) | -- | -- | 0.3 (0.3–0.4) | 104.0 (92.2–119.6) | -- | 198.8 (164.2–237.9) | 13.8 (12.4–15.5) | -- |
| Minnesota | 592.3 (556.4–638.5) | 7.6 (6.5–8.7) | 169.6 (149.4–192.3) | 84.0 (77.7–91.2) | 67.5 (61.4–74.0) | 10.5 (9.3–11.6) | 6.0 (5.4–6.7) | -- | 65.7 (59.1–71.9) | 32.9 (27.5–38.3) | 32.8 (30.6–35.0) | -- | 15.9 (13.3–18.7) | 15.9 (13.3–18.7) | -- | -- | 0.3 (0.3–0.4) | 92.4 (80.9–105.1) | -- | 143.6 (114.4–177.7) | 13.2 (11.7–15.3) | -- |
| Mississippi | 701.0 (656.8–763.6) | 6.8 (5.6–8.0) | 232.7 (203.8–264.2) | 102.0 (93.9–111.1) | 84.0 (76.4–92.2) | 12.4 (11.0–13.5) | 5.7 (5.0–6.3) | -- | 61.4 (55.3–67.1) | 31.2 (25.7–36.4) | 30.3 (28.0–32.5) | -- | 13.8 (10.9–17.6) | 13.8 (10.9–17.6) | -- | -- | 0.3 (0.3–0.4) | 87.1 (76.3–101.5) | -- | 184.3 (149.7–224.5) | 12.5 (11.0–14.4) | -- |
| Missouri | 736.5 (687.8–801.1) | 9.9 (8.5–11.5) | 215.0 (185.0–250.2) | 92.4 (85.0–100.7) | 76.5 (69.6–84.2) | 10.6 (9.5–11.7) | 5.3 (4.7–5.9) | -- | 81.6 (74.6–88.5) | 38.0 (31.7–44.5) | 43.6 (41.1–46.0) | -- | 19.0 (15.7–22.8) | 19.0 (15.7–22.8) | -- | -- | 0.4 (0.3–0.4) | 103.9 (91.3–120.2) | -- | 202.0 (166.8–242.8) | 12.3 (10.9–14.3) | -- |
| Montana | 610.9 (565.7–676.7) | 10.3 (8.5–12.6) | 178.2 (148.5–213.0) | 70.1 (62.9–78.3) | 56.5 (49.9–64.1) | 8.7 (7.4–9.8) | 4.8 (4.2–5.6) | -- | 67.7 (60.8–74.8) | 35.1 (28.8–42.1) | 32.6 (30.2–35.2) | -- | 17.9 (14.3–23.1) | 17.9 (14.3–23.1) | -- | -- | 0.3 (0.2–0.4) | 95.1 (83.8–109.1) | -- | 155.4 (123.2–198.6) | 15.9 (13.9–18.5) | -- |
| Nebraska | 618.4 (576.0–676.1) | 6.2 (5.2–7.4) | 179.9 (154.1–205.9) | 76.4 (69.5–83.4) | 62.1 (56.1–68.6) | 9.3 (8.1–10.3) | 4.9 (4.3–5.6) | -- | 62.7 (55.9–69.4) | 34.7 (28.3–41.0) | 28.0 (25.8–30.5) | -- | 15.7 (12.8–19.2) | 15.7 (12.8–19.2) | -- | -- | 0.3 (0.2–0.3) | 100.4 (88.3–115.0) | -- | 161.7 (130.2–199.4) | 15.1 (13.3–17.4) | -- |
| Nevada | 713.1 (673.1–769.4) | 9.6 (8.1–11.3) | 202.9 (176.2–230.8) | 88.6 (81.7–97.1) | 69.7 (62.9–77.0) | 12.5 (11.1–13.7) | 6.4 (5.7–7.2) | -- | 88.4 (80.8–95.3) | 40.7 (34.0–47.3) | 47.7 (45.1–50.6) | -- | 16.4 (13.5–19.9) | 16.4 (13.5–19.9) | -- | -- | 0.3 (0.3–0.4) | 89.2 (78.9–102.6) | -- | 204.6 (169.8–247.2) | 13.1 (11.4–15.2) | -- |
| New Hampshire | 644.0 (601.1–700.7) | 10.0 (8.4–11.9) | 187.7 (159.1–219.7) | 69.8 (63.4–76.3) | 55.6 (49.2–61.9) | 9.3 (8.2–10.4) | 4.9 (4.3–5.6) | -- | 82.8 (75.1–89.8) | 41.1 (34.0–48.1) | 41.7 (39.2–44.3) | -- | 18.5 (14.7–22.6) | 18.5 (14.7–22.6) | -- | -- | 0.3 (0.2–0.4) | 105.5 (93.4–120.8) | -- | 156.2 (125.3–193.0) | 13.2 (11.4–15.4) | -- |
| New Jersey | 769.4 (722.0–832.4) | 8.9 (7.5–10.5) | 189.3 (167.7–215.3) | 87.4 (80.7–94.3) | 70.3 (64.1–76.3) | 11.3 (10.1–12.3) | 5.8 (5.2–6.5) | -- | 98.9 (90.3–107.6) | 45.1 (37.0–53.7) | 53.8 (50.9–56.9) | -- | 18.5 (15.6–21.9) | 18.5 (15.6–21.9) | -- | -- | 0.3 (0.2–0.4) | 103.9 (90.7–119.8) | -- | 248.2 (204.9–296.6) | 14.1 (12.6–16.1) | -- |
| New Mexico | 598.9 (558.4–655.3) | 6.9 (5.8–8.1) | 194.0 (168.1–222.0) | 74.4 (67.9–81.4) | 60.1 (54.3–66.7) | 9.7 (8.5–10.6) | 4.7 (4.1–5.3) | -- | 57.3 (51.6–63.2) | 29.7 (24.5–35.0) | 27.6 (25.5–29.9) | -- | 15.5 (12.2–19.5) | 15.5 (12.2–19.5) | -- | -- | 0.3 (0.3–0.4) | 73.8 (64.3–84.4) | -- | 162.9 (130.8–199.1) | 13.8 (12.1–16.0) | -- |
| New York | 774.7 (727.4–842.4) | 9.8 (8.2–11.5) | 212.3 (184.8–243.9) | 84.3 (78.0–91.8) | 67.4 (61.6–74.2) | 10.9 (9.7–11.9) | 6.1 (5.4–6.7) | -- | 96.4 (88.6–104.2) | 42.5 (35.5–49.3) | 53.9 (51.2–57.0) | -- | 22.0 (18.2–27.1) | 22.0 (18.2–27.1) | -- | -- | 0.3 (0.2–0.4) | 102.1 (90.6–118.6) | -- | 231.2 (191.2–277.1) | 16.4 (14.5–18.5) | -- |
| North Carolina | 646.9 (605.2–697.5) | 7.0 (6.0–8.2) | 188.8 (165.2–213.3) | 87.8 (81.0–94.9) | 72.1 (66.3–78.8) | 10.5 (9.3–11.5) | 5.2 (4.6–5.7) | -- | 67.0 (60.6–73.4) | 34.2 (28.3–40.4) | 32.9 (30.7–35.3) | -- | 14.7 (12.2–17.3) | 14.7 (12.2–17.3) | -- | -- | 0.4 (0.3–0.4) | 96.9 (85.1–112.4) | -- | 172.2 (138.9–209.2) | 12.1 (10.7–13.8) | -- |
| North Dakota | 639.1 (586.8–707.2) | 11.1 (9.1–13.4) | 198.0 (167.1–233.5) | 78.2 (70.3–87.6) | 63.2 (55.6–72.2) | 9.5 (8.0–10.7) | 5.6 (4.7–6.4) | -- | 61.7 (54.5–70.3) | 33.9 (26.7–41.2) | 27.8 (25.6–30.4) | -- | 19.5 (15.7–24.5) | 19.5 (15.7–24.5) | -- | -- | 0.3 (0.2–0.4) | 84.7 (73.6–98.3) | -- | 171.0 (130.5–218.5) | 14.6 (12.7–17.2) | -- |
| Ohio | 775.0 (723.1–839.4) | 11.3 (9.6–13.2) | 222.0 (190.0–255.0) | 94.3 (86.2–102.0) | 77.4 (69.7–84.8) | 10.9 (9.8–11.9) | 6.0 (5.4–6.7) | -- | 82.2 (75.1–88.9) | 38.9 (32.7–45.1) | 43.2 (40.7–45.5) | -- | 21.4 (17.7–25.9) | 21.4 (17.7–25.9) | -- | -- | 0.3 (0.3–0.4) | 107.7 (95.2–123.3) | -- | 220.8 (183.2–265.0) | 15.0 (13.4–16.8) | -- |
| Oklahoma | 723.2 (676.0–789.4) | 10.8 (9.1–12.9) | 219.3 (188.0–255.2) | 92.7 (85.1–100.1) | 76.2 (69.4–84.0) | 10.8 (9.5–11.8) | 5.8 (5.0–6.5) | -- | 79.3 (72.6–86.0) | 36.6 (30.7–42.9) | 42.7 (40.2–45.3) | -- | 17.1 (14.2–20.8) | 17.1 (14.2–20.8) | -- | -- | 0.3 (0.3–0.4) | 95.9 (84.5–111.7) | -- | 193.8 (158.7–231.6) | 13.9 (12.2–16.0) | -- |
| Oregon | 562.0 (524.4–609.6) | 5.7 (4.8–6.7) | 159.0 (137.7–180.6) | 68.9 (63.0–74.9) | 55.0 (49.5–60.9) | 8.9 (7.9–10.0) | 4.9 (4.3–5.5) | -- | 68.3 (61.5–74.8) | 37.0 (30.5–43.2) | 31.4 (29.2–33.8) | -- | 13.5 (10.9–16.6) | 13.5 (10.9–16.6) | -- | -- | 0.3 (0.2–0.3) | 96.3 (83.8–110.8) | -- | 137.3 (107.9–176.2) | 12.7 (11.0–14.7) | -- |
| Pennsylvania | 809.4 (761.2–875.2) | 11.4 (9.7–13.3) | 197.7 (169.1–229.8) | 90.8 (83.1–98.5) | 74.0 (66.7–81.2) | 10.7 (9.5–11.8) | 6.0 (5.4–6.7) | -- | 94.7 (86.0–102.2) | 44.4 (37.2–52.3) | 50.3 (47.3–53.1) | -- | 19.9 (16.7–23.5) | 19.9 (16.7–23.5) | -- | -- | 0.3 (0.2–0.3) | 124.3 (110.5–139.7) | -- | 255.0 (211.5–302.9) | 15.4 (13.8–17.7) | -- |
| Rhode Island | 748.8 (697.9–819.9) | 7.4 (6.2–9.1) | 220.5 (191.0–252.2) | 72.7 (66.3–79.8) | 58.2 (52.2–65.0) | 9.4 (8.1–10.4) | 5.1 (4.6–5.8) | -- | 80.3 (73.1–86.7) | 36.7 (30.4–42.4) | 43.6 (41.2–45.8) | -- | 19.5 (16.0–23.3) | 19.5 (16.0–23.3) | -- | -- | 0.3 (0.2–0.3) | 101.6 (89.0–117.1) | -- | 232.1 (191.9–279.7) | 14.5 (12.7–16.8) | -- |
| South Carolina | 704.5 (662.5–758.1) | 6.2 (5.3–7.3) | 201.2 (178.9–228.0) | 95.2 (87.7–102.9) | 78.6 (71.6–85.8) | 11.1 (9.9–12.1) | 5.5 (4.9–6.1) | -- | 77.0 (69.9–83.6) | 37.9 (31.2–43.8) | 39.1 (36.9–41.3) | -- | 15.2 (12.5–18.1) | 15.2 (12.5–18.1) | -- | -- | 0.4 (0.3–0.4) | 97.7 (85.9–111.7) | -- | 199.7 (164.7–239.7) | 11.8 (10.4–13.5) | -- |
| South Dakota | 641.2 (593.9–705.9) | 7.0 (5.8–8.4) | 208.7 (179.0–241.9) | 77.6 (70.7–85.8) | 62.7 (56.3–70.4) | 9.5 (8.2–10.6) | 5.3 (4.6–6.1) | -- | 57.5 (51.5–65.0) | 29.7 (23.5–36.1) | 27.8 (25.4–30.5) | -- | 17.5 (13.9–22.0) | 17.5 (13.9–22.0) | -- | -- | 0.3 (0.3–0.4) | 93.0 (81.2–107.7) | -- | 165.3 (130.1–211.7) | 14.3 (12.4–16.5) | -- |
| Tennessee | 708.3 (662.5–770.2) | 11.8 (10.0–13.8) | 221.1 (190.9–256.2) | 93.9 (86.3–102.1) | 76.5 (69.7–83.9) | 11.4 (10.2–12.5) | 5.9 (5.3–6.6) | -- | 68.9 (62.7–74.7) | 34.0 (28.2–39.6) | 35.0 (32.9–37.5) | -- | 18.6 (15.6–22.0) | 18.6 (15.6–22.0) | -- | -- | 0.4 (0.3–0.5) | 96.7 (85.8–111.3) | -- | 184.4 (151.7–222.9) | 12.5 (11.0–14.5) | -- |
| Texas | 703.0 (655.3–765.9) | 8.5 (7.2–9.9) | 203.4 (175.2–234.1) | 94.1 (85.8–102.7) | 77.0 (69.6–85.1) | 11.1 (9.9–12.2) | 6.0 (5.4–6.6) | -- | 70.7 (64.5–76.3) | 34.2 (28.7–40.1) | 36.5 (34.4–38.5) | -- | 16.1 (13.4–19.1) | 16.1 (13.4–19.1) | -- | -- | 0.3 (0.3–0.4) | 96.5 (84.4–111.9) | -- | 201.7 (166.8–241.9) | 11.5 (10.3–13.0) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Utah | 574.5 (533.3–628.9) | 9.3 (7.8–11.2) | 165.2 (140.9–194.8) | 70.1 (64.1–76.1) | 55.5 (49.7–61.3) | 9.8 (8.7–10.9) | 4.8 (4.3–5.5) | -- | 59.5 (53.1–65.6) | 31.8 (26.2–36.9) | 27.7 (25.7–30.1) | -- | 17.0 (13.7–20.9) | 17.0 (13.7–20.9) | -- | -- | 0.3 (0.2–0.3) | 83.6 (73.3–95.1) | -- | 154.5 (123.6–189.0) | 15.1 (13.2–17.4) | -- |
| Vermont | 642.2 (593.7–705.3) | 6.4 (5.3–7.9) | 208.2 (177.2–239.2) | 66.4 (60.0–73.9) | 53.5 (47.7–60.8) | 8.2 (7.2–9.2) | 4.7 (4.1–5.4) | -- | 69.7 (61.6–77.6) | 37.4 (29.8–45.1) | 32.3 (30.0–34.5) | -- | 17.8 (14.4–22.1) | 17.8 (14.4–22.1) | -- | -- | 0.3 (0.2–0.3) | 97.7 (85.4–111.2) | -- | 163.0 (127.6–209.2) | 12.8 (11.0–14.7) | -- |
| Virginia | 656.8 (618.7–710.6) | 9.5 (8.1–11.2) | 188.2 (162.1–217.1) | 87.5 (80.6–94.8) | 71.4 (65.2–78.5) | 10.6 (9.5–11.7) | 5.5 (4.9–6.1) | -- | 74.3 (67.3–80.6) | 36.0 (29.9–41.7) | 38.3 (36.2–40.7) | -- | 18.8 (15.6–22.1) | 18.8 (15.6–22.1) | -- | -- | 0.3 (0.2–0.3) | 95.7 (83.8–108.9) | -- | 170.4 (139.8–205.3) | 12.1 (10.7–14.1) | -- |
| Washington | 605.1 (564.3–655.3) | 6.6 (5.6–7.7) | 169.8 (147.0–193.6) | 74.7 (68.9–80.9) | 60.0 (54.6–65.8) | 9.7 (8.6–10.7) | 5.0 (4.5–5.5) | -- | 71.6 (64.4–78.3) | 37.9 (31.4–44.3) | 33.6 (31.3–35.8) | -- | 14.9 (12.5–17.8) | 14.9 (12.5–17.8) | -- | -- | 0.3 (0.2–0.4) | 100.7 (88.7–115.7) | -- | 153.7 (124.2–188.7) | 12.8 (11.2–14.8) | -- |
| District of Columbia | 683.3 (636.8–751.9) | 9.4 (8.0–11.3) | 210.5 (178.0–250.0) | 103.3 (93.3–114.0) | 83.2 (74.4–93.6) | 13.5 (11.8–15.2) | 6.5 (5.6–7.4) | -- | 58.2 (52.0–64.6) | 28.7 (22.8–34.1) | 29.5 (27.4–32.2) | -- | 19.0 (15.4–23.3) | 19.0 (15.4–23.3) | -- | -- | 0.3 (0.3–0.4) | 69.0 (60.9–80.0) | -- | 200.1 (160.9–244.3) | 13.3 (11.6–15.5) | -- |
| West Virginia | 802.2 (750.6–865.0) | 8.4 (7.3–9.7) | 275.3 (241.2–316.3) | 91.3 (84.2–99.3) | 74.1 (67.7–81.6) | 11.3 (10.1–12.5) | 5.9 (5.2–6.6) | -- | 74.1 (67.4–81.2) | 35.4 (29.4–41.5) | 38.8 (36.4–41.2) | -- | 20.9 (17.3–25.3) | 20.9 (17.3–25.3) | -- | -- | 0.3 (0.3–0.4) | 106.0 (92.8–123.2) | -- | 211.6 (175.1–253.5) | 14.1 (12.4–16.0) | -- |
| Wisconsin | 644.6 (605.7–698.8) | 7.7 (6.6–9.0) | 182.7 (159.7–208.7) | 74.6 (68.4–80.7) | 60.4 (55.0–66.2) | 9.0 (8.1–9.9) | 5.2 (4.6–5.8) | -- | 74.0 (67.1–80.1) | 36.9 (30.9–42.8) | 37.1 (35.1–39.3) | -- | 16.6 (14.0–19.7) | 16.6 (14.0–19.7) | -- | -- | 0.3 (0.2–0.3) | 100.0 (87.1–114.9) | -- | 175.0 (142.7–210.8) | 13.6 (12.1–15.4) | -- |
| Wyoming | 612.3 (566.5–674.2) | 9.3 (7.6–11.3) | 190.9 (161.8–228.6) | 69.7 (62.9–77.4) | 56.1 (49.7–63.4) | 8.7 (7.4–9.8) | 4.9 (4.2–5.6) | -- | 58.7 (51.3–66.5) | 34.5 (27.3–42.1) | 24.2 (22.1–26.5) | -- | 17.5 (14.0–22.8) | 17.5 (14.0–22.8) | -- | -- | 0.3 (0.2–0.4) | 84.3 (73.4–97.0) | -- | 166.6 (132.2–209.1) | 15.0 (12.9–17.6) | -- |
| Southern Latin America | 382.3 (354.2–420.6) | 2.7 (2.4–3.0) | 87.0 (76.6–98.4) | 80.4 (74.1–86.7) | 47.3 (41.9–52.8) | 22.0 (20.2–24.1) | 11.1 (9.8–12.4) | -- | 33.7 (29.4–38.0) | 23.1 (19.2–26.8) | 10.6 (8.7–12.7) | -- | 8.6 (7.1–10.5) | 8.6 (7.1–10.5) | -- | -- | 0.3 (0.3–0.4) | 45.1 (34.6–57.8) | -- | 110.1 (84.0–140.5) | 14.4 (13.0–15.9) | -- |
| Argentina | 366.5 (338.2–404.8) | 2.8 (2.6–3.2) | 78.5 (69.3–88.5) | 74.9 (69.0–81.4) | 42.5 (37.7–48.4) | 22.2 (20.2–24.1) | 10.3 (9.0–11.5) | -- | 33.6 (29.2–38.8) | 23.8 (19.9–28.0) | 9.8 (8.1–12.2) | -- | 8.1 (6.4–10.3) | 8.1 (6.4–10.3) | -- | -- | 0.3 (0.3–0.4) | 44.2 (33.8–56.8) | -- | 108.7 (83.3–137.9) | 15.3 (13.5–17.2) | -- |
| Chile | 410.8 (380.3–448.8) | 2.4 (2.1–2.7) | 106.3 (91.6–125.1) | 90.0 (82.5–97.4) | 55.7 (48.6–62.1) | 22.1 (20.1–24.6) | 12.2 (10.7–13.9) | -- | 31.6 (27.7–36.0) | 19.8 (15.9–23.3) | 11.7 (9.5–14.3) | -- | 9.9 (8.5–11.6) | 9.9 (8.5–11.6) | -- | -- | 0.3 (0.3–0.4) | 47.3 (36.5–60.8) | -- | 112.2 (86.5–143.8) | 10.7 (9.9–12.0) | -- |
| Uruguay | 416.4 (389.6–456.6) | 2.2 (1.9–2.6) | 83.5 (72.5–95.1) | 97.7 (90.4–106.0) | 61.8 (55.3–69.1) | 21.0 (18.9–23.2) | 15.0 (13.4–16.8) | -- | 43.8 (38.8–49.3) | 31.1 (26.9–35.8) | 12.7 (10.4–15.6) | -- | 9.6 (7.6–12.2) | 9.6 (7.6–12.2) | -- | -- | 0.3 (0.2–0.4) | 44.4 (34.5–57.4) | -- | 113.9 (85.9–144.9) | 20.9 (18.9–23.0) | -- |
| Western Europe | 539.8 (499.5–591.8) | 3.3 (3.0–3.7) | 131.6 (115.6–148.2) | 80.4 (74.1–87.7) | 60.3 (54.1–66.5) | 13.2 (11.8–14.5) | 6.9 (6.1–7.8) | -- | 60.1 (55.8–64.8) | 35.8 (31.6–40.0) | 24.3 (22.4–26.3) | -- | 15.8 (12.5–19.7) | 15.8 (12.5–19.7) | -- | -- | 0.4 (0.3–0.5) | 71.6 (57.4–89.6) | -- | 155.8 (119.1–198.6) | 20.7 (18.9–22.9) | -- |
| Andorra | 440.8 (405.4–494.9) | 2.3 (2.0–2.6) | 92.6 (78.4–108.2) | 65.6 (58.8–73.6) | 47.9 (41.5–56.2) | 11.0 (9.4–12.8) | 6.7 (5.6–7.9) | -- | 33.9 (29.1–39.5) | 23.1 (19.0–27.8) | 10.8 (8.5–13.1) | -- | 15.0 (11.6–18.8) | 15.0 (11.6–18.8) | -- | -- | 0.4 (0.3–0.5) | 71.3 (55.0–93.1) | -- | 144.8 (109.1–184.9) | 15.0 (12.9–17.3) | -- |
| Austria | 662.8 (619.8–718.4) | 4.3 (3.9–4.6) | 161.1 (142.0–183.1) | 91.2 (80.9–100.4) | 64.7 (55.0–73.5) | 15.2 (13.4–17.0) | 11.2 (10.1–12.3) | -- | 105.2 (88.4–133.2) | 68.8 (54.4–93.9) | 36.5 (29.7–53.8) | -- | 21.2 (16.9–25.5) | 21.2 (16.9–25.5) | -- | -- | 0.4 (0.3–0.5) | 124.8 (103.7–139.1) | -- | 136.5 (104.1–174.3) | 18.1 (16.6–19.8) | -- |
| Belgium | 462.8 (428.4–511.3) | 3.3 (2.9–3.6) | 100.4 (88.1–115.0) | 69.2 (62.2–76.7) | 49.3 (42.5–56.7) | 13.5 (12.0–15.1) | 6.4 (5.5–7.2) | -- | 48.3 (43.6–54.3) | 40.2 (35.4–46.0) | 8.1 (6.6–9.7) | -- | 12.2 (9.4–16.1) | 12.2 (9.4–16.1) | -- | -- | 0.4 (0.4–0.5) | 60.6 (49.0–77.7) | -- | 142.8 (109.4–183.8) | 25.4 (22.7–28.6) | -- |
| Cyprus | 477.0 (434.5–532.2) | 3.5 (3.1–3.9) | 96.8 (82.6–111.1) | 75.8 (67.4–84.9) | 51.3 (44.2–59.5) | 16.8 (14.5–19.2) | 7.7 (6.6–9.0) | -- | 43.0 (38.4–47.1) | 36.7 (32.5–40.9) | 6.3 (5.2–7.4) | -- | 14.3 (11.0–18.6) | 14.3 (11.0–18.6) | -- | -- | 0.4 (0.3–0.5) | 62.8 (47.8–82.5) | -- | 162.6 (124.9–211.0) | 17.7 (15.5–20.4) | -- |
| Denmark | 434.4 (402.4–482.2) | 2.8 (2.5–3.2) | 85.7 (76.8–95.6) | 75.7 (68.0–84.2) | 53.7 (46.0–61.4) | 13.8 (12.3–15.5) | 8.1 (7.2–9.3) | -- | 48.8 (43.2–55.9) | 38.2 (32.6–44.7) | 10.7 (8.7–12.8) | -- | 11.5 (8.8–15.0) | 11.5 (8.8–15.0) | -- | -- | 0.4 (0.3–0.5) | 75.2 (58.3–96.8) | -- | 113.9 (86.7–147.1) | 20.4 (18.0–23.2) | -- |
| Finland | 554.7 (515.4–607.6) | 1.7 (1.5–2.0) | 137.6 (120.0–156.1) | 94.5 (87.1–102.1) | 67.8 (61.1–75.1) | 16.8 (15.2–18.8) | 9.9 (8.7–11.0) | -- | 72.3 (64.6–81.8) | 46.1 (39.1–55.5) | 26.2 (21.6–31.9) | -- | 16.6 (12.9–21.2) | 16.6 (12.9–21.2) | -- | -- | 0.4 (0.3–0.5) | 69.1 (53.5–90.9) | -- | 149.9 (112.6–191.5) | 12.6 (10.6–14.9) | -- |
| France | 435.9 (398.9–479.8) | 2.7 (2.4–3.1) | 74.8 (65.4–85.3) | 70.7 (64.2–77.0) | 52.3 (46.0–58.2) | 11.9 (10.6–13.4) | 6.4 (5.6–7.3) | -- | 43.3 (38.9–49.9) | 34.4 (29.9–40.5) | 8.9 (7.1–11.0) | -- | 14.6 (11.3–18.4) | 14.6 (11.3–18.4) | -- | -- | 0.5 (0.4–0.6) | 69.7 (53.5–90.8) | -- | 133.8 (101.7–168.7) | 25.8 (23.3–28.8) | -- |
| Germany | 654.4 (608.8–715.3) | 4.1 (3.8–4.5) | 183.3 (163.2–206.1) | 107.7 (97.2–117.2) | 88.4 (78.5–97.8) | 11.9 (10.9–13.2) | 7.3 (6.5–8.2) | -- | 58.3 (51.8–65.5) | 43.9 (37.8–50.3) | 14.4 (12.1–18.2) | -- | 19.8 (16.4–24.1) | 19.8 (16.4–24.1) | -- | -- | 0.4 (0.3–0.5) | 77.8 (59.7–100.2) | -- | 182.7 (140.1–232.5) | 20.3 (18.5–22.0) | -- |
| Greece | 507.2 (470.9–561.7) | 2.1 (1.9–2.5) | 131.2 (115.4–148.7) | 95.5 (86.7–104.9) | 64.7 (56.3–73.0) | 22.7 (20.5–25.0) | 8.1 (7.0–9.3) | -- | 39.1 (35.1–43.0) | 28.2 (24.8–31.5) | 10.8 (9.0–14.2) | -- | 14.7 (11.4–18.5) | 14.7 (11.4–18.5) | -- | -- | 0.4 (0.3–0.5) | 62.8 (48.1–82.0) | -- | 147.4 (113.6–190.3) | 14.0 (12.2–15.8) | -- |
| Iceland | 492.7 (453.8–542.2) | 2.2 (1.9–2.6) | 132.2 (114.2–150.7) | 67.9 (60.1–75.7) | 48.8 (42.0–55.6) | 11.1 (9.7–12.5) | 7.9 (6.8–9.1) | -- | 50.1 (43.1–59.3) | 42.9 (35.9–51.5) | 7.2 (5.9–8.7) | -- | 16.9 (12.8–21.5) | 16.9 (12.8–21.5) | -- | -- | 0.4 (0.3–0.4) | 72.6 (56.1–93.6) | -- | 137.0 (103.7–174.9) | 13.4 (11.7–15.6) | -- |
| Ireland | 463.7 (426.7–515.7) | 2.4 (2.1–2.7) | 120.2 (105.9–135.6) | 62.3 (56.0–69.2) | 42.2 (36.6–48.5) | 12.2 (10.6–13.9) | 7.9 (6.8–9.1) | -- | 40.2 (35.3–45.7) | 28.0 (24.1–33.4) | 12.2 (9.8–15.2) | -- | 14.6 (11.3–18.4) | 14.6 (11.3–18.4) | -- | -- | 0.2 (0.1–0.2) | 65.6 (50.7–85.1) | -- | 145.2 (111.3–183.1) | 13.0 (11.2–15.0) | -- |
| Israel | 455.0 (414.9–510.8) | 3.0 (2.7–3.4) | 88.1 (76.8–102.1) | 66.1 (58.7–73.2) | 46.5 (39.8–52.9) | 13.1 (11.7–14.6) | 6.5 (5.4–7.5) | -- | 33.4 (29.8–37.7) | 19.6 (16.8–22.3) | 13.8 (11.5–16.7) | -- | 14.7 (11.4–18.5) | 14.7 (11.4–18.5) | -- | -- | 0.6 (0.5–0.8) | 74.6 (56.6–97.8) | -- | 160.5 (120.4–205.6) | 14.0 (12.1–16.0) | -- |
| Italy | 631.4 (588.6–696.2) | 4.4 (3.7–5.2) | 215.1 (185.3–248.0) | 69.2 (62.5–77.1) | 48.8 (42.9–55.7) | 15.1 (13.2–16.9) | 5.3 (4.7–6.0) | -- | 109.1 (102.8–116.1) | 36.1 (31.0–41.1) | 73.1 (69.8–76.5) | -- | 20.6 (15.8–25.9) | 20.6 (15.8–25.9) | -- | -- | 0.4 (0.3–0.5) | 47.5 (38.4–59.9) | -- | 147.0 (112.5–188.8) | 18.1 (15.7–20.9) | -- |
| Luxembourg | 499.6 (458.0–555.4) | 3.3 (2.9–3.8) | 87.6 (76.0–100.0) | 63.5 (56.8–69.7) | 45.2 (39.4–50.8) | 12.5 (11.1–14.0) | 5.8 (4.8–6.7) | -- | 69.7 (61.1–78.6) | 43.7 (36.9–50.8) | 26.0 (21.1–33.0) | -- | 16.3 (12.6–20.7) | 16.3 (12.6–20.7) | -- | -- | 0.4 (0.3–0.5) | 74.7 (57.5–97.1) | -- | 161.4 (121.2–205.4) | 22.7 (20.3–25.3) | -- |
| Malta | 469.5 (430.3–520.1) | 2.2 (1.9–2.4) | 121.1 (105.5–137.2) | 65.9 (59.3–72.3) | 45.4 (39.2–51.7) | 13.9 (12.3–15.7) | 6.6 (5.5–7.8) | -- | 26.5 (22.7–30.5) | 19.0 (15.4–23.0) | 7.5 (6.2–8.8) | -- | 15.1 (11.7–19.0) | 15.1 (11.7–19.0) | -- | -- | 0.4 (0.3–0.5) | 63.8 (49.4–81.7) | -- | 155.0 (118.0–196.4) | 19.5 (17.2–21.8) | -- |
| Monaco | 424.6 (390.2–473.9) | 2.5 (2.1–2.9) | 78.2 (63.7–97.2) | 79.5 (71.2–90.7) | 61.3 (53.0–71.8) | 12.0 (10.2–13.8) | 6.3 (5.2–7.3) | -- | 29.6 (25.2–34.2) | 20.2 (16.5–24.0) | 9.3 (7.4–11.5) | -- | 14.6 (11.3–18.4) | 14.6 (11.3–18.4) | -- | -- | 0.4 (0.3–0.5) | 69.9 (53.4–92.5) | -- | 134.2 (101.5–172.5) | 15.8 (13.6–18.7) | -- |
| Netherlands | 486.5 (445.7–536.7) | 2.4 (2.1–2.8) | 86.5 (73.6–99.8) | 80.4 (71.1–89.8) | 59.4 (50.3–67.9) | 13.3 (11.7–15.0) | 7.6 (6.5–8.7) | -- | 42.2 (37.2–47.8) | 20.0 (17.5–22.6) | 22.2 (18.0–26.9) | -- | 14.7 (11.4–18.5) | 14.7 (11.4–18.5) | -- | -- | 0.5 (0.4–0.6) | 70.4 (62.2–78.2) | -- | 158.7 (122.2–202.4) | 30.8 (27.4–34.7) | -- |
| Norway | 540.6 (502.1–596.9) | 2.1 (1.7–2.6) | 97.4 (82.0–115.6) | 77.2 (68.7–87.8) | 56.7 (49.0–66.8) | 12.6 (10.7–14.5) | 7.9 (6.8–9.0) | -- | 107.1 (100.2–114.2) | 36.7 (30.2–43.0) | 70.4 (66.8–74.0) | -- | 16.0 (12.4–20.3) | 16.0 (12.4–20.3) | -- | -- | 0.4 (0.4–0.5) | 75.0 (58.4–96.8) | -- | 142.4 (109.2–182.4) | 23.1 (19.7–27.5) | -- |
| Agder | 539.0 (499.9–595.0) | 2.2 (1.8–2.6) | 92.5 (77.8–110.7) | 76.7 (68.2–86.5) | 56.8 (49.1–66.5) | 12.1 (10.2–14.1) | 7.8 (6.7–8.9) | -- | 107.7 (100.2–115.8) | 36.0 (29.3–41.9) | 71.7 (68.0–76.0) | -- | 16.0 (12.3–20.3) | 16.0 (12.3–20.3) | -- | -- | 0.5 (0.4–0.6) | 74.5 (57.5–96.3) | -- | 144.8 (110.7–186.1) | 24.2 (20.7–29.1) | -- |
| Innlandet | 548.3 (508.7–604.5) | 2.0 (1.6–2.4) | 98.4 (83.6–116.4) | 84.4 (74.9–95.9) | 62.1 (53.3–74.0) | 13.8 (11.8–16.1) | 8.5 (7.4–9.8) | -- | 105.1 (98.1–112.5) | 35.1 (29.2–41.8) | 70.0 (66.0–74.3) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.5 (0.4–0.6) | 74.7 (57.1–98.1) | -- | 144.9 (109.4–183.6) | 22.3 (19.0–26.7) | -- |
| Møre og Romsdal | 550.7 (512.6–607.9) | 2.2 (1.8–2.7) | 99.6 (82.0–117.4) | 79.3 (70.0–89.0) | 58.3 (50.5–67.7) | 13.0 (11.0–15.2) | 8.0 (6.8–9.2) | -- | 112.0 (104.3–120.2) | 39.2 (32.4–45.8) | 72.8 (68.5–77.3) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.4 (0.3–0.5) | 75.0 (57.7–96.4) | -- | 143.5 (110.4–182.7) | 22.7 (19.3–27.1) | -- |
| Nordland | 552.6 (512.4–607.8) | 2.2 (1.7–2.6) | 101.2 (84.5–119.5) | 80.4 (71.2–91.6) | 59.5 (50.8–70.1) | 12.6 (10.5–14.6) | 8.4 (7.2–9.7) | -- | 109.8 (101.9–118.1) | 37.5 (30.6–44.1) | 72.4 (68.2–76.7) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.5 (0.4–0.6) | 75.0 (58.0–96.2) | -- | 144.8 (111.4–186.4) | 22.7 (19.5–27.2) | -- |
| Oslo | 512.6 (474.9–567.0) | 2.1 (1.7–2.5) | 83.4 (69.5–98.1) | 72.1 (63.7–82.3) | 52.9 (45.3–62.4) | 11.8 (10.0–13.7) | 7.4 (6.3–8.5) | -- | 103.0 (95.3–110.0) | 35.6 (28.6–41.8) | 67.5 (63.4–71.3) | -- | 15.8 (12.2–20.1) | 15.8 (12.2–20.1) | -- | -- | 0.4 (0.4–0.5) | 74.4 (57.2–95.6) | -- | 138.4 (105.5–176.8) | 23.0 (19.5–27.3) | -- |
| Rogaland | 537.9 (499.9–593.6) | 2.2 (1.7–2.6) | 94.7 (78.3–111.8) | 73.7 (65.3–84.0) | 54.2 (46.1–64.1) | 11.8 (10.0–13.8) | 7.7 (6.5–8.9) | -- | 109.9 (102.0–117.0) | 39.4 (32.9–45.9) | 70.5 (66.5–74.8) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.4 (0.4–0.5) | 75.0 (58.2–96.9) | -- | 142.4 (108.4–182.0) | 23.6 (20.0–28.2) | -- |
| Troms og Finnmark | 597.6 (551.4–659.1) | 2.3 (1.9–2.9) | 149.1 (125.6–179.2) | 84.0 (74.7–94.9) | 61.4 (52.2–72.1) | 13.8 (11.6–16.3) | 8.8 (7.6–10.1) | -- | 105.4 (97.7–112.8) | 39.2 (32.5–46.1) | 66.3 (62.9–70.3) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.5 (0.4–0.6) | 74.6 (57.2–95.9) | -- | 141.2 (107.9–183.0) | 24.4 (20.9–28.9) | -- |
| Trøndelag | 555.8 (517.6–612.9) | 2.0 (1.6–2.5) | 103.8 (87.3–126.0) | 80.7 (72.2–91.7) | 59.6 (50.8–70.0) | 13.2 (11.2–15.2) | 8.0 (6.8–9.2) | -- | 110.1 (102.3–118.3) | 38.9 (31.6–46.1) | 71.2 (67.1–75.5) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.4 (0.4–0.5) | 77.4 (59.7–99.8) | -- | 142.1 (107.5–180.7) | 23.2 (19.5–27.3) | -- |
| Vestfold og Telemark | 538.6 (498.2–592.5) | 2.0 (1.6–2.5) | 95.1 (78.4–112.4) | 77.4 (68.5–88.4) | 57.1 (48.6–67.5) | 12.5 (10.5–14.7) | 7.7 (6.7–9.0) | -- | 105.2 (98.2–112.8) | 35.4 (29.2–41.6) | 69.8 (65.9–74.2) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.5 (0.4–0.5) | 74.3 (57.1–95.6) | -- | 144.9 (111.0–183.1) | 23.3 (19.8–27.4) | -- |
| Vestland | 542.5 (505.3–597.4) | 2.1 (1.7–2.5) | 99.0 (82.8–116.3) | 71.7 (64.4–82.1) | 51.4 (44.1–60.6) | 12.4 (10.4–14.3) | 7.9 (6.8–9.1) | -- | 112.1 (104.3–120.0) | 38.6 (32.1–45.5) | 73.5 (69.3–77.7) | -- | 16.0 (12.4–20.3) | 16.0 (12.4–20.3) | -- | -- | 0.4 (0.4–0.5) | 75.3 (57.8–95.8) | -- | 142.0 (109.1–180.3) | 23.9 (20.3–28.7) | -- |
| Viken | 529.5 (491.5–584.9) | 2.1 (1.7–2.5) | 91.4 (77.7–107.9) | 76.9 (67.7–87.8) | 56.7 (48.7–67.2) | 12.3 (10.4–14.3) | 7.9 (6.8–9.1) | -- | 104.2 (97.4–112.0) | 34.6 (28.5–40.8) | 69.7 (65.6–73.8) | -- | 16.0 (12.4–20.4) | 16.0 (12.4–20.4) | -- | -- | 0.4 (0.4–0.5) | 74.6 (58.2–95.4) | -- | 141.6 (107.1–182.5) | 22.2 (18.6–26.7) | -- |
| Portugal | 437.7 (400.1–486.3) | 3.3 (2.9–3.7) | 76.1 (66.1–86.7) | 92.2 (84.4–99.8) | 69.2 (61.7–76.6) | 16.2 (14.9–17.7) | 6.7 (5.9–7.7) | -- | 23.5 (20.8–26.5) | 17.4 (14.9–20.1) | 6.2 (5.1–8.0) | -- | 14.6 (11.3–18.4) | 14.6 (11.3–18.4) | -- | -- | 0.3 (0.2–0.3) | 65.0 (54.1–76.9) | -- | 146.4 (112.8–185.1) | 16.3 (14.3–18.4) | -- |
| San Marino | 468.4 (430.5–517.5) | 2.9 (2.6–3.4) | 95.6 (81.7–109.9) | 87.6 (77.7–97.5) | 66.6 (57.5–75.5) | 14.7 (12.6–16.8) | 6.3 (5.3–7.4) | -- | 35.0 (30.8–39.9) | 23.4 (19.8–27.8) | 11.6 (9.6–14.3) | -- | 14.8 (11.4–18.6) | 14.8 (11.4–18.6) | -- | -- | 0.4 (0.3–0.5) | 70.0 (54.0–90.7) | -- | 140.1 (105.6–179.2) | 22.0 (19.2–25.0) | -- |
| Spain | 441.1 (402.2–490.0) | 3.7 (3.3–4.1) | 63.7 (55.5–71.0) | 72.6 (65.9–78.9) | 54.0 (47.6–59.4) | 12.1 (10.8–13.3) | 6.5 (5.7–7.3) | -- | 44.4 (39.9–49.1) | 33.2 (29.3–37.3) | 11.3 (9.3–15.0) | -- | 11.9 (9.1–15.6) | 11.9 (9.1–15.6) | -- | -- | 0.4 (0.3–0.5) | 69.9 (54.8–88.3) | -- | 159.3 (121.1–201.7) | 15.2 (13.5–17.2) | -- |
| Sweden | 605.5 (561.0–660.2) | 2.0 (1.8–2.4) | 128.3 (125.6–131.1) | 96.8 (88.4–103.7) | 75.8 (67.0–82.5) | 13.1 (12.1–14.0) | 7.9 (6.9–8.8) | -- | 64.3 (56.1–72.6) | 41.4 (33.4–49.5) | 22.9 (21.3–24.4) | -- | 16.8 (13.0–21.3) | 16.8 (13.0–21.3) | -- | -- | 0.8 (0.6–0.9) | 120.3 (94.6–144.3) | -- | 157.1 (119.2–202.6) | 19.1 (17.0–21.6) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Switzerland | 496.1 (455.5–550.7) | 2.8 (2.5–3.2) | 100.1 (88.0–114.9) | 58.6 (52.5–65.1) | 42.6 (36.4–48.7) | 9.9 (8.8–11.1) | 6.0 (5.1–6.9) | -- | 59.1 (52.1–67.2) | 37.4 (32.6–43.4) | 21.6 (17.4–26.9) | -- | 11.2 (8.5–14.8) | 11.2 (8.5–14.8) | -- | -- | 0.8 (0.6–0.9) | 60.7 (47.0–79.8) | -- | 160.4 (121.4–207.1) | 42.5 (38.9–46.4) | -- |
| United Kingdom | 526.8 (485.9–592.4) | 2.4 (2.0–2.8) | 124.1 (104.9–147.9) | 68.6 (61.7–77.1) | 48.4 (42.0–56.1) | 12.6 (10.8–14.3) | 7.6 (6.6–8.6) | -- | 55.0 (49.8–60.0) | 31.6 (26.7–36.4) | 23.4 (22.0–24.7) | -- | 13.1 (9.8–17.4) | 13.1 (9.8–17.4) | -- | -- | 0.3 (0.2–0.4) | 82.8 (64.0–108.2) | -- | 159.9 (122.7–204.1) | 20.7 (17.7–24.5) | -- |
| England | 535.3 (492.9–603.1) | 2.3 (1.9–2.7) | 125.6 (105.6–152.0) | 66.3 (59.4–75.1) | 46.7 (40.3–54.4) | 12.2 (10.3–13.9) | 7.4 (6.4–8.5) | -- | 56.9 (51.4–62.3) | 31.4 (26.1–36.5) | 25.5 (24.3–26.8) | -- | 12.8 (9.6–17.2) | 12.8 (9.6–17.2) | -- | -- | 0.2 (0.2–0.3) | 85.9 (66.4–112.3) | -- | 163.9 (125.8–209.3) | 21.3 (17.9–25.6) | -- |
| Midlands | 543.0 (497.4–607.1) | 2.6 (2.1–3.0) | 132.1 (110.7–159.3) | 67.3 (60.1–76.3) | 47.6 (40.8–55.7) | 12.2 (10.4–14.2) | 7.5 (6.5–8.6) | -- | 57.0 (51.5–62.6) | 31.7 (26.6–37.1) | 25.3 (24.0–26.6) | -- | 11.0 (7.4–16.0) | 11.0 (7.4–16.0) | -- | -- | 0.2 (0.2–0.3) | 87.2 (66.6–113.0) | -- | 162.5 (124.9–205.6) | 23.1 (19.5–27.8) | -- |
| England | 532.2 (488.3–598.4) | 2.2 (1.9–2.7) | 122.6 (103.4–145.6) | 64.5 (57.5–73.0) | 45.5 (38.9–53.6) | 11.8 (9.9–13.6) | 7.2 (6.2–8.3) | -- | 60.8 (55.5–66.3) | 30.8 (25.7–36.1) | 30.0 (28.5–31.5) | -- | 11.9 (8.8–15.9) | 11.9 (8.8–15.9) | -- | -- | 0.2 (0.2–0.3) | 86.5 (67.9–113.8) | -- | 163.1 (123.5–207.4) | 20.3 (17.1–24.6) | -- |
| North London | 518.0 (475.6–583.1) | 2.4 (2.0–2.9) | 114.9 (95.8–138.4) | 63.2 (55.9–72.1) | 44.5 (38.1–52.4) | 11.5 (9.7–13.6) | 7.1 (6.1–8.3) | -- | 53.3 (47.8–58.9) | 30.6 (25.1–36.0) | 22.7 (21.5–23.8) | -- | 11.2 (8.0–15.8) | 11.2 (8.0–15.8) | -- | -- | 0.2 (0.2–0.3) | 86.7 (66.3–111.6) | -- | 165.0 (127.0–209.2) | 21.0 (17.5–25.4) | -- |
| East England | 557.8 (512.6–623.8) | 2.2 (1.8–2.7) | 138.8 (116.6–165.9) | 70.5 (62.0–79.9) | 49.3 (41.8–58.4) | 13.2 (11.2–15.0) | 7.9 (6.9–9.1) | -- | 53.0 (47.5–58.5) | 30.8 (25.4–36.1) | 22.2 (21.1–23.4) | -- | 15.0 (11.7–19.3) | 15.0 (11.7–19.3) | -- | -- | 0.2 (0.2–0.3) | 87.8 (67.3–114.1) | -- | 169.0 (130.5–216.2) | 21.2 (17.9–25.4) | -- |
| West England | 563.2 (518.0–634.8) | 2.4 (2.0–2.9) | 140.3 (118.1–170.2) | 70.6 (63.1–79.8) | 49.5 (42.4–58.4) | 13.2 (11.0–15.1) | 7.9 (6.8–8.9) | -- | 58.0 (52.4–63.6) | 32.0 (26.5–37.5) | 26.0 (24.7–27.2) | -- | 12.6 (9.2–17.7) | 12.6 (9.2–17.7) | -- | -- | 0.2 (0.2–0.3) | 88.4 (69.1–114.9) | -- | 168.1 (127.4–214.8) | 22.7 (19.3–27.1) | -- |
| East England | 524.0 (481.2–589.9) | 2.2 (1.8–2.6) | 111.5 (93.6–133.4) | 63.4 (56.4–71.5) | 44.8 (38.5–52.7) | 11.6 (9.9–13.3) | 7.0 (6.0–8.0) | -- | 60.4 (54.8–66.1) | 32.8 (27.3–38.3) | 27.6 (26.3–28.9) | -- | 15.7 (12.3–20.4) | 15.7 (12.3–20.4) | -- | -- | 0.2 (0.2–0.3) | 86.9 (66.3–114.0) | -- | 162.9 (124.9–209.7) | 20.7 (17.3–25.1) | -- |
| West England | 530.2 (489.0–596.1) | 2.2 (1.9–2.7) | 119.8 (100.0–145.3) | 65.0 (58.0–73.9) | 45.9 (39.4–54.1) | 12.0 (10.1–13.7) | 7.2 (6.2–8.2) | -- | 62.5 (56.7–68.6) | 34.4 (28.9–40.2) | 28.1 (26.7–29.5) | -- | 13.0 (9.8–16.8) | 13.0 (9.8–16.8) | -- | -- | 0.2 (0.2–0.3) | 86.1 (65.4–111.9) | -- | 160.5 (123.1–206.2) | 20.8 (17.5–25.4) | -- |
| Midlands | 523.0 (477.9–585.7) | 2.6 (2.1–3.1) | 128.9 (108.5–154.4) | 66.5 (60.0–75.3) | 46.6 (40.4–54.9) | 12.3 (10.5–14.0) | 7.6 (6.6–8.7) | -- | 53.0 (48.1–57.7) | 27.6 (22.9–32.1) | 25.5 (24.2–26.7) | -- | 13.4 (10.1–17.7) | 13.4 (10.1–17.7) | -- | -- | 0.2 (0.2–0.3) | 76.4 (55.3–101.2) | -- | 162.0 (124.7–206.4) | 19.9 (16.7–23.8) | -- |
| Yorkshire and | 544.5 (500.1–615.1) | 2.1 (1.8–2.5) | 138.2 (115.6–166.4) | 69.5 (61.6–78.5) | 48.8 (41.4–57.5) | 12.8 (10.9–14.5) | 8.0 (6.8–9.1) | -- | 48.5 (43.3–54.0) | 29.9 (24.6–34.9) | 18.7 (17.6–19.7) | -- | 11.6 (8.4–16.0) | 11.6 (8.4–16.0) | -- | -- | 0.2 (0.2–0.3) | 87.1 (66.6–113.4) | -- | 164.3 (126.0–209.8) | 23.0 (19.7–27.6) | -- |
| Northern Ireland | 467.2 (426.6–518.4) | 2.7 (2.4–3.1) | 99.6 (87.6–113.0) | 70.9 (63.1–78.4) | 49.4 (42.6–56.3) | 13.1 (11.6–14.7) | 8.3 (7.2–9.6) | -- | 44.2 (38.8–49.8) | 31.7 (27.1–36.6) | 12.5 (10.2–15.1) | -- | 14.6 (11.4–18.4) | 14.6 (11.4–18.4) | -- | -- | 0.5 (0.4–0.6) | 67.1 (51.9–87.8) | -- | 151.4 (114.7–191.3) | 16.2 (14.3–18.3) | -- |
| Scotland | 480.0 (443.2–531.5) | 2.6 (2.3–3.0) | 119.2 (104.7–135.9) | 87.4 (78.9–95.6) | 64.1 (56.2–71.8) | 14.9 (13.1–16.9) | 8.4 (7.4–9.6) | -- | 44.9 (39.8–52.1) | 31.9 (27.8–38.4) | 12.9 (10.7–15.8) | -- | 14.6 (11.3–18.3) | 14.6 (11.3–18.3) | -- | -- | 0.7 (0.5–0.8) | 66.5 (51.7–86.2) | -- | 127.4 (97.0–162.7) | 16.8 (14.7–19.1) | -- |
| Wales | 500.9 (463.8–551.9) | 2.4 (2.1–2.7) | 120.7 (106.5–138.0) | 73.5 (66.4–80.8) | 50.1 (43.3–56.8) | 14.7 (13.2–16.3) | 8.7 (7.6–10.0) | -- | 47.9 (42.7–53.6) | 35.2 (30.8–40.3) | 12.7 (10.4–15.7) | -- | 14.6 (11.3–18.4) | 14.6 (11.3–18.4) | -- | -- | 0.5 (0.4–0.5) | 66.9 (52.2–86.9) | -- | 154.1 (119.0–196.5) | 20.4 (18.1–22.9) | -- |
| **Latin America and Caribbean** | **517.4 (481.8–567.9)** | **47.8 (37.6–57.8)** | **119.6 (104.0–136.8)** | **99.0 (90.8–109.6)** | **62.5 (54.8–71.5)** | **20.4 (18.0–22.7)** | **16.1 (14.2–18.2)** | **--** | **14.4 (12.4–16.5)** | **11.4 (9.4–13.5)** | **3.0 (2.7–3.3)** | **--** | **11.5 (9.1–14.7)** | **11.5 (9.1–14.7)** | **--** | **--** | **0.5 (0.4–0.6)** | **61.4 (47.5–78.1)** | **--** | **150.5 (115.2–191.8)** | **12.6 (10.9–14.7)** | **--** |
| Andean Latin America | 430.8 (398.5–471.5) | 50.5 (39.8–61.9) | 76.0 (67.9–84.6) | 91.1 (84.5–98.6) | 50.6 (44.4–57.2) | 19.6 (17.8–21.6) | 21.0 (18.7–23.3) | -- | 11.6 (10.1–13.2) | 9.5 (8.1–11.0) | 2.1 (1.8–2.6) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.7) | 56.5 (43.6–71.6) | -- | 124.5 (94.7–160.2) | 9.2 (7.9–10.8) | -- |
| (Plurinational State of) | 465.8 (434.5–510.2) | 55.8 (44.0–68.5) | 75.0 (65.2–84.9) | 114.3 (104.8–126.0) | 58.4 (50.8–66.8) | 30.3 (27.3–33.7) | 25.6 (22.5–28.7) | -- | 11.4 (9.7–13.5) | 9.0 (7.4–11.0) | 2.4 (1.9–2.9) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.6 (0.5–0.7) | 54.9 (42.2–70.3) | -- | 134.6 (102.5–172.8) | 8.4 (7.3–9.7) | -- |
| Ecuador | 473.9 (441.9–515.1) | 51.3 (40.2–62.8) | 103.9 (92.7–117.7) | 99.6 (92.0–107.1) | 56.9 (50.5–63.8) | 19.8 (17.9–21.6) | 22.9 (20.7–25.6) | -- | 14.2 (12.9–15.5) | 11.4 (10.1–12.6) | 2.8 (2.3–3.4) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 54.6 (41.3–69.7) | -- | 128.8 (97.4–165.6) | 10.2 (8.7–11.8) | -- |
| Peru | 401.5 (369.6–443.8) | 48.2 (38.2–59.5) | 63.7 (56.5–72.1) | 81.2 (74.8–89.2) | 45.7 (39.8–52.4) | 16.8 (14.7–18.7) | 18.8 (16.3–21.1) | -- | 10.5 (8.7–12.4) | 8.7 (7.0–10.5) | 1.8 (1.4–2.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.7) | 57.8 (44.5–73.4) | -- | 119.8 (91.1–154.0) | 9.0 (7.7–10.6) | -- |
| Caribbean | 542.9 (509.1–589.6) | 44.4 (34.7–53.6) | 126.9 (111.1–143.8) | 136.4 (126.5–146.8) | 84.2 (75.1–93.9) | 35.5 (32.5–38.4) | 16.7 (14.8–18.7) | -- | 13.6 (11.7–15.8) | 10.8 (9.1–13.0) | 2.8 (2.3–3.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 58.2 (44.8–74.1) | -- | 138.4 (106.1–178.2) | 13.7 (12.1–15.6) | -- |
| Antigua and Barbuda | 439.0 (407.1–488.7) | 1.8 (1.5–2.2) | 81.7 (71.4–92.4) | 115.6 (106.4–125.0) | 71.8 (63.3–81.4) | 27.5 (25.0–30.1) | 16.3 (14.3–18.7) | -- | 14.3 (12.4–16.4) | 10.5 (8.7–12.9) | 3.8 (3.2–4.5) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.5 (0.4–0.6) | 57.1 (43.6–73.1) | -- | 139.7 (106.0–177.9) | 17.6 (15.5–19.8) | -- |
| Barbados | 459.7 (425.8–507.6) | 1.8 (1.5–2.2) | 86.6 (76.4–98.4) | 123.9 (112.3–136.6) | 82.9 (73.3–94.8) | 24.2 (21.9–26.7) | 16.8 (14.9–19.1) | -- | 14.8 (12.7–17.4) | 12.5 (10.5–15.2) | 2.4 (1.9–2.9) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.4 (0.4–0.5) | 59.5 (45.5–75.8) | -- | 136.5 (104.1–174.8) | 25.3 (22.4–28.3) | -- |
| Belize | 514.7 (481.4–560.4) | 57.5 (44.8–71.1) | 109.8 (96.3–124.0) | 114.8 (105.9–125.8) | 69.1 (61.1–78.3) | 32.4 (29.9–35.0) | 13.3 (11.7–15.5) | -- | 12.2 (10.4–14.3) | 9.0 (7.2–10.9) | 3.2 (2.7–3.8) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.5 (0.4–0.6) | 59.2 (45.3–75.6) | -- | 138.3 (105.6–175.3) | 11.6 (9.9–13.4) | -- |
| Bermuda | 416.5 (385.2–459.1) | 1.8 (1.5–2.1) | 96.3 (83.8–110.0) | 74.8 (67.5–81.8) | 49.3 (42.9–55.4) | 12.0 (10.5–13.5) | 13.6 (11.3–15.8) | -- | 32.6 (27.6–37.5) | 29.4 (24.6–34.2) | 3.2 (2.6–3.9) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.4 (0.3–0.5) | 59.3 (45.0–75.7) | -- | 123.5 (93.6–157.2) | 17.0 (14.6–19.5) | -- |
| Cuba | 520.4 (484.1–569.3) | 1.9 (1.6–2.2) | 141.5 (121.2–162.0) | 135.1 (123.5–148.8) | 97.0 (85.4–110.3) | 22.9 (20.9–25.1) | 15.2 (13.3–17.5) | -- | 15.1 (12.8–17.8) | 12.4 (10.1–15.1) | 2.8 (2.3–3.2) | -- | 10.9 (8.6–14.1) | 10.9 (8.6–14.1) | -- | -- | 0.4 (0.4–0.5) | 57.6 (44.9–73.3) | -- | 143.8 (110.8–185.2) | 14.0 (12.1–15.8) | -- |
| Dominica | 548.1 (515.0–598.6) | 55.6 (44.0–68.3) | 113.5 (98.9–129.2) | 138.2 (125.5–151.5) | 87.6 (76.8–99.6) | 34.6 (30.9–38.1) | 16.0 (14.0–18.2) | -- | 15.7 (13.4–18.0) | 11.8 (9.5–14.1) | 3.9 (3.3–4.6) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.5 (0.4–0.6) | 58.8 (44.7–74.8) | -- | 139.1 (105.9–178.4) | 15.9 (13.9–17.9) | -- |
| Dominican Republic | 556.7 (522.7–606.5) | 54.7 (42.6–66.6) | 146.5 (127.9–168.4) | 135.0 (123.2–147.6) | 81.6 (71.2–92.5) | 36.2 (32.6–39.5) | 17.1 (15.3–19.2) | -- | 11.7 (9.9–13.4) | 8.9 (7.4–10.8) | 2.7 (2.2–3.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 57.9 (44.4–74.0) | -- | 128.7 (98.7–164.4) | 11.0 (9.5–12.7) | -- |
| Grenada | 583.0 (548.1–629.9) | 55.9 (44.3–68.1) | 118.9 (105.6–135.4) | 159.9 (144.9–173.9) | 108.3 (94.8–120.7) | 33.2 (30.7–36.5) | 18.5 (16.2–20.8) | -- | 17.4 (15.1–20.1) | 12.2 (9.9–14.8) | 5.3 (4.6–6.2) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.5 (0.4–0.6) | 58.1 (44.5–74.7) | -- | 139.2 (106.9–177.2) | 22.1 (19.7–24.5) | -- |
| Guyana | 517.5 (484.9–562.9) | 57.0 (45.0–69.9) | 86.4 (74.8–98.9) | 136.9 (125.8–149.2) | 89.0 (78.8–100.4) | 34.5 (31.9–37.9) | 13.4 (11.7–15.2) | -- | 15.4 (13.3–17.6) | 11.6 (9.4–13.7) | 3.8 (3.2–4.5) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 58.2 (44.9–74.1) | -- | 137.3 (102.9–177.3) | 15.0 (13.1–16.8) | -- |
| Haiti | 701.6 (658.4–760.3) | 67.4 (52.8–81.6) | 167.7 (146.1–190.9) | 240.0 (219.7–262.9) | 115.1 (101.3–133.2) | 101.8 (92.2–111.1) | 23.1 (19.7–26.2) | -- | 8.8 (7.6–10.0) | 5.9 (4.8–7.1) | 2.9 (2.4–3.4) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.6 (0.4–0.7) | 57.4 (43.7–73.3) | -- | 138.2 (107.0–180.2) | 10.9 (9.6–12.4) | -- |
| Jamaica | 510.6 (478.1–557.8) | 55.0 (43.8–65.5) | 79.6 (69.5–89.6) | 139.3 (127.4–151.8) | 87.2 (76.4–98.8) | 34.1 (30.8–38.4) | 18.0 (16.0–20.2) | -- | 9.9 (8.5–11.5) | 7.6 (6.1–9.1) | 2.3 (1.9–2.9) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.4 (0.3–0.5) | 58.4 (44.6–74.7) | -- | 134.2 (102.2–171.2) | 23.0 (20.3–25.7) | -- |
| Puerto Rico | 400.7 (367.5–450.1) | 1.8 (1.5–2.2) | 88.6 (77.1–102.3) | 61.0 (55.0–66.8) | 37.3 (32.1–42.6) | 11.4 (10.0–12.9) | 12.3 (10.5–14.3) | -- | 19.1 (16.1–22.8) | 16.5 (13.5–20.0) | 2.6 (2.1–3.2) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.4 (0.3–0.5) | 60.4 (46.9–77.0) | -- | 138.3 (105.2–176.9) | 20.3 (17.8–22.9) | -- |
| Saint Kitts and Nevis | 503.8 (469.7–550.7) | 1.9 (1.6–2.3) | 106.8 (93.9–122.7) | 163.8 (150.0–177.9) | 107.6 (94.1–121.1) | 40.4 (37.4–43.6) | 15.7 (13.8–17.8) | -- | 14.6 (12.7–16.5) | 10.8 (9.0–12.7) | 3.8 (3.2–4.5) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 57.5 (44.2–72.4) | -- | 136.2 (103.8–175.9) | 11.8 (10.2–13.6) | -- |
| Saint Lucia | 456.3 (421.6–503.8) | 2.0 (1.7–2.3) | 65.8 (58.2–74.1) | 141.2 (130.5–153.4) | 94.9 (84.6–105.4) | 30.6 (28.0–33.6) | 15.7 (13.9–18.1) | -- | 13.4 (11.6–15.9) | 10.9 (9.2–13.6) | 2.5 (2.0–3.1) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 58.6 (45.3–74.6) | -- | 140.7 (106.3–179.2) | 23.3 (20.7–25.9) | -- |
| Saint Vincent and the Grenadines | 539.2 (507.0–583.9) | 56.3 (44.2–69.2) | 114.0 (100.1–128.6) | 134.7 (124.4–146.8) | 88.7 (78.9–99.7) | 32.4 (29.6–35.3) | 13.6 (12.0–15.6) | -- | 14.4 (12.3–16.9) | 10.8 (8.7–13.0) | 3.6 (3.0–4.3) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.5 (0.4–0.6) | 58.2 (44.5–74.3) | -- | 138.9 (105.0–180.1) | 11.2 (9.6–13.0) | -- |
| Suriname | 588.2 (552.0–637.3) | 57.1 (44.9–70.4) | 132.6 (114.2–151.3) | 161.4 (148.6–177.0) | 95.3 (83.5–109.0) | 48.6 (44.3–53.3) | 17.5 (15.3–19.8) | -- | 12.6 (11.1–14.5) | 8.8 (7.2–10.7) | 3.8 (3.3–4.6) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.5 (0.4–0.6) | 57.0 (44.1–72.9) | -- | 145.9 (111.2–183.0) | 10.4 (8.8–12.1) | -- |
| Bahamas | 440.1 (405.6–489.2) | 1.8 (1.5–2.2) | 98.5 (86.2–113.0) | 101.2 (93.0–110.7) | 62.9 (55.4–71.0) | 25.4 (23.3–28.0) | 12.9 (11.3–14.6) | -- | 12.6 (10.8–14.6) | 9.9 (8.1–11.9) | 2.7 (2.2–3.3) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 58.2 (44.5–74.9) | -- | 136.0 (103.1–174.7) | 20.4 (18.2–22.8) | -- |
| Trinidad and Tobago | 519.3 (484.0–570.6) | 2.0 (1.8–2.4) | 136.9 (121.7–153.7) | 137.1 (126.3–149.0) | 94.4 (84.0–105.5) | 25.6 (23.3–28.1) | 17.2 (15.4–19.4) | -- | 12.1 (10.0–14.4) | 9.6 (7.5–11.7) | 2.5 (2.1–3.1) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 61.6 (47.0–78.9) | -- | 140.6 (105.7–181.1) | 17.6 (15.5–19.8) | -- |
| United States Virgin Islands | 449.0 (415.1–496.0) | 1.8 (1.6–2.2) | 110.8 (96.1–125.7) | 87.1 (77.7–96.1) | 55.3 (47.6–64.2) | 18.1 (16.0–20.0) | 13.7 (12.0–15.6) | -- | 21.8 (19.0–25.6) | 16.9 (14.0–20.6) | 5.0 (4.2–5.8) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 60.4 (46.5–76.9) | -- | 137.5 (104.2–177.0) | 18.3 (16.2–20.8) | -- |
| Central Latin America | 528.7 (489.0–579.6) | 54.3 (42.8–65.5) | 123.5 (106.9–141.9) | 86.5 (79.6–95.3) | 51.4 (45.2–58.7) | 18.9 (16.8–21.2) | 16.2 (14.3–18.1) | -- | 14.8 (12.9–17.0) | 12.0 (10.0–14.2) | 2.9 (2.6–3.2) | -- | 11.4 (9.0–14.6) | 11.4 (9.0–14.6) | -- | -- | 0.5 (0.4–0.6) | 60.9 (47.1–77.5) | -- | 166.0 (127.5–209.8) | 10.8 (9.3–12.5) | -- |
| Colombia | 502.5 (468.3–547.3) | 58.1 (46.0–71.6) | 115.6 (101.3–132.9) | 84.7 (77.7–92.4) | 49.8 (43.3–56.9) | 15.4 (14.0–17.2) | 19.5 (17.0–21.8) | -- | 19.2 (16.7–22.3) | 14.6 (12.2–18.0) | 4.6 (3.9–5.3) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.5 (0.4–0.6) | 56.6 (43.9–72.8) | -- | 141.7 (107.8–180.2) | 15.2 (13.2–17.2) | -- |
| Costa Rica | 461.7 (422.4–511.4) | 2.3 (2.0–2.8) | 99.7 (87.7–112.7) | 83.5 (76.3–90.8) | 52.6 (45.9–58.8) | 15.3 (13.5–17.3) | 15.6 (13.9–17.9) | -- | 19.6 (16.7–22.9) | 17.0 (14.2–20.3) | 2.6 (2.1–3.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.4 (0.4–0.5) | 61.3 (47.5–78.4) | -- | 164.0 (125.9–207.5) | 19.9 (17.8–22.3) | -- |
| El Salvador | 499.2 (462.7–547.6) | 62.0 (49.0–75.2) | 116.1 (101.8–132.7) | 81.9 (75.0–90.4) | 47.5 (41.5–53.8) | 19.8 (17.6–22.3) | 14.6 (12.8–16.8) | -- | 10.0 (8.4–11.9) | 8.0 (6.4–9.9) | 2.0 (1.6–2.5) | -- | 10.7 (8.5–13.8) | 10.7 (8.5–13.8) | -- | -- | 0.4 (0.4–0.5) | 57.0 (44.1–73.2) | -- | 152.8 (114.4–193.1) | 8.3 (6.8–10.0) | -- |
| Guatemala | 525.4 (488.1–577.2) | 64.5 (50.5–78.9) | 124.9 (110.3–141.3) | 87.1 (79.7–94.6) | 48.2 (41.9–53.9) | 27.3 (24.9–29.5) | 11.6 (10.1–13.2) | -- | 9.5 (8.0–11.0) | 7.3 (5.9–8.9) | 2.1 (1.7–2.7) | -- | 10.8 (8.5–13.9) | 10.8 (8.5–13.9) | -- | -- | 0.5 (0.4–0.6) | 55.9 (42.7–71.0) | -- | 164.3 (124.5–210.4) | 8.0 (6.7–9.5) | -- |
| Honduras | 639.7 (596.4–694.8) | 65.2 (50.5–79.2) | 185.6 (164.6–206.6) | 132.2 (119.7–146.7) | 74.1 (64.3–85.3) | 35.5 (31.6–39.7) | 22.6 (19.9–25.4) | -- | 10.4 (8.7–12.1) | 8.1 (6.5–9.7) | 2.3 (1.9–2.8) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 57.6 (44.5–73.6) | -- | 167.2 (128.1–214.1) | 10.2 (8.9–11.8) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mexico | 535.7 (492.5–594.2) | 49.9 (39.4–60.3) | 126.6 (107.7–148.8) | 81.2 (73.4–91.1) | 49.7 (42.8–58.0) | 16.8 (14.4–19.3) | 14.6 (12.7–16.6) | -- | 14.0 (11.4–16.6) | 11.7 (9.1–14.3) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.0 (49.5–81.1) | -- | 178.4 (137.1–227.1) | 9.1 (7.7–10.8) | -- |
| Aguascalientes | 504.0 (458.1–567.5) | 2.1 (1.8–2.5) | 132.8 (113.5–155.6) | 80.6 (72.5–91.2) | 48.5 (42.0–57.2) | 16.5 (14.1–18.9) | 15.6 (13.3–17.8) | -- | 13.7 (10.8–16.1) | 11.3 (8.5–13.8) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.4 (0.4–0.5) | 66.2 (50.8–84.8) | -- | 186.7 (143.6–236.5) | 9.5 (8.1–11.2) | -- |
| Baja California | 512.0 (464.9–573.7) | 1.5 (1.3–1.8) | 132.3 (112.1–155.8) | 91.1 (81.8–100.8) | 57.4 (49.2–67.0) | 18.9 (16.3–21.7) | 14.8 (12.8–17.0) | -- | 15.4 (12.5–18.5) | 13.1 (10.2–16.1) | 2.4 (2.2–2.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 65.6 (51.0–82.3) | -- | 183.4 (141.4–230.2) | 10.2 (8.6–11.9) | -- |
| California Sur | 538.8 (492.2–606.9) | 1.5 (1.2–1.8) | 170.0 (144.4–200.8) | 79.7 (72.1–88.5) | 48.9 (42.3–56.9) | 16.4 (14.1–18.8) | 14.4 (12.4–16.6) | -- | 17.7 (14.5–21.4) | 15.3 (12.1–18.9) | 2.4 (2.2–2.5) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 67.2 (52.6–84.9) | -- | 181.3 (137.7–230.2) | 8.9 (7.5–10.5) | -- |
| Campeche | 523.7 (480.8–580.3) | 62.0 (48.0–76.1) | 108.5 (92.3–127.9) | 79.9 (72.2–89.4) | 50.4 (43.0–58.9) | 15.4 (13.1–17.6) | 14.2 (12.2–16.2) | -- | 13.8 (11.3–16.6) | 11.5 (8.9–14.3) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.2 (50.9–82.1) | -- | 173.8 (131.1–220.9) | 8.0 (6.7–9.6) | -- |
| Chiapas | 526.3 (483.4–583.9) | 63.4 (49.0–78.0) | 118.5 (98.4–140.5) | 81.1 (73.1–90.7) | 49.7 (42.9–58.3) | 16.9 (14.5–19.3) | 14.5 (12.4–16.7) | -- | 11.4 (9.3–13.5) | 9.1 (7.0–11.1) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 61.3 (47.5–78.0) | -- | 169.9 (129.5–217.1) | 8.2 (6.9–9.7) | -- |
| Chihuahua | 617.1 (572.5–683.9) | 64.3 (50.5–78.6) | 184.2 (157.8–214.8) | 81.6 (73.2–92.5) | 51.0 (43.5–60.7) | 16.7 (14.2–19.1) | 13.9 (12.1–15.8) | -- | 13.8 (11.3–16.3) | 11.4 (8.9–13.9) | 2.4 (2.2–2.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.7) | 65.6 (50.0–83.7) | -- | 186.6 (141.3–233.5) | 8.5 (7.1–10.0) | -- |
| Coahuila | 545.7 (496.9–615.3) | 1.9 (1.6–2.3) | 177.6 (151.6–206.3) | 84.0 (76.0–94.5) | 50.5 (43.4–59.3) | 19.3 (16.6–21.8) | 14.3 (12.1–16.3) | -- | 13.9 (11.3–16.5) | 11.6 (9.0–14.2) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.3 (50.3–83.5) | -- | 181.8 (138.5–231.5) | 8.7 (7.2–10.4) | -- |
| Colima | 482.1 (437.6–545.1) | 1.5 (1.3–1.9) | 116.4 (99.0–136.5) | 78.1 (70.5–88.0) | 47.9 (40.8–56.2) | 15.5 (13.2–18.0) | 14.8 (12.7–16.9) | -- | 16.1 (13.2–19.1) | 13.7 (10.8–16.6) | 2.5 (2.3–2.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 66.0 (50.8–83.8) | -- | 182.5 (139.1–231.4) | 9.0 (7.5–10.6) | -- |
| Durango | 569.6 (521.7–630.7) | 62.0 (49.4–76.7) | 159.3 (135.4–189.6) | 71.1 (64.3–80.4) | 42.5 (36.3–50.3) | 15.9 (13.3–18.6) | 12.7 (10.8–14.7) | -- | 12.9 (10.8–15.5) | 10.7 (8.5–13.2) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.4 (50.1–82.9) | -- | 177.7 (137.1–225.1) | 8.7 (7.3–10.2) | -- |
| Guanajuato | 551.7 (507.9–610.1) | 62.5 (49.3–76.3) | 128.5 (109.1–149.4) | 77.9 (70.3–87.1) | 46.9 (40.2–54.6) | 16.5 (14.1–18.8) | 14.5 (12.5–16.6) | -- | 13.7 (11.0–16.1) | 11.4 (8.7–13.8) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.2 (49.4–81.7) | -- | 183.5 (140.5–234.2) | 8.9 (7.5–10.6) | -- |
| Guerrero | 505.1 (465.1–559.5) | 62.9 (49.8–76.6) | 91.3 (75.8–106.9) | 77.8 (69.7–87.6) | 47.8 (40.8–57.0) | 16.0 (13.6–18.6) | 13.9 (11.7–15.9) | -- | 12.6 (10.4–14.9) | 10.3 (8.1–12.6) | 2.4 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 61.8 (48.1–78.2) | -- | 178.0 (135.2–225.8) | 8.2 (6.9–9.7) | -- |
| Hidalgo | 520.3 (476.1–576.4) | 62.4 (49.3–75.6) | 103.6 (86.9–123.0) | 81.4 (73.3–91.3) | 49.3 (42.2–58.4) | 17.4 (14.8–20.1) | 14.7 (12.3–16.8) | -- | 13.0 (10.6–15.4) | 10.6 (8.3–13.0) | 2.3 (2.1–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 64.9 (49.2–82.6) | -- | 173.4 (133.6–217.6) | 9.2 (7.7–10.8) | -- |
| Jalisco | 553.2 (506.1–610.3) | 62.1 (48.7–75.1) | 126.1 (107.1–147.9) | 80.4 (72.4–90.2) | 49.3 (42.4–58.1) | 16.1 (13.7–18.4) | 15.0 (12.8–16.9) | -- | 14.2 (11.5–16.8) | 11.9 (9.1–14.4) | 2.4 (2.2–2.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.4 (0.4–0.5) | 64.1 (49.4–80.6) | -- | 183.3 (139.3–231.3) | 10.5 (9.0–12.4) | -- |
| México | 515.7 (471.4–570.5) | 62.6 (49.6–76.5) | 98.3 (82.0–116.1) | 78.3 (70.8–87.3) | 47.4 (40.5–55.9) | 16.6 (14.3–19.1) | 14.3 (12.3–16.4) | -- | 13.1 (10.8–15.6) | 10.8 (8.5–13.1) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.3) | 11.9 (9.4–15.3) | -- | -- | 0.6 (0.4–0.7) | 63.3 (48.5–80.5) | -- | 178.3 (136.1–225.5) | 9.2 (7.7–10.9) | -- |
| Mexico City | 523.2 (477.3–587.4) | 4.2 (3.6–5.0) | 155.7 (133.4–183.5) | 79.5 (72.1–88.9) | 47.4 (40.9–55.2) | 16.5 (14.3–18.9) | 15.5 (13.3–18.0) | -- | 18.4 (14.8–22.0) | 16.1 (12.5–19.7) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 63.7 (49.7–80.8) | -- | 179.6 (138.1–225.9) | 9.6 (8.1–11.5) | -- |
| Michoacán de Ocampo | 525.2 (484.4–581.5) | 62.8 (49.4–76.3) | 102.9 (87.8–121.0) | 80.1 (72.4–90.1) | 49.6 (42.5–57.8) | 16.2 (13.8–18.9) | 14.3 (12.3–16.5) | -- | 13.2 (10.6–15.5) | 10.9 (8.2–13.1) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.5 (50.2–83.0) | -- | 180.1 (136.1–231.1) | 9.1 (7.7–10.7) | -- |
| Morelos | 538.1 (494.9–595.9) | 63.0 (49.5–76.8) | 121.3 (103.1–143.7) | 77.4 (70.2–87.0) | 47.1 (40.6–56.0) | 15.7 (13.4–18.0) | 14.5 (12.5–16.8) | -- | 13.7 (11.2–16.5) | 11.3 (8.9–14.2) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 63.3 (49.0–80.6) | -- | 177.9 (135.1–225.7) | 9.0 (7.6–10.8) | -- |
| Nayarit | 520.1 (478.8–576.2) | 61.5 (48.3–75.7) | 105.9 (89.5–126.1) | 75.2 (67.7–84.7) | 46.3 (39.5–54.4) | 15.0 (12.8–17.4) | 13.9 (12.0–15.9) | -- | 13.5 (10.9–15.9) | 11.1 (8.6–13.6) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.4 (0.4–0.5) | 65.6 (50.7–84.6) | -- | 177.0 (135.1–226.4) | 8.9 (7.4–10.5) | -- |
| Nuevo León | 532.2 (486.2–601.0) | 2.3 (2.0–2.7) | 164.5 (141.0–195.7) | 85.0 (76.0–95.3) | 51.6 (44.0–60.3) | 18.3 (15.7–21.0) | 15.1 (12.8–17.2) | -- | 15.6 (12.6–18.4) | 13.2 (10.2–16.0) | 2.4 (2.2–2.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 64.4 (49.5–81.6) | -- | 178.1 (136.6–224.4) | 9.8 (8.3–11.6) | -- |
| Oaxaca | 504.9 (465.5–559.8) | 63.6 (50.6–77.1) | 89.8 (73.9–107.0) | 86.0 (77.5–96.4) | 54.4 (46.3–63.5) | 17.4 (15.0–19.9) | 14.2 (12.1–16.4) | -- | 12.5 (10.1–14.8) | 10.2 (7.8–12.4) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 61.8 (47.5–78.9) | -- | 170.2 (130.5–217.7) | 8.5 (7.1–10.0) | -- |
| Puebla | 542.3 (500.0–602.1) | 63.5 (50.2–77.5) | 121.0 (102.0–143.9) | 84.6 (76.8–95.1) | 51.5 (44.4–60.4) | 18.5 (15.9–21.2) | 14.5 (12.4–16.5) | -- | 12.5 (10.2–14.7) | 10.2 (7.9–12.4) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 63.4 (48.9–80.9) | -- | 176.4 (133.6–223.6) | 8.5 (7.2–10.1) | -- |
| Querétaro | 547.8 (504.5–605.5) | 61.9 (49.4–75.2) | 120.5 (102.2–140.6) | 84.7 (76.3–94.4) | 51.7 (43.9–60.5) | 18.1 (15.5–20.6) | 15.0 (12.8–17.0) | -- | 14.0 (11.3–16.7) | 11.7 (8.9–14.5) | 2.4 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.1 (50.5–83.4) | -- | 180.6 (137.3–229.5) | 8.6 (7.2–10.1) | -- |
| Quintana Roo | 554.7 (511.9–612.6) | 62.0 (49.4–75.3) | 125.9 (106.2–147.2) | 90.0 (80.6–100.8) | 57.2 (48.7–67.1) | 17.8 (15.4–20.4) | 15.0 (13.1–17.1) | -- | 15.0 (12.2–17.8) | 12.7 (9.8–15.4) | 2.4 (2.2–2.5) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 64.0 (49.1–81.5) | -- | 176.1 (134.6–224.5) | 9.2 (7.7–10.8) | -- |
| San Luis Potosí | 523.7 (485.4–577.6) | 62.1 (49.7–75.6) | 112.4 (95.5–133.8) | 77.0 (69.4–85.6) | 46.3 (39.6–53.8) | 15.9 (13.6–18.3) | 14.8 (12.9–17.0) | -- | 11.8 (9.4–14.2) | 9.5 (7.2–11.9) | 2.3 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.7) | 63.1 (48.5–79.4) | -- | 176.2 (133.2–226.7) | 8.5 (7.1–10.1) | -- |
| Sinaloa | 492.3 (446.1–561.3) | 1.6 (1.3–1.9) | 137.8 (118.3–164.3) | 76.2 (68.4–86.3) | 48.0 (41.0–57.0) | 14.7 (12.4–17.0) | 13.5 (11.5–15.5) | -- | 15.1 (12.2–18.0) | 12.8 (9.9–15.7) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.6 (50.4–81.6) | -- | 175.6 (135.1–226.3) | 9.0 (7.5–10.8) | -- |
| Sonora | 604.5 (556.2–668.5) | 62.6 (49.1–76.7) | 175.8 (151.4–206.8) | 83.0 (74.4–93.1) | 51.6 (44.3–60.1) | 17.1 (14.6–19.5) | 14.4 (12.5–16.4) | -- | 14.8 (11.9–17.6) | 12.4 (9.6–15.4) | 2.4 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.4 (0.4–0.5) | 66.7 (52.1–84.4) | -- | 179.6 (137.8–225.8) | 9.5 (8.0–11.1) | -- |
| Tabasco | 541.0 (496.9–597.0) | 63.0 (49.1–77.6) | 116.8 (98.2–138.3) | 86.6 (77.7–97.8) | 55.0 (47.1–64.8) | 16.6 (13.9–19.0) | 15.0 (12.9–17.2) | -- | 14.7 (12.0–17.2) | 12.3 (9.7–14.8) | 2.4 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.1 (50.4–81.2) | -- | 174.6 (132.7–223.2) | 8.8 (7.3–10.3) | -- |
| Tamaulipas | 556.9 (516.0–614.0) | 61.9 (49.5–76.2) | 138.0 (117.0–163.9) | 78.5 (70.7–88.7) | 47.9 (40.8–56.6) | 16.4 (14.0–18.9) | 14.3 (12.2–16.4) | -- | 14.2 (11.5–16.9) | 11.9 (9.2–14.5) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.6 (50.1–82.6) | -- | 178.1 (136.6–227.1) | 9.2 (7.7–10.8) | -- |
| Tlaxcala | 513.4 (471.5–566.0) | 62.6 (49.6–77.0) | 96.3 (79.2–115.1) | 80.7 (73.1–90.7) | 48.6 (42.0–56.5) | 17.8 (15.1–20.3) | 14.4 (12.3–16.4) | -- | 12.8 (10.4–15.3) | 10.4 (8.0–12.9) | 2.4 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 62.7 (48.7–80.0) | -- | 176.6 (134.4–225.6) | 9.2 (7.7–11.0) | -- |
| de Ignacio de la Llave | 540.9 (499.2–599.6) | 62.6 (49.5–76.0) | 119.5 (101.6–141.1) | 85.5 (77.5–95.4) | 53.7 (46.5–63.0) | 16.7 (14.3–19.2) | 15.1 (13.1–17.3) | -- | 12.8 (10.7–15.2) | 10.5 (8.4–12.9) | 2.3 (2.2–2.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.6 (0.4–0.7) | 63.2 (48.6–79.9) | -- | 176.0 (134.5–228.0) | 8.8 (7.4–10.4) | -- |
| Yucatán | 559.5 (515.8–618.0) | 61.4 (48.6–75.1) | 134.7 (114.7–156.6) | 87.2 (78.5–98.0) | 54.6 (46.5–64.6) | 17.5 (14.9–19.8) | 15.1 (13.1–17.3) | -- | 14.9 (12.1–17.6) | 12.6 (9.8–15.3) | 2.3 (2.1–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.9 (50.2–82.4) | -- | 174.9 (133.0–222.7) | 9.0 (7.5–10.5) | -- |
| Zacatecas | 540.9 (493.4–598.3) | 62.3 (49.1–76.5) | 120.2 (102.9–142.2) | 79.7 (71.8–89.3) | 48.1 (41.0–56.6) | 16.8 (14.3–19.2) | 14.8 (12.8–17.0) | -- | 13.3 (10.7–15.6) | 10.9 (8.4–13.2) | 2.4 (2.2–2.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.9 (49.3–82.6) | -- | 178.5 (135.1–228.0) | 9.5 (8.0–11.3) | -- |
| Nicaragua | 547.1 (507.0–600.4) | 60.8 (48.1–73.7) | 131.5 (116.2–148.6) | 92.5 (84.1–101.8) | 54.4 (47.1–61.2) | 22.7 (20.0–25.7) | 15.4 (13.3–17.5) | -- | 10.3 (8.7–12.1) | 8.2 (6.6–9.9) | 2.2 (1.7–2.7) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 57.0 (44.1–72.4) | -- | 172.0 (131.1–218.7) | 11.6 (10.1–13.4) | -- |
| Panama | 527.0 (488.8–576.4) | 55.0 (43.6–66.8) | 107.8 (94.8–123.1) | 108.9 (100.4–117.1) | 66.7 (58.9–74.8) | 23.7 (21.6–26.4) | 18.4 (16.3–20.8) | -- | 12.6 (10.4–14.5) | 10.0 (7.7–11.9) | 2.6 (2.1–3.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.4 (0.4–0.5) | 59.0 (45.9–75.2) | -- | 156.8 (119.0–197.4) | 15.7 (13.9–17.8) | -- |
| (Bolivarian Republic of) | 552.7 (514.4–600.2) | 63.2 (49.4–77.3) | 129.1 (113.0–147.1) | 105.3 (96.6–115.0) | 59.6 (52.3–68.5) | 27.8 (25.1–31.1) | 18.0 (15.9–20.3) | -- | 14.3 (12.3–16.3) | 11.6 (9.6–13.7) | 2.7 (2.2–3.2) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 59.6 (46.6–76.8) | -- | 160.8 (124.3–201.7) | 9.0 (7.5–10.7) | -- |
| Tropical Latin America | 519.5 (483.4–573.7) | 39.1 (30.8–47.4) | 125.1 (108.7–145.5) | 104.9 (93.9–118.7) | 71.5 (61.2–84.7) | 18.8 (16.1–21.4) | 14.6 (12.6–16.6) | -- | 14.8 (12.6–17.2) | 11.4 (9.1–13.8) | 3.4 (3.2–3.6) | -- | 11.9 (9.4–15.3) | 11.9 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 63.9 (49.7–80.6) | -- | 144.0 (110.5–184.4) | 15.2 (13.0–18.0) | -- |
| Brazil | 517.3 (481.0–571.8) | 38.3 (30.2–46.4) | 124.3 (107.9–144.7) | 104.3 (93.2–118.3) | 71.2 (60.9–84.5) | 18.7 (15.9–21.2) | 14.5 (12.5–16.6) | -- | 14.7 (12.5–17.2) | 11.4 (9.1–13.7) | 3.4 (3.2–3.6) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.0 (49.7–80.7) | -- | 144.0 (110.6–184.4) | 15.1 (12.9–17.9) | -- |
| Acre | 542.3 (502.2–591.6) | 65.3 (50.9–80.3) | 118.6 (107.1–134.6) | 109.3 (97.3–125.4) | 74.4 (63.3–88.7) | 19.7 (16.7–22.7) | 15.2 (13.0–17.5) | -- | 13.7 (11.4–15.9) | 10.4 (8.2–12.5) | 3.3 (3.1–3.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 63.2 (49.2–79.5) | -- | 143.6 (111.3–181.5) | 16.0 (13.9–18.8) | -- |
| Alagoas | 588.6 (547.1–646.2) | 65.6 (51.3–80.7) | 144.1 (125.3–169.1) | 126.3 (111.6–146.3) | 87.3 (74.0–105.4) | 22.9 (19.4–26.2) | 16.1 (13.8–18.3) | -- | 12.7 (10.7–14.5) | 9.3 (7.3–11.1) | 3.4 (3.1–3.6) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 64.0 (49.5–81.2) | -- | 149.2 (114.6–190.1) | 14.3 (12.3–16.8) | -- |
| Amapá | 543.4 (506.6–596.7) | 64.6 (50.4–78.4) | 118.9 (101.3–139.5) | 116.8 (103.1–133.4) | 80.4 (67.3–95.9) | 21.0 (17.9–23.9) | 15.3 (13.1–17.3) | -- | 14.3 (11.9–16.4) | 10.9 (8.6–13.1) | 3.4 (3.1–3.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 61.9 (48.3–78.2) | -- | 138.2 (106.3–177.0) | 16.2 (13.9–19.1) | -- |
| Amazonas | 521.4 (484.7–570.7) | 63.8 (50.0–78.5) | 108.3 (93.3–125.1) | 107.1 (95.3–122.7) | 73.2 (62.0–87.5) | 19.5 (16.3–22.5) | 14.4 (12.3–16.5) | -- | 13.9 (11.6–16.2) | 10.6 (8.2–12.8) | 3.3 (3.0–3.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 63.0 (48.7–80.5) | -- | 138.9 (107.3–174.1) | 13.8 (11.8–16.4) | -- |
| Bahia | 553.4 (516.6–604.6) | 64.1 (49.6–78.0) | 130.5 (117.4–147.7) | 111.5 (99.5–127.6) | 75.9 (63.8–90.0) | 20.0 (17.3–23.1) | 15.6 (13.3–17.8) | -- | 12.8 (10.9–14.9) | 9.5 (7.5–11.5) | 3.3 (3.1–3.6) | -- | 11.9 (9.4–15.3) | 11.9 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.3 (50.1–80.9) | -- | 143.0 (108.4–183.2) | 14.7 (12.6–17.4) | -- |
| Ceará | 535.1 (495.6–588.1) | 64.0 (49.8–79.0) | 121.8 (104.7–143.3) | 105.9 (94.3–120.6) | 72.0 (60.3–85.7) | 18.5 (15.7–21.4) | 15.4 (13.1–17.8) | -- | 13.0 (11.1–15.2) | 9.7 (7.7–11.8) | 3.3 (3.1–3.6) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 61.9 (48.1–78.3) | -- | 141.4 (108.3–184.3) | 14.6 (12.3–17.3) | -- |
| Distrito Federal | 468.5 (429.8–523.6) | 5.1 (4.4–6.0) | 106.6 (91.9–125.3) | 102.0 (90.5–115.0) | 71.5 (61.1–82.7) | 16.2 (13.9–18.3) | 14.3 (12.2–16.4) | -- | 18.2 (15.1–21.2) | 14.7 (11.6–17.7) | 3.5 (3.2–3.7) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 63.0 (49.3–79.6) | -- | 145.3 (112.0–185.2) | 16.0 (13.7–19.0) | -- |
| Espírito Santo | 537.7 (501.7–587.9) | 64.2 (50.6–79.8) | 118.7 (101.6–142.1) | 103.0 (90.7–117.2) | 72.9 (61.5–86.6) | 16.1 (13.7–18.5) | 14.0 (12.1–15.9) | -- | 15.4 (12.9–17.8) | 11.8 (9.4–14.4) | 3.5 (3.3–3.8) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.1 (50.3–81.8) | -- | 144.6 (110.5–186.5) | 15.3 (13.1–18.0) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Goiás | 536.4 (499.7–589.3) | 64.5 (50.4–79.0) | 126.3 (107.8–148.9) | 101.1 (90.1–114.2) | 68.3 (57.5–81.5) | 18.3 (15.5–20.9) | 14.5 (12.5–16.6) | -- | 14.3 (12.1–16.6) | 10.9 (8.7–13.2) | 3.4 (3.1–3.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 62.6 (48.6–78.3) | -- | 139.7 (106.9–182.0) | 15.4 (13.2–18.2) | -- |
| Maranhão | 594.5 (555.3–653.3) | 65.6 (51.3–80.1) | 149.0 (127.5–172.7) | 134.9 (119.9–153.2) | 91.5 (76.7–107.8) | 25.3 (21.6–29.1) | 18.1 (15.5–20.7) | -- | 12.0 (10.2–13.9) | 8.7 (6.9–10.6) | 3.2 (3.0–3.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 60.5 (46.5–76.0) | -- | 147.4 (112.5–190.8) | 12.6 (10.8–14.9) | -- |
| Mato Grosso | 527.0 (491.1–577.4) | 64.3 (50.7–79.2) | 116.7 (98.2–139.5) | 102.3 (90.2–116.7) | 71.2 (59.8–85.2) | 17.0 (14.4–19.6) | 14.1 (12.2–16.1) | -- | 14.5 (12.2–16.9) | 11.1 (8.9–13.4) | 3.4 (3.1–3.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.5) | 63.9 (50.1–81.4) | -- | 138.2 (104.8–175.9) | 14.6 (12.4–17.4) | -- |
| Grosso do Sul | 558.9 (521.6–610.2) | 64.4 (50.9–79.2) | 137.6 (117.8–160.1) | 104.1 (91.9–118.1) | 70.3 (59.0–83.5) | 18.5 (15.7–21.3) | 15.3 (13.1–17.4) | -- | 15.0 (12.6–17.5) | 11.6 (9.2–14.1) | 3.4 (3.2–3.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 63.8 (49.4–81.2) | -- | 145.5 (110.8–184.3) | 16.1 (13.9–19.0) | -- |
| Minas Gerais | 527.1 (489.7–578.1) | 63.9 (50.4–78.6) | 112.3 (98.0–131.6) | 101.7 (90.5–115.3) | 67.6 (56.8–80.9) | 18.9 (16.0–21.5) | 15.3 (13.1–17.5) | -- | 14.1 (11.9–16.6) | 10.8 (8.6–13.1) | 3.3 (3.1–3.6) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 63.5 (49.2–80.0) | -- | 142.6 (109.9–183.7) | 16.5 (14.1–19.7) | -- |
| Pará | 545.4 (507.8–595.2) | 64.4 (50.7–79.4) | 125.0 (108.2–147.9) | 115.4 (101.7–131.4) | 81.1 (68.0–97.8) | 19.9 (16.7–22.8) | 14.4 (12.4–16.3) | -- | 13.0 (11.0–15.1) | 9.7 (7.7–11.7) | 3.3 (3.1–3.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 62.5 (48.3–78.2) | -- | 138.8 (105.4–175.8) | 13.6 (11.6–16.2) | -- |
| Paraíba | 546.3 (505.0–599.1) | 64.2 (50.2–78.8) | 138.7 (119.8–163.7) | 95.9 (85.4–107.4) | 60.0 (50.6–70.5) | 20.5 (17.4–23.8) | 15.3 (13.0–17.5) | -- | 11.9 (10.1–13.8) | 8.8 (6.9–10.7) | 3.1 (2.9–3.4) | -- | 11.9 (9.4–15.3) | 11.9 (9.4–15.3) | -- | -- | 0.5 (0.4–0.5) | 62.8 (49.1–78.9) | -- | 146.4 (112.3–189.0) | 14.1 (12.1–16.7) | -- |
| Paraná | 483.8 (443.4–536.0) | 4.7 (4.1–5.6) | 116.2 (101.2–133.4) | 111.4 (98.6–127.7) | 79.1 (67.5–94.3) | 17.7 (15.0–20.1) | 14.7 (12.6–16.9) | -- | 16.1 (13.5–18.9) | 12.6 (10.0–15.4) | 3.5 (3.2–3.7) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.4 (0.3–0.5) | 64.7 (50.0–82.5) | -- | 143.8 (110.3–185.1) | 14.3 (12.2–16.9) | -- |
| Pernambuco | 544.8 (505.0–599.0) | 65.5 (51.5–79.5) | 126.7 (111.3–145.0) | 105.2 (93.0–119.9) | 69.7 (59.3–83.2) | 20.6 (17.5–23.3) | 14.9 (12.7–17.2) | -- | 13.7 (11.6–15.7) | 10.3 (8.1–12.4) | 3.5 (3.3–3.7) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.6 (0.5–0.7) | 62.2 (48.5–79.3) | -- | 145.7 (112.2–186.2) | 13.2 (11.2–15.7) | -- |
| Piaui | 554.7 (516.6–607.7) | 64.0 (50.2–79.0) | 131.2 (112.9–152.3) | 118.2 (104.5–134.9) | 80.8 (68.1–96.4) | 20.8 (17.8–23.8) | 16.5 (14.0–18.8) | -- | 11.6 (10.0–13.2) | 8.4 (6.7–10.0) | 3.2 (3.0–3.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 61.3 (47.7–77.8) | -- | 141.7 (106.3–181.0) | 14.2 (12.2–16.9) | -- |
| Rio de Janeiro | 490.2 (448.4–546.0) | 3.4 (2.9–4.0) | 130.6 (113.2–153.5) | 106.4 (95.1–120.5) | 68.6 (58.2–82.1) | 22.1 (18.8–25.3) | 15.8 (13.5–18.0) | -- | 14.4 (12.2–16.8) | 11.1 (8.8–13.4) | 3.3 (3.1–3.6) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 63.4 (49.5–80.7) | -- | 144.0 (110.9–183.9) | 15.5 (13.3–18.3) | -- |
| Rio Grande do Norte | 544.1 (505.2–597.6) | 63.3 (49.2–77.9) | 137.5 (117.9–164.5) | 94.7 (84.1–107.6) | 64.3 (54.2–77.5) | 16.8 (14.1–19.4) | 13.5 (11.6–15.6) | -- | 13.2 (11.1–15.5) | 10.0 (7.9–12.1) | 3.2 (3.0–3.5) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.4 (0.4–0.5) | 63.1 (49.3–79.8) | -- | 145.0 (108.6–184.8) | 14.8 (12.7–17.5) | -- |
| Rio Grande do Sul | 482.0 (442.2–538.4) | 3.2 (2.7–3.8) | 114.3 (97.1–133.5) | 109.2 (97.5–125.4) | 78.6 (67.2–94.7) | 17.0 (14.4–19.5) | 13.6 (11.6–15.6) | -- | 17.0 (14.4–19.9) | 13.5 (10.8–16.4) | 3.5 (3.2–3.8) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 64.8 (50.8–82.2) | -- | 145.2 (112.5–186.2) | 15.9 (13.6–18.7) | -- |
| Rondônia | 525.6 (491.1–575.2) | 65.4 (50.0–81.2) | 112.7 (96.1–135.1) | 101.7 (90.3–117.6) | 69.6 (59.0–83.9) | 18.0 (15.1–20.6) | 14.2 (12.1–16.2) | -- | 14.3 (12.0–16.6) | 11.0 (8.7–13.3) | 3.3 (3.1–3.6) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 63.7 (49.7–81.1) | -- | 140.2 (107.2–178.3) | 14.9 (12.6–17.9) | -- |
| Roraima | 550.0 (512.7–602.2) | 65.6 (51.2–79.6) | 119.6 (100.9–142.7) | 115.4 (103.0–131.4) | 81.5 (69.2–97.4) | 19.7 (16.9–22.5) | 14.1 (12.2–16.1) | -- | 14.4 (12.1–16.6) | 11.1 (8.9–13.4) | 3.3 (3.0–3.5) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 63.3 (48.7–80.1) | -- | 145.5 (110.0–189.4) | 13.8 (11.8–16.3) | -- |
| Santa Catarina | 462.5 (424.0–524.4) | 3.7 (3.2–4.4) | 116.9 (98.6–140.4) | 91.1 (80.3–104.3) | 65.6 (55.1–77.3) | 15.6 (13.1–18.0) | 10.0 (8.4–11.5) | -- | 17.2 (14.6–20.1) | 13.7 (11.1–16.6) | 3.5 (3.3–3.7) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.3 (50.8–81.8) | -- | 139.3 (107.1–179.5) | 16.5 (14.1–19.5) | -- |
| São Paulo | 484.1 (446.4–545.1) | 3.4 (2.9–4.0) | 128.3 (108.6–152.7) | 96.1 (85.9–109.7) | 65.7 (56.5–77.6) | 16.8 (14.3–19.1) | 13.5 (11.3–15.6) | -- | 16.0 (13.5–18.7) | 12.6 (10.0–15.2) | 3.5 (3.2–3.7) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 65.8 (50.6–83.7) | -- | 146.6 (112.4–186.7) | 15.5 (13.2–18.2) | -- |
| Sergipe | 546.4 (509.3–599.7) | 64.4 (50.7–79.2) | 119.4 (105.6–135.8) | 113.7 (101.6–129.2) | 77.8 (67.0–93.6) | 20.9 (17.6–23.9) | 15.1 (12.8–17.2) | -- | 12.3 (10.4–14.3) | 9.0 (7.1–11.0) | 3.3 (3.0–3.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 64.4 (50.2–81.6) | -- | 144.9 (110.4–181.4) | 14.8 (12.7–17.6) | -- |
| Tocantins | 544.4 (505.3–602.0) | 64.3 (50.4–78.8) | 122.1 (104.1–142.3) | 113.7 (100.9–129.2) | 78.8 (66.4–93.9) | 19.6 (16.8–22.3) | 15.4 (13.1–17.6) | -- | 14.5 (12.3–16.8) | 10.9 (8.7–13.1) | 3.6 (3.3–3.8) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 61.2 (47.3–77.2) | -- | 142.0 (107.5–185.0) | 14.1 (11.9–16.6) | -- |
| Paraguay | 608.8 (573.7–654.7) | 59.5 (47.1–73.8) | 166.7 (146.5–188.1) | 133.8 (121.2–147.0) | 87.7 (75.9–100.8) | 28.2 (25.6–30.6) | 18.0 (15.9–20.2) | -- | 16.8 (14.8–19.1) | 13.7 (11.5–16.0) | 3.2 (2.7–3.7) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.4 (0.3–0.5) | 60.6 (47.1–77.0) | -- | 143.4 (108.2–183.2) | 16.6 (14.6–18.7) | -- |
| **North Africa and Middle East** | **655.4 (611.6–715.6)** | **33.2 (26.6–40.3)** | **296.3 (258.4–335.1)** | **135.3 (123.7–148.1)** | **94.0 (84.1–104.8)** | **31.5 (27.8–35.0)** | **9.8 (8.6–11.3)** | **--** | **9.8 (8.7–10.8)** | **4.6 (3.9–5.4)** | **5.1 (4.4–5.9)** | **--** | **10.2 (8.1–13.1)** | **10.2 (8.1–13.1)** | **--** | **--** | **0.5 (0.4–0.6)** | **41.6 (31.8–53.8)** | **--** | **115.5 (88.2–148.0)** | **13.0 (11.4–14.8)** | **--** |
| North Africa and Middle East | 655.4 (611.6–715.6) | 33.2 (26.6–40.3) | 296.3 (258.4–335.1) | 135.3 (123.7–148.1) | 94.0 (84.1–104.8) | 31.5 (27.8–35.0) | 9.8 (8.6–11.3) | -- | 9.8 (8.7–10.8) | 4.6 (3.9–5.4) | 5.1 (4.4–5.9) | -- | 10.2 (8.1–13.1) | 10.2 (8.1–13.1) | -- | -- | 0.5 (0.4–0.6) | 41.6 (31.8–53.8) | -- | 115.5 (88.2–148.0) | 13.0 (11.4–14.8) | -- |
| Afghanistan | 794.1 (739.2–859.0) | 52.9 (41.4–66.1) | 317.9 (273.1–373.2) | 244.5 (223.8–267.6) | 150.0 (133.7–170.3) | 83.0 (74.3–90.7) | 11.6 (10.0–13.4) | -- | 7.0 (6.2–7.9) | 2.6 (2.1–3.0) | 4.4 (3.8–5.3) | -- | 10.0 (7.9–12.9) | 10.0 (7.9–12.9) | -- | -- | 0.6 (0.5–0.7) | 38.9 (29.6–50.4) | -- | 113.5 (86.6–147.5) | 8.7 (7.4–10.1) | -- |
| Algeria | 608.4 (566.6–668.0) | 38.5 (30.6–46.7) | 264.0 (230.9–302.6) | 117.2 (106.1–129.8) | 82.4 (73.0–94.2) | 25.8 (22.5–29.4) | 9.0 (7.7–10.5) | -- | 9.7 (8.5–11.0) | 4.6 (3.9–5.4) | 5.1 (4.2–6.1) | -- | 10.0 (7.8–12.8) | 10.0 (7.8–12.8) | -- | -- | 0.5 (0.4–0.6) | 40.9 (31.2–53.6) | -- | 115.7 (89.0–147.6) | 11.8 (9.9–13.7) | -- |
| Bahrain | 518.8 (479.4–568.3) | 2.8 (2.4–3.3) | 235.1 (203.8–267.6) | 96.4 (87.1–106.0) | 62.7 (55.2–70.8) | 24.6 (21.5–27.7) | 9.1 (7.7–10.6) | -- | 11.7 (10.3–13.4) | 7.0 (5.8–8.1) | 4.7 (3.9–5.9) | -- | 10.3 (8.1–13.4) | 10.3 (8.1–13.4) | -- | -- | 0.5 (0.4–0.5) | 41.7 (31.4–54.2) | -- | 106.0 (80.8–135.8) | 14.3 (12.5–16.3) | -- |
| Egypt | 823.6 (758.8–891.8) | 48.0 (38.1–58.6) | 404.3 (354.4–456.8) | 180.6 (165.1–197.9) | 132.3 (118.9–147.7) | 38.6 (33.8–43.1) | 9.7 (8.4–11.1) | -- | 10.5 (9.3–11.7) | 5.0 (4.2–5.9) | 5.5 (4.6–6.4) | -- | 10.0 (7.9–12.9) | 10.0 (7.9–12.9) | -- | -- | 0.5 (0.4–0.7) | 41.7 (32.2–54.2) | -- | 116.2 (89.1–148.5) | 11.7 (9.9–13.3) | -- |
| Iran (Islamic Republic of) | 650.5 (591.5–720.5) | 24.6 (19.9–29.4) | 318.9 (269.4–376.5) | 108.5 (97.0–122.8) | 85.2 (74.3–98.9) | 15.3 (13.1–17.6) | 8.0 (6.8–9.4) | -- | 9.0 (8.1–9.9) | 4.3 (3.4–5.1) | 4.6 (4.4–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.5) | 44.7 (34.2–57.3) | -- | 117.9 (90.4–151.7) | 14.4 (12.3–16.9) | -- |
| Alborz | 674.3 (611.7–756.3) | 3.7 (3.2–4.3) | 360.4 (299.2–428.3) | 110.2 (98.5–124.8) | 88.2 (77.0–102.0) | 14.2 (12.0–16.4) | 7.9 (6.7–9.3) | -- | 8.5 (7.7–9.3) | 4.0 (3.1–4.7) | 4.5 (4.2–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.4–0.5) | 45.4 (34.3–59.8) | -- | 119.5 (92.1–153.1) | 14.1 (11.7–16.6) | -- |
| Ardebil | 707.2 (647.5–788.9) | 38.8 (30.7–47.7) | 350.1 (296.6–415.2) | 119.7 (106.1–135.9) | 95.5 (83.0–110.3) | 16.3 (13.8–18.8) | 7.9 (6.7–9.3) | -- | 9.2 (8.3–10.1) | 4.5 (3.6–5.3) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 45.4 (34.9–58.0) | -- | 118.9 (89.8–151.1) | 12.6 (10.3–15.1) | -- |
| Bushehr | 662.4 (601.4–739.0) | 3.4 (2.9–4.0) | 334.0 (281.2–400.5) | 129.0 (115.2–147.2) | 108.0 (94.6–125.3) | 13.4 (11.4–15.4) | 7.5 (6.3–8.9) | -- | 8.6 (7.8–9.6) | 4.1 (3.3–4.9) | 4.5 (4.2–4.8) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.6 (33.4–55.5) | -- | 117.7 (90.1–150.9) | 13.4 (11.1–15.9) | -- |
| Mahaal and Bakhtiari | 643.3 (582.7–721.6) | 5.3 (4.5–6.2) | 337.3 (283.3–395.1) | 103.0 (90.5–117.4) | 82.8 (71.2–97.3) | 12.3 (10.4–14.2) | 7.9 (6.7–9.3) | -- | 9.0 (8.2–9.9) | 4.3 (3.5–5.1) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.4–0.5) | 43.6 (33.2–56.2) | -- | 115.1 (86.9–148.6) | 17.5 (15.0–20.3) | -- |
| Azarbayejan | 661.4 (604.8–730.9) | 39.2 (31.4–47.8) | 308.0 (260.7–366.4) | 113.2 (100.3–128.2) | 87.8 (75.9–102.0) | 16.9 (14.5–19.4) | 8.5 (7.3–9.9) | -- | 9.8 (8.7–10.6) | 4.9 (3.9–5.7) | 4.9 (4.5–5.2) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.8 (34.2–57.1) | -- | 119.7 (92.0–154.4) | 14.1 (11.8–16.5) | -- |
| Fars | 682.7 (623.8–761.6) | 39.1 (30.7–48.0) | 324.0 (270.7–383.2) | 121.9 (107.8–138.6) | 98.3 (85.2–115.0) | 16.2 (13.7–18.4) | 7.4 (6.2–8.7) | -- | 9.1 (8.3–10.1) | 4.5 (3.6–5.3) | 4.7 (4.3–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 52.0 (39.4–68.0) | -- | 110.3 (84.8–142.0) | 13.7 (11.4–15.9) | -- |
| Gilan | 663.6 (599.6–738.1) | 3.7 (3.2–4.3) | 341.3 (285.1–407.1) | 121.9 (107.8–138.4) | 95.4 (82.2–110.7) | 18.1 (15.5–21.0) | 8.3 (7.1–9.8) | -- | 8.4 (7.5–9.2) | 3.9 (3.1–4.6) | 4.5 (4.2–4.8) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.4 (0.4–0.5) | 44.7 (34.6–57.5) | -- | 117.9 (90.3–153.5) | 13.3 (11.0–15.7) | -- |
| Golestan | 766.4 (694.8–850.8) | 40.9 (32.4–50.3) | 387.9 (324.2–461.6) | 137.1 (122.6–155.1) | 112.8 (98.9–130.9) | 16.5 (13.9–19.0) | 7.9 (6.7–9.1) | -- | 8.6 (7.9–9.5) | 4.0 (3.2–4.7) | 4.6 (4.3–5.0) | -- | 12.0 (9.5–15.1) | 12.0 (9.5–15.1) | -- | -- | 0.5 (0.4–0.6) | 44.8 (34.0–58.5) | -- | 121.5 (91.8–154.9) | 13.0 (10.9–15.3) | -- |
| Hamadan | 653.3 (599.6–723.8) | 39.5 (31.4–47.6) | 315.1 (268.3–370.7) | 106.1 (94.2–119.9) | 84.4 (73.7–98.0) | 13.7 (11.7–15.8) | 8.0 (6.7–9.3) | -- | 8.8 (8.0–9.7) | 4.2 (3.4–4.9) | 4.6 (4.3–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 43.7 (33.2–55.5) | -- | 113.4 (87.1–145.2) | 13.9 (11.7–16.2) | -- |
| Hormozgan | 681.5 (623.0–753.3) | 39.9 (31.5–49.5) | 330.5 (278.6–392.3) | 114.0 (102.3–129.0) | 91.4 (80.0–105.9) | 15.0 (12.9–17.2) | 7.7 (6.5–8.9) | -- | 9.0 (8.2–9.9) | 4.3 (3.4–5.0) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.4 (34.2–56.7) | -- | 116.9 (88.8–150.9) | 14.2 (12.0–16.5) | -- |
| Ilam | 653.1 (589.1–726.4) | 3.8 (3.3–4.5) | 348.5 (291.7–411.4) | 103.9 (93.2–116.7) | 78.9 (68.4–91.5) | 17.2 (14.8–19.7) | 7.8 (6.6–9.1) | -- | 10.2 (9.2–11.3) | 5.2 (4.2–6.2) | 5.0 (4.6–5.3) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.9 (33.3–56.2) | -- | 116.3 (87.4–148.5) | 14.0 (11.7–16.5) | -- |
| Isfahan | 687.4 (622.6–770.3) | 3.7 (3.2–4.3) | 390.4 (330.8–456.5) | 91.7 (81.5–103.8) | 70.8 (61.2–82.3) | 13.1 (11.0–15.2) | 7.8 (6.7–9.1) | -- | 9.9 (8.8–10.9) | 5.1 (4.1–6.0) | 4.8 (4.5–5.1) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.6 (33.2–57.1) | -- | 118.2 (89.9–154.2) | 17.5 (14.9–20.4) | -- |
| Kerman | 688.1 (626.2–765.6) | 40.1 (31.9–49.5) | 343.2 (289.4–404.0) | 106.8 (94.7–122.4) | 82.2 (69.9–96.7) | 16.7 (14.4–18.9) | 7.9 (6.6–9.3) | -- | 8.9 (8.1–9.7) | 4.2 (3.4–4.9) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.9 (34.4–58.1) | -- | 118.0 (91.0–149.9) | 13.7 (11.5–16.0) | -- |
| Kermansha h | 694.4 (633.8–767.2) | 40.1 (32.2–49.3) | 337.4 (285.1–397.0) | 119.6 (106.6–135.2) | 93.9 (81.3–108.1) | 18.1 (15.4–20.5) | 7.6 (6.4–9.0) | -- | 8.9 (8.0–9.8) | 4.2 (3.4–5.0) | 4.7 (4.4–5.0) | -- | 12.0 (9.5–15.1) | 12.0 (9.5–15.1) | -- | -- | 0.5 (0.4–0.6) | 44.5 (33.9–56.6) | -- | 117.0 (88.9–149.1) | 14.4 (12.3–16.9) | -- |
| Khorasan-e-Razavi | 660.6 (603.4–727.4) | 39.4 (31.3–47.4) | 308.8 (257.1–361.6) | 110.6 (98.5–124.3) | 84.1 (72.6–98.3) | 16.6 (14.2–18.9) | 9.9 (8.5–11.3) | -- | 9.0 (8.2–9.9) | 4.3 (3.4–5.0) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.6 (33.7–57.4) | -- | 121.8 (94.7–156.0) | 13.9 (11.6–16.2) | -- |
| Khuzestan | 752.9 (679.1–838.6) | 39.4 (31.3–48.5) | 382.0 (319.1–452.7) | 127.6 (112.3–145.1) | 105.6 (91.7–122.8) | 14.2 (11.9–16.4) | 7.8 (6.6–9.3) | -- | 9.1 (8.2–10.0) | 4.4 (3.5–5.2) | 4.7 (4.4–5.1) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 45.1 (34.8–58.0) | -- | 122.2 (94.9–158.0) | 14.9 (12.8–17.4) | -- |
| and Boyer-Ahmad | 679.4 (617.3–753.6) | 39.7 (31.5–48.7) | 339.0 (284.6–400.7) | 107.9 (95.8–121.4) | 84.7 (73.6–97.9) | 15.4 (13.2–17.4) | 7.8 (6.6–9.0) | -- | 8.5 (7.7–9.4) | 4.0 (3.1–4.6) | 4.6 (4.3–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.4–0.5) | 44.6 (34.3–57.8) | -- | 111.2 (83.8–143.7) | 15.9 (13.7–18.5) | -- |
| Kurdistan | 642.8 (586.5–711.8) | 39.6 (31.7–48.9) | 302.3 (251.8–361.3) | 105.6 (94.0–118.3) | 79.7 (69.1–92.2) | 17.5 (14.9–20.1) | 8.3 (7.1–9.8) | -- | 8.6 (7.8–9.5) | 4.0 (3.2–4.7) | 4.6 (4.3–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.4 (33.9–56.6) | -- | 116.4 (88.9–149.4) | 13.4 (11.2–15.9) | -- |
| Lorestan | 642.8 (579.1–713.7) | 3.4 (2.9–3.9) | 332.0 (278.1–386.2) | 112.1 (98.8–126.0) | 86.9 (74.6–100.1) | 16.7 (14.3–19.0) | 8.5 (7.3–9.8) | -- | 8.8 (8.0–9.7) | 4.3 (3.4–5.1) | 4.6 (4.2–4.9) | -- | 12.0 (9.5–15.1) | 12.0 (9.5–15.1) | -- | -- | 0.4 (0.4–0.5) | 43.5 (33.3–55.8) | -- | 116.1 (87.3–150.1) | 14.4 (12.2–16.9) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Markazi | 623.0 (568.8–691.9) | 39.0 (31.0–47.7) | 283.6 (238.4–342.1) | 102.4 (91.4–116.4) | 80.9 (70.6–95.4) | 13.6 (11.6–15.7) | 8.0 (6.8–9.4) | -- | 10.1 (9.2–11.1) | 5.2 (4.2–6.1) | 4.9 (4.5–5.3) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.4 (0.4–0.5) | 44.0 (33.5–56.7) | -- | 117.3 (88.8–151.4) | 14.0 (11.6–16.4) | -- |
| Mazandaran | 635.4 (578.0–713.6) | 3.6 (3.1–4.2) | 319.9 (267.4–375.9) | 111.2 (98.6–125.0) | 87.3 (75.5–101.4) | 15.7 (13.5–18.2) | 8.2 (7.0–9.7) | -- | 8.4 (7.6–9.3) | 4.0 (3.1–4.7) | 4.5 (4.2–4.8) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.4 (0.3–0.5) | 45.5 (34.7–58.5) | -- | 120.0 (90.9–153.4) | 14.2 (11.9–16.7) | -- |
| North Khorasan | 681.0 (619.6–758.5) | 40.4 (31.6–50.3) | 316.4 (265.1–377.8) | 115.0 (102.4–130.4) | 91.5 (79.2–107.9) | 15.3 (13.1–17.6) | 8.1 (6.9–9.4) | -- | 9.0 (8.2–9.9) | 4.3 (3.5–5.1) | 4.7 (4.4–5.0) | -- | 12.1 (9.5–15.2) | 12.1 (9.5–15.2) | -- | -- | 0.5 (0.4–0.6) | 45.2 (35.1–57.6) | -- | 122.1 (94.8–156.7) | 20.2 (17.6–23.5) | -- |
| Qazvin | 599.3 (542.2–672.1) | 3.5 (3.0–4.0) | 298.6 (251.2–360.3) | 103.9 (92.9–117.9) | 75.5 (65.9–89.2) | 19.9 (17.0–22.9) | 8.6 (7.3–10.1) | -- | 8.9 (8.1–9.8) | 4.3 (3.5–5.1) | 4.6 (4.3–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.4 (33.5–55.4) | -- | 114.8 (88.4–146.6) | 13.7 (11.5–16.1) | -- |
| Qom | 625.2 (563.3–696.8) | 3.7 (3.2–4.3) | 322.2 (270.1–381.1) | 101.8 (90.4–115.9) | 74.8 (64.1–87.4) | 21.1 (18.1–24.5) | 5.9 (4.9–7.0) | -- | 9.4 (8.4–10.3) | 4.6 (3.7–5.5) | 4.7 (4.4–5.1) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.5 (33.4–56.0) | -- | 117.0 (89.0–149.9) | 15.1 (12.7–17.5) | -- |
| Semnan | 619.7 (565.2–700.8) | 3.3 (2.8–3.9) | 306.0 (256.1–366.3) | 110.6 (97.7–125.1) | 90.6 (78.1–104.8) | 12.1 (10.3–14.1) | 7.9 (6.7–9.4) | -- | 9.1 (8.2–10.1) | 4.5 (3.6–5.3) | 4.6 (4.3–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 44.4 (33.6–58.3) | -- | 120.0 (93.1–155.0) | 13.8 (11.5–16.1) | -- |
| Sistan and Baluchistan | 652.3 (600.2–715.1) | 41.5 (32.8–50.6) | 308.1 (265.4–357.8) | 110.6 (99.6–124.7) | 82.0 (71.9–94.5) | 20.5 (17.5–23.2) | 8.1 (7.0–9.6) | -- | 8.5 (7.8–9.3) | 3.8 (3.1–4.5) | 4.7 (4.4–5.0) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 43.2 (33.0–55.2) | -- | 112.8 (86.5–144.6) | 15.0 (12.8–17.6) | -- |
| South Khorasan | 622.3 (572.2–693.8) | 39.0 (30.9–47.3) | 282.6 (238.2–337.2) | 101.8 (90.2–114.8) | 78.1 (67.7–90.5) | 15.6 (13.2–18.2) | 8.2 (7.0–9.7) | -- | 8.4 (7.6–9.2) | 3.8 (3.0–4.5) | 4.6 (4.3–4.9) | -- | 12.0 (9.5–15.1) | 12.0 (9.5–15.1) | -- | -- | 0.5 (0.4–0.6) | 42.9 (33.0–54.4) | -- | 121.5 (93.8–155.5) | 13.5 (11.4–15.9) | -- |
| Tehran | 561.1 (507.8–623.8) | 4.3 (3.7–5.0) | 264.5 (225.0–312.6) | 94.9 (84.4–108.4) | 74.5 (64.5–87.7) | 12.6 (10.6–14.6) | 7.8 (6.4–9.3) | -- | 8.7 (7.8–9.7) | 4.2 (3.4–5.0) | 4.5 (4.2–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 43.5 (33.2–55.6) | -- | 118.2 (90.1–153.4) | 14.6 (12.4–17.2) | -- |
| Azarbayejan | 658.3 (598.6–732.6) | 39.3 (31.4–48.0) | 310.8 (261.1–369.8) | 110.9 (98.6–125.3) | 87.0 (75.6–100.7) | 15.9 (13.5–18.3) | 8.0 (6.8–9.3) | -- | 8.8 (7.9–9.6) | 4.1 (3.3–4.8) | 4.7 (4.4–5.1) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.5 (0.4–0.6) | 43.0 (32.7–55.4) | -- | 117.8 (88.7–151.7) | 15.1 (12.8–17.6) | -- |
| Yazd | 602.7 (545.7–671.5) | 3.6 (3.1–4.2) | 289.3 (242.7–340.0) | 108.3 (94.5–123.1) | 83.2 (71.2–97.1) | 16.8 (14.4–19.5) | 8.2 (6.9–9.7) | -- | 9.9 (8.9–10.8) | 5.1 (4.1–6.0) | 4.8 (4.5–5.2) | -- | 12.2 (9.6–15.3) | 12.2 (9.6–15.3) | -- | -- | 0.4 (0.3–0.5) | 44.1 (33.5–57.0) | -- | 121.0 (92.7–153.5) | 14.0 (11.9–16.5) | -- |
| Zanjan | 654.2 (595.0–727.5) | 38.9 (30.8–47.7) | 313.0 (263.0–368.4) | 110.3 (98.4–124.6) | 85.9 (74.9–100.1) | 16.4 (14.0–18.8) | 8.1 (6.9–9.5) | -- | 8.7 (7.8–9.6) | 4.2 (3.3–4.9) | 4.5 (4.2–4.9) | -- | 12.1 (9.6–15.2) | 12.1 (9.6–15.2) | -- | -- | 0.4 (0.3–0.5) | 45.2 (34.6–57.8) | -- | 111.8 (84.4–143.7) | 13.8 (11.6–16.3) | -- |
| Iraq | 808.6 (748.1–874.4) | 43.8 (34.8–54.2) | 369.1 (321.3–420.0) | 191.0 (174.1–209.9) | 134.0 (119.3–150.9) | 46.8 (41.5–52.4) | 10.2 (8.8–11.6) | -- | 7.0 (5.9–8.1) | 3.2 (2.6–3.8) | 3.7 (3.1–4.6) | -- | 10.2 (8.0–13.1) | 10.2 (8.0–13.1) | -- | -- | 0.6 (0.5–0.7) | 42.9 (32.5–55.9) | -- | 132.4 (101.4–167.8) | 11.7 (9.9–13.6) | -- |
| Jordan | 536.2 (500.1–592.1) | 2.6 (2.3–3.1) | 206.4 (178.1–235.8) | 122.8 (111.1–133.1) | 90.6 (81.3–100.6) | 23.8 (21.1–26.8) | 8.3 (6.8–10.0) | -- | 8.0 (6.9–9.2) | 4.5 (3.6–5.3) | 3.5 (2.9–4.3) | -- | 10.1 (7.9–13.0) | 10.1 (7.9–13.0) | -- | -- | 0.5 (0.4–0.6) | 42.4 (31.7–56.3) | -- | 125.4 (96.4–160.9) | 17.9 (15.9–20.3) | -- |
| Kuwait | 623.5 (570.4–681.0) | 2.7 (2.4–3.1) | 336.4 (292.5–381.6) | 91.6 (82.6–100.7) | 66.1 (58.1–73.9) | 17.3 (15.2–19.1) | 8.3 (6.8–9.9) | -- | 11.6 (9.9–13.2) | 7.4 (6.0–8.7) | 4.1 (3.4–5.0) | -- | 10.3 (8.1–13.4) | 10.3 (8.1–13.4) | -- | -- | 0.4 (0.3–0.5) | 42.2 (31.9–55.3) | -- | 107.8 (82.2–137.6) | 20.3 (18.1–22.6) | -- |
| Lebanon | 485.2 (449.3–537.5) | 3.3 (2.9–3.7) | 194.7 (169.2–222.6) | 82.9 (75.0–91.2) | 50.9 (44.8–57.1) | 22.2 (19.6–24.8) | 9.8 (8.4–11.3) | -- | 9.7 (8.4–11.0) | 5.2 (4.3–6.1) | 4.6 (3.7–5.5) | -- | 9.9 (7.7–12.7) | 9.9 (7.7–12.7) | -- | -- | 0.5 (0.4–0.6) | 41.6 (31.7–54.1) | -- | 127.5 (95.7–165.2) | 15.1 (13.1–17.0) | -- |
| Libya | 663.6 (613.9–725.5) | 41.8 (32.7–50.9) | 294.4 (254.8–337.2) | 136.6 (123.9–151.2) | 98.8 (87.2–113.7) | 29.3 (25.8–33.1) | 8.4 (7.2–9.7) | -- | 8.6 (7.5–9.8) | 4.2 (3.5–5.1) | 4.4 (3.7–5.4) | -- | 10.0 (7.9–12.9) | 10.0 (7.9–12.9) | -- | -- | 0.5 (0.4–0.6) | 43.1 (33.1–56.4) | -- | 116.6 (87.6–149.3) | 12.0 (10.3–13.8) | -- |
| Morocco | 604.8 (560.4–658.9) | 42.9 (33.8–52.6) | 231.6 (202.9–269.8) | 141.4 (127.6–156.7) | 95.9 (83.3–110.2) | 35.9 (31.7–40.2) | 9.5 (8.2–10.9) | -- | 9.1 (8.0–10.3) | 4.2 (3.5–4.8) | 4.9 (4.1–5.9) | -- | 10.0 (7.9–12.9) | 10.0 (7.9–12.9) | -- | -- | 0.5 (0.4–0.6) | 42.1 (31.9–54.7) | -- | 116.4 (88.1–151.2) | 10.9 (9.2–12.4) | -- |
| Oman | 556.0 (515.1–608.0) | 3.0 (2.6–3.4) | 251.4 (223.1–288.0) | 124.3 (112.7–136.3) | 82.9 (72.6–93.4) | 25.7 (22.8–28.9) | 15.7 (13.9–17.7) | -- | 9.3 (8.0–10.5) | 4.9 (4.0–5.8) | 4.4 (3.6–5.4) | -- | 10.3 (8.1–13.3) | 10.3 (8.1–13.3) | -- | -- | 0.5 (0.4–0.7) | 40.1 (30.3–51.9) | -- | 105.0 (79.9–133.8) | 12.0 (9.9–14.0) | -- |
| Palestine | 647.7 (604.8–708.4) | 43.2 (34.2–53.2) | 264.3 (230.8–302.3) | 150.8 (134.9–165.5) | 93.6 (83.5–105.5) | 49.0 (39.6–61.5) | 8.2 (6.8–9.7) | -- | 6.5 (5.7–7.4) | 3.0 (2.5–3.5) | 3.6 (2.9–4.3) | -- | 10.0 (7.8–12.8) | 10.0 (7.8–12.8) | -- | -- | 0.5 (0.4–0.6) | 38.8 (29.5–50.4) | -- | 122.4 (92.7–156.5) | 11.3 (9.4–13.3) | -- |
| Qatar | 496.9 (455.2–547.4) | 3.0 (2.6–3.5) | 228.4 (196.4–261.8) | 83.0 (75.2–91.9) | 51.4 (44.8–59.0) | 21.4 (18.6–24.6) | 10.2 (8.7–11.8) | -- | 13.3 (11.5–15.1) | 8.4 (6.9–9.9) | 4.9 (4.0–6.0) | -- | 10.5 (8.2–13.6) | 10.5 (8.2–13.6) | -- | -- | 0.5 (0.4–0.6) | 43.1 (32.9–55.8) | -- | 101.2 (75.5–129.7) | 14.0 (11.7–16.2) | -- |
| Saudi Arabia | 629.5 (577.1–689.5) | 3.0 (2.6–3.5) | 313.6 (267.5–356.7) | 129.4 (116.4–142.3) | 93.7 (83.1–105.5) | 27.3 (24.3–30.2) | 8.4 (7.1–9.8) | -- | 11.1 (9.7–12.8) | 5.3 (4.3–6.3) | 5.8 (4.9–7.0) | -- | 10.4 (8.2–13.4) | 10.4 (8.2–13.4) | -- | -- | 0.5 (0.4–0.6) | 42.4 (31.9–55.1) | -- | 106.5 (81.6–135.8) | 12.7 (10.9–14.7) | -- |
| Sudan | 794.0 (736.6–854.1) | 41.2 (32.4–50.9) | 372.6 (324.4–418.5) | 192.4 (175.3–211.2) | 134.1 (118.9–150.6) | 48.0 (42.4–53.1) | 10.3 (9.0–11.8) | -- | 7.6 (6.7–8.8) | 3.4 (2.8–4.0) | 4.2 (3.5–5.2) | -- | 10.0 (7.9–12.9) | 10.0 (7.9–12.9) | -- | -- | 0.5 (0.4–0.6) | 42.7 (32.1–55.5) | -- | 116.7 (90.3–149.9) | 10.3 (8.8–11.8) | -- |
| Syrian Arab Republic | 785.6 (724.6–855.0) | 44.8 (35.4–55.6) | 412.7 (355.2–471.4) | 135.9 (123.2–148.3) | 88.2 (77.9–100.1) | 38.6 (34.1–43.2) | 9.1 (7.8–10.4) | -- | 13.5 (11.7–15.2) | 6.6 (5.3–7.6) | 6.9 (5.4–8.4) | -- | 10.0 (7.8–12.9) | 10.0 (7.8–12.9) | -- | -- | 0.6 (0.5–0.7) | 40.7 (31.3–52.7) | -- | 116.5 (88.9–150.8) | 11.0 (9.1–13.1) | -- |
| Tunisia | 459.9 (424.1–509.8) | 3.0 (2.7–3.5) | 156.5 (136.5–178.8) | 103.0 (93.8–112.4) | 67.5 (60.1–76.4) | 26.0 (23.2–29.0) | 9.4 (8.0–11.0) | -- | 9.4 (8.1–10.7) | 4.8 (3.9–5.6) | 4.7 (3.9–5.5) | -- | 9.9 (7.8–12.8) | 9.9 (7.8–12.8) | -- | -- | 0.5 (0.4–0.6) | 40.1 (30.7–52.5) | -- | 121.2 (92.0–158.3) | 16.3 (14.2–18.6) | -- |
| Türkiye | 526.8 (486.8–575.7) | 4.1 (3.5–4.8) | 233.9 (204.3–266.2) | 103.0 (93.6–112.6) | 66.5 (58.9–74.3) | 24.9 (22.0–27.8) | 11.7 (10.2–13.3) | -- | 11.3 (10.1–12.7) | 5.3 (4.4–6.2) | 6.0 (5.1–6.9) | -- | 9.0 (7.0–11.7) | 9.0 (7.0–11.7) | -- | -- | 0.5 (0.4–0.6) | 39.5 (30.3–51.1) | -- | 109.1 (84.0–139.3) | 16.4 (14.6–18.2) | -- |
| United Arab Emirates | 466.6 (430.0–520.9) | 3.4 (3.0–4.0) | 186.2 (164.4–214.0) | 95.0 (86.0–104.5) | 62.7 (54.7–71.2) | 22.6 (19.8–25.9) | 9.7 (8.3–11.2) | -- | 11.9 (10.4–13.8) | 6.4 (5.2–7.6) | 5.5 (4.5–6.7) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.5 (0.4–0.6) | 45.0 (34.1–58.4) | -- | 101.3 (76.4–130.1) | 12.5 (10.4–14.6) | -- |
| Yemen | 743.9 (685.1–809.2) | 60.3 (47.5–75.0) | 324.5 (259.5–376.7) | 180.5 (163.8–198.3) | 116.6 (102.7–133.2) | 52.2 (45.8–57.6) | 11.7 (10.0–13.5) | -- | 7.1 (6.3–8.1) | 2.8 (2.3–3.2) | 4.4 (3.6–5.3) | -- | 10.0 (7.8–12.8) | 10.0 (7.8–12.8) | -- | -- | 0.7 (0.5–0.8) | 38.2 (28.9–49.9) | -- | 113.0 (86.2–146.5) | 9.6 (8.2–11.0) | -- |
| **South Asia** | **630.2 (583.2–694.8)** | **47.4 (36.8–58.3)** | **176.2 (154.3–203.0)** | **151.3 (135.9–170.0)** | **90.4 (77.5–106.0)** | **51.4 (43.4–58.7)** | **9.5 (8.2–10.8)** | **--** | **5.4 (5.0–5.9)** | **2.5 (2.1–2.9)** | **2.9 (2.7–3.1)** | **--** | **11.9 (9.4–15.3)** | **11.9 (9.4–15.3)** | **--** | **--** | **0.6 (0.4–0.7)** | **52.5 (40.2–67.5)** | **--** | **177.9 (136.3–225.4)** | **7.0 (5.9–8.2)** | **--** |
| South Asia | 630.2 (583.2–694.8) | 47.4 (36.8–58.3) | 176.2 (154.3–203.0) | 151.3 (135.9–170.0) | 90.4 (77.5–106.0) | 51.4 (43.4–58.7) | 9.5 (8.2–10.8) | -- | 5.4 (5.0–5.9) | 2.5 (2.1–2.9) | 2.9 (2.7–3.1) | -- | 11.9 (9.4–15.3) | 11.9 (9.4–15.3) | -- | -- | 0.6 (0.4–0.7) | 52.5 (40.2–67.5) | -- | 177.9 (136.3–225.4) | 7.0 (5.9–8.2) | -- |
| Bangladesh | 592.4 (550.5–653.3) | 46.9 (36.9–58.0) | 163.9 (141.6–187.0) | 145.7 (130.2–161.3) | 86.8 (74.2–101.0) | 48.2 (41.8–54.4) | 10.7 (9.4–12.2) | -- | 5.6 (4.9–6.4) | 2.7 (2.3–3.1) | 2.9 (2.4–3.5) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 48.6 (37.7–62.4) | -- | 162.9 (124.5–208.5) | 7.6 (6.4–8.7) | -- |
| Bhutan | 555.8 (512.7–614.5) | 45.5 (35.8–56.1) | 146.1 (126.5–170.2) | 128.3 (115.9–142.9) | 76.6 (65.8–87.8) | 43.4 (38.2–48.8) | 8.2 (7.1–9.3) | -- | 6.2 (5.4–7.1) | 3.1 (2.5–3.6) | 3.1 (2.6–3.9) | -- | 10.9 (8.7–14.2) | 10.9 (8.7–14.2) | -- | -- | 0.7 (0.5–0.8) | 48.4 (37.1–62.6) | -- | 162.5 (125.1–208.3) | 7.3 (6.3–8.4) | -- |
| India | 631.7 (584.2–696.6) | 46.8 (36.4–57.3) | 176.3 (152.5–205.2) | 151.7 (136.0–170.5) | 90.5 (77.7–106.7) | 51.8 (43.7–59.7) | 9.3 (8.0–10.5) | -- | 5.4 (4.9–5.8) | 2.4 (2.0–2.8) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.6 (0.4–0.7) | 52.7 (40.3–67.6) | -- | 179.2 (137.3–226.9) | 7.0 (5.9–8.3) | -- |
| Andhra Pradesh | 640.6 (594.7–712.7) | 75.0 (58.3–92.3) | 190.4 (161.5–227.8) | 113.4 (101.2–127.9) | 67.4 (57.7–79.0) | 38.0 (32.1–43.8) | 7.9 (6.9–9.2) | -- | 5.4 (4.9–5.8) | 2.4 (2.0–2.9) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 54.1 (41.2–69.4) | -- | 182.1 (140.4–230.8) | 7.7 (6.5–9.1) | -- |
| Arunachal Pradesh | 560.9 (513.2–621.2) | 47.6 (36.9–59.3) | 123.6 (103.8–146.6) | 124.0 (111.3–138.6) | 70.6 (60.1–83.5) | 44.7 (37.7–51.7) | 8.6 (7.5–9.8) | -- | 5.5 (5.0–6.0) | 2.6 (2.1–3.1) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 54.9 (42.1–70.4) | -- | 185.4 (142.7–234.1) | 7.2 (6.0–8.6) | -- |
| Assam | 639.1 (593.7–708.1) | 49.4 (38.3–61.3) | 144.3 (125.7–169.4) | 185.5 (166.8–210.0) | 102.4 (87.9–121.8) | 71.9 (61.7–82.1) | 11.1 (9.6–12.8) | -- | 5.4 (5.0–5.9) | 2.5 (2.0–2.9) | 2.9 (2.8–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 53.6 (40.8–68.6) | -- | 182.2 (139.5–228.9) | 6.0 (5.0–7.1) | -- |
| Bihar | 603.1 (557.9–673.8) | 48.2 (37.3–59.8) | 195.3 (168.2–228.6) | 112.2 (99.6–125.4) | 69.9 (59.7–82.3) | 35.7 (30.1–41.7) | 6.6 (5.7–7.7) | -- | 5.2 (4.8–5.6) | 2.3 (1.9–2.7) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.4–0.7) | 51.9 (39.5–67.4) | -- | 169.9 (129.9–216.0) | 7.7 (6.6–9.1) | -- |
| Chhattisgarh | 679.9 (625.2–748.3) | 49.7 (38.8–61.2) | 184.9 (156.4–221.5) | 188.7 (167.7–213.1) | 104.7 (89.9–122.5) | 73.6 (62.3–83.9) | 10.4 (9.0–11.9) | -- | 5.4 (4.9–5.8) | 2.4 (2.0–2.8) | 3.0 (2.8–3.2) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 51.4 (39.1–65.7) | -- | 179.9 (138.3–227.8) | 7.4 (6.3–8.7) | -- |
| Delhi | 609.1 (556.0–681.4) | 45.5 (35.7–56.5) | 199.8 (168.3–238.9) | 106.2 (95.4–121.2) | 73.5 (63.5–86.8) | 26.1 (21.7–30.5) | 6.6 (5.5–7.9) | -- | 5.7 (5.2–6.3) | 2.8 (2.3–3.3) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.5) | 12.1 (9.5–15.5) | -- | -- | 0.5 (0.4–0.6) | 53.0 (40.2–68.3) | -- | 178.7 (136.8–227.2) | 7.5 (6.3–8.8) | -- |
| Goa | 620.6 (571.2–693.0) | 45.6 (35.7–55.4) | 187.3 (156.7–225.9) | 127.9 (115.1–143.7) | 78.3 (66.8–92.3) | 41.0 (34.3–47.7) | 8.6 (7.4–9.8) | -- | 5.9 (5.4–6.5) | 3.0 (2.4–3.6) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 54.5 (41.5–69.9) | -- | 178.7 (137.4–227.5) | 8.2 (6.9–9.7) | -- |
| Gujarat | 643.6 (594.4–711.3) | 46.8 (36.5–57.2) | 183.6 (159.3–220.0) | 157.3 (140.8–178.0) | 93.8 (80.9–110.3) | 53.7 (45.7–61.2) | 9.8 (8.5–11.1) | -- | 5.5 (5.0–6.0) | 2.6 (2.1–3.0) | 2.9 (2.8–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 52.9 (40.0–68.6) | -- | 178.3 (136.6–227.2) | 6.6 (5.5–7.8) | -- |
| Haryana | 644.5 (595.4–715.3) | 46.4 (36.1–56.7) | 173.1 (149.7–204.6) | 160.0 (143.9–179.8) | 101.3 (87.7–117.9) | 49.2 (41.5–56.4) | 9.5 (8.1–10.8) | -- | 5.4 (4.9–5.8) | 2.5 (2.0–2.9) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.5) | 12.1 (9.5–15.5) | -- | -- | 0.5 (0.4–0.6) | 53.5 (40.9–69.3) | -- | 186.7 (143.0–236.4) | 6.7 (5.6–7.8) | -- |
| Himachal Pradesh | 588.9 (538.9–657.6) | 43.3 (33.8–53.2) | 179.5 (152.4–213.5) | 98.1 (87.9–110.9) | 59.4 (51.2–69.9) | 31.8 (26.7–37.2) | 6.9 (5.9–8.1) | -- | 5.6 (5.0–6.0) | 2.7 (2.1–3.1) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 55.9 (42.5–72.8) | -- | 186.8 (142.3–236.9) | 7.1 (5.9–8.4) | -- |
| Kashmir and Ladakh | 619.4 (568.0–687.8) | 45.9 (35.7–56.4) | 200.8 (172.5–238.4) | 109.1 (97.0–123.5) | 65.3 (55.8–77.4) | 36.1 (30.4–41.7) | 7.7 (6.6–8.8) | -- | 5.6 (5.1–6.1) | 2.7 (2.2–3.2) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.4–0.7) | 52.0 (39.7–66.9) | -- | 185.4 (142.0–234.4) | 7.8 (6.6–9.1) | -- |
| Jharkhand | 551.0 (508.9–610.7) | 48.1 (37.6–60.1) | 107.6 (93.3–125.6) | 151.6 (135.8–171.0) | 91.0 (78.3–107.1) | 51.7 (43.0–60.0) | 8.8 (7.5–10.1) | -- | 5.0 (4.6–5.4) | 2.2 (1.8–2.5) | 2.9 (2.7–3.0) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 52.1 (39.7–66.9) | -- | 167.2 (129.0–213.5) | 6.7 (5.6–7.8) | -- |
| Karnataka | 657.0 (601.9–736.1) | 47.3 (36.6–58.1) | 219.7 (185.8–257.4) | 126.3 (112.6–141.9) | 72.5 (62.4–85.7) | 45.6 (38.6–52.4) | 8.2 (7.0–9.4) | -- | 5.4 (4.9–5.8) | 2.5 (2.0–2.9) | 2.9 (2.8–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 54.0 (41.6–68.8) | -- | 184.4 (141.9–234.8) | 7.4 (6.3–8.8) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerala | 654.9 (605.5–720.0) | 44.1 (34.9–53.8) | 168.4 (142.8–201.1) | 177.6 (158.8–201.5) | 106.8 (92.7–124.4) | 59.1 (49.8–68.1) | 11.8 (10.2–13.4) | -- | 5.7 (5.1–6.2) | 2.8 (2.2–3.3) | 2.9 (2.7–3.1) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 54.6 (42.1–70.3) | -- | 184.6 (142.7–232.8) | 7.5 (6.4–8.9) | -- |
| Madhya Pradesh | 629.7 (581.4–695.5) | 45.9 (35.7–56.8) | 195.6 (168.9–229.0) | 135.6 (121.7–153.2) | 79.3 (68.5–93.3) | 48.3 (40.5–55.7) | 8.0 (6.9–9.2) | -- | 5.1 (4.7–5.5) | 2.2 (1.8–2.5) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 51.2 (38.8–65.9) | -- | 176.1 (135.3–221.6) | 7.6 (6.4–8.9) | -- |
| Maharashtra | 599.1 (552.8–661.1) | 42.9 (32.5–53.3) | 146.4 (125.9–169.3) | 162.2 (146.0–182.9) | 95.2 (81.7–113.2) | 56.6 (47.2–65.4) | 10.5 (9.1–12.0) | -- | 5.4 (4.9–5.8) | 2.5 (2.0–2.9) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 52.0 (40.0–66.3) | -- | 170.6 (130.3–216.9) | 7.0 (5.9–8.3) | -- |
| Manipur | 609.5 (556.4–676.9) | 47.6 (36.9–58.8) | 144.8 (122.7–169.9) | 141.3 (126.6–159.3) | 83.1 (71.4–98.4) | 48.7 (40.3–56.1) | 9.5 (8.2–10.9) | -- | 5.6 (5.1–6.1) | 2.6 (2.2–3.1) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 52.9 (40.4–68.5) | -- | 197.6 (152.7–249.8) | 7.1 (6.0–8.5) | -- |
| Meghalaya | 561.1 (511.4–623.3) | 47.9 (37.4–58.7) | 120.1 (100.8–144.1) | 122.0 (109.6–136.9) | 70.5 (60.5–82.8) | 42.9 (35.8–50.0) | 8.6 (7.5–9.9) | -- | 5.5 (5.0–6.0) | 2.6 (2.1–3.0) | 3.0 (2.8–3.2) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 54.5 (42.1–70.0) | -- | 191.4 (148.2–244.1) | 7.1 (6.0–8.4) | -- |
| Mizoram | 518.2 (470.5–581.6) | 47.4 (36.8–58.2) | 102.6 (87.9–120.5) | 101.0 (90.6–114.3) | 60.6 (51.8–71.1) | 32.1 (26.8–37.0) | 8.3 (7.1–9.6) | -- | 5.7 (5.2–6.2) | 2.8 (2.2–3.2) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 52.9 (40.1–67.9) | -- | 189.3 (146.6–238.6) | 6.7 (5.6–8.0) | -- |
| Nagaland | 609.5 (558.1–671.4) | 47.2 (36.9–58.6) | 147.4 (125.5–173.2) | 157.7 (140.9–178.2) | 96.5 (82.8–112.9) | 51.9 (43.9–60.0) | 9.3 (8.1–10.6) | -- | 5.6 (5.1–6.1) | 2.7 (2.1–3.1) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 56.4 (43.4–72.5) | -- | 175.0 (134.8–222.4) | 7.5 (6.3–8.8) | -- |
| Odisha | 585.2 (541.2–646.0) | 48.9 (38.1–60.3) | 121.4 (104.4–143.3) | 169.1 (149.9–192.3) | 92.8 (79.5–110.1) | 66.1 (55.3–75.9) | 10.1 (8.8–11.7) | -- | 5.2 (4.7–5.6) | 2.3 (1.9–2.6) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 51.4 (39.5–66.6) | -- | 170.3 (131.0–217.8) | 6.4 (5.3–7.5) | -- |
| Union Territories | 598.8 (548.5–663.9) | 45.7 (35.1–55.9) | 188.6 (158.6–222.6) | 107.4 (96.2–121.6) | 65.4 (56.1–76.2) | 34.6 (29.1–40.1) | 7.4 (6.3–8.6) | -- | 5.6 (5.1–6.1) | 2.7 (2.2–3.1) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.5 (0.4–0.6) | 50.4 (38.5–65.4) | -- | 180.9 (138.1–229.3) | 7.6 (6.4–9.1) | -- |
| Punjab | 638.9 (587.7–710.4) | 46.3 (36.2–56.6) | 237.9 (203.0–281.0) | 98.0 (87.7–110.6) | 62.3 (53.6–72.5) | 29.5 (24.9–34.4) | 6.3 (5.3–7.3) | -- | 5.7 (5.1–6.2) | 2.8 (2.2–3.2) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.4–0.7) | 57.3 (43.8–73.3) | -- | 174.1 (133.2–221.6) | 6.9 (5.8–8.1) | -- |
| Rajasthan | 594.2 (545.8–662.7) | 52.5 (40.8–64.8) | 169.2 (144.6–202.2) | 110.5 (99.1–124.5) | 68.9 (59.2–81.0) | 34.5 (28.9–40.4) | 7.2 (6.2–8.2) | -- | 5.3 (4.8–5.7) | 2.4 (1.9–2.7) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.4–0.7) | 52.6 (40.6–67.3) | -- | 183.7 (140.8–232.9) | 7.8 (6.7–9.1) | -- |
| Sikkim | 583.5 (532.6–655.7) | 46.5 (36.0–57.4) | 147.1 (124.2–174.7) | 127.2 (110.3–144.1) | 77.0 (64.1–90.7) | 42.2 (34.4–50.2) | 8.1 (6.8–9.6) | -- | 5.9 (5.3–6.4) | 3.0 (2.4–3.5) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.5 (0.4–0.6) | 57.7 (44.1–73.8) | -- | 179.5 (138.0–226.4) | 7.0 (5.8–8.1) | -- |
| Tamil Nadu | 643.5 (594.4–710.9) | 40.9 (31.1–51.7) | 190.2 (159.8–221.5) | 147.0 (130.9–166.2) | 85.3 (73.3–99.7) | 52.0 (43.9–59.8) | 9.7 (8.4–11.1) | -- | 5.7 (5.2–6.1) | 2.7 (2.2–3.1) | 2.9 (2.8–3.1) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 53.3 (40.5–68.6) | -- | 186.4 (144.2–237.0) | 7.5 (6.4–8.8) | -- |
| Telangana | 652.1 (602.2–722.3) | 47.2 (36.5–57.5) | 227.8 (191.3–271.8) | 125.3 (112.9–141.6) | 72.6 (62.8–85.6) | 44.5 (37.3–50.5) | 8.3 (7.1–9.4) | -- | 5.5 (5.0–6.0) | 2.6 (2.1–3.0) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 51.5 (39.5–66.0) | -- | 175.1 (133.5–224.0) | 7.3 (6.2–8.5) | -- |
| Tripura | 671.5 (619.4–742.4) | 47.4 (37.0–58.3) | 178.7 (153.3–207.7) | 177.8 (159.2–200.4) | 104.1 (89.2–121.5) | 62.2 (52.6–71.2) | 11.4 (9.9–13.1) | -- | 5.4 (4.9–5.8) | 2.5 (2.0–2.8) | 2.9 (2.7–3.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.7) | 54.7 (42.2–69.9) | -- | 187.7 (144.6–237.7) | 7.3 (6.1–8.5) | -- |
| Uttar Pradesh | 623.7 (577.5–690.6) | 42.2 (32.3–53.0) | 141.3 (121.0–167.2) | 182.5 (162.5–203.5) | 110.9 (95.3–129.9) | 61.8 (52.1–70.8) | 9.8 (8.5–11.1) | -- | 5.2 (4.7–5.6) | 2.3 (1.8–2.6) | 2.9 (2.7–3.1) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.5–0.7) | 51.3 (39.1–66.2) | -- | 182.8 (141.7–230.6) | 5.8 (4.9–6.9) | -- |
| Uttarakhand | 692.0 (632.2–772.4) | 49.3 (38.3–59.9) | 235.8 (201.6–278.0) | 131.2 (117.6–147.9) | 79.2 (68.5–93.2) | 44.0 (37.2–50.8) | 8.0 (6.9–9.1) | -- | 5.6 (5.1–6.0) | 2.6 (2.1–3.1) | 3.0 (2.8–3.2) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.6 (0.5–0.7) | 54.6 (42.3–70.2) | -- | 195.9 (150.2–249.3) | 7.0 (5.9–8.1) | -- |
| West Bengal | 722.2 (670.9–794.0) | 46.8 (36.2–57.6) | 216.3 (183.2–258.3) | 198.7 (176.7–224.2) | 121.8 (103.2–143.9) | 64.8 (55.0–75.2) | 12.0 (10.4–13.6) | -- | 5.3 (4.8–5.8) | 2.5 (2.0–2.8) | 2.9 (2.7–3.1) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 53.9 (41.3–69.1) | -- | 181.2 (139.0–229.2) | 7.3 (6.2–8.7) | -- |
| Nepal | 631.5 (582.2–694.1) | 58.2 (45.6–71.6) | 162.3 (138.3–191.5) | 154.7 (139.4–171.6) | 90.6 (77.9–104.8) | 54.0 (46.9–60.1) | 10.2 (8.8–11.5) | -- | 5.8 (5.1–6.6) | 2.9 (2.4–3.4) | 2.9 (2.4–3.6) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.6 (0.5–0.7) | 47.3 (35.8–61.4) | -- | 185.0 (142.3–232.4) | 6.8 (5.8–7.8) | -- |
| Pakistan | 648.6 (596.6–708.6) | 50.4 (39.5–62.7) | 188.1 (162.3–221.7) | 152.2 (136.8–171.1) | 92.1 (79.1–108.8) | 50.2 (42.4–57.3) | 9.9 (8.4–11.3) | -- | 5.9 (5.4–6.5) | 2.8 (2.3–3.3) | 3.1 (2.9–3.4) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.5–0.7) | 54.6 (41.7–69.2) | -- | 178.6 (136.5–225.5) | 6.1 (5.1–7.2) | -- |
| Jammu & Kashmir | 639.5 (589.4–703.2) | 51.0 (39.2–63.6) | 176.2 (151.0–213.4) | 143.9 (129.3–161.6) | 85.0 (72.7–99.7) | 48.9 (41.2–55.3) | 10.0 (8.6–11.4) | -- | 6.3 (5.8–6.9) | 3.1 (2.5–3.6) | 3.2 (3.0–3.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.5 (0.4–0.6) | 54.8 (41.8–71.3) | -- | 188.6 (145.6–241.0) | 6.2 (5.2–7.3) | -- |
| Balochistan | 612.1 (559.1–674.0) | 52.0 (40.3–64.5) | 159.0 (132.2–194.2) | 146.6 (130.5–166.4) | 82.4 (69.9–97.6) | 54.3 (45.8–62.1) | 9.9 (8.6–11.3) | -- | 5.9 (5.4–6.4) | 2.8 (2.3–3.3) | 3.1 (2.9–3.3) | -- | 12.2 (9.6–15.5) | 12.2 (9.6–15.5) | -- | -- | 0.6 (0.5–0.7) | 54.0 (41.5–68.5) | -- | 175.4 (133.4–221.5) | 6.5 (5.5–7.6) | -- |
| Gilgit-Baltistan | 618.6 (560.6–680.5) | 52.4 (40.9–64.2) | 157.0 (131.2–190.4) | 147.7 (133.0–165.9) | 80.5 (69.5–94.4) | 56.8 (48.1–65.3) | 10.3 (8.9–11.8) | -- | 5.8 (5.3–6.2) | 2.6 (2.2–3.1) | 3.1 (2.9–3.4) | -- | 12.2 (9.6–15.6) | 12.2 (9.6–15.6) | -- | -- | 0.6 (0.5–0.7) | 55.9 (42.3–71.9) | -- | 180.9 (140.0–228.9) | 6.3 (5.4–7.4) | -- |
| Capital Territory | 604.9 (555.0–673.3) | 46.3 (35.9–56.9) | 167.8 (143.2–197.4) | 119.2 (106.9–134.7) | 77.0 (66.6–91.1) | 33.5 (28.3–39.1) | 8.6 (7.4–9.9) | -- | 7.2 (6.4–8.0) | 4.1 (3.3–4.8) | 3.1 (2.9–3.4) | -- | 12.2 (9.6–15.6) | 12.2 (9.6–15.6) | -- | -- | 0.5 (0.4–0.6) | 57.4 (44.1–73.1) | -- | 187.4 (143.5–237.2) | 6.9 (5.8–8.2) | -- |
| Pakhtunkhwa | 640.7 (586.0–705.2) | 51.4 (40.3–64.3) | 184.0 (154.5–225.5) | 155.4 (138.5–176.7) | 94.3 (80.4–111.8) | 51.5 (43.2–58.7) | 9.6 (8.2–11.0) | -- | 5.7 (5.2–6.1) | 2.5 (2.1–3.0) | 3.1 (2.9–3.4) | -- | 12.1 (9.6–15.4) | 12.1 (9.6–15.4) | -- | -- | 0.6 (0.5–0.7) | 53.2 (40.2–68.4) | -- | 171.7 (133.5–218.9) | 6.5 (5.5–7.7) | -- |
| Punjab | 656.8 (605.4–719.3) | 50.3 (39.1–61.9) | 193.9 (166.7–230.2) | 154.8 (139.6–173.7) | 93.3 (80.3–109.9) | 51.4 (43.3–59.0) | 10.1 (8.5–11.6) | -- | 5.9 (5.4–6.4) | 2.8 (2.3–3.2) | 3.1 (2.9–3.3) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.5–0.7) | 54.7 (41.6–69.2) | -- | 178.5 (135.1–227.0) | 5.9 (5.0–7.1) | -- |
| Sindh | 645.7 (591.4–711.0) | 49.7 (38.7–61.9) | 186.2 (157.5–221.2) | 147.7 (132.9–168.0) | 91.7 (79.4–108.6) | 46.6 (39.3–52.7) | 9.4 (8.1–10.8) | -- | 6.1 (5.5–6.7) | 3.0 (2.4–3.5) | 3.1 (2.9–3.4) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.6 (0.5–0.7) | 55.0 (42.4–70.2) | -- | 182.2 (141.0–232.2) | 6.1 (5.1–7.3) | -- |
| **Southeast Asia, East Asia, and Oceania** | **523.6 (485.5–575.2)** | **18.7 (15.3–22.5)** | **95.1 (79.9–111.3)** | **199.7 (180.6–225.3)** | **118.5 (101.7–139.3)** | **69.5 (59.9–78.8)** | **11.8 (10.3–13.4)** | **--** | **12.0 (11.3–12.9)** | **2.5 (2.0–3.0)** | **9.5 (9.0–10.2)** | **--** | **14.0 (10.8–17.7)** | **14.0 (10.8–17.7)** | **--** | **--** | **0.5 (0.4–0.6)** | **47.8 (37.2–60.2)** | **--** | **118.9 (90.6–153.4)** | **16.8 (14.2–20.6)** | **--** |
| East Asia | 509.4 (471.7–562.1) | 15.1 (12.6–17.9) | 88.4 (72.4–105.3) | 191.1 (171.4–218.2) | 117.4 (99.3–139.8) | 64.0 (54.5–73.7) | 9.7 (8.4–11.0) | -- | 13.0 (12.2–13.9) | 2.6 (2.0–3.1) | 10.4 (9.8–11.0) | -- | 15.1 (11.6–19.3) | 15.1 (11.6–19.3) | -- | -- | 0.5 (0.4–0.6) | 46.4 (36.0–58.1) | -- | 122.0 (93.2–157.2) | 17.9 (14.8–22.3) | -- |
| China | 512.1 (473.9–565.2) | 15.0 (12.5–17.8) | 89.5 (73.2–106.9) | 192.2 (172.1–219.8) | 118.4 (100.0–141.3) | 64.2 (54.5–74.1) | 9.6 (8.4–10.9) | -- | 12.9 (12.2–13.8) | 2.6 (2.0–3.1) | 10.4 (9.9–11.0) | -- | 15.1 (11.6–19.3) | 15.1 (11.6–19.3) | -- | -- | 0.5 (0.4–0.6) | 46.4 (36.0–58.1) | -- | 122.9 (93.8–158.2) | 17.6 (14.4–22.0) | -- |
| People's Republic of | 539.0 (499.1–580.2) | 19.4 (15.1–24.1) | 85.5 (74.1–98.9) | 250.1 (224.4–276.4) | 130.0 (110.0–151.5) | 105.7 (94.7–117.2) | 14.4 (12.6–16.2) | -- | 9.0 (7.3–11.1) | 1.8 (1.4–2.2) | 7.2 (5.6–9.0) | -- | 14.0 (10.9–18.2) | 14.0 (10.9–18.2) | -- | -- | 0.5 (0.4–0.6) | 45.2 (35.2–57.0) | -- | 103.9 (79.2–134.4) | 11.5 (9.5–14.2) | -- |
| Taiwan | 354.9 (331.0–384.8) | 10.6 (8.9–12.9) | 38.0 (33.2–43.8) | 91.5 (83.2–99.9) | 54.7 (47.5–62.8) | 27.7 (25.0–30.9) | 9.0 (7.9–10.4) | -- | 18.5 (15.7–21.6) | 5.4 (4.0–6.6) | 13.2 (10.6–16.1) | -- | 14.1 (10.9–18.1) | 14.1 (10.9–18.1) | -- | -- | 0.5 (0.4–0.6) | 47.7 (36.4–60.6) | -- | 90.1 (67.6–114.1) | 43.8 (39.1–48.7) | -- |
| Oceania | 471.0 (442.1–509.6) | 40.9 (31.2–50.9) | 87.5 (77.0–98.8) | 156.0 (143.0–170.3) | 76.2 (66.2–87.7) | 68.4 (61.4–74.8) | 11.3 (10.0–12.9) | -- | 7.8 (6.6–9.4) | 2.4 (1.9–2.9) | 5.4 (4.3–6.8) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.5–0.7) | 47.3 (36.4–60.8) | -- | 104.9 (79.8–134.8) | 12.4 (11.0–14.3) | -- |
| American Samoa | 518.9 (486.4–563.0) | 38.1 (29.7–47.2) | 117.8 (103.6–133.9) | 156.7 (143.1–170.2) | 73.2 (63.1–84.2) | 68.6 (61.8–76.5) | 15.0 (13.2–16.6) | -- | 11.6 (10.0–13.6) | 4.7 (3.9–5.7) | 6.9 (5.5–8.8) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.4–0.7) | 53.0 (40.8–67.5) | -- | 107.1 (81.0–136.4) | 20.4 (18.0–23.5) | -- |
| Cook Islands | 386.3 (358.0–423.6) | 8.0 (6.8–9.1) | 68.6 (59.3–77.6) | 110.9 (101.1–123.4) | 61.9 (54.0–71.3) | 36.2 (32.1–40.5) | 12.7 (11.1–14.5) | -- | 9.2 (7.9–10.8) | 3.6 (2.8–4.5) | 5.6 (4.3–6.9) | -- | 13.4 (10.4–17.4) | 13.4 (10.4–17.4) | -- | -- | 0.5 (0.4–0.7) | 53.0 (40.8–67.3) | -- | 104.3 (79.9–133.1) | 18.4 (16.3–21.0) | -- |
| (Federated States of) | 647.6 (610.4–695.6) | 42.1 (31.9–52.4) | 152.4 (134.7–171.6) | 253.0 (231.9–272.5) | 117.2 (103.1–135.6) | 115.9 (107.6–125.9) | 19.9 (17.9–22.3) | -- | 9.3 (8.1–11.0) | 3.6 (2.9–4.3) | 5.8 (4.6–7.2) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.7 (0.5–0.8) | 48.7 (37.1–62.8) | -- | 114.8 (86.7–144.9) | 13.1 (11.2–15.2) | -- |
| Fiji | 528.2 (496.7–573.2) | 31.3 (24.2–39.3) | 142.8 (124.8–161.9) | 159.4 (147.0–174.3) | 74.0 (64.6–84.9) | 69.2 (62.8–75.4) | 16.2 (14.4–18.1) | -- | 8.5 (7.3–10.0) | 2.7 (2.2–3.3) | 5.7 (4.6–7.2) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.7 (0.5–0.8) | 53.4 (40.9–67.9) | -- | 102.3 (78.0–131.9) | 16.3 (14.5–18.5) | -- |
| Guam | 459.0 (429.7–502.0) | 8.8 (7.6–9.9) | 130.3 (115.1–146.7) | 119.5 (109.8–129.7) | 60.1 (52.5–68.5) | 44.6 (40.3–48.8) | 14.8 (13.1–16.7) | -- | 11.1 (9.5–13.0) | 4.8 (3.8–5.8) | 6.3 (5.0–7.9) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.4–0.7) | 52.7 (40.3–67.9) | -- | 104.3 (78.5–132.8) | 18.1 (15.9–20.7) | -- |
| Kiribati | 622.5 (582.2–671.5) | 45.4 (33.9–57.3) | 120.1 (103.8–135.5) | 250.0 (230.1–271.5) | 105.6 (92.6–122.6) | 126.2 (115.4–137.7) | 18.1 (15.4–21.2) | -- | 8.8 (7.5–10.2) | 2.7 (2.2–3.1) | 6.1 (4.9–7.5) | -- | 13.5 (10.4–17.5) | 13.5 (10.4–17.5) | -- | -- | 0.7 (0.5–0.8) | 49.6 (37.9–63.6) | -- | 122.7 (92.8–158.6) | 11.9 (10.3–13.6) | -- |
| Marshall Islands | 618.5 (578.3–671.8) | 42.0 (31.7–53.0) | 138.7 (122.5–156.3) | 225.6 (208.5–244.4) | 93.8 (81.3–108.9) | 113.8 (102.9–124.0) | 18.0 (15.7–20.4) | -- | 9.0 (7.7–10.5) | 3.0 (2.4–3.6) | 6.0 (4.8–7.3) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.5–0.8) | 48.0 (36.6–61.4) | -- | 128.4 (97.0–164.3) | 12.7 (11.2–14.7) | -- |
| Nauru | 669.2 (631.4–718.3) | 41.6 (31.2–51.7) | 162.1 (139.1–183.8) | 263.9 (242.1–288.4) | 105.8 (92.2–122.8) | 136.4 (123.7–147.1) | 21.7 (19.0–24.5) | -- | 9.4 (7.9–11.1) | 3.4 (2.7–4.1) | 6.1 (4.8–7.5) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.7 (0.5–0.8) | 53.0 (40.9–67.7) | -- | 112.1 (85.9–145.1) | 12.8 (11.3–14.7) | -- |
| Niue | 554.3 (519.9–598.3) | 36.2 (27.6–45.4) | 134.1 (116.5–152.1) | 190.3 (174.0–207.3) | 93.2 (81.6–108.9) | 81.2 (72.1–89.8) | 15.9 (14.1–17.8) | -- | 9.8 (8.5–11.7) | 3.9 (3.1–4.7) | 5.9 (4.7–7.3) | -- | 13.4 (10.4–17.4) | 13.4 (10.4–17.4) | -- | -- | 0.6 (0.5–0.7) | 53.7 (41.7–67.8) | -- | 104.4 (80.0–133.8) | 11.9 (10.4–13.7) | -- |
| Northern Mariana Islands | 465.2 (436.1–514.4) | 10.9 (9.6–12.2) | 102.0 (88.8–115.3) | 149.4 (137.4–164.4) | 64.2 (55.5–74.9) | 66.1 (59.6–73.4) | 19.1 (17.0–21.2) | -- | 12.5 (10.6–14.6) | 6.1 (4.9–7.3) | 6.3 (5.0–8.0) | -- | 13.6 (10.5–17.7) | 13.6 (10.5–17.7) | -- | -- | 0.5 (0.4–0.7) | 52.1 (39.8–65.5) | -- | 108.3 (80.5–140.0) | 15.8 (13.9–18.6) | -- |
| Palau | 562.9 (527.8–608.4) | 37.7 (28.9–47.4) | 136.9 (118.7–154.0) | 196.8 (180.1–215.7) | 99.9 (87.6–115.1) | 81.6 (73.6–90.5) | 15.3 (13.3–17.0) | -- | 10.6 (9.0–12.4) | 4.2 (3.4–5.0) | 6.4 (5.1–8.0) | -- | 13.8 (10.6–17.9) | 13.8 (10.6–17.9) | -- | -- | 0.6 (0.5–0.7) | 51.0 (39.2–64.7) | -- | 104.4 (78.6–133.2) | 11.0 (9.7–12.9) | -- |
| Papua New Guinea | 426.4 (398.5–465.5) | 41.6 (31.7–52.1) | 59.3 (51.2–68.4) | 142.7 (130.4–157.4) | 73.3 (62.9–84.1) | 60.3 (53.7–66.6) | 9.2 (8.0–10.4) | -- | 7.3 (6.2–8.9) | 2.0 (1.6–2.4) | 5.3 (4.2–6.7) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.5–0.7) | 45.4 (34.9–58.5) | -- | 104.0 (79.0–132.9) | 11.9 (10.5–13.8) | -- |
| Samoa | 550.9 (516.3–591.4) | 38.6 (28.8–47.8) | 130.2 (114.1–148.8) | 184.5 (169.6–201.4) | 86.2 (74.8–98.6) | 81.0 (72.6–90.5) | 17.3 (15.1–19.6) | -- | 9.4 (8.1–11.2) | 3.6 (2.9–4.4) | 5.8 (4.7–7.3) | -- | 13.5 (10.4–17.5) | 13.5 (10.4–17.5) | -- | -- | 0.5 (0.4–0.7) | 50.9 (39.4–64.5) | -- | 111.4 (84.8–142.2) | 11.8 (10.3–13.8) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solomon Islands | 641.0 (602.7–684.3) | 43.6 (33.4–54.2) | 165.4 (145.0–187.3) | 242.0 (222.4–262.6) | 94.0 (81.6–110.0) | 128.5 (118.2–140.3) | 19.5 (17.0–21.9) | -- | 7.9 (6.8–9.5) | 2.6 (2.1–3.1) | 5.3 (4.3–6.6) | -- | 13.6 (10.5–17.6) | 13.6 (10.5–17.6) | -- | -- | 0.6 (0.5–0.8) | 47.1 (35.9–60.8) | -- | 109.3 (83.1–139.2) | 11.6 (10.2–13.3) | -- |
| Tokelau | 534.4 (500.9–584.5) | 36.3 (28.2–45.3) | 125.4 (109.3–142.6) | 171.7 (157.5–189.0) | 85.3 (73.6–98.9) | 70.9 (62.8–79.2) | 15.5 (13.5–17.5) | -- | 8.9 (7.6–10.5) | 3.4 (2.7–4.0) | 5.5 (4.3–6.9) | -- | 13.7 (10.5–17.7) | 13.7 (10.5–17.7) | -- | -- | 0.6 (0.5–0.7) | 50.2 (38.5–63.6) | -- | 116.0 (87.7–147.6) | 11.6 (10.2–13.5) | -- |
| Tonga | 481.4 (446.5–526.6) | 46.0 (34.4–57.6) | 100.3 (88.5–114.9) | 132.3 (120.8–146.7) | 68.0 (59.0–79.0) | 52.1 (45.9–58.2) | 12.2 (10.8–14.0) | -- | 9.1 (7.8–10.7) | 3.8 (3.0–4.5) | 5.3 (4.2–6.6) | -- | 13.4 (10.3–17.3) | 13.4 (10.3–17.3) | -- | -- | 0.6 (0.4–0.7) | 51.8 (39.6–66.9) | -- | 115.6 (87.9–149.5) | 12.4 (10.8–14.4) | -- |
| Tuvalu | 615.9 (584.1–659.6) | 42.2 (31.6–52.8) | 129.3 (112.6–146.4) | 247.5 (228.3–270.5) | 101.5 (87.5–118.4) | 125.9 (114.0–137.7) | 20.1 (17.4–23.1) | -- | 8.6 (7.5–10.1) | 3.2 (2.5–3.8) | 5.4 (4.4–6.8) | -- | 13.6 (10.5–17.7) | 13.6 (10.5–17.7) | -- | -- | 0.6 (0.5–0.8) | 50.0 (38.5–65.0) | -- | 109.8 (83.4–139.0) | 14.3 (12.5–16.3) | -- |
| Vanuatu | 672.4 (635.0–720.7) | 42.5 (32.6–53.6) | 174.9 (153.4–197.5) | 263.3 (240.8–284.4) | 113.7 (97.8–131.8) | 130.3 (119.1–142.3) | 19.4 (17.1–22.1) | -- | 8.0 (6.8–9.4) | 2.7 (2.2–3.2) | 5.3 (4.2–6.7) | -- | 13.5 (10.5–17.5) | 13.5 (10.5–17.5) | -- | -- | 0.6 (0.5–0.7) | 51.9 (39.7–66.1) | -- | 105.9 (80.2–136.1) | 11.7 (10.2–13.7) | -- |
| Southeast Asia | 556.4 (518.5–606.8) | 22.2 (17.2–27.4) | 116.3 (101.0–133.7) | 219.6 (200.9–242.1) | 120.8 (106.4–137.4) | 81.6 (71.4–90.3) | 17.1 (15.0–19.3) | -- | 8.8 (7.9–9.9) | 2.2 (1.8–2.6) | 6.5 (5.7–7.4) | -- | 12.2 (9.5–15.2) | 12.2 (9.5–15.2) | -- | -- | 0.6 (0.5–0.7) | 53.1 (40.9–67.5) | -- | 109.3 (83.0–140.0) | 14.3 (12.6–16.6) | -- |
| Cambodia | 539.8 (502.1–583.4) | 22.1 (17.0–28.2) | 124.2 (106.7–144.1) | 204.8 (186.1–222.6) | 105.9 (92.5–122.4) | 83.8 (74.9–93.3) | 15.0 (13.1–17.1) | -- | 7.3 (6.1–8.9) | 1.6 (1.3–1.9) | 5.7 (4.5–7.2) | -- | 11.6 (9.0–14.4) | 11.6 (9.0–14.4) | -- | -- | 0.6 (0.5–0.7) | 48.2 (37.3–61.5) | -- | 110.7 (84.2–142.3) | 10.4 (8.9–12.3) | -- |
| Indonesia | 632.1 (587.8–692.4) | 22.9 (17.8–28.3) | 135.0 (114.8–161.0) | 271.4 (244.6–304.0) | 144.5 (124.0–170.6) | 109.2 (92.9–123.5) | 17.7 (15.2–19.9) | -- | 8.4 (7.8–9.1) | 2.0 (1.5–2.3) | 6.4 (6.0–6.9) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 57.5 (44.6–72.7) | -- | 114.1 (86.4–145.7) | 9.3 (8.0–11.2) | -- |
| Aceh | 619.3 (571.4–681.4) | 23.0 (17.8–28.5) | 126.9 (107.4–150.2) | 264.3 (236.5–293.7) | 137.5 (117.1–162.6) | 109.0 (93.1–123.0) | 17.8 (15.5–20.3) | -- | 8.4 (7.7–9.1) | 2.0 (1.6–2.4) | 6.4 (5.9–6.9) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.7 (0.6–0.9) | 57.3 (44.6–72.7) | -- | 117.0 (89.2–149.0) | 8.9 (7.7–10.5) | -- |
| Bali | 563.2 (523.9–609.9) | 22.5 (17.4–28.1) | 112.8 (93.3–134.4) | 236.5 (211.0–265.3) | 125.5 (106.6–147.3) | 94.8 (80.4–107.8) | 16.2 (14.0–18.3) | -- | 8.2 (7.6–8.9) | 1.9 (1.4–2.3) | 6.3 (5.8–6.9) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.6 (0.5–0.8) | 53.0 (40.9–68.5) | -- | 106.7 (80.2–136.7) | 9.9 (8.5–11.9) | -- |
| Belitung Islands | 692.9 (642.5–757.8) | 24.4 (19.1–30.9) | 147.0 (123.1–177.1) | 316.6 (283.7–353.0) | 160.5 (136.0–190.5) | 136.4 (116.4–154.6) | 19.6 (16.8–22.3) | -- | 8.6 (7.9–9.3) | 2.0 (1.6–2.5) | 6.5 (6.0–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.6–0.9) | 58.8 (45.3–75.4) | -- | 115.1 (88.5–147.5) | 8.8 (7.4–10.3) | -- |
| Banten | 645.8 (598.7–705.8) | 23.0 (17.9–28.9) | 143.3 (118.6–167.4) | 277.5 (248.8–311.0) | 145.6 (125.3–173.0) | 113.3 (95.2–128.0) | 18.5 (15.9–21.2) | -- | 8.4 (7.7–9.1) | 1.9 (1.5–2.3) | 6.5 (5.9–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.5–0.8) | 56.5 (43.9–72.7) | -- | 114.6 (87.0–148.7) | 9.0 (7.7–10.8) | -- |
| Bengkulu | 637.6 (593.4–694.9) | 24.3 (18.8–30.4) | 132.2 (113.4–155.7) | 276.5 (247.8–308.6) | 143.1 (122.9–168.2) | 115.4 (98.5–131.4) | 17.9 (15.4–20.5) | -- | 8.3 (7.6–9.0) | 1.8 (1.4–2.2) | 6.5 (5.9–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.6–0.9) | 56.7 (43.9–72.2) | -- | 117.2 (88.3–149.5) | 8.9 (7.6–10.6) | -- |
| Gorontalo | 616.7 (573.2–672.6) | 24.3 (18.7–30.5) | 105.3 (91.0–126.9) | 283.4 (253.4–316.3) | 136.7 (115.7–163.7) | 127.3 (108.2–144.1) | 19.4 (16.5–22.2) | -- | 8.0 (7.4–8.7) | 1.6 (1.3–2.0) | 6.4 (5.8–6.9) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.5–0.8) | 56.1 (43.7–71.2) | -- | 117.3 (88.0–150.7) | 8.9 (7.6–10.7) | -- |
| Jakarta | 639.1 (591.5–702.2) | 20.9 (16.4–26.2) | 149.2 (125.1–176.3) | 268.6 (238.8–302.2) | 162.3 (138.9–192.6) | 89.8 (76.3–102.5) | 16.5 (14.1–18.9) | -- | 9.0 (8.3–9.9) | 2.5 (1.9–3.0) | 6.5 (6.0–7.1) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.6 (0.5–0.7) | 58.8 (45.4–74.5) | -- | 109.5 (83.2–141.0) | 9.6 (8.2–11.5) | -- |
| Jambi | 644.0 (599.4–713.9) | 23.7 (18.2–30.1) | 133.4 (114.3–158.7) | 284.9 (257.3–318.4) | 148.9 (128.6–175.0) | 118.5 (100.8–134.7) | 17.6 (15.1–20.1) | -- | 8.5 (7.9–9.3) | 2.0 (1.6–2.4) | 6.5 (6.0–7.1) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.5–0.8) | 56.9 (43.6–71.9) | -- | 113.8 (86.2–145.8) | 9.2 (7.9–10.9) | -- |
| West Java | 643.3 (598.8–713.0) | 22.5 (17.5–28.3) | 149.1 (124.1–180.0) | 266.7 (239.4–299.7) | 150.8 (128.2–179.9) | 99.0 (83.6–112.5) | 17.0 (14.4–19.2) | -- | 8.5 (7.8–9.1) | 2.0 (1.5–2.4) | 6.5 (6.0–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 58.7 (45.3–74.8) | -- | 115.1 (86.8–147.7) | 9.3 (7.9–11.2) | -- |
| Central Java | 635.0 (590.7–695.8) | 22.4 (17.3–28.2) | 128.4 (107.1–152.7) | 281.3 (254.6–315.5) | 149.4 (127.8–176.9) | 113.2 (96.0–129.3) | 18.8 (16.2–21.2) | -- | 8.3 (7.6–9.0) | 1.9 (1.5–2.3) | 6.4 (5.9–6.9) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 58.1 (44.7–72.8) | -- | 113.7 (86.1–145.2) | 9.4 (8.0–11.4) | -- |
| East Java | 616.4 (572.6–679.4) | 22.4 (17.6–27.6) | 131.2 (110.1–158.3) | 260.9 (235.7–294.5) | 137.2 (117.3–163.8) | 106.4 (89.7–121.2) | 17.3 (14.9–19.5) | -- | 8.3 (7.6–8.9) | 1.9 (1.5–2.3) | 6.4 (5.9–6.9) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 57.3 (44.6–73.0) | -- | 113.6 (86.0–145.4) | 9.3 (7.9–11.3) | -- |
| West Kalimantan | 646.8 (599.2–705.6) | 23.8 (18.8–29.5) | 142.0 (119.9–169.7) | 278.7 (251.5–312.1) | 142.0 (121.7–165.7) | 119.0 (102.6–135.1) | 17.6 (15.3–20.1) | -- | 8.3 (7.7–9.1) | 1.9 (1.5–2.3) | 6.5 (6.0–7.0) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.6 (0.5–0.7) | 56.5 (44.0–72.2) | -- | 114.1 (86.0–144.9) | 9.8 (8.4–11.7) | -- |
| South Kalimantan | 683.9 (635.7–744.2) | 24.3 (18.7–30.8) | 139.5 (118.9–167.3) | 314.6 (282.9–349.2) | 159.1 (136.1–188.3) | 137.1 (117.5–156.2) | 18.5 (15.8–21.1) | -- | 8.5 (7.9–9.4) | 2.0 (1.6–2.5) | 6.5 (6.0–7.1) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.5–0.8) | 58.9 (45.9–74.5) | -- | 115.8 (87.1–147.4) | 8.7 (7.4–10.4) | -- |
| Central Kalimantan | 609.2 (564.9–664.9) | 23.4 (18.2–29.2) | 145.8 (122.3–175.5) | 234.8 (210.7–264.8) | 126.5 (107.4–150.9) | 93.7 (79.5–107.4) | 14.6 (12.7–16.8) | -- | 8.7 (8.1–9.5) | 2.1 (1.7–2.5) | 6.6 (6.1–7.1) | -- | 12.9 (10.1–16.2) | 12.9 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 56.8 (43.8–72.6) | -- | 116.7 (89.0–149.7) | 9.5 (8.1–11.2) | -- |
| East Kalimantan | 676.9 (626.3–746.2) | 22.5 (17.2–28.2) | 131.7 (110.5–157.0) | 322.3 (289.6–357.6) | 176.4 (150.0–207.6) | 126.4 (109.0–143.2) | 19.4 (16.5–22.4) | -- | 9.4 (8.7–10.3) | 2.7 (2.1–3.3) | 6.7 (6.2–7.2) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.6 (0.5–0.8) | 59.7 (46.5–75.1) | -- | 108.4 (81.6–140.0) | 9.4 (8.1–11.2) | -- |
| North Kalimantan | 565.3 (524.6–619.6) | 20.6 (15.9–26.0) | 84.0 (69.8–101.1) | 248.5 (222.5–280.2) | 142.1 (119.2–169.5) | 88.0 (74.2–100.2) | 18.3 (15.6–20.9) | -- | 9.3 (8.5–10.2) | 2.7 (2.1–3.3) | 6.6 (6.1–7.2) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.6 (0.5–0.7) | 60.4 (46.7–76.9) | -- | 117.4 (89.3–149.7) | 11.6 (9.9–13.8) | -- |
| Riau Islands | 597.1 (554.1–659.0) | 21.9 (16.9–27.4) | 124.0 (104.1–148.2) | 251.8 (222.9–281.4) | 135.7 (114.0–159.7) | 99.1 (83.5–114.0) | 17.0 (14.6–19.4) | -- | 9.0 (8.3–9.8) | 2.4 (1.9–2.9) | 6.6 (6.1–7.1) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 57.9 (45.0–73.9) | -- | 109.8 (83.1–140.3) | 9.3 (7.9–11.0) | -- |
| Lampung | 622.2 (575.2–681.7) | 22.7 (17.5–29.0) | 119.6 (102.3–144.0) | 277.1 (248.0–311.0) | 145.0 (122.9–171.3) | 113.6 (94.9–128.7) | 18.5 (15.8–20.9) | -- | 8.4 (7.7–9.1) | 1.9 (1.5–2.2) | 6.5 (6.0–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 56.8 (44.0–72.0) | -- | 114.5 (86.3–147.7) | 9.7 (8.3–11.5) | -- |
| Maluku | 671.6 (624.1–741.1) | 24.9 (19.1–31.4) | 124.1 (107.4–147.5) | 320.6 (288.5–357.5) | 159.7 (135.3–187.0) | 140.9 (119.9–160.2) | 20.0 (17.3–22.8) | -- | 7.9 (7.3–8.5) | 1.5 (1.2–1.9) | 6.3 (5.8–6.8) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.6–0.8) | 57.3 (44.5–73.2) | -- | 114.0 (86.3–146.2) | 9.4 (8.1–11.1) | -- |
| North Maluku | 662.1 (613.4–726.4) | 25.2 (19.2–32.9) | 166.0 (144.7–197.6) | 264.4 (237.7–298.0) | 133.8 (115.7–158.7) | 114.8 (97.1–129.9) | 15.9 (13.8–18.1) | -- | 8.1 (7.6–8.8) | 1.7 (1.3–2.0) | 6.5 (6.0–6.9) | -- | 12.9 (10.1–16.2) | 12.9 (10.1–16.2) | -- | -- | 0.7 (0.6–0.8) | 57.2 (44.5–73.3) | -- | 118.1 (88.7–148.4) | 9.4 (8.0–11.1) | -- |
| West Nusa Tenggara | 655.4 (609.9–713.5) | 24.5 (19.2–30.2) | 131.9 (112.0–159.0) | 294.4 (261.8–331.1) | 147.3 (125.6–174.8) | 127.9 (108.6–144.6) | 19.1 (16.4–21.6) | -- | 8.1 (7.5–8.8) | 1.7 (1.4–2.1) | 6.4 (5.9–6.8) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.6–0.8) | 56.7 (43.3–72.4) | -- | 117.1 (88.5–149.4) | 9.1 (7.9–10.8) | -- |
| East Nusa Tenggara | 601.7 (556.5–659.8) | 24.4 (18.8–31.2) | 124.0 (105.5–148.7) | 255.3 (229.8–285.8) | 128.1 (108.3–152.9) | 110.5 (94.2–126.1) | 16.6 (14.0–19.0) | -- | 8.0 (7.5–8.8) | 1.7 (1.3–2.1) | 6.4 (5.9–6.9) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.7 (0.6–0.8) | 54.5 (41.8–68.8) | -- | 112.3 (85.4–141.8) | 9.7 (8.2–11.4) | -- |
| Papua | 629.9 (581.9–690.5) | 23.8 (18.4–29.5) | 144.4 (120.6–172.4) | 266.4 (238.4–299.8) | 131.5 (110.9–156.3) | 119.6 (100.6–137.1) | 15.3 (13.2–17.6) | -- | 8.6 (7.9–9.4) | 1.9 (1.5–2.3) | 6.7 (6.2–7.2) | -- | 13.0 (10.2–16.4) | 13.0 (10.2–16.4) | -- | -- | 0.7 (0.6–0.8) | 55.1 (42.6–69.5) | -- | 109.1 (82.2–141.0) | 8.8 (7.5–10.5) | -- |
| West Papua | 656.0 (609.6–720.0) | 23.8 (18.5–30.4) | 135.1 (113.2–160.2) | 294.1 (263.4–328.4) | 147.4 (126.9–172.7) | 128.5 (109.9–146.6) | 18.2 (15.6–20.9) | -- | 8.7 (8.0–9.5) | 2.1 (1.6–2.5) | 6.7 (6.1–7.2) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.7 (0.6–0.9) | 57.3 (44.8–72.1) | -- | 113.9 (86.9–146.8) | 9.5 (8.1–11.4) | -- |
| Riau | 599.9 (559.6–662.8) | 22.1 (17.6–28.2) | 115.8 (97.5–137.5) | 261.9 (236.0–295.2) | 137.7 (117.5–163.6) | 106.4 (90.2–122.2) | 17.8 (15.2–20.6) | -- | 9.0 (8.3–9.9) | 2.4 (1.9–2.9) | 6.6 (6.1–7.2) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 56.4 (43.7–71.1) | -- | 111.6 (84.9–142.0) | 9.5 (8.1–11.3) | -- |
| West Sulawesi | 645.6 (597.5–714.2) | 25.1 (19.5–31.9) | 140.8 (120.4–166.9) | 275.6 (247.1–308.6) | 132.8 (114.4–158.2) | 125.6 (106.4–144.2) | 17.1 (14.5–19.6) | -- | 8.1 (7.5–8.9) | 1.7 (1.3–2.1) | 6.4 (5.9–6.9) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.7 (0.6–0.8) | 56.4 (43.8–71.7) | -- | 116.9 (88.6–150.2) | 9.1 (7.9–10.8) | -- |
| South Sulawesi | 608.8 (567.4–669.2) | 23.2 (18.0–29.2) | 130.9 (109.0–156.0) | 251.6 (225.6–281.6) | 131.2 (111.8–154.1) | 103.5 (88.3–118.1) | 16.9 (14.7–19.4) | -- | 8.3 (7.6–8.9) | 1.9 (1.5–2.3) | 6.3 (5.9–6.8) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.6 (0.5–0.7) | 57.2 (43.9–72.6) | -- | 114.8 (85.8–148.9) | 9.5 (8.1–11.3) | -- |
| Central Sulawesi | 656.2 (610.0–722.3) | 24.4 (18.8–30.5) | 151.9 (128.9–179.6) | 276.6 (246.7–311.7) | 138.5 (117.8–163.4) | 121.6 (102.5–138.5) | 16.5 (14.4–18.9) | -- | 8.3 (7.7–9.1) | 1.8 (1.4–2.2) | 6.5 (6.0–7.1) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.7 (0.6–0.8) | 56.9 (43.7–72.5) | -- | 115.5 (86.5–148.4) | 8.9 (7.5–10.5) | -- |
| Southeast Sulawesi | 673.8 (627.4–744.6) | 24.5 (18.5–29.6) | 146.7 (125.3–175.7) | 297.4 (267.1–331.0) | 146.6 (124.6–173.6) | 132.4 (113.2–149.5) | 18.4 (15.9–21.1) | -- | 8.2 (7.6–8.9) | 1.8 (1.4–2.1) | 6.5 (6.0–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.7 (0.5–0.8) | 56.9 (44.1–72.4) | -- | 118.2 (89.5–151.5) | 8.5 (7.3–10.1) | -- |
| North Sulawesi | 646.4 (598.8–707.7) | 23.4 (18.2–29.5) | 131.3 (111.6–156.5) | 289.5 (261.5–322.8) | 147.9 (128.3–174.4) | 123.5 (104.1–140.4) | 18.1 (15.6–20.7) | -- | 8.5 (7.8–9.1) | 2.0 (1.5–2.4) | 6.5 (5.9–7.0) | -- | 12.9 (10.1–16.3) | 12.9 (10.1–16.3) | -- | -- | 0.7 (0.6–0.9) | 56.7 (43.2–72.0) | -- | 114.8 (85.5–147.5) | 8.7 (7.4–10.3) | -- |
| West Sumatra | 639.3 (591.3–700.3) | 23.2 (17.9–28.9) | 135.7 (113.4–161.1) | 274.1 (245.5–306.2) | 142.0 (121.9–166.9) | 114.2 (97.3–129.9) | 17.9 (15.2–20.3) | -- | 8.4 (7.7–9.1) | 2.0 (1.5–2.4) | 6.4 (5.9–6.9) | -- | 12.9 (10.1–16.2) | 12.9 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 59.4 (46.0–76.1) | -- | 115.4 (87.6–148.3) | 9.7 (8.3–11.5) | -- |
| South Sumatra | 626.0 (582.6–681.9) | 22.5 (17.5–28.2) | 141.5 (117.7–166.1) | 258.5 (231.4–289.9) | 138.4 (116.5–163.8) | 102.8 (86.0–117.3) | 17.3 (14.9–19.6) | -- | 8.6 (7.9–9.3) | 2.1 (1.6–2.5) | 6.5 (6.0–7.0) | -- | 12.8 (10.1–16.2) | 12.8 (10.1–16.2) | -- | -- | 0.6 (0.5–0.7) | 57.8 (44.6–74.4) | -- | 114.2 (85.5–146.1) | 9.6 (8.1–11.4) | -- |
| North Sumatra | 655.7 (609.5–721.2) | 23.6 (18.5–29.7) | 143.5 (119.3–171.5) | 282.5 (254.2–317.2) | 147.5 (125.9–173.5) | 116.7 (101.8–132.0) | 18.3 (15.7–20.8) | -- | 8.3 (7.7–9.0) | 1.9 (1.5–2.4) | 6.4 (5.8–6.9) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.6 (0.5–0.8) | 57.3 (44.1–73.1) | -- | 118.1 (89.4–151.4) | 8.9 (7.6–10.6) | -- |
| Yogyakarta | 620.1 (577.5–676.8) | 22.9 (17.8–28.6) | 125.1 (104.2–149.0) | 272.4 (244.5–305.7) | 142.1 (121.0–168.3) | 111.8 (94.3–126.5) | 18.5 (15.8–21.1) | -- | 8.2 (7.6–8.9) | 1.9 (1.4–2.2) | 6.4 (5.9–6.9) | -- | 12.8 (10.0–16.2) | 12.8 (10.0–16.2) | -- | -- | 0.6 (0.5–0.7) | 56.6 (43.9–72.3) | -- | 112.2 (83.8–143.4) | 9.4 (8.0–11.3) | -- |
| Democratic Republic | 605.4 (566.9–656.8) | 26.5 (20.1–33.8) | 127.5 (110.0–148.9) | 259.7 (237.6–283.7) | 125.8 (108.8–143.9) | 117.7 (104.9–130.1) | 16.2 (14.4–18.4) | -- | 7.9 (6.6–9.6) | 1.6 (1.3–2.0) | 6.3 (5.0–7.9) | -- | 11.7 (9.1–14.5) | 11.7 (9.1–14.5) | -- | -- | 0.7 (0.6–0.8) | 49.3 (37.7–63.4) | -- | 111.4 (84.4–142.1) | 10.8 (9.2–12.6) | -- |
| Malaysia | 522.1 (490.3–565.2) | 13.9 (10.8–17.0) | 138.8 (120.1–155.7) | 171.7 (158.2–187.9) | 97.7 (87.1–111.1) | 61.1 (54.7–67.7) | 13.0 (11.3–14.9) | -- | 10.6 (9.1–12.7) | 3.1 (2.5–3.6) | 7.5 (6.1–9.6) | -- | 11.7 (9.1–14.7) | 11.7 (9.1–14.7) | -- | -- | 0.5 (0.4–0.6) | 52.4 (40.1–66.9) | -- | 105.3 (79.4–134.4) | 17.1 (14.9–19.7) | -- |
| Maldives | 483.4 (452.7–526.4) | 19.3 (15.1–24.2) | 109.3 (94.4–125.5) | 161.7 (148.3–177.0) | 93.3 (82.3–105.7) | 55.4 (49.4–61.3) | 13.1 (11.5–15.0) | -- | 12.9 (11.2–15.1) | 4.1 (3.2–4.8) | 8.8 (7.2–10.8) | -- | 12.2 (9.4–15.3) | 12.2 (9.4–15.3) | -- | -- | 0.5 (0.4–0.6) | 49.4 (37.7–63.6) | -- | 107.2 (80.5–137.6) | 10.9 (9.3–13.0) | -- |
| Mauritius | 487.8 (457.7–532.2) | 20.0 (15.5–24.5) | 118.6 (103.1–136.1) | 152.2 (140.6–168.0) | 94.9 (83.6–108.6) | 39.7 (36.2–43.2) | 17.6 (15.6–19.4) | -- | 9.3 (8.1–11.0) | 3.0 (2.4–3.6) | 6.3 (5.0–7.8) | -- | 11.6 (9.0–14.5) | 11.6 (9.0–14.5) | -- | -- | 0.7 (0.6–0.9) | 51.2 (39.1–65.4) | -- | 110.9 (83.1–141.4) | 13.3 (11.5–15.3) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Myanmar | 580.9 (541.8–629.0) | 29.0 (22.5–35.9) | 124.8 (109.2–142.0) | 236.3 (217.5–256.1) | 117.0 (102.7–132.6) | 103.4 (92.6–113.1) | 15.9 (14.0–17.9) | -- | 7.9 (6.6–9.6) | 1.8 (1.4–2.1) | 6.1 (4.9–7.7) | -- | 11.5 (9.0–14.4) | 11.5 (9.0–14.4) | -- | -- | 0.6 (0.5–0.7) | 49.9 (37.9–63.7) | -- | 111.2 (85.0–141.6) | 9.6 (8.2–11.2) | -- |
| Philippines | 572.2 (529.8–626.7) | 20.9 (16.3–25.9) | 173.4 (147.7–206.0) | 181.2 (163.5–202.8) | 96.3 (83.0–113.4) | 70.4 (60.1–79.9) | 14.6 (12.5–16.5) | -- | 7.2 (6.7–7.8) | 1.7 (1.3–2.0) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.8 (41.6–68.1) | -- | 111.9 (84.9–143.3) | 10.6 (9.1–12.7) | -- |
| Abra | 556.4 (516.3–607.3) | 20.7 (16.1–25.8) | 136.1 (114.9–162.3) | 204.2 (182.7–228.1) | 106.5 (90.7–125.8) | 82.4 (70.3–94.1) | 15.3 (12.9–17.5) | -- | 7.3 (6.8–8.0) | 1.8 (1.4–2.2) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.6 (42.1–70.2) | -- | 108.8 (82.8–139.6) | 11.5 (9.9–13.6) | -- |
| Agusan Del Norte | 532.0 (494.4–581.3) | 21.3 (16.3–26.7) | 133.2 (117.0–155.4) | 182.6 (164.0–205.4) | 96.3 (83.0–114.4) | 71.0 (60.7–81.6) | 15.3 (13.2–17.6) | -- | 7.0 (6.5–7.6) | 1.5 (1.2–1.8) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 52.7 (41.0–67.1) | -- | 113.1 (85.9–144.6) | 8.9 (7.5–10.6) | -- |
| Agusan Del Sur | 614.9 (570.5–667.9) | 21.9 (16.8–27.7) | 184.9 (153.1–217.6) | 213.0 (192.4–236.7) | 113.7 (98.0–132.6) | 84.7 (72.9–94.6) | 14.5 (12.4–16.6) | -- | 7.2 (6.7–7.8) | 1.5 (1.2–1.8) | 5.7 (5.2–6.1) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 52.8 (40.9–68.1) | -- | 111.1 (84.4–142.7) | 10.8 (9.3–12.8) | -- |
| Aklan | 533.0 (494.1–578.5) | 21.1 (16.3–26.2) | 140.5 (119.9–164.4) | 171.8 (155.1–192.6) | 97.3 (82.9–113.9) | 60.6 (51.5–68.8) | 14.0 (12.0–15.9) | -- | 7.2 (6.6–7.8) | 1.7 (1.3–2.1) | 5.5 (5.0–5.8) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.4 (42.2–69.4) | -- | 113.0 (85.4–143.6) | 12.1 (10.4–14.5) | -- |
| Albay | 594.2 (549.6–649.2) | 21.5 (16.8–26.6) | 180.7 (150.5–213.0) | 196.3 (176.6–219.0) | 98.5 (83.1–115.3) | 83.3 (71.2–95.1) | 14.4 (12.3–16.4) | -- | 7.0 (6.5–7.7) | 1.6 (1.2–1.9) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.0 (41.6–68.6) | -- | 111.7 (84.0–144.7) | 9.8 (8.5–11.7) | -- |
| Antique | 520.5 (482.1–569.3) | 21.8 (16.8–27.2) | 125.1 (109.3–145.5) | 174.2 (157.4–196.0) | 93.5 (79.5–111.4) | 66.3 (56.6–76.2) | 14.4 (12.4–16.4) | -- | 7.1 (6.5–7.7) | 1.6 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 53.5 (40.9–68.7) | -- | 110.7 (84.4–142.3) | 15.0 (12.8–17.8) | -- |
| Apayao | 518.7 (483.5–563.9) | 21.1 (16.4–26.6) | 131.3 (112.0–154.3) | 169.0 (152.2–188.6) | 84.5 (71.9–100.0) | 69.8 (58.9–79.7) | 14.6 (12.4–16.7) | -- | 8.0 (7.3–8.7) | 2.1 (1.6–2.5) | 5.9 (5.4–6.3) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 53.8 (41.4–69.5) | -- | 109.4 (83.7–140.1) | 13.1 (11.3–15.7) | -- |
| Aurora | 588.2 (546.9–642.0) | 21.6 (16.5–27.4) | 164.9 (137.2–199.2) | 204.4 (183.5–230.9) | 108.3 (92.5–128.4) | 81.3 (69.5–92.5) | 14.8 (12.7–16.9) | -- | 7.3 (6.7–7.9) | 1.6 (1.3–2.0) | 5.7 (5.2–6.1) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.8) | 53.6 (41.2–69.5) | -- | 111.5 (84.8–142.6) | 11.7 (10.0–14.0) | -- |
| Basilan | 656.0 (602.6–718.5) | 21.2 (16.6–26.4) | 237.0 (196.5–282.8) | 206.6 (183.9–230.6) | 109.5 (93.2–129.4) | 83.8 (71.2–96.5) | 13.4 (11.5–15.2) | -- | 7.7 (7.1–8.4) | 1.9 (1.5–2.3) | 5.8 (5.4–6.3) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.1 (40.7–66.5) | -- | 108.5 (82.3–140.2) | 8.7 (7.2–10.6) | -- |
| Bataan | 574.0 (527.5–629.4) | 20.6 (16.0–26.2) | 189.3 (157.1–224.3) | 165.8 (149.7–184.4) | 90.6 (77.3–108.0) | 60.3 (50.8–68.7) | 14.8 (12.7–16.8) | -- | 7.2 (6.7–7.8) | 1.7 (1.3–2.1) | 5.5 (5.0–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.0 (42.3–70.1) | -- | 113.5 (86.9–145.3) | 10.6 (9.0–12.7) | -- |
| Batanes | 525.7 (486.6–580.3) | 20.3 (15.7–25.3) | 134.7 (112.4–158.7) | 170.3 (153.3–191.2) | 86.9 (73.6–103.5) | 70.9 (60.1–80.9) | 12.5 (10.8–14.3) | -- | 8.5 (7.7–9.2) | 2.7 (2.1–3.3) | 5.8 (5.4–6.2) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.8) | 55.6 (42.8–70.3) | -- | 113.0 (86.2–146.7) | 10.1 (8.5–12.1) | -- |
| Batangas | 578.8 (537.5–632.5) | 20.2 (15.8–25.1) | 177.6 (148.8–213.3) | 181.2 (163.9–200.9) | 98.4 (84.3–114.9) | 67.2 (57.0–76.8) | 15.6 (13.4–17.8) | -- | 7.3 (6.8–8.0) | 1.9 (1.5–2.3) | 5.4 (5.0–5.8) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.6 (42.7–68.7) | -- | 112.6 (85.1–144.8) | 12.2 (10.5–14.4) | -- |
| Benguet | 528.9 (488.5–578.5) | 19.9 (15.5–25.0) | 148.5 (127.0–178.6) | 163.8 (146.3–185.1) | 88.4 (75.2–105.6) | 60.3 (51.4–69.6) | 15.0 (13.0–17.1) | -- | 7.4 (6.8–8.1) | 1.9 (1.5–2.3) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.9 (41.5–68.2) | -- | 111.3 (84.1–143.7) | 11.0 (9.4–13.3) | -- |
| Biliran | 523.3 (485.9–573.9) | 21.6 (16.8–27.3) | 137.0 (116.5–164.5) | 167.2 (149.1–185.7) | 89.7 (76.3–105.7) | 64.9 (55.2–75.0) | 12.6 (10.7–14.3) | -- | 7.4 (6.9–8.1) | 1.7 (1.3–2.1) | 5.7 (5.3–6.1) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 54.3 (42.2–69.6) | -- | 113.0 (85.6–142.3) | 9.7 (8.2–11.6) | -- |
| Bohol | 552.1 (511.6–603.2) | 20.8 (16.2–25.9) | 149.8 (128.4–177.5) | 186.9 (167.2–209.6) | 102.7 (87.1–121.8) | 69.2 (59.4–78.5) | 15.0 (12.8–17.2) | -- | 7.1 (6.5–7.6) | 1.6 (1.2–1.9) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.9) | 53.6 (41.7–67.6) | -- | 110.2 (82.9–141.0) | 10.6 (9.1–12.5) | -- |
| Bukidnon | 592.5 (545.2–651.3) | 21.6 (16.8–27.2) | 177.8 (149.8–211.1) | 202.1 (180.1–226.8) | 108.1 (91.5–127.5) | 78.5 (66.3–89.2) | 15.5 (13.1–17.6) | -- | 7.0 (6.5–7.7) | 1.5 (1.2–1.8) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 52.7 (40.5–67.1) | -- | 108.4 (81.7–139.0) | 9.5 (8.1–11.2) | -- |
| Bulacan | 618.2 (570.0–680.0) | 20.5 (15.8–25.4) | 207.4 (173.0–246.0) | 192.3 (173.5–213.1) | 101.8 (86.9–121.1) | 76.0 (65.4–86.8) | 14.5 (12.2–16.5) | -- | 7.1 (6.6–7.7) | 1.7 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.2 (41.9–68.1) | -- | 112.3 (86.0–143.6) | 11.3 (9.7–13.4) | -- |
| Cagayan | 553.7 (513.1–607.9) | 21.3 (16.6–27.2) | 164.0 (139.6–197.4) | 173.7 (157.1–193.4) | 88.0 (75.9–104.4) | 70.0 (59.8–79.8) | 15.7 (13.4–18.1) | -- | 7.1 (6.5–7.7) | 1.6 (1.2–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.5 (41.7–69.1) | -- | 108.4 (81.2–138.5) | 11.6 (10.0–13.7) | -- |
| Camarines Norte | 616.1 (567.3–674.5) | 21.8 (16.6–27.6) | 198.4 (165.9–236.2) | 200.2 (178.8–223.6) | 106.0 (90.2–123.6) | 80.0 (68.5–91.0) | 14.2 (12.1–16.2) | -- | 7.2 (6.7–7.8) | 1.7 (1.3–2.0) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.5 (41.8–67.5) | -- | 111.6 (85.0–142.2) | 10.2 (8.8–12.2) | -- |
| Camarines Sur | 605.8 (560.2–664.0) | 21.5 (16.7–26.7) | 186.9 (154.4–223.2) | 199.6 (180.5–222.5) | 101.2 (86.3–118.5) | 82.9 (71.1–94.0) | 15.5 (13.2–17.7) | -- | 7.9 (7.3–8.5) | 1.9 (1.5–2.3) | 6.0 (5.5–6.4) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.9) | 53.7 (41.4–68.1) | -- | 110.7 (84.3–144.3) | 12.3 (10.5–14.6) | -- |
| Camiguin | 540.5 (499.8–592.2) | 21.0 (16.2–26.1) | 147.0 (126.3–176.0) | 173.6 (156.5–196.6) | 92.1 (78.1–108.1) | 67.1 (56.4–76.8) | 14.4 (12.3–16.4) | -- | 7.0 (6.5–7.6) | 1.5 (1.2–1.9) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.3 (40.8–68.3) | -- | 111.5 (85.2–142.7) | 13.9 (11.9–16.3) | -- |
| Capiz | 567.9 (523.3–622.5) | 21.7 (17.0–26.8) | 179.2 (149.0–212.7) | 172.7 (154.8–193.1) | 91.5 (78.3–108.5) | 66.1 (55.7–75.6) | 15.2 (12.9–17.4) | -- | 7.2 (6.6–7.8) | 1.8 (1.4–2.1) | 5.4 (5.0–5.8) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 53.4 (40.9–67.7) | -- | 110.6 (84.5–141.2) | 9.9 (8.4–11.7) | -- |
| Catanduanes | 576.3 (535.9–630.6) | 21.5 (16.8–26.8) | 161.9 (136.8–193.2) | 199.0 (177.9–222.1) | 102.6 (87.4–122.3) | 82.8 (70.1–94.3) | 13.6 (11.6–15.6) | -- | 7.1 (6.5–7.7) | 1.5 (1.2–1.9) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 54.6 (42.2–69.7) | -- | 110.3 (82.8–141.3) | 8.6 (7.3–10.5) | -- |
| Cavite | 571.9 (525.5–632.8) | 19.7 (15.3–24.8) | 190.6 (159.7–229.3) | 163.6 (146.4–183.6) | 89.4 (75.9–105.7) | 59.6 (51.0–67.7) | 14.5 (12.4–16.4) | -- | 7.2 (6.7–7.8) | 1.8 (1.4–2.2) | 5.4 (5.0–5.9) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.3 (42.0–68.5) | -- | 112.7 (85.0–145.7) | 10.7 (9.2–12.8) | -- |
| Cebu | 556.1 (518.2–609.7) | 20.8 (15.9–26.2) | 170.2 (148.0–201.9) | 170.1 (152.6–191.5) | 91.2 (78.4–109.6) | 65.6 (55.8–74.8) | 13.3 (11.4–15.1) | -- | 7.2 (6.6–7.8) | 1.7 (1.3–2.0) | 5.5 (5.0–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.5 (41.4–68.5) | -- | 112.0 (84.3–143.7) | 9.3 (8.0–11.1) | -- |
| (North Cotabato) | 609.9 (562.4–667.6) | 21.6 (16.8–27.4) | 179.7 (149.7–212.2) | 214.0 (191.6–238.7) | 107.5 (91.4–127.1) | 91.3 (77.5–102.6) | 15.3 (13.2–17.5) | -- | 6.9 (6.4–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 52.8 (40.9–67.2) | -- | 110.9 (85.6–141.8) | 10.9 (9.3–12.9) | -- |
| Davao de Oro | 568.2 (526.9–622.2) | 21.6 (16.6–27.4) | 158.3 (135.1–185.3) | 196.6 (176.1–220.3) | 105.3 (90.1–124.0) | 78.5 (66.8–89.4) | 12.8 (10.9–14.7) | -- | 7.1 (6.5–7.7) | 1.5 (1.2–1.8) | 5.6 (5.1–6.0) | -- | 12.6 (9.8–15.7) | 12.6 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 52.6 (40.6–66.3) | -- | 110.1 (82.3–142.3) | 8.8 (7.4–10.7) | -- |
| Davao Del Norte | 623.5 (575.4–683.8) | 21.8 (17.0–27.7) | 211.5 (177.2–248.3) | 194.9 (173.3–218.7) | 98.0 (83.8–115.6) | 83.1 (70.7–95.0) | 13.8 (11.9–15.8) | -- | 7.1 (6.5–7.7) | 1.5 (1.2–1.9) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.1 (40.8–67.2) | -- | 112.4 (84.7–145.0) | 9.4 (8.0–11.2) | -- |
| Davao Del Sur | 488.7 (454.2–538.2) | 21.0 (16.3–26.2) | 104.7 (93.4–119.8) | 171.4 (153.7–191.9) | 92.5 (79.4–109.6) | 65.8 (55.9–75.1) | 13.1 (11.2–15.3) | -- | 7.0 (6.4–7.5) | 1.5 (1.1–1.8) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 52.3 (40.7–66.5) | -- | 111.3 (84.8–141.5) | 7.9 (6.6–9.4) | -- |
| Davao Occidental | 631.0 (582.0–687.5) | 23.5 (18.0–29.9) | 175.2 (146.0–206.4) | 235.1 (211.8–261.2) | 109.2 (92.4–128.7) | 110.1 (93.7–124.0) | 15.8 (13.5–18.0) | -- | 7.3 (6.8–8.0) | 1.6 (1.3–2.0) | 5.7 (5.2–6.1) | -- | 12.6 (9.8–15.7) | 12.6 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 53.4 (41.4–68.5) | -- | 113.2 (85.6–145.8) | 10.1 (8.7–12.0) | -- |
| Davao Oriental | 602.1 (557.4–656.5) | 21.7 (16.9–27.1) | 173.2 (145.6–208.7) | 214.0 (191.8–240.6) | 111.1 (94.9–129.9) | 89.1 (75.6–101.5) | 13.8 (11.7–15.6) | -- | 6.9 (6.4–7.4) | 1.4 (1.1–1.7) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 52.6 (41.1–66.5) | -- | 111.7 (83.7–144.8) | 9.0 (7.7–10.9) | -- |
| Dinagat Islands | 552.9 (510.0–606.5) | 21.4 (16.7–26.7) | 148.0 (123.9–176.3) | 185.1 (164.3–207.2) | 103.6 (87.5–122.4) | 67.4 (57.4–76.5) | 14.2 (12.1–16.2) | -- | 7.6 (7.1–8.2) | 2.1 (1.6–2.6) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.2 (41.7–68.5) | -- | 112.5 (86.1–145.0) | 10.9 (9.5–13.0) | -- |
| Eastern Samar | 577.7 (531.6–632.0) | 21.4 (16.6–27.1) | 181.3 (150.4–213.4) | 180.3 (162.5–201.5) | 98.0 (84.3–116.7) | 69.1 (58.3–78.6) | 13.2 (11.3–15.2) | -- | 6.9 (6.4–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 53.4 (41.2–67.6) | -- | 111.4 (84.6–146.9) | 9.7 (8.4–11.6) | -- |
| Guimaras | 511.2 (473.2–563.4) | 20.9 (16.3–26.0) | 127.4 (106.8–149.0) | 159.2 (142.3–178.7) | 85.4 (72.9–100.1) | 60.7 (51.5–69.5) | 13.1 (11.2–14.9) | -- | 7.5 (6.8–8.1) | 1.7 (1.3–2.1) | 5.7 (5.2–6.1) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 53.8 (41.9–67.9) | -- | 110.5 (82.4–141.6) | 18.8 (16.3–22.0) | -- |
| Ifugao | 516.8 (481.2–566.7) | 21.2 (16.4–26.7) | 137.1 (115.4–161.1) | 166.8 (150.3–187.6) | 90.2 (77.7–107.1) | 64.0 (54.5–72.9) | 12.6 (10.7–14.4) | -- | 7.4 (6.8–8.1) | 1.8 (1.4–2.2) | 5.6 (5.1–6.0) | -- | 12.6 (9.8–15.7) | 12.6 (9.8–15.7) | -- | -- | 0.6 (0.5–0.8) | 53.6 (41.5–67.9) | -- | 106.9 (80.5–137.0) | 10.6 (9.0–12.6) | -- |
| Ilocos Norte | 538.3 (499.7–587.6) | 20.6 (15.8–25.4) | 145.3 (122.7–170.2) | 173.0 (156.2–195.0) | 89.8 (77.5–107.4) | 67.1 (56.8–76.2) | 16.1 (13.7–18.6) | -- | 7.4 (6.8–8.1) | 2.0 (1.5–2.3) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.5 (42.1–68.9) | -- | 110.8 (84.2–143.7) | 13.5 (11.7–15.9) | -- |
| Ilocos Sur | 527.0 (488.1–573.4) | 20.5 (15.7–25.5) | 134.6 (113.1–162.3) | 174.5 (157.5–198.2) | 91.3 (77.7–108.5) | 67.6 (57.9–76.7) | 15.6 (13.4–18.0) | -- | 7.2 (6.6–7.7) | 1.6 (1.3–1.9) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.4 (41.9–69.4) | -- | 110.0 (83.4–142.5) | 12.8 (10.9–15.1) | -- |
| Iloilo | 503.8 (465.9–548.4) | 20.9 (16.3–26.6) | 132.3 (114.6–155.8) | 152.1 (137.8–170.2) | 81.0 (69.2–94.9) | 57.2 (48.6–65.2) | 13.9 (11.8–16.0) | -- | 7.2 (6.6–7.8) | 1.7 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.5–0.8) | 53.7 (41.5–68.0) | -- | 112.1 (84.1–144.5) | 12.3 (10.6–14.6) | -- |
| Isabela | 548.9 (509.1–603.8) | 20.8 (16.1–26.1) | 161.8 (136.3–194.6) | 170.6 (152.9–191.8) | 86.8 (73.6–102.2) | 68.4 (58.2–78.6) | 15.3 (13.1–17.5) | -- | 7.3 (6.7–7.9) | 1.8 (1.4–2.2) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.4 (41.3–68.8) | -- | 109.3 (82.3–140.1) | 11.7 (10.0–13.7) | -- |
| Kalinga | 516.2 (479.0–569.1) | 20.8 (16.3–25.4) | 122.9 (106.1–145.9) | 175.5 (156.7–197.7) | 95.4 (80.8–113.0) | 64.9 (54.6–75.1) | 15.2 (13.0–17.3) | -- | 7.6 (7.0–8.3) | 2.0 (1.6–2.5) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 53.1 (40.7–68.0) | -- | 108.2 (81.2–138.6) | 15.0 (12.8–17.7) | -- |
| La Union | 550.5 (510.4–606.3) | 20.8 (15.9–26.0) | 149.7 (126.4–178.4) | 181.1 (163.5–202.8) | 93.1 (79.2–110.2) | 71.8 (61.2–81.7) | 16.3 (14.0–18.5) | -- | 7.4 (6.9–8.1) | 2.0 (1.5–2.3) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 54.3 (42.4–68.9) | -- | 110.4 (83.3–143.1) | 13.6 (11.7–16.1) | -- |
| Laguna | 602.8 (556.6–665.3) | 20.4 (15.8–25.4) | 199.6 (167.0–241.2) | 183.0 (164.3–205.0) | 97.7 (83.4–115.2) | 71.0 (60.5–81.1) | 14.3 (12.3–16.4) | -- | 7.1 (6.6–7.8) | 1.7 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.3 (42.0–68.7) | -- | 114.0 (86.2–145.6) | 11.4 (9.7–13.6) | -- |
| Lanao Del Norte | 544.8 (505.5–592.9) | 20.8 (16.3–26.2) | 162.3 (136.5–193.3) | 168.7 (151.0–189.7) | 89.4 (75.9–106.4) | 65.1 (55.4–74.2) | 14.2 (12.1–16.1) | -- | 7.1 (6.5–7.7) | 1.6 (1.2–1.9) | 5.5 (5.0–5.9) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.7) | 52.6 (40.5–66.9) | -- | 110.8 (83.9–142.5) | 9.5 (8.1–11.5) | -- |
| Lanao Del Sur | 577.0 (530.6–637.0) | 20.5 (16.1–25.5) | 167.9 (143.1–200.8) | 196.5 (176.9–223.0) | 100.9 (84.1–120.4) | 81.6 (68.2–94.3) | 14.0 (12.1–16.0) | -- | 7.2 (6.6–7.9) | 1.5 (1.2–1.8) | 5.7 (5.2–6.2) | -- | 12.4 (9.7–15.5) | 12.4 (9.7–15.5) | -- | -- | 0.7 (0.6–0.8) | 52.1 (39.8–67.7) | -- | 109.8 (83.4–143.0) | 10.0 (8.4–11.8) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Leyte | 533.8 (491.1–577.7) | 21.6 (16.7–26.5) | 154.4 (128.5–184.9) | 163.4 (145.5–184.5) | 88.4 (75.4–106.1) | 61.6 (52.4–70.5) | 13.5 (11.5–15.3) | -- | 7.0 (6.4–7.6) | 1.5 (1.1–1.8) | 5.5 (5.0–5.8) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.4 (41.5–67.9) | -- | 111.4 (83.7–142.2) | 9.5 (8.1–11.3) | -- |
| Maguindanao | 630.8 (580.6–694.8) | 22.0 (17.1–27.1) | 188.2 (155.7–221.3) | 227.5 (201.1–255.8) | 114.6 (96.7–135.7) | 97.5 (83.4–110.4) | 15.5 (13.4–17.6) | -- | 7.2 (6.6–7.8) | 1.5 (1.1–1.8) | 5.7 (5.2–6.1) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 51.9 (40.0–66.3) | -- | 108.9 (83.6–140.4) | 12.0 (10.2–14.3) | -- |
| Marinduque | 577.5 (537.9–628.3) | 21.4 (16.5–26.9) | 148.8 (127.4–177.3) | 212.1 (190.6–237.2) | 114.8 (98.4–137.2) | 83.7 (72.3–94.7) | 13.6 (11.5–15.5) | -- | 7.1 (6.5–7.7) | 1.5 (1.2–1.9) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 53.6 (41.7–68.2) | -- | 111.4 (84.2–142.3) | 9.8 (8.4–11.8) | -- |
| Masbate | 613.5 (571.0–666.7) | 22.4 (17.2–27.8) | 176.4 (147.5–210.6) | 221.0 (198.3–247.2) | 115.5 (98.0–137.0) | 90.9 (77.7–103.3) | 14.6 (12.5–16.6) | -- | 6.8 (6.3–7.4) | 1.4 (1.1–1.7) | 5.4 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.0 (41.3–67.6) | -- | 111.5 (85.2–143.5) | 9.2 (7.8–10.8) | -- |
| Misamis Occidental | 564.6 (521.2–619.7) | 22.0 (16.7–27.9) | 171.5 (143.9–205.6) | 174.4 (157.0–195.6) | 94.9 (81.3–111.9) | 65.6 (55.2–75.3) | 13.9 (12.0–16.0) | -- | 6.9 (6.4–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 54.0 (42.0–69.8) | -- | 113.2 (85.7–145.9) | 9.4 (8.0–11.3) | -- |
| Misamis Oriental | 551.7 (513.6–606.5) | 20.8 (16.2–26.2) | 175.6 (150.9–206.8) | 160.7 (143.7–181.1) | 87.8 (74.8–104.5) | 58.8 (49.9–67.2) | 14.2 (12.2–16.3) | -- | 7.3 (6.7–7.9) | 1.8 (1.4–2.1) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.4 (41.5–68.6) | -- | 112.6 (84.3–145.2) | 8.1 (6.8–9.7) | -- |
| Mountain Province | 554.1 (512.7–609.2) | 21.3 (16.4–26.5) | 139.3 (116.9–167.0) | 199.0 (178.7–225.4) | 108.9 (92.4–129.7) | 76.0 (64.6–86.6) | 14.0 (12.0–16.1) | -- | 7.4 (6.8–8.0) | 1.7 (1.3–2.0) | 5.7 (5.3–6.1) | -- | 12.6 (9.8–15.8) | 12.6 (9.8–15.8) | -- | -- | 0.6 (0.5–0.8) | 54.0 (41.7–68.5) | -- | 109.1 (81.9–138.2) | 10.9 (9.3–12.9) | -- |
| Capital Region | 592.5 (547.1–657.7) | 20.5 (15.8–25.9) | 201.9 (171.1–236.9) | 169.4 (153.2–190.8) | 92.3 (79.5–108.7) | 61.5 (52.1–70.0) | 15.6 (13.5–17.7) | -- | 7.7 (7.0–8.3) | 2.2 (1.7–2.7) | 5.5 (5.0–5.9) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.6 (42.0–70.5) | -- | 114.3 (87.5–145.4) | 11.1 (9.5–13.4) | -- |
| Negros Occidental | 536.8 (496.9–585.6) | 21.5 (16.7–27.2) | 149.0 (128.3–177.0) | 169.5 (152.5–188.2) | 90.7 (76.9–106.9) | 64.8 (54.9–73.4) | 14.0 (12.0–15.9) | -- | 6.9 (6.4–7.4) | 1.4 (1.1–1.7) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 53.8 (41.8–68.3) | -- | 112.3 (86.1–143.2) | 10.7 (9.2–12.6) | -- |
| Negros Oriental | 561.6 (517.6–617.8) | 21.3 (16.5–27.1) | 164.1 (139.0–198.4) | 180.2 (162.2–202.7) | 98.7 (83.5–116.9) | 67.1 (56.1–76.6) | 14.4 (12.2–16.6) | -- | 7.1 (6.6–7.7) | 1.5 (1.2–1.9) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.1 (40.5–67.1) | -- | 110.8 (83.3–141.6) | 11.8 (10.1–13.8) | -- |
| Northern Samar | 571.4 (531.7–628.1) | 22.3 (17.5–27.9) | 154.2 (130.7–182.9) | 203.0 (180.4–229.5) | 106.3 (89.5–125.9) | 83.9 (72.0–95.8) | 12.7 (11.0–14.5) | -- | 6.9 (6.4–7.4) | 1.4 (1.1–1.7) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.9) | 52.7 (41.0–66.5) | -- | 109.6 (83.6–140.7) | 9.5 (8.2–11.4) | -- |
| Nueva Ecija | 616.3 (568.5–673.7) | 21.0 (16.4–26.4) | 188.3 (157.6–219.9) | 209.5 (188.6–233.6) | 109.2 (93.1–128.4) | 84.5 (72.1–95.4) | 15.8 (13.6–18.0) | -- | 7.3 (6.7–7.9) | 1.8 (1.4–2.2) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.3 (42.1–68.8) | -- | 112.0 (84.5–144.2) | 10.8 (9.3–12.9) | -- |
| Nueva Vizcaya | 543.6 (504.4–601.2) | 20.6 (16.0–25.8) | 145.7 (121.2–172.0) | 181.2 (163.5–203.1) | 93.3 (79.4–110.1) | 72.6 (61.7–83.1) | 15.3 (13.1–17.5) | -- | 7.3 (6.7–7.9) | 1.6 (1.3–2.0) | 5.6 (5.2–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.8) | 54.6 (41.9–68.8) | -- | 109.7 (82.7–140.1) | 11.5 (9.9–13.8) | -- |
| Occidental Mindoro | 566.9 (527.9–623.5) | 21.6 (16.8–27.4) | 162.1 (138.1–195.5) | 187.8 (167.4–210.1) | 95.9 (81.0–113.5) | 78.6 (66.1–90.1) | 13.2 (11.3–15.4) | -- | 7.2 (6.7–7.8) | 1.7 (1.3–2.0) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.0 (41.3–67.0) | -- | 110.7 (83.6–141.7) | 11.3 (9.5–13.4) | -- |
| Oriental Mindoro | 582.7 (538.1–639.0) | 21.8 (16.8–27.6) | 160.0 (136.9–192.3) | 203.0 (183.0–227.5) | 107.4 (92.1–127.1) | 80.4 (69.3–91.7) | 15.1 (12.8–17.4) | -- | 7.3 (6.7–7.9) | 1.8 (1.4–2.1) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.9) | 53.7 (41.2–68.3) | -- | 111.3 (84.8–141.9) | 12.5 (10.9–14.8) | -- |
| Palawan | 541.5 (504.3–598.2) | 21.3 (16.5–26.2) | 150.3 (128.8–174.6) | 176.9 (158.2–198.7) | 95.9 (80.8–113.1) | 67.8 (57.6–77.9) | 13.3 (11.5–15.2) | -- | 7.0 (6.4–7.6) | 1.4 (1.1–1.7) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 52.6 (41.1–66.9) | -- | 110.6 (84.0–140.9) | 9.6 (8.1–11.4) | -- |
| Pampanga | 575.8 (531.4–632.3) | 19.7 (15.1–24.3) | 190.8 (159.6–226.0) | 169.1 (152.5–188.5) | 90.7 (77.2–106.4) | 64.5 (55.0–73.7) | 14.0 (12.0–16.1) | -- | 7.2 (6.7–7.8) | 1.7 (1.3–2.0) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 54.2 (41.8–69.2) | -- | 112.2 (86.0–143.4) | 9.5 (8.0–11.3) | -- |
| Pangasinan | 590.2 (546.1–647.5) | 20.9 (16.2–26.6) | 175.9 (146.9–204.0) | 198.6 (179.3–224.6) | 101.3 (85.9–119.1) | 82.1 (69.7–93.4) | 15.2 (12.7–17.3) | -- | 7.1 (6.6–7.7) | 1.6 (1.2–1.9) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.0 (41.2–69.2) | -- | 110.6 (83.3–143.2) | 10.0 (8.6–11.8) | -- |
| Quezon | 602.1 (556.4–660.4) | 21.1 (16.5–27.3) | 193.5 (161.1–230.1) | 192.3 (173.2–215.4) | 101.3 (85.6–120.0) | 76.7 (65.3–87.8) | 14.3 (12.2–16.2) | -- | 6.9 (6.4–7.5) | 1.5 (1.1–1.8) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.9 (42.3–67.9) | -- | 111.5 (84.5–144.2) | 9.8 (8.4–11.7) | -- |
| Quirino | 539.7 (501.0–593.4) | 21.3 (16.7–26.7) | 147.1 (124.9–177.5) | 178.6 (159.6–202.0) | 93.4 (78.0–111.7) | 70.2 (59.6–80.7) | 15.0 (12.8–17.3) | -- | 7.2 (6.7–7.8) | 1.6 (1.2–1.9) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 53.7 (41.1–68.2) | -- | 108.6 (82.3–138.8) | 10.0 (8.5–11.9) | -- |
| Rizal | 608.8 (560.9–669.8) | 20.0 (15.5–25.1) | 216.3 (182.9–257.1) | 174.8 (158.5–194.9) | 94.0 (81.4–110.7) | 67.1 (56.9–76.8) | 13.7 (11.8–15.6) | -- | 7.1 (6.6–7.8) | 1.7 (1.3–2.1) | 5.5 (5.0–5.9) | -- | 12.5 (9.7–15.6) | 12.5 (9.7–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.8 (41.2–68.6) | -- | 112.2 (84.5–144.8) | 11.3 (9.7–13.4) | -- |
| Romblon | 529.7 (490.1–578.1) | 21.5 (16.7–27.5) | 128.6 (110.9–148.9) | 183.2 (164.0–205.6) | 98.7 (83.8–115.5) | 71.0 (60.8–80.8) | 13.5 (11.7–15.6) | -- | 7.0 (6.5–7.6) | 1.6 (1.2–1.9) | 5.4 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.3 (41.1–68.0) | -- | 111.3 (83.1–143.6) | 11.6 (10.0–13.7) | -- |
| (Western Samar) | 599.8 (554.6–660.0) | 21.8 (16.7–27.3) | 177.8 (148.7–211.6) | 206.9 (183.6–234.0) | 113.7 (96.1–134.9) | 77.8 (66.5–89.1) | 15.3 (13.3–17.6) | -- | 7.0 (6.4–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 53.1 (40.4–68.3) | -- | 111.3 (83.4–141.0) | 8.7 (7.4–10.4) | -- |
| Sarangani | 651.8 (602.8–719.1) | 21.2 (16.4–26.7) | 186.7 (158.4–224.2) | 250.3 (224.4–280.4) | 138.5 (118.0–161.9) | 95.4 (81.1–108.6) | 16.4 (14.1–18.9) | -- | 7.3 (6.7–7.9) | 1.7 (1.3–2.1) | 5.6 (5.1–6.0) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.6 (0.5–0.7) | 52.3 (40.2–67.5) | -- | 110.8 (82.9–140.5) | 10.1 (8.7–12.0) | -- |
| Siquijor | 556.7 (514.1–611.4) | 21.0 (16.5–26.1) | 163.5 (137.7–195.8) | 174.8 (157.3–196.6) | 96.8 (82.4–114.8) | 65.9 (55.8–75.9) | 12.1 (10.4–13.9) | -- | 7.1 (6.6–7.7) | 1.6 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 53.7 (41.7–69.2) | -- | 112.7 (85.8–142.1) | 10.8 (9.2–13.0) | -- |
| Sorsogon | 599.0 (552.5–657.0) | 21.8 (16.9–27.3) | 179.2 (150.6–216.4) | 202.7 (182.1–227.7) | 106.5 (91.3–126.4) | 81.3 (69.9–92.5) | 14.9 (12.7–16.8) | -- | 6.9 (6.4–7.5) | 1.5 (1.1–1.8) | 5.4 (5.0–5.8) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.8) | 53.6 (41.7–68.4) | -- | 111.5 (83.4–144.3) | 10.1 (8.6–12.0) | -- |
| South Cotabato | 546.3 (506.7–596.6) | 21.2 (16.5–26.3) | 145.5 (127.4–167.1) | 182.3 (162.4–204.5) | 93.6 (79.4–109.4) | 73.6 (63.5–84.7) | 15.2 (12.9–17.2) | -- | 7.2 (6.6–7.8) | 1.6 (1.2–1.9) | 5.6 (5.2–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 53.1 (40.3–67.0) | -- | 114.7 (87.3–146.4) | 9.1 (7.8–10.8) | -- |
| Southern Leyte | 532.5 (496.8–581.5) | 21.2 (16.3–26.6) | 130.8 (110.8–155.7) | 183.6 (163.9–206.1) | 101.7 (86.2–119.9) | 68.9 (57.8–79.1) | 13.0 (11.1–15.0) | -- | 7.1 (6.6–7.8) | 1.6 (1.3–2.0) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 54.0 (41.4–68.8) | -- | 111.6 (84.8–145.6) | 11.0 (9.4–13.0) | -- |
| Sultan Kudarat | 552.4 (513.8–605.7) | 21.0 (16.2–26.8) | 150.0 (127.2–178.7) | 186.8 (167.2–209.6) | 92.6 (79.5–108.7) | 80.5 (68.7–90.5) | 13.7 (11.7–15.6) | -- | 7.2 (6.7–7.9) | 1.6 (1.3–2.0) | 5.6 (5.2–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 52.8 (41.1–66.3) | -- | 111.3 (83.8–141.8) | 10.1 (8.5–12.1) | -- |
| Sulu | 672.3 (616.7–736.5) | 23.3 (17.8–28.9) | 205.5 (168.9–245.1) | 252.5 (224.7–282.6) | 120.9 (102.1–141.7) | 116.0 (98.1–132.2) | 15.5 (13.2–17.7) | -- | 7.1 (6.6–7.7) | 1.4 (1.1–1.7) | 5.7 (5.2–6.0) | -- | 12.4 (9.8–15.6) | 12.4 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 51.3 (39.8–65.5) | -- | 107.8 (81.1–138.6) | 11.8 (10.3–14.4) | -- |
| Surigao Del Norte | 563.4 (520.7–615.2) | 22.0 (17.1–26.9) | 156.8 (131.7–187.9) | 189.3 (168.7–210.8) | 99.9 (84.3–118.2) | 76.0 (63.9–86.8) | 13.4 (11.3–15.2) | -- | 7.1 (6.6–7.8) | 1.6 (1.3–2.0) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 52.8 (40.4–67.0) | -- | 112.8 (86.3–145.3) | 9.3 (8.0–11.2) | -- |
| Surigao Del Sur | 581.0 (539.4–639.3) | 22.0 (17.1–27.2) | 155.0 (131.3–184.0) | 209.0 (187.4–234.4) | 111.1 (94.5–131.0) | 82.7 (71.1–94.2) | 15.3 (12.9–17.3) | -- | 6.9 (6.4–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.8) | 53.4 (41.0–67.1) | -- | 111.8 (84.5–142.8) | 9.8 (8.3–11.6) | -- |
| Tarlac | 599.1 (552.3–659.8) | 20.7 (15.9–25.8) | 179.7 (150.9–217.6) | 200.1 (179.8–223.2) | 101.4 (86.7–118.6) | 83.8 (71.7–94.6) | 15.0 (13.0–17.2) | -- | 7.6 (7.1–8.2) | 2.0 (1.5–2.4) | 5.7 (5.3–6.1) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.6 (0.5–0.7) | 54.1 (42.0–69.1) | -- | 111.9 (85.3–142.9) | 11.8 (10.2–14.0) | -- |
| Tawi-Tawi | 671.6 (612.9–736.5) | 21.0 (16.3–26.0) | 215.6 (177.2–259.9) | 242.9 (218.8–276.7) | 124.2 (105.1–148.8) | 102.4 (86.9–116.7) | 16.2 (14.0–18.6) | -- | 7.2 (6.7–7.8) | 1.5 (1.2–1.9) | 5.7 (5.3–6.2) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.6–0.8) | 51.3 (39.2–65.5) | -- | 106.9 (81.1–137.2) | 13.5 (11.6–16.0) | -- |
| Zambales | 551.0 (511.1–606.4) | 20.7 (16.0–26.2) | 173.9 (149.2–208.7) | 159.3 (143.8–177.8) | 83.9 (71.2–99.5) | 61.8 (52.7–71.2) | 13.6 (11.8–15.7) | -- | 7.4 (6.8–8.0) | 1.8 (1.4–2.2) | 5.6 (5.2–6.0) | -- | 12.4 (9.7–15.6) | 12.4 (9.7–15.6) | -- | -- | 0.7 (0.5–0.8) | 53.6 (41.5–67.4) | -- | 112.6 (84.0–143.8) | 10.4 (8.9–12.4) | -- |
| Zamboanga Del Norte | 602.6 (555.2–656.3) | 21.6 (16.8–27.1) | 188.1 (158.0–224.2) | 199.8 (180.3–224.7) | 109.4 (91.6–130.5) | 75.6 (64.4–86.8) | 14.9 (12.7–17.0) | -- | 6.9 (6.3–7.5) | 1.4 (1.1–1.7) | 5.5 (5.1–5.9) | -- | 12.5 (9.8–15.7) | 12.5 (9.8–15.7) | -- | -- | 0.7 (0.6–0.9) | 52.8 (40.8–66.7) | -- | 109.9 (83.2–139.0) | 10.1 (8.6–12.1) | -- |
| Zamboanga Del Sur | 589.4 (542.2–649.4) | 21.3 (16.5–26.2) | 198.5 (167.1–238.8) | 174.2 (155.8–196.8) | 93.6 (79.6–110.9) | 66.2 (56.3–75.4) | 14.5 (12.4–16.7) | -- | 7.0 (6.4–7.6) | 1.4 (1.1–1.7) | 5.5 (5.1–6.0) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 52.8 (40.7–67.6) | -- | 112.6 (84.9–145.2) | 9.8 (8.3–11.7) | -- |
| Zamboanga Sibugay | 583.7 (539.6–644.0) | 21.5 (16.4–26.8) | 180.0 (149.8–212.3) | 189.6 (170.7–212.4) | 101.9 (87.4–120.5) | 74.2 (63.1–85.0) | 13.5 (11.5–15.5) | -- | 7.2 (6.6–7.8) | 1.7 (1.3–2.1) | 5.5 (5.0–5.9) | -- | 12.5 (9.8–15.6) | 12.5 (9.8–15.6) | -- | -- | 0.7 (0.5–0.8) | 52.6 (40.6–66.5) | -- | 110.6 (84.9–142.8) | 9.1 (7.8–11.0) | -- |
| Seychelles | 477.9 (446.5–520.8) | 19.9 (15.5–24.5) | 99.1 (85.5–113.9) | 160.4 (144.7–175.8) | 98.4 (85.3–112.0) | 50.2 (44.3–56.4) | 11.8 (10.3–13.4) | -- | 13.1 (11.2–15.0) | 3.8 (3.1–4.5) | 9.3 (7.5–11.1) | -- | 12.0 (9.3–15.0) | 12.0 (9.3–15.0) | -- | -- | 0.5 (0.4–0.6) | 51.7 (39.7–64.9) | -- | 110.1 (81.9–140.4) | 11.1 (9.5–13.2) | -- |
| Sri Lanka | 518.6 (486.4–557.8) | 20.5 (15.9–25.4) | 118.4 (103.3–135.8) | 184.2 (167.2–202.0) | 119.9 (106.1–135.6) | 52.2 (45.9–58.7) | 12.1 (10.4–14.0) | -- | 13.4 (11.5–16.3) | 4.0 (3.4–4.7) | 9.4 (7.7–12.2) | -- | 11.5 (9.0–14.4) | 11.5 (9.0–14.4) | -- | -- | 0.6 (0.5–0.7) | 50.1 (38.0–63.4) | -- | 104.4 (77.7–133.3) | 15.4 (13.4–17.7) | -- |
| Thailand | 442.6 (413.7–482.0) | 21.2 (16.4–26.5) | 69.4 (60.0–78.2) | 145.0 (133.6–157.7) | 78.0 (68.4–88.4) | 46.4 (41.2–50.9) | 20.7 (18.6–23.0) | -- | 10.0 (8.6–11.7) | 2.9 (2.3–3.5) | 7.1 (5.7–8.6) | -- | 11.5 (9.0–14.4) | 11.5 (9.0–14.4) | -- | -- | 0.5 (0.4–0.6) | 48.7 (37.1–62.1) | -- | 106.6 (80.2–137.8) | 29.7 (26.0–33.6) | -- |
| Timor-Leste | 591.2 (554.1–637.9) | 29.3 (22.7–37.0) | 134.9 (116.2–154.1) | 241.4 (220.1–265.3) | 121.1 (103.6–139.8) | 103.2 (92.8–114.4) | 17.2 (15.0–19.3) | -- | 7.7 (6.4–9.2) | 1.5 (1.1–1.8) | 6.2 (4.9–7.6) | -- | 11.7 (9.1–14.5) | 11.7 (9.1–14.5) | -- | -- | 0.6 (0.5–0.7) | 49.2 (37.9–63.4) | -- | 105.7 (80.2–137.7) | 10.8 (9.2–12.9) | -- |
| Viet Nam | 540.0 (505.3–581.3) | 20.9 (15.9–26.2) | 93.7 (80.8–108.5) | 236.3 (216.6–255.4) | 147.2 (132.9–163.2) | 71.7 (64.9–79.1) | 17.4 (14.9–19.8) | -- | 8.3 (7.0–10.0) | 2.1 (1.7–2.5) | 6.2 (4.9–7.8) | -- | 11.6 (9.0–14.5) | 11.6 (9.0–14.5) | -- | -- | 0.5 (0.4–0.6) | 51.5 (40.1–66.0) | -- | 102.8 (77.9–133.7) | 14.4 (12.2–17.2) | -- |
| **Sub-Saharan Africa** | **574.4 (532.1–622.1)** | **163.9 (134.8–196.0)** | **72.2 (62.5–83.5)** | **168.7 (152.6–189.0)** | **100.0 (86.7–116.1)** | **59.7 (52.1–66.8)** | **9.0 (7.5–10.3)** | **--** | **2.9 (2.6–3.1)** | **1.6 (1.4–1.8)** | **1.3 (1.1–1.4)** | **--** | **11.3 (9.0–14.5)** | **11.3 (9.0–14.5)** | **--** | **--** | **0.8 (0.6–0.9)** | **38.8 (29.8–49.7)** | **--** | **107.4 (82.6–137.5)** | **8.5 (7.4–9.8)** | **--** |
| Central Sub-Saharan Africa | 655.8 (604.2–712.9) | 215.7 (177.7–259.2) | 76.9 (66.8–88.8) | 186.3 (168.7–207.5) | 105.7 (90.9–123.4) | 70.4 (61.1–78.4) | 10.1 (8.4–11.8) | -- | 3.3 (3.0–3.7) | 1.9 (1.6–2.1) | 1.5 (1.3–1.7) | -- | 10.8 (8.5–14.1) | 10.8 (8.5–14.1) | -- | -- | 0.8 (0.7–1.0) | 38.6 (29.3–49.3) | -- | 116.1 (89.3–148.3) | 7.2 (6.3–8.3) | -- |
| Angola | 646.6 (596.3–702.3) | 204.8 (167.8–247.1) | 83.1 (72.3–96.9) | 175.6 (160.7–196.3) | 98.5 (86.4–114.8) | 68.0 (60.4–75.3) | 9.1 (7.7–10.5) | -- | 3.6 (3.3–4.0) | 2.0 (1.7–2.2) | 1.7 (1.4–1.9) | -- | 10.7 (8.5–13.9) | 10.7 (8.5–13.9) | -- | -- | 0.9 (0.7–1.0) | 40.2 (30.6–52.0) | -- | 120.7 (92.4–156.6) | 7.1 (6.2–8.2) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Central African Republic | 729.0 (674.2–785.2) | 224.3 (182.8–266.9) | 91.5 (77.0–107.3) | 244.8 (221.2–271.0) | 126.3 (108.0–146.3) | 108.5 (97.5–119.0) | 10.1 (8.6–11.7) | -- | 3.0 (2.7–3.3) | 1.6 (1.4–1.8) | 1.4 (1.2–1.7) | -- | 10.8 (8.5–14.1) | 10.8 (8.5–14.1) | -- | -- | 0.8 (0.7–1.0) | 38.5 (29.3–49.8) | -- | 108.4 (84.8–137.8) | 6.8 (6.1–7.8) | -- |
| Congo | 683.9 (628.3–743.3) | 210.6 (170.2–253.3) | 87.4 (75.6–100.0) | 191.3 (171.8–212.9) | 114.7 (98.8–133.2) | 67.5 (60.1–75.8) | 9.1 (7.8–10.5) | -- | 3.8 (3.5–4.2) | 2.2 (1.9–2.4) | 1.7 (1.4–1.9) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.7 (0.6–0.9) | 40.8 (31.4–52.2) | -- | 131.1 (101.5–166.1) | 7.3 (6.5–8.5) | -- |
| Republic of the Congo | 655.8 (603.4–713.8) | 220.5 (179.2–265.5) | 73.4 (62.5–87.0) | 187.9 (169.1–210.5) | 106.9 (91.2–125.7) | 70.3 (60.6–79.3) | 10.7 (8.8–12.7) | -- | 3.2 (2.9–3.5) | 1.8 (1.6–2.0) | 1.4 (1.2–1.6) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.8 (0.7–1.0) | 37.8 (28.8–48.3) | -- | 114.2 (87.4–147.1) | 7.3 (6.3–8.4) | -- |
| Equatorial Guinea | 576.6 (528.0–633.0) | 194.6 (158.5–236.4) | 71.8 (60.8–84.2) | 129.8 (114.6–145.5) | 83.8 (71.0–97.5) | 38.9 (33.0–44.6) | 7.2 (6.0–8.5) | -- | 4.5 (4.0–5.0) | 2.7 (2.3–3.0) | 1.8 (1.6–2.1) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.7 (0.6–0.9) | 41.7 (32.0–53.3) | -- | 116.1 (90.0–147.0) | 6.5 (5.5–7.6) | -- |
| Gabon | 598.2 (552.3–652.8) | 195.2 (158.6–238.3) | 76.0 (64.9–87.5) | 148.3 (132.5–164.7) | 94.5 (81.5–108.9) | 46.2 (39.8–52.2) | 7.6 (6.3–8.8) | -- | 4.5 (4.0–5.0) | 2.7 (2.3–3.0) | 1.8 (1.6–2.2) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.7 (0.6–0.9) | 41.3 (31.3–52.8) | -- | 114.1 (87.2–147.1) | 7.4 (6.5–8.6) | -- |
| Eastern Sub-Saharan Africa | 557.5 (515.6–607.4) | 179.4 (148.0–214.7) | 59.9 (52.5–69.3) | 158.2 (143.5–176.5) | 87.1 (75.4–101.3) | 61.7 (54.2–69.0) | 9.4 (7.9–10.9) | -- | 3.0 (2.7–3.3) | 1.7 (1.5–1.9) | 1.3 (1.2–1.5) | -- | 11.2 (9.0–14.5) | 11.2 (9.0–14.5) | -- | -- | 0.9 (0.7–1.1) | 34.7 (26.7–44.4) | -- | 100.2 (77.3–127.7) | 9.8 (8.6–11.3) | -- |
| Burundi | 582.6 (537.1–635.6) | 187.1 (152.0–221.4) | 65.9 (55.8–77.3) | 175.6 (157.0–198.2) | 93.3 (79.7–111.0) | 72.6 (64.1–81.4) | 9.7 (8.0–11.3) | -- | 2.6 (2.3–3.0) | 1.4 (1.2–1.6) | 1.2 (1.0–1.4) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.9 (0.7–1.0) | 33.7 (25.7–43.6) | -- | 96.9 (74.5–125.3) | 9.0 (7.9–10.3) | -- |
| Comoros | 567.6 (524.3–616.2) | 174.8 (143.1–212.4) | 67.2 (58.2–77.6) | 166.4 (150.5–185.5) | 93.3 (79.8–109.0) | 62.8 (55.6–69.9) | 10.4 (8.7–12.1) | -- | 3.0 (2.7–3.4) | 1.7 (1.4–1.9) | 1.3 (1.1–1.6) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.8 (0.7–1.0) | 33.1 (25.6–42.8) | -- | 102.1 (78.0–131.2) | 9.4 (8.3–10.7) | -- |
| Djibouti | 538.0 (494.4–587.3) | 171.6 (139.1–206.3) | 61.9 (52.7–71.7) | 145.7 (131.0–162.9) | 89.3 (76.8–103.3) | 47.5 (41.4–53.6) | 8.9 (7.6–10.5) | -- | 3.2 (2.8–3.6) | 1.8 (1.5–2.0) | 1.4 (1.2–1.7) | -- | 11.0 (8.7–14.3) | 11.0 (8.7–14.3) | -- | -- | 0.8 (0.6–0.9) | 34.0 (26.0–43.5) | -- | 100.9 (76.7–130.4) | 8.9 (7.7–10.3) | -- |
| Eritrea | 575.0 (528.9–626.3) | 190.6 (155.3–228.8) | 60.9 (51.5–70.9) | 170.2 (153.5–188.9) | 90.6 (77.9–105.4) | 69.3 (61.6–77.2) | 10.2 (8.6–11.9) | -- | 2.9 (2.6–3.2) | 1.5 (1.3–1.7) | 1.4 (1.2–1.6) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.9 (0.7–1.0) | 31.8 (24.4–41.2) | -- | 97.5 (75.4–125.5) | 9.4 (8.4–10.8) | -- |
| Ethiopia | 486.2 (448.6–535.1) | 175.7 (144.3–211.9) | 62.2 (50.8–77.9) | 91.1 (81.4–102.5) | 49.6 (42.6–58.8) | 34.6 (29.3–39.3) | 6.9 (5.8–8.1) | -- | 2.6 (2.4–2.8) | 1.4 (1.2–1.6) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.0 (0.8–1.2) | 34.2 (26.3–43.7) | -- | 98.1 (75.3–124.9) | 9.2 (8.0–10.9) | -- |
| Addis Ababa | 507.5 (461.5–560.0) | 146.1 (115.0–182.8) | 68.1 (52.3–86.9) | 130.6 (116.5–148.0) | 74.0 (63.4–87.4) | 48.3 (41.0–55.0) | 8.3 (7.0–9.5) | -- | 3.2 (2.8–3.5) | 2.0 (1.6–2.3) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.8 (0.7–1.0) | 36.6 (27.8–47.5) | -- | 101.3 (77.1–130.2) | 8.8 (7.6–10.5) | -- |
| Afar | 534.0 (488.7–586.1) | 182.9 (149.9–219.9) | 79.4 (64.1–100.7) | 115.2 (103.0–130.0) | 57.4 (49.1–68.0) | 50.5 (42.7–57.4) | 7.2 (6.1–8.6) | -- | 2.7 (2.4–2.9) | 1.4 (1.2–1.6) | 1.3 (1.2–1.4) | -- | 12.3 (9.7–15.7) | 12.3 (9.7–15.7) | -- | -- | 1.0 (0.8–1.2) | 34.7 (26.7–45.0) | -- | 97.5 (74.3–123.7) | 8.4 (7.2–9.8) | -- |
| Amhara | 482.2 (443.8–529.1) | 176.0 (144.5–210.1) | 59.6 (48.2–74.9) | 91.9 (82.0–104.2) | 50.1 (42.8–59.2) | 35.0 (29.5–40.0) | 6.8 (5.6–8.1) | -- | 2.6 (2.3–2.8) | 1.4 (1.2–1.7) | 1.2 (1.1–1.2) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.1 (0.9–1.3) | 33.8 (26.0–43.2) | -- | 95.9 (73.7–123.1) | 9.3 (7.9–10.9) | -- |
| Benishangul-Gumuz | 528.7 (487.6–583.4) | 180.5 (145.8–215.3) | 76.2 (61.1–95.6) | 115.1 (101.8–129.7) | 61.0 (51.7–73.1) | 47.0 (39.9–53.6) | 7.0 (5.9–8.2) | -- | 2.6 (2.4–2.8) | 1.4 (1.1–1.6) | 1.2 (1.1–1.3) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 1.0 (0.8–1.1) | 34.3 (26.2–44.1) | -- | 98.3 (75.9–125.0) | 8.6 (7.4–10.1) | -- |
| Dire Dawa | 484.9 (439.1–536.4) | 174.9 (141.5–210.2) | 61.3 (49.3–76.2) | 83.9 (76.0–94.3) | 46.6 (40.2–55.2) | 30.3 (25.5–34.9) | 7.0 (5.9–8.3) | -- | 2.8 (2.5–3.1) | 1.7 (1.4–1.9) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.9 (0.8–1.1) | 34.8 (26.6–44.7) | -- | 105.3 (80.5–135.5) | 8.8 (7.6–10.5) | -- |
| Gambella | 503.3 (463.0–554.4) | 179.1 (144.2–214.9) | 64.2 (51.5–81.4) | 97.6 (87.1–110.8) | 54.9 (46.6–65.7) | 35.4 (30.1–40.8) | 7.3 (6.1–8.6) | -- | 2.8 (2.5–3.0) | 1.6 (1.3–1.9) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.2) | 12.0 (9.5–15.2) | -- | -- | 0.8 (0.7–1.0) | 34.7 (26.8–44.2) | -- | 103.5 (78.6–133.1) | 8.5 (7.2–10.1) | -- |
| Harari | 501.9 (463.3–559.4) | 177.0 (143.5–211.6) | 69.6 (56.4–88.4) | 87.9 (79.7–98.6) | 46.4 (40.1–55.3) | 34.3 (29.0–39.4) | 7.2 (6.0–8.5) | -- | 2.9 (2.6–3.1) | 1.7 (1.4–1.9) | 1.2 (1.1–1.3) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.8 (0.7–1.0) | 35.3 (27.3–44.9) | -- | 108.1 (82.9–138.0) | 8.3 (7.2–10.0) | -- |
| Oromia | 475.2 (435.6–528.5) | 175.3 (142.4–215.7) | 58.1 (46.6–75.1) | 83.2 (74.4–93.8) | 45.7 (39.1–54.6) | 30.6 (25.8–35.0) | 6.9 (5.6–8.1) | -- | 2.6 (2.3–2.8) | 1.4 (1.2–1.6) | 1.2 (1.1–1.2) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.9 (0.8–1.1) | 34.4 (26.3–44.1) | -- | 99.4 (75.9–126.3) | 9.3 (7.9–10.9) | -- |
| Sidama | 513.0 (469.1–562.2) | 179.2 (146.9–213.3) | 68.7 (52.7–85.9) | 106.6 (96.0–120.9) | 60.5 (51.7–72.1) | 38.7 (32.5–43.9) | 7.5 (6.2–8.8) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 12.1 (9.6–15.4) | 12.1 (9.6–15.4) | -- | -- | 1.0 (0.9–1.2) | 34.7 (26.4–45.1) | -- | 97.4 (74.5–125.6) | 10.8 (9.3–12.7) | -- |
| Somali | 496.0 (455.6–547.0) | 176.8 (144.0–213.9) | 69.1 (54.0–87.6) | 95.0 (84.6–107.6) | 50.7 (43.1–59.2) | 37.6 (31.4–43.8) | 6.7 (5.6–8.0) | -- | 2.6 (2.3–2.8) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 12.3 (9.7–15.7) | 12.3 (9.7–15.7) | -- | -- | 0.8 (0.7–1.0) | 34.5 (26.4–44.0) | -- | 96.3 (73.9–124.5) | 8.5 (7.3–10.1) | -- |
| South West Nations, Nationalitie | 501.6 (458.1–550.2) | 181.0 (147.1–212.2) | 68.7 (53.2–86.3) | 94.5 (84.2–107.4) | 54.2 (46.1–64.2) | 33.5 (28.3–38.3) | 6.8 (5.6–7.9) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.0 (0.9–1.2) | 34.6 (26.7–44.5) | -- | 97.6 (75.5–125.6) | 9.7 (8.3–11.4) | -- |
| Tigray | 489.8 (446.6–537.8) | 178.5 (145.1–215.0) | 68.6 (54.0–88.5) | 85.2 (77.1–95.5) | 44.9 (38.2–52.5) | 33.7 (28.8–38.3) | 6.7 (5.5–7.9) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 1.0 (0.9–1.3) | 33.8 (26.1–43.3) | -- | 99.0 (76.3–126.2) | 9.1 (7.9–10.7) | -- |
| Kenya | 484.7 (445.8–530.7) | 176.8 (144.9–212.0) | 60.7 (48.2–75.8) | 91.6 (81.9–102.7) | 49.2 (42.2–58.6) | 35.4 (30.2–41.1) | 7.0 (5.8–8.2) | -- | 2.7 (2.4–3.0) | 1.5 (1.3–1.8) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 1.1 (0.9–1.3) | 33.9 (25.9–43.7) | -- | 97.0 (74.9–124.9) | 9.0 (7.7–10.7) | -- |
| Baringo | 562.0 (518.4–612.8) | 174.9 (144.1–209.0) | 60.2 (50.0–71.5) | 158.5 (142.5–178.5) | 87.5 (74.9–102.6) | 61.3 (51.6–69.6) | 9.7 (8.2–11.2) | -- | 3.1 (2.8–3.4) | 1.8 (1.5–2.1) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.8 (0.7–1.0) | 37.1 (28.4–47.4) | -- | 105.1 (80.6–134.3) | 10.3 (8.9–12.0) | -- |
| Bomet | 582.3 (536.8–634.1) | 177.7 (147.0–211.9) | 65.6 (54.8–78.3) | 173.6 (155.1–194.4) | 91.0 (77.9–107.4) | 72.0 (61.1–82.2) | 10.7 (9.0–12.5) | -- | 2.9 (2.7–3.2) | 1.6 (1.3–1.9) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.6–0.9) | 36.9 (28.0–47.1) | -- | 103.0 (79.3–131.6) | 9.8 (8.5–11.4) | -- |
| Kericho | 532.4 (487.7–586.3) | 174.8 (142.8–213.8) | 51.0 (42.3–62.3) | 139.5 (124.3–157.0) | 78.0 (66.5–92.4) | 51.7 (43.6–59.0) | 9.9 (8.3–11.6) | -- | 3.0 (2.7–3.3) | 1.8 (1.5–2.0) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 36.3 (28.1–46.6) | -- | 103.3 (78.9–133.0) | 11.5 (9.9–13.5) | -- |
| Bungoma | 564.9 (519.9–619.6) | 174.2 (143.1–210.9) | 61.1 (51.0–74.9) | 164.5 (146.5–183.9) | 92.4 (79.2–108.5) | 61.8 (51.7–71.3) | 10.3 (8.7–12.1) | -- | 3.0 (2.6–3.2) | 1.7 (1.4–2.0) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.8 (0.6–0.9) | 36.5 (28.0–46.6) | -- | 103.0 (79.0–132.9) | 10.0 (8.7–11.8) | -- |
| Busia | 566.9 (523.5–617.5) | 179.3 (145.6–218.3) | 61.4 (50.9–73.3) | 160.4 (143.3–180.6) | 85.2 (72.9–100.8) | 65.4 (55.6–74.5) | 9.8 (8.2–11.5) | -- | 2.8 (2.6–3.1) | 1.6 (1.3–1.8) | 1.2 (1.2–1.3) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 1.1 (0.9–1.3) | 36.2 (27.7–46.0) | -- | 104.2 (80.1–135.0) | 9.6 (8.2–11.1) | -- |
| Elgeyo-Marakwet | 594.0 (551.4–646.9) | 178.7 (147.3–215.6) | 67.4 (56.6–80.4) | 179.8 (162.1–201.6) | 90.2 (77.5–106.2) | 78.3 (66.7–88.7) | 11.3 (9.4–13.1) | -- | 3.1 (2.8–3.4) | 1.7 (1.5–2.0) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.6–0.9) | 36.9 (28.3–46.9) | -- | 104.5 (80.2–132.7) | 10.8 (9.3–12.6) | -- |
| Embu | 574.1 (529.3–627.8) | 173.7 (140.7–210.3) | 63.3 (52.5–76.3) | 169.8 (152.3–192.1) | 100.3 (85.5–117.3) | 59.8 (50.2–68.1) | 9.7 (8.1–11.4) | -- | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.6–0.9) | 36.9 (28.3–47.2) | -- | 104.5 (80.5–133.9) | 10.0 (8.6–11.8) | -- |
| Garissa | 581.5 (538.9–635.5) | 176.5 (142.4–212.7) | 69.8 (56.2–86.5) | 170.8 (153.2–190.0) | 84.2 (72.4–99.2) | 76.9 (65.3–87.4) | 9.7 (8.1–11.2) | -- | 2.9 (2.6–3.1) | 1.5 (1.3–1.8) | 1.4 (1.3–1.5) | -- | 12.3 (9.7–15.7) | 12.3 (9.7–15.7) | -- | -- | 0.8 (0.6–0.9) | 36.9 (28.5–46.7) | -- | 104.0 (79.8–132.5) | 7.6 (6.4–9.0) | -- |
| Homa Bay | 580.4 (532.4–631.7) | 182.4 (147.3–215.0) | 63.0 (51.8–74.6) | 165.4 (148.7–184.9) | 91.0 (76.9–106.5) | 65.1 (55.0–74.6) | 9.3 (7.7–10.8) | -- | 2.9 (2.6–3.2) | 1.6 (1.4–1.9) | 1.3 (1.2–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 1.3 (1.1–1.6) | 36.5 (28.0–46.0) | -- | 106.5 (81.1–136.8) | 10.5 (9.3–12.4) | -- |
| Isiolo | 569.3 (523.2–618.9) | 177.8 (146.0–213.8) | 60.1 (50.0–72.5) | 167.8 (150.3–187.3) | 93.9 (80.8–111.0) | 64.8 (54.7–73.5) | 9.1 (7.7–10.6) | -- | 2.9 (2.6–3.1) | 1.6 (1.3–1.8) | 1.3 (1.2–1.4) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.7 (0.5–0.8) | 37.1 (28.3–48.0) | -- | 102.5 (78.9–132.2) | 8.4 (7.2–9.8) | -- |
| Kajiado | 556.7 (515.0–611.4) | 174.1 (142.1–209.4) | 59.6 (50.0–71.9) | 155.4 (138.1–174.6) | 84.8 (72.1–100.3) | 61.0 (51.3–69.3) | 9.6 (8.1–11.1) | -- | 3.3 (3.0–3.6) | 2.0 (1.7–2.3) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.7 (0.5–0.8) | 37.5 (28.6–48.1) | -- | 104.1 (80.6–134.8) | 10.0 (8.6–11.8) | -- |
| Kakamega | 582.4 (532.1–636.3) | 178.5 (145.9–214.2) | 64.7 (53.5–77.6) | 173.0 (155.5–194.2) | 97.5 (83.6–115.0) | 65.7 (54.9–74.7) | 9.8 (8.3–11.4) | -- | 3.0 (2.7–3.3) | 1.7 (1.4–2.0) | 1.3 (1.2–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.9 (0.7–1.1) | 36.9 (28.5–46.8) | -- | 104.2 (78.6–134.1) | 9.3 (8.1–10.9) | -- |
| Kericho | 565.3 (520.6–613.7) | 175.0 (141.3–211.6) | 63.5 (52.6–77.1) | 162.1 (145.8–181.8) | 88.3 (75.4–103.5) | 64.1 (54.6–73.2) | 9.7 (8.1–11.3) | -- | 3.2 (2.8–3.5) | 1.9 (1.6–2.1) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.5–0.8) | 36.7 (27.9–47.2) | -- | 102.0 (77.7–131.9) | 10.2 (8.8–12.0) | -- |
| Kiambu | 555.5 (508.3–611.2) | 172.5 (139.7–208.4) | 58.7 (48.7–69.3) | 154.5 (137.4–172.9) | 85.4 (73.5–100.3) | 59.6 (50.5–69.0) | 9.5 (8.1–11.0) | -- | 3.4 (3.1–3.7) | 2.1 (1.7–2.4) | 1.4 (1.2–1.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 37.9 (29.3–48.5) | -- | 105.0 (81.3–135.2) | 10.9 (9.3–12.7) | -- |
| Kilifi | 542.4 (499.8–595.2) | 175.2 (142.3–211.2) | 52.7 (44.2–62.7) | 147.4 (132.8–166.6) | 80.5 (68.5–95.9) | 57.2 (48.1–65.6) | 9.7 (8.1–11.2) | -- | 2.9 (2.6–3.1) | 1.6 (1.3–1.8) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.9 (0.7–1.1) | 36.5 (28.1–47.3) | -- | 104.8 (80.1–135.0) | 10.1 (8.7–12.0) | -- |
| Kirinyaga | 554.7 (513.3–607.5) | 174.1 (141.0–208.2) | 58.6 (49.1–69.9) | 149.8 (134.9–167.1) | 83.4 (71.6–97.4) | 56.0 (47.0–64.1) | 10.3 (8.7–12.1) | -- | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.1 (0.9–1.3) | 37.3 (28.7–47.7) | -- | 106.2 (80.7–136.5) | 12.4 (10.9–14.4) | -- |
| Kisii | 597.2 (551.8–644.4) | 177.8 (146.3–211.8) | 63.3 (52.3–76.3) | 189.1 (170.5–211.5) | 106.8 (91.2–126.2) | 71.6 (60.7–81.8) | 10.7 (9.0–12.5) | -- | 3.1 (2.8–3.4) | 1.8 (1.5–2.1) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.9 (0.8–1.1) | 37.2 (28.6–47.8) | -- | 103.5 (78.9–132.9) | 10.4 (9.1–12.1) | -- |
| Kisumu | 591.6 (546.8–643.0) | 179.0 (146.5–212.5) | 68.8 (57.1–81.4) | 175.5 (155.6–197.9) | 96.6 (83.0–115.9) | 69.6 (59.0–78.7) | 9.2 (7.8–10.6) | -- | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 1.1 (0.9–1.4) | 37.5 (28.5–48.0) | -- | 104.4 (80.3–134.3) | 10.2 (8.9–11.9) | -- |
| Kitui | 571.1 (526.7–626.5) | 176.5 (143.4–212.0) | 66.1 (55.0–78.8) | 160.0 (143.4–180.0) | 89.8 (76.8–106.7) | 60.6 (51.3–68.8) | 9.7 (8.2–11.3) | -- | 3.0 (2.7–3.2) | 1.7 (1.4–2.0) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.8 (0.6–0.9) | 36.7 (27.9–46.7) | -- | 106.0 (81.0–135.6) | 10.0 (8.7–11.8) | -- |
| Kwale | 603.9 (555.4–658.6) | 178.6 (146.4–210.8) | 69.7 (57.9–82.8) | 186.9 (166.5–211.0) | 109.0 (92.6–128.6) | 68.2 (57.6–77.8) | 9.8 (8.1–11.4) | -- | 2.9 (2.6–3.2) | 1.6 (1.4–1.9) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.9 (0.7–1.1) | 37.0 (28.3–47.4) | -- | 106.3 (81.8–137.5) | 9.6 (8.2–11.3) | -- |
| Laikipia | 576.9 (533.1–631.1) | 175.8 (143.3–214.9) | 60.8 (50.3–73.1) | 166.3 (149.0–187.9) | 94.0 (80.8–110.9) | 61.8 (52.1–70.8) | 10.5 (8.9–12.4) | -- | 3.4 (3.1–3.7) | 2.1 (1.8–2.4) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.7 (0.5–0.8) | 37.9 (29.1–48.4) | -- | 109.2 (82.9–141.0) | 10.8 (9.4–12.5) | -- |
| Lamu | 569.9 (524.4–626.0) | 177.0 (144.1–213.6) | 64.6 (53.3–78.0) | 161.9 (145.9–182.1) | 89.6 (76.1–106.0) | 62.8 (52.8–71.0) | 9.5 (7.9–11.1) | -- | 3.0 (2.7–3.3) | 1.7 (1.4–2.0) | 1.3 (1.2–1.4) | -- | 12.2 (9.6–15.6) | 12.2 (9.6–15.6) | -- | -- | 1.1 (0.9–1.3) | 37.4 (28.5–47.1) | -- | 103.5 (79.7–130.8) | 9.2 (7.9–10.8) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Machakos | 536.5 (492.6–589.5) | 171.9 (140.5–208.4) | 54.6 (45.9–66.3) | 140.2 (125.2–157.8) | 74.9 (63.2–88.5) | 55.5 (46.9–64.3) | 9.8 (8.4–11.5) | – | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.7–1.0) | 37.1 (28.3–47.8) | -- | 106.4 (82.0–136.8) | 10.2 (8.8–12.0) | -- |
| Makueni | 550.0 (504.7–599.6) | 176.5 (144.1–211.9) | 57.8 (47.9–70.2) | 148.7 (133.4–166.7) | 84.8 (72.1–101.4) | 54.6 (46.0–63.2) | 9.3 (7.9–11.0) | – | 3.0 (2.7–3.3) | 1.8 (1.4–2.0) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.9 (0.7–1.0) | 36.3 (27.6–45.8) | -- | 104.2 (79.5–135.3) | 10.8 (9.2–12.8) | -- |
| Mandera | 570.9 (528.4–624.0) | 180.5 (148.2–218.4) | 57.7 (46.7–73.0) | 172.2 (155.4–191.9) | 90.7 (77.9–107.6) | 72.1 (61.5–82.9) | 9.3 (7.7–10.8) | – | 2.7 (2.4–2.9) | 1.3 (1.1–1.5) | 1.3 (1.2–1.4) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.7 (0.6–0.9) | 36.2 (28.0–46.6) | -- | 101.3 (78.0–129.1) | 7.5 (6.4–8.8) | -- |
| Marsabit | 552.0 (506.4–604.5) | 180.2 (147.0–217.5) | 53.4 (44.8–65.6) | 156.8 (139.2–175.7) | 84.0 (71.8–99.9) | 63.3 (53.4–72.2) | 9.4 (7.9–11.0) | – | 2.6 (2.4–2.9) | 1.4 (1.1–1.6) | 1.3 (1.2–1.4) | -- | 12.2 (9.6–15.6) | 12.2 (9.6–15.6) | -- | -- | 0.7 (0.6–0.9) | 36.5 (28.1–46.6) | -- | 99.1 (77.1–127.2) | 10.5 (9.1–12.3) | -- |
| Meru | 562.8 (518.4–616.6) | 174.7 (141.9–210.7) | 60.4 (50.2–72.3) | 159.4 (142.6–179.8) | 87.5 (75.1–104.7) | 62.0 (52.3–71.1) | 9.9 (8.3–11.4) | – | 3.1 (2.7–3.3) | 1.8 (1.5–2.0) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.9 (0.7–1.1) | 37.0 (28.3–47.2) | -- | 105.8 (81.6–134.1) | 9.5 (8.2–11.3) | -- |
| Migori | 577.2 (530.5–627.1) | 181.2 (148.1–213.3) | 61.5 (51.4–75.2) | 166.9 (149.5–188.4) | 88.7 (75.8–103.7) | 68.9 (58.4–78.7) | 9.3 (7.8–10.8) | – | 2.8 (2.6–3.1) | 1.6 (1.3–1.8) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 1.0 (0.8–1.2) | 36.4 (28.0–46.3) | -- | 104.9 (80.1–135.6) | 10.4 (9.1–12.1) | -- |
| Mombasa | 525.0 (481.4–575.3) | 170.5 (138.1–205.8) | 55.6 (46.3–66.4) | 134.7 (119.9–151.8) | 78.2 (65.8–92.8) | 48.6 (40.6–56.0) | 7.9 (6.6–9.3) | – | 3.3 (3.0–3.7) | 2.0 (1.6–2.3) | 1.3 (1.2–1.4) | -- | 12.1 (9.5–15.5) | 12.1 (9.5–15.5) | -- | -- | 0.8 (0.6–0.9) | 37.8 (29.3–47.5) | -- | 101.2 (77.9–130.4) | 9.0 (7.7–10.5) | -- |
| Murang'a | 545.4 (501.1–595.8) | 174.0 (141.2–209.7) | 55.1 (45.5–66.2) | 146.2 (129.9–164.4) | 84.4 (72.8–99.1) | 51.8 (43.4–59.3) | 10.0 (8.3–11.6) | – | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.1 (0.9–1.4) | 36.9 (28.4–47.4) | -- | 104.6 (79.4–134.6) | 12.2 (10.6–14.3) | -- |
| Nairobi | 524.8 (482.8–576.2) | 169.5 (138.9–203.3) | 50.1 (41.9–60.1) | 132.2 (117.9–149.5) | 78.1 (66.0–92.9) | 45.4 (38.3–51.9) | 8.7 (7.4–10.1) | – | 3.8 (3.4–4.2) | 2.4 (2.0–2.7) | 1.4 (1.3–1.6) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 0.8 (0.6–1.0) | 39.4 (30.0–51.0) | -- | 104.9 (81.2–133.0) | 12.1 (10.4–14.4) | -- |
| Nakuru | 558.6 (514.3–611.5) | 173.8 (141.3–210.2) | 59.5 (49.0–71.6) | 157.5 (140.2–176.7) | 89.4 (75.8–105.4) | 58.8 (50.0–67.5) | 9.3 (7.8–10.8) | – | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.5–0.8) | 37.0 (28.1–47.8) | -- | 105.9 (80.5–133.8) | 9.1 (7.8–10.6) | -- |
| Nandi | 575.9 (533.5–624.5) | 177.1 (144.6–213.1) | 62.4 (51.9–76.0) | 169.4 (150.4–191.1) | 91.5 (78.1–108.4) | 67.7 (57.4–76.9) | 10.2 (8.6–11.8) | – | 3.1 (2.8–3.4) | 1.8 (1.5–2.1) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.5–0.8) | 36.8 (28.2–46.8) | -- | 104.0 (78.1–132.0) | 10.4 (9.1–12.2) | -- |
| Narok | 579.9 (533.4–632.6) | 179.8 (145.4–216.0) | 60.7 (50.7–73.2) | 170.2 (151.8–190.0) | 90.5 (77.3–106.9) | 69.4 (59.4–79.3) | 10.3 (8.6–12.0) | – | 3.1 (2.8–3.4) | 1.7 (1.4–2.0) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.8 (0.6–0.9) | 36.7 (28.2–47.1) | -- | 105.9 (80.0–133.0) | 10.8 (9.4–12.8) | -- |
| Nyamira | 646.9 (595.8–699.8) | 180.5 (146.2–213.7) | 80.1 (66.2–95.3) | 214.5 (190.8–240.0) | 99.2 (85.3–117.2) | 103.8 (88.9–117.6) | 11.5 (9.7–13.4) | – | 3.3 (3.0–3.6) | 1.9 (1.6–2.2) | 1.4 (1.3–1.5) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.9 (0.7–1.1) | 37.5 (28.9–47.8) | -- | 106.3 (81.9–135.3) | 11.8 (10.3–13.6) | -- |
| Nyandarua | 607.2 (562.1–659.4) | 177.2 (144.1–211.1) | 68.1 (56.8–82.3) | 189.4 (170.4–213.1) | 100.1 (86.1–117.7) | 77.9 (65.9–89.0) | 11.4 (9.7–13.1) | – | 3.3 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 37.5 (28.8–48.2) | -- | 107.4 (82.3–136.3) | 11.7 (10.2–13.6) | -- |
| Nyeri | 577.3 (530.2–629.8) | 175.4 (141.4–210.7) | 63.0 (52.2–76.4) | 165.2 (148.4–186.0) | 95.7 (81.7–111.4) | 59.2 (49.9–67.8) | 10.3 (8.6–11.9) | – | 3.3 (3.0–3.6) | 2.0 (1.6–2.2) | 1.3 (1.2–1.5) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 37.5 (28.6–48.5) | -- | 108.8 (83.3–138.3) | 11.4 (9.9–13.4) | -- |
| Samburu | 556.7 (514.0–602.7) | 180.6 (145.7–214.5) | 54.0 (44.8–64.4) | 153.9 (138.1–171.8) | 80.8 (69.0–95.8) | 63.0 (53.1–72.3) | 10.1 (8.5–11.9) | – | 2.6 (2.3–2.8) | 1.3 (1.1–1.6) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.6–0.9) | 36.1 (28.0–46.2) | -- | 106.0 (81.4–133.5) | 10.9 (9.5–12.8) | -- |
| Siaya | 491.5 (445.1–541.8) | 181.4 (147.3–215.8) | 42.4 (34.8–52.3) | 98.1 (87.5–111.0) | 57.8 (49.4–68.3) | 32.4 (27.0–37.7) | 8.0 (6.6–9.4) | – | 2.7 (2.4–2.9) | 1.5 (1.2–1.7) | 1.2 (1.1–1.3) | -- | 11.8 (9.3–15.1) | 11.8 (9.3–15.1) | -- | -- | 1.1 (0.9–1.2) | 36.4 (28.1–46.9) | -- | 109.3 (84.1–138.8) | 8.2 (6.9–9.7) | -- |
| Taita Taveta | 571.4 (527.4–626.1) | 177.0 (144.4–213.8) | 64.4 (54.1–76.3) | 158.8 (141.6–178.7) | 79.0 (68.0–92.9) | 69.7 (60.1–79.5) | 10.1 (8.5–11.8) | – | 3.2 (2.9–3.5) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.1 (9.5–15.4) | 12.1 (9.5–15.4) | -- | -- | 1.1 (0.9–1.3) | 37.4 (28.9–47.5) | -- | 107.5 (83.1–138.1) | 9.9 (8.6–11.7) | -- |
| Tana River | 609.9 (563.8–662.1) | 181.4 (147.6–216.2) | 71.4 (59.9–85.0) | 190.7 (168.5–214.5) | 93.8 (80.3–111.1) | 86.6 (74.3–98.6) | 10.3 (8.7–12.0) | – | 2.8 (2.6–3.1) | 1.5 (1.3–1.7) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.9 (0.8–1.1) | 36.7 (28.0–45.8) | -- | 104.0 (80.2–131.9) | 9.9 (8.6–11.6) | -- |
| Tharaka Nithi | 596.4 (549.2–651.6) | 178.5 (146.5–215.1) | 69.7 (58.0–84.4) | 177.9 (158.4–199.3) | 92.2 (79.2–109.4) | 75.1 (64.0–84.5) | 10.7 (9.0–12.3) | – | 3.3 (2.9–3.6) | 1.9 (1.6–2.2) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 1.1 (0.9–1.3) | 37.6 (29.0–48.8) | -- | 106.1 (80.9–134.8) | 10.2 (8.8–11.9) | -- |
| Trans Nzoia | 572.1 (525.9–623.2) | 175.7 (142.4–214.2) | 60.3 (50.1–71.9) | 170.1 (151.1–192.8) | 99.2 (85.2–117.2) | 61.2 (51.7–69.7) | 9.7 (8.1–11.4) | – | 3.1 (2.8–3.4) | 1.8 (1.5–2.1) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 36.7 (27.9–46.4) | -- | 103.5 (80.1–131.5) | 9.9 (8.5–11.8) | -- |
| Turkana | 536.6 (491.1–586.8) | 181.9 (149.5–219.7) | 53.0 (44.2–63.6) | 135.7 (120.7–152.3) | 70.3 (59.9–83.4) | 56.3 (47.2–64.2) | 9.2 (7.7–10.7) | – | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.8 (0.6–0.9) | 36.0 (27.8–45.4) | -- | 103.6 (79.8–132.0) | 11.0 (9.5–13.0) | -- |
| Uasin Gishu | 525.5 (478.7–579.7) | 142.4 (107.6–181.2) | 60.9 (50.4–74.5) | 155.2 (137.7–175.9) | 86.4 (73.4–102.0) | 59.1 (49.6–67.5) | 9.7 (8.1–11.4) | – | 3.3 (3.0–3.6) | 2.0 (1.7–2.3) | 1.3 (1.2–1.4) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.7 (0.5–0.8) | 37.3 (28.6–47.7) | -- | 103.6 (80.3–130.9) | 10.1 (8.7–11.9) | -- |
| Vihiga | 572.3 (525.9–623.9) | 178.8 (146.0–212.9) | 60.7 (50.1–73.1) | 161.7 (144.8–182.3) | 83.5 (71.6–98.4) | 67.4 (57.2–77.2) | 10.8 (8.9–12.6) | – | 3.0 (2.7–3.3) | 1.7 (1.4–1.9) | 1.3 (1.2–1.4) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.9 (0.8–1.1) | 36.6 (27.8–46.5) | -- | 108.9 (84.3–140.0) | 9.8 (8.5–11.4) | -- |
| Wajir | 549.3 (504.6–600.2) | 180.5 (147.5–216.7) | 51.7 (39.0–66.7) | 159.5 (141.8–180.2) | 73.0 (62.2–86.6) | 77.0 (66.1–88.1) | 9.5 (8.0–11.0) | – | 2.7 (2.4–2.9) | 1.3 (1.1–1.6) | 1.4 (1.2–1.5) | -- | 12.2 (9.7–15.7) | 12.2 (9.7–15.7) | -- | -- | 0.7 (0.6–0.8) | 36.5 (27.9–46.7) | -- | 97.0 (75.0–124.8) | 8.4 (7.3–9.9) | -- |
| West Pokot | 559.9 (513.6–611.7) | 181.2 (148.8–219.0) | 53.8 (44.2–64.6) | 156.6 (140.7–173.7) | 78.3 (67.5–92.2) | 68.3 (58.0–77.5) | 10.0 (8.3–11.6) | – | 2.8 (2.5–3.0) | 1.5 (1.3–1.7) | 1.3 (1.2–1.4) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.8 (0.6–1.0) | 36.4 (28.0–46.4) | -- | 105.1 (80.5–134.2) | 11.2 (9.8–13.1) | -- |
| Madagascar | 630.4 (584.1–681.6) | 178.7 (145.5–216.3) | 67.9 (58.2–79.9) | 225.0 (204.6–246.9) | 119.7 (103.9–137.0) | 92.6 (82.4–103.4) | 12.6 (10.5–14.7) | – | 3.3 (3.0–3.7) | 1.8 (1.6–2.0) | 1.5 (1.3–1.8) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.9 (0.7–1.0) | 33.4 (25.5–43.0) | -- | 95.1 (72.5–120.8) | 15.3 (13.8–17.3) | -- |
| Malawi | 559.8 (516.7–613.0) | 185.4 (151.7–222.4) | 51.8 (45.1–60.2) | 162.8 (146.2–179.8) | 89.2 (76.5–102.4) | 63.5 (56.3–71.4) | 10.1 (8.4–11.9) | – | 3.1 (2.7–3.4) | 1.8 (1.6–2.0) | 1.3 (1.1–1.5) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.9 (0.7–1.1) | 34.5 (26.3–44.4) | -- | 102.6 (79.4–132.3) | 7.9 (6.9–9.2) | -- |
| Mozambique | 663.3 (615.4–718.1) | 191.9 (156.7–230.2) | 77.9 (67.4–89.1) | 233.0 (211.2–256.4) | 124.0 (106.9–143.3) | 97.3 (87.5–107.9) | 11.7 (9.6–13.6) | – | 3.4 (3.0–3.7) | 1.9 (1.7–2.1) | 1.4 (1.2–1.7) | -- | 10.7 (8.5–13.9) | 10.7 (8.5–13.9) | -- | -- | 0.9 (0.7–1.1) | 33.7 (25.7–42.9) | -- | 102.8 (79.1–134.1) | 9.0 (8.0–10.3) | -- |
| Rwanda | 539.2 (498.7–584.3) | 163.3 (132.6–196.3) | 55.7 (47.7–64.9) | 154.8 (140.0–171.9) | 78.8 (67.1–93.1) | 65.7 (56.9–74.0) | 10.3 (8.6–12.2) | – | 3.4 (3.0–3.8) | 2.0 (1.7–2.2) | 1.4 (1.2–1.7) | -- | 10.7 (8.5–13.9) | 10.7 (8.5–13.9) | -- | -- | 0.9 (0.8–1.1) | 33.6 (25.7–43.5) | -- | 108.1 (82.5–136.8) | 8.7 (7.6–10.0) | -- |
| Somalia | 572.3 (525.8–615.9) | 188.0 (154.0–221.1) | 52.0 (44.0–60.6) | 175.8 (159.4–194.5) | 88.7 (76.5–104.6) | 76.6 (69.1–85.7) | 10.5 (8.7–12.3) | – | 2.4 (2.1–2.7) | 1.3 (1.1–1.5) | 1.1 (0.9–1.2) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.9 (0.7–1.0) | 32.0 (24.8–41.4) | -- | 101.4 (77.8–129.2) | 9.0 (7.9–10.2) | -- |
| South Sudan | 550.6 (511.0–599.2) | 181.9 (147.1–216.7) | 53.4 (45.5–63.0) | 160.2 (144.4–179.0) | 88.3 (75.9–103.0) | 62.4 (55.0–70.1) | 9.5 (8.0–11.1) | – | 2.8 (2.5–3.1) | 1.6 (1.3–1.8) | 1.2 (1.0–1.4) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.9 (0.7–1.0) | 33.9 (26.3–43.3) | -- | 97.1 (74.2–125.8) | 9.7 (8.4–11.1) | -- |
| Uganda | 554.5 (515.9–602.1) | 172.8 (141.6–206.5) | 58.5 (50.6–66.9) | 162.7 (144.6–180.4) | 93.0 (79.2–108.7) | 60.4 (52.6–68.6) | 9.2 (7.7–10.8) | – | 3.0 (2.7–3.4) | 1.7 (1.5–2.0) | 1.3 (1.1–1.5) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 1.0 (0.8–1.2) | 34.4 (26.5–44.2) | -- | 101.7 (79.2–128.7) | 9.8 (8.7–11.2) | -- |
| United Republic of Tanzania | 573.1 (523.1–621.4) | 181.7 (146.8–216.5) | 51.6 (45.0–59.9) | 180.8 (162.9–201.4) | 106.6 (91.6–123.7) | 64.5 (57.0–72.8) | 9.7 (8.1–11.2) | – | 3.5 (3.1–3.8) | 2.0 (1.7–2.3) | 1.5 (1.2–1.7) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.8 (0.7–1.0) | 36.8 (27.9–47.2) | -- | 97.2 (74.7–122.9) | 10.0 (8.9–11.5) | -- |
| Zambia | 613.2 (567.3–666.8) | 191.3 (154.2–229.5) | 54.3 (47.2–62.9) | 206.7 (186.7–226.9) | 115.6 (100.0–134.2) | 81.0 (73.3–89.8) | 10.1 (8.7–11.6) | – | 3.9 (3.5–4.3) | 2.2 (1.9–2.5) | 1.7 (1.4–2.0) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 1.1 (0.9–1.3) | 32.4 (24.8–40.8) | -- | 104.2 (80.2–133.8) | 8.6 (7.5–10.0) | -- |
| Southern Sub-Saharan Africa | 541.8 (504.7–587.6) | 118.5 (96.9–141.7) | 78.9 (67.3–92.2) | 154.7 (138.2–173.1) | 97.5 (84.4–114.0) | 48.1 (42.1–53.7) | 9.1 (7.8–10.4) | – | 3.4 (3.0–3.8) | 2.4 (2.0–2.7) | 1.1 (1.0–1.1) | -- | 11.6 (9.2–14.9) | 11.6 (9.2–14.9) | -- | -- | 0.8 (0.6–0.9) | 44.6 (34.1–56.9) | -- | 122.7 (94.5–156.9) | 6.5 (5.6–7.7) | -- |
| Botswana | 510.9 (471.7–556.3) | 133.2 (106.7–160.4) | 69.9 (60.2–81.1) | 129.7 (116.6–145.0) | 84.0 (72.1–97.9) | 38.2 (33.4–42.8) | 7.5 (6.3–8.9) | – | 3.5 (3.1–3.8) | 2.2 (1.8–2.5) | 1.3 (1.1–1.5) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.9 (0.7–1.1) | 41.2 (31.3–53.1) | -- | 115.8 (88.7–147.9) | 6.0 (5.1–7.2) | -- |
| Eswatini | 556.7 (518.8–600.9) | 123.3 (101.2–148.0) | 79.8 (68.4–93.3) | 180.3 (163.1–198.2) | 101.2 (86.0–117.7) | 70.8 (64.9–78.5) | 8.2 (7.0–9.5) | – | 3.4 (3.0–3.7) | 2.1 (1.8–2.5) | 1.2 (1.1–1.4) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.8 (0.6–0.9) | 41.4 (31.4–53.2) | -- | 110.8 (85.8–143.6) | 6.2 (5.4–7.2) | -- |
| Lesotho | 621.6 (579.9–668.0) | 128.9 (104.6–152.8) | 80.0 (68.4–93.0) | 232.9 (212.1–254.0) | 114.7 (99.6–134.0) | 107.0 (96.9–116.5) | 11.1 (9.5–12.9) | – | 3.2 (2.8–3.6) | 2.0 (1.6–2.2) | 1.3 (1.1–1.5) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.8 (0.6–0.9) | 38.6 (29.6–49.4) | -- | 119.6 (91.6–152.8) | 6.9 (6.0–8.0) | -- |
| Namibia | 538.3 (503.0–581.3) | 107.0 (87.4–131.2) | 85.6 (73.2–98.9) | 172.4 (156.4–189.3) | 104.9 (90.7–121.9) | 59.0 (52.7–66.2) | 8.6 (7.3–9.9) | – | 3.3 (3.0–3.7) | 2.1 (1.8–2.4) | 1.2 (1.1–1.5) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.8 (0.7–1.0) | 39.6 (30.1–50.7) | -- | 111.2 (85.3–141.1) | 7.6 (6.6–8.8) | -- |
| South Africa | 524.6 (487.9–571.9) | 116.1 (95.2–139.7) | 74.2 (61.8–88.1) | 141.8 (125.5–160.1) | 93.1 (79.6–109.8) | 41.4 (35.4–47.0) | 7.3 (6.1–8.4) | – | 3.5 (3.1–3.9) | 2.5 (2.1–2.9) | 1.0 (0.9–1.1) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.7 (0.6–0.9) | 45.8 (35.1–58.4) | -- | 123.9 (95.2–158.1) | 6.7 (5.7–7.9) | -- |
| Eastern Cape | 537.1 (498.0–585.4) | 118.3 (96.9–140.6) | 74.1 (61.3–89.4) | 152.4 (134.3–173.9) | 98.4 (83.6–116.5) | 46.6 (39.4–53.3) | 7.4 (6.3–8.6) | – | 3.1 (2.7–3.4) | 2.1 (1.7–2.4) | 1.0 (0.9–1.1) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 1.0 (0.8–1.1) | 45.9 (35.2–58.2) | -- | 124.0 (94.0–159.0) | 6.4 (5.4–7.5) | -- |
| Free State | 546.6 (504.6–593.7) | 118.0 (96.5–142.9) | 79.7 (67.4–94.2) | 151.7 (134.7–170.3) | 98.0 (83.3–116.0) | 46.1 (39.5–52.4) | 7.5 (6.4–8.7) | – | 3.6 (3.2–3.9) | 2.4 (2.0–2.8) | 1.1 (1.0–1.2) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.8 (0.6–0.9) | 47.0 (36.1–60.2) | -- | 127.8 (99.0–160.1) | 6.2 (5.4–7.3) | -- |
| Gauteng | 499.4 (462.3–546.0) | 115.1 (92.3–137.7) | 72.1 (59.2–87.2) | 122.6 (108.7–139.4) | 80.8 (68.4–95.3) | 34.7 (29.2–39.7) | 7.1 (6.0–8.2) | – | 4.2 (3.7–4.6) | 3.2 (2.6–3.6) | 1.0 (1.0–1.1) | -- | 12.0 (9.5–15.4) | 12.0 (9.5–15.4) | -- | -- | 0.6 (0.5–0.8) | 45.6 (34.7–57.3) | -- | 120.8 (93.1–153.6) | 6.4 (5.4–7.8) | -- |
| KwaZulu-Natal | 524.4 (483.7–573.4) | 116.9 (94.6–140.3) | 73.5 (60.5–87.8) | 140.9 (124.8–160.5) | 94.7 (80.5–112.8) | 39.1 (33.3–44.8) | 7.1 (5.9–8.2) | – | 3.2 (2.8–3.6) | 2.2 (1.8–2.6) | 1.0 (0.9–1.0) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.8 (0.7–1.0) | 45.8 (35.0–58.1) | -- | 124.6 (95.2–160.7) | 6.8 (5.8–8.0) | -- |
| Limpopo | 528.1 (492.7–578.0) | 116.1 (95.7–140.6) | 65.2 (54.6–76.7) | 157.8 (139.3–177.6) | 104.5 (88.5–122.1) | 45.9 (39.3–52.2) | 7.4 (6.2–8.6) | – | 2.6 (2.3–2.9) | 1.6 (1.3–1.9) | 1.0 (0.9–1.1) | -- | 11.8 (9.3–15.1) | 11.8 (9.3–15.1) | -- | -- | 0.7 (0.6–0.8) | 44.1 (33.7–56.3) | -- | 122.8 (94.2–158.0) | 6.8 (5.8–8.1) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mpumalanga | 527.7 (484.7–576.6) | 116.6 (95.8–141.4) | 74.7 (61.5–90.8) | 146.6 (129.3–167.3) | 97.9 (83.4–117.3) | 41.7 (35.3–47.7) | 7.0 (5.9–8.3) | -- | 2.9 (2.6–3.2) | 1.9 (1.6–2.2) | 1.0 (0.9–1.1) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.7 (0.6–0.8) | 45.2 (34.6–58.4) | -- | 121.9 (92.7–158.5) | 7.2 (6.2–8.5) | -- |
| North-West | 592.5 (548.7–648.5) | 117.9 (97.1–142.8) | 95.5 (78.9–115.5) | 188.0 (166.0–212.6) | 117.1 (98.6–140.9) | 62.8 (54.5–70.6) | 8.1 (6.8–9.2) | -- | 3.1 (2.8–3.5) | 2.1 (1.7–2.4) | 1.1 (1.0–1.1) | -- | 12.0 (9.4–15.3) | 12.0 (9.4–15.3) | -- | -- | 0.8 (0.6–0.9) | 46.3 (35.5–59.5) | -- | 121.6 (93.4–153.4) | 7.2 (6.2–8.5) | -- |
| Northern Cape | 563.4 (523.5–615.8) | 117.4 (95.5–141.7) | 90.0 (74.9–107.6) | 156.9 (139.2–178.1) | 99.3 (84.3–119.0) | 50.0 (43.2–56.8) | 7.5 (6.4–8.7) | -- | 3.4 (3.0–3.8) | 2.4 (2.0–2.7) | 1.1 (1.0–1.1) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.8 (0.7–1.0) | 46.5 (35.6–59.4) | -- | 129.8 (100.1–166.2) | 6.7 (5.8–7.9) | -- |
| Western Cape | 504.0 (464.2–552.4) | 112.8 (91.9–139.3) | 72.0 (60.1–86.2) | 120.1 (106.8–135.1) | 78.5 (67.3–92.5) | 34.3 (29.3–39.4) | 7.3 (6.1–8.6) | -- | 4.5 (3.9–5.1) | 3.5 (2.9–4.0) | 1.0 (0.9–1.1) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.6 (0.5–0.8) | 47.1 (36.2–60.2) | -- | 127.8 (98.1–165.9) | 7.1 (5.9–8.4) | -- |
| Zimbabwe | 619.1 (577.0–669.2) | 128.0 (103.3–153.5) | 101.2 (87.4–118.0) | 209.2 (189.8–228.7) | 116.8 (100.3–135.2) | 72.8 (66.8–78.7) | 19.6 (16.3–22.5) | -- | 3.0 (2.7–3.3) | 1.8 (1.6–2.1) | 1.2 (1.0–1.4) | -- | 10.7 (8.5–13.9) | 10.7 (8.5–13.9) | -- | -- | 0.8 (0.6–0.9) | 39.7 (30.6–51.3) | -- | 121.2 (94.8–155.2) | 5.3 (4.5–6.3) | -- |
| Western Sub-Saharan Africa | 569.1 (530.0–615.8) | 142.5 (117.1–169.8) | 80.2 (69.3–92.7) | 176.5 (159.5–198.0) | 109.9 (95.7–126.5) | 58.3 (50.3–65.6) | 8.2 (6.9–9.5) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.3) | 1.2 (1.1–1.4) | -- | 11.3 (9.0–14.6) | 11.3 (9.0–14.6) | -- | -- | 0.6 (0.5–0.8) | 40.7 (31.1–52.1) | -- | 106.6 (81.4–137.3) | 8.1 (7.1–9.4) | -- |
| Benin | 562.1 (521.9–610.4) | 146.2 (119.5–176.3) | 73.2 (63.4–84.5) | 178.3 (161.4–197.2) | 106.0 (91.6–120.3) | 63.4 (54.9–71.8) | 9.0 (7.6–10.5) | -- | 2.4 (2.1–2.7) | 1.2 (1.0–1.3) | 1.2 (1.1–1.4) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.6 (0.5–0.8) | 37.9 (28.8–49.5) | -- | 103.9 (80.9–132.1) | 8.8 (7.8–10.0) | -- |
| Burkina Faso | 547.0 (501.8–590.1) | 149.6 (124.2–180.6) | 73.3 (63.0–85.4) | 160.3 (145.6–181.6) | 92.8 (79.7–108.4) | 59.2 (51.9–66.8) | 8.4 (6.9–9.8) | -- | 2.5 (2.2–2.7) | 1.2 (1.0–1.3) | 1.3 (1.1–1.5) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.6 (0.5–0.7) | 38.0 (28.5–49.0) | -- | 102.1 (78.7–132.2) | 9.9 (8.9–11.3) | -- |
| Cabo Verde | 582.5 (543.8–628.8) | 136.7 (110.9–164.8) | 98.1 (85.1–113.1) | 172.3 (155.6–193.0) | 112.6 (97.5–131.2) | 50.3 (43.7–57.0) | 9.4 (7.9–10.8) | -- | 3.1 (2.7–3.4) | 1.6 (1.4–1.8) | 1.4 (1.2–1.7) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 39.1 (29.8–50.4) | -- | 109.5 (83.4–140.3) | 12.3 (10.9–14.0) | -- |
| Cameroon | 618.2 (573.0–667.9) | 164.9 (135.1–195.9) | 78.6 (68.4–90.8) | 206.7 (186.7–229.8) | 118.2 (101.8–138.7) | 78.9 (69.0–88.4) | 9.5 (8.0–11.1) | -- | 2.8 (2.5–3.1) | 1.4 (1.2–1.6) | 1.4 (1.2–1.6) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.7 (0.6–0.9) | 40.5 (30.7–52.7) | -- | 104.4 (79.2–132.5) | 8.8 (7.7–10.0) | -- |
| Chad | 602.2 (561.0–653.2) | 149.9 (123.3–178.8) | 81.8 (70.3–93.9) | 207.8 (188.1–230.0) | 120.0 (103.6–138.5) | 78.4 (69.4–88.2) | 9.4 (7.9–11.0) | -- | 2.3 (2.0–2.5) | 1.0 (0.9–1.1) | 1.3 (1.1–1.5) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.6 (0.5–0.7) | 37.1 (28.5–47.5) | -- | 103.1 (79.0–132.9) | 8.8 (7.8–10.0) | -- |
| Côte d'Ivoire | 590.7 (545.3–637.1) | 145.8 (118.8–174.4) | 85.9 (74.2–98.5) | 192.1 (173.9–214.5) | 122.1 (106.6–140.3) | 62.2 (54.1–71.2) | 7.8 (6.5–9.0) | -- | 2.6 (2.3–2.9) | 1.3 (1.1–1.4) | 1.3 (1.1–1.5) | -- | 11.0 (8.7–14.3) | 11.0 (8.7–14.3) | -- | -- | 0.7 (0.6–0.8) | 39.8 (30.2–51.1) | -- | 105.1 (80.1–133.2) | 7.6 (6.6–8.8) | -- |
| Ghana | 620.0 (576.9–666.5) | 143.8 (117.5–171.8) | 82.6 (70.3–95.1) | 232.7 (207.7–255.8) | 144.0 (123.8–165.8) | 78.3 (69.5–87.4) | 10.4 (8.7–12.1) | -- | 2.7 (2.4–3.0) | 1.4 (1.2–1.6) | 1.3 (1.1–1.6) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.6 (0.5–0.8) | 40.0 (30.3–51.4) | -- | 98.3 (74.4–127.7) | 8.4 (7.4–9.7) | -- |
| Guinea | 588.5 (548.3–635.5) | 150.1 (122.7–178.9) | 77.2 (67.0–88.7) | 200.3 (181.7–223.5) | 118.0 (102.5–137.6) | 73.2 (64.5–83.0) | 9.1 (7.6–10.7) | -- | 2.5 (2.3–2.8) | 1.1 (1.0–1.3) | 1.4 (1.2–1.6) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.6 (0.5–0.8) | 37.3 (28.2–47.8) | -- | 101.8 (77.7–132.9) | 7.9 (6.8–9.0) | -- |
| Guinea-Bissau | 652.4 (607.4–701.3) | 151.9 (125.3–180.2) | 92.2 (80.4–105.0) | 243.0 (220.5–267.0) | 135.6 (117.5–156.2) | 97.0 (86.4–106.7) | 10.3 (8.6–12.1) | -- | 2.5 (2.3–2.8) | 1.2 (1.0–1.3) | 1.4 (1.2–1.6) | -- | 10.8 (8.5–14.0) | 10.8 (8.5–14.0) | -- | -- | 0.6 (0.5–0.8) | 38.0 (29.3–49.4) | -- | 105.9 (80.2–137.6) | 7.6 (6.7–8.7) | -- |
| Liberia | 611.9 (564.4–657.5) | 151.1 (123.7–183.3) | 88.8 (76.8–103.1) | 203.7 (181.6–230.7) | 125.9 (108.5–146.4) | 68.4 (59.2–77.3) | 9.5 (7.9–11.0) | -- | 2.3 (2.1–2.6) | 1.2 (1.0–1.4) | 1.1 (0.9–1.3) | -- | 10.9 (8.6–14.2) | 10.9 (8.6–14.2) | -- | -- | 0.7 (0.6–0.9) | 38.5 (29.3–49.6) | -- | 107.3 (81.5–139.5) | 8.7 (7.6–10.1) | -- |
| Mali | 517.2 (475.4–562.9) | 159.4 (129.9–191.6) | 54.3 (46.1–65.2) | 145.7 (130.1–163.3) | 88.2 (75.6–102.8) | 49.4 (43.0–56.0) | 8.1 (6.7–9.5) | -- | 2.1 (1.8–2.4) | 1.0 (0.8–1.1) | 1.1 (1.0–1.3) | -- | 10.9 (8.6–14.1) | 10.9 (8.6–14.1) | -- | -- | 0.6 (0.5–0.7) | 37.1 (28.6–47.7) | -- | 100.2 (77.4–130.5) | 7.0 (6.0–8.0) | -- |
| Mauritania | 565.0 (522.9–610.0) | 141.6 (114.4–171.5) | 92.8 (78.4–108.6) | 172.7 (153.1–194.9) | 113.2 (96.6–132.5) | 50.6 (43.9–57.3) | 8.9 (7.5–10.5) | -- | 2.5 (2.2–2.8) | 1.3 (1.1–1.5) | 1.2 (1.0–1.4) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.6 (0.4–0.7) | 39.1 (29.5–50.3) | -- | 96.3 (73.4–126.5) | 8.7 (7.5–10.0) | -- |
| Niger | 584.0 (538.9–630.3) | 150.8 (123.7–179.1) | 76.4 (65.4–88.6) | 196.6 (176.2–222.0) | 118.3 (103.4–138.5) | 68.9 (58.9–77.8) | 9.4 (7.8–11.0) | -- | 2.1 (1.8–2.3) | 1.0 (0.8–1.1) | 1.1 (0.9–1.3) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.6 (0.5–0.7) | 37.1 (28.2–47.5) | -- | 100.4 (75.5–128.5) | 9.3 (8.1–10.6) | -- |
| Nigeria | 540.2 (501.7–587.7) | 134.2 (110.2–160.3) | 81.1 (68.6–97.1) | 147.7 (132.3–167.1) | 96.1 (81.6–113.1) | 44.6 (37.5–50.9) | 6.9 (5.8–8.1) | -- | 2.3 (2.1–2.5) | 1.1 (1.0–1.3) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.6 (0.5–0.8) | 43.0 (32.9–54.7) | -- | 111.5 (85.3–142.7) | 7.8 (6.6–9.2) | -- |
| Abia | 526.9 (485.3–578.6) | 131.1 (107.8–158.4) | 80.6 (66.5–98.3) | 135.6 (119.7–153.0) | 89.6 (76.7–104.5) | 38.9 (32.4–44.6) | 7.1 (5.7–8.4) | -- | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.1 (1.1–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.5 (0.4–0.7) | 44.4 (34.1–56.1) | -- | 112.9 (86.2–143.1) | 7.6 (6.4–9.0) | -- |
| Adamawa | 561.9 (519.9–611.8) | 136.3 (111.0–163.8) | 87.6 (73.5–105.4) | 162.4 (144.5–184.5) | 105.4 (90.0–124.5) | 49.9 (42.2–57.4) | 7.0 (5.8–8.2) | -- | 2.3 (2.1–2.4) | 1.0 (0.9–1.2) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.7 (0.6–0.8) | 42.7 (33.0–55.0) | -- | 110.5 (84.0–138.7) | 7.5 (6.4–8.9) | -- |
| Akwa Ibom | 534.1 (491.7–584.8) | 134.1 (108.6–162.3) | 81.0 (67.4–97.9) | 139.6 (124.1–158.0) | 91.0 (76.9–107.4) | 41.4 (35.1–48.3) | 7.2 (6.0–8.5) | -- | 2.4 (2.2–2.6) | 1.3 (1.0–1.4) | 1.1 (1.0–1.2) | -- | 11.8 (9.3–14.9) | 11.8 (9.3–14.9) | -- | -- | 0.6 (0.5–0.7) | 43.1 (32.9–55.6) | -- | 113.9 (86.4–146.5) | 7.6 (6.5–8.9) | -- |
| Anambra | 516.6 (476.0–568.6) | 130.4 (105.7–157.5) | 77.1 (64.1–93.4) | 131.6 (115.3–149.8) | 86.6 (72.8–102.1) | 37.9 (31.7–43.6) | 7.1 (5.8–8.4) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.4) | 1.2 (1.1–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.7 (0.6–0.9) | 43.0 (32.9–54.4) | -- | 112.2 (86.1–142.9) | 7.4 (6.2–8.7) | -- |
| Bauchi | 573.0 (531.9–621.1) | 139.2 (113.1–166.2) | 85.9 (72.8–103.1) | 173.1 (154.8–195.5) | 110.9 (94.7–132.9) | 55.5 (46.9–63.9) | 6.7 (5.7–7.9) | -- | 2.1 (1.9–2.3) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.7) | 42.2 (32.4–53.7) | -- | 109.8 (84.3–141.4) | 8.0 (7.0–9.3) | -- |
| Bayelsa | 527.0 (487.7–576.4) | 131.8 (107.3–160.0) | 78.0 (65.1–94.3) | 138.2 (123.8–157.3) | 89.0 (75.9–105.0) | 41.9 (35.0–48.7) | 7.2 (6.0–8.4) | -- | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.5 (0.4–0.6) | 43.0 (32.9–55.2) | -- | 113.0 (86.8–142.3) | 8.2 (7.0–9.6) | -- |
| Benue | 552.5 (513.8–602.8) | 136.7 (111.6–164.2) | 86.0 (72.2–104.5) | 150.4 (134.4–170.2) | 97.5 (82.6–115.1) | 45.8 (38.5–52.4) | 7.1 (5.9–8.3) | -- | 2.3 (2.1–2.5) | 1.1 (0.9–1.3) | 1.2 (1.1–1.3) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.7 (0.6–0.8) | 42.7 (32.5–54.9) | -- | 114.0 (86.5–147.9) | 7.8 (6.7–9.3) | -- |
| Borno | 552.1 (511.4–601.4) | 137.8 (111.9–164.0) | 78.0 (64.5–93.8) | 166.0 (146.6–190.8) | 105.9 (89.5–125.9) | 53.2 (45.1–61.3) | 6.9 (5.8–8.1) | -- | 2.1 (1.9–2.2) | 0.9 (0.7–1.0) | 1.2 (1.1–1.2) | -- | 11.9 (9.5–15.2) | 11.9 (9.5–15.2) | -- | -- | 0.5 (0.4–0.7) | 42.5 (32.1–54.4) | -- | 104.7 (80.7–135.8) | 8.6 (7.5–10.0) | -- |
| Cross River | 531.6 (491.9–580.8) | 133.4 (107.9–159.4) | 79.0 (66.0–94.8) | 137.9 (122.5–155.6) | 89.8 (76.3–106.2) | 40.7 (34.5–46.8) | 7.4 (6.2–8.7) | -- | 2.4 (2.2–2.6) | 1.3 (1.0–1.5) | 1.1 (1.1–1.2) | -- | 11.7 (9.2–14.9) | 11.7 (9.2–14.9) | -- | -- | 0.7 (0.6–0.8) | 43.2 (32.7–55.2) | -- | 114.9 (88.4–148.6) | 8.3 (7.0–9.8) | -- |
| Delta | 525.5 (485.2–575.3) | 132.0 (105.9–157.6) | 77.8 (64.5–95.5) | 136.6 (121.2–156.0) | 88.7 (75.6–105.4) | 41.0 (34.8–46.9) | 6.9 (5.7–8.0) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.8 (9.4–15.1) | 11.8 (9.4–15.1) | -- | -- | 0.7 (0.6–0.9) | 43.9 (33.8–55.9) | -- | 112.7 (85.2–144.2) | 7.6 (6.4–9.0) | -- |
| Ebonyi | 540.6 (501.0–588.7) | 134.5 (111.3–161.3) | 83.8 (69.6–101.6) | 143.9 (129.3–162.2) | 87.6 (75.1–102.0) | 49.0 (41.3–55.9) | 7.3 (6.1–8.7) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.4) | 1.2 (1.1–1.3) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.7 (0.6–0.8) | 43.0 (32.8–54.4) | -- | 112.8 (86.3–147.3) | 7.6 (6.5–9.1) | -- |
| Edo | 523.9 (483.6–572.0) | 132.0 (106.1–158.9) | 77.1 (63.8–92.4) | 134.8 (121.1–152.3) | 89.1 (75.5–104.2) | 38.9 (32.6–44.6) | 6.9 (5.6–8.1) | -- | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.6 (0.5–0.8) | 43.7 (33.7–56.5) | -- | 113.5 (86.9–146.3) | 7.7 (6.5–9.1) | -- |
| Ekiti | 509.1 (466.5–557.3) | 131.1 (106.4–158.1) | 78.5 (65.2–94.8) | 119.6 (106.7–134.7) | 74.6 (64.3–88.4) | 39.4 (33.3–45.4) | 5.6 (4.7–6.6) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.6 (0.5–0.7) | 43.7 (33.6–55.9) | -- | 113.4 (87.0–145.6) | 7.8 (6.6–9.3) | -- |
| Enugu | 550.7 (510.7–602.2) | 133.6 (108.3–160.3) | 89.9 (74.9–108.0) | 144.6 (128.6–164.4) | 95.5 (81.0–114.5) | 42.0 (35.5–48.7) | 7.0 (5.8–8.3) | -- | 2.4 (2.2–2.6) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.7 (0.6–0.8) | 45.1 (34.5–57.1) | -- | 115.0 (87.5–144.9) | 7.5 (6.4–8.9) | -- |
| FCT (Abuja) | 512.6 (472.4–565.8) | 129.0 (105.4–154.8) | 82.6 (68.2–99.6) | 125.8 (112.1–142.1) | 80.5 (69.3–94.0) | 38.4 (32.2–44.3) | 6.9 (5.6–8.2) | -- | 2.3 (2.1–2.5) | 1.2 (1.0–1.3) | 1.1 (1.0–1.2) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.6 (0.5–0.8) | 43.5 (33.3–55.6) | -- | 109.2 (83.5–139.6) | 7.7 (6.6–9.1) | -- |
| Gombe | 565.8 (523.4–616.7) | 138.3 (113.1–165.8) | 85.9 (72.6–103.9) | 166.4 (148.1–190.0) | 107.6 (92.5–127.2) | 51.9 (43.4–59.7) | 6.9 (5.8–8.1) | -- | 2.2 (2.0–2.3) | 0.9 (0.8–1.1) | 1.2 (1.1–1.3) | -- | 11.8 (9.4–15.1) | 11.8 (9.4–15.1) | -- | -- | 0.5 (0.4–0.7) | 42.1 (32.2–54.0) | -- | 111.0 (85.9–141.9) | 7.6 (6.5–8.8) | -- |
| Imo | 530.4 (490.7–582.2) | 131.1 (108.1–155.8) | 81.6 (67.5–99.1) | 137.5 (122.0–156.3) | 90.8 (76.8–106.3) | 39.4 (32.8–45.8) | 7.3 (6.0–8.6) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.4) | 1.1 (1.0–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.5 (0.4–0.7) | 44.1 (33.5–56.2) | -- | 113.5 (85.1–144.4) | 7.8 (6.5–9.3) | -- |
| Jigawa | 597.8 (555.8–646.4) | 139.5 (115.7–164.4) | 92.3 (77.2–111.7) | 192.1 (170.4–218.2) | 125.3 (106.6–146.8) | 60.0 (50.4–68.7) | 6.8 (5.6–8.0) | -- | 2.1 (1.9–2.3) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 12.1 (9.6–15.4) | 12.1 (9.6–15.4) | -- | -- | 0.6 (0.5–0.7) | 42.5 (32.3–54.5) | -- | 108.5 (83.9–140.6) | 8.2 (7.1–9.4) | -- |
| Kaduna | 550.1 (509.1–601.5) | 134.3 (109.3–160.9) | 84.2 (70.5–101.5) | 157.0 (139.1–179.7) | 103.2 (88.0–122.4) | 47.1 (39.9–54.3) | 6.8 (5.6–7.9) | -- | 2.2 (2.0–2.4) | 1.0 (0.9–1.2) | 1.2 (1.1–1.3) | -- | 11.9 (9.5–15.2) | 11.9 (9.5–15.2) | -- | -- | 0.6 (0.4–0.7) | 42.9 (32.8–54.7) | -- | 109.5 (83.1–141.0) | 7.6 (6.5–8.9) | -- |
| Kano | 565.6 (525.0–615.7) | 136.9 (111.2–166.5) | 87.3 (72.5–104.9) | 168.5 (149.6–190.4) | 111.2 (94.3–131.4) | 50.8 (42.5–58.4) | 6.5 (5.4–7.6) | -- | 2.1 (1.9–2.3) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 11.9 (9.5–15.2) | 11.9 (9.5–15.2) | -- | -- | 0.6 (0.5–0.8) | 42.7 (32.5–55.3) | -- | 108.2 (82.6–138.1) | 7.3 (6.3–8.5) | -- |
| Katsina | 565.5 (522.3–612.9) | 138.6 (113.7–165.2) | 83.3 (69.7–100.1) | 170.3 (151.6–195.1) | 110.6 (94.0–129.2) | 53.2 (44.7–60.8) | 6.5 (5.4–7.5) | -- | 2.1 (1.9–2.2) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 42.4 (32.5–54.4) | -- | 108.4 (84.1–137.5) | 7.9 (6.8–9.2) | -- |
| Kebbi | 571.1 (530.6–618.2) | 138.8 (114.3–167.4) | 85.1 (71.5–103.5) | 172.3 (153.4–192.7) | 108.9 (93.3–127.8) | 56.4 (47.9–64.6) | 7.0 (5.9–8.2) | -- | 2.1 (1.9–2.3) | 0.9 (0.8–1.1) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.8) | 42.0 (32.2–53.5) | -- | 110.0 (85.4–140.5) | 8.1 (7.0–9.4) | -- |
| Kogi | 539.6 (497.3–589.5) | 132.5 (107.6–159.0) | 83.5 (70.6–100.2) | 144.4 (127.7–163.6) | 95.4 (82.3–113.8) | 41.7 (34.8–47.8) | 7.3 (6.0–8.6) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.4) | 1.2 (1.1–1.2) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.5 (0.4–0.6) | 43.4 (33.0–56.2) | -- | 113.0 (86.7–145.0) | 8.1 (6.8–9.6) | -- |
| Kwara | 538.1 (495.2–588.2) | 132.0 (107.9–158.8) | 83.2 (69.5–101.0) | 144.3 (128.3–164.7) | 95.2 (80.4–113.0) | 41.9 (35.4–48.3) | 7.1 (6.0–8.3) | -- | 2.4 (2.2–2.6) | 1.3 (1.0–1.5) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 43.0 (32.9–55.3) | -- | 112.3 (86.8–144.0) | 8.3 (7.1–9.9) | -- |
| Lagos | 503.2 (463.2–550.0) | 127.5 (104.8–155.6) | 73.2 (60.7–89.2) | 124.8 (110.9–142.4) | 84.2 (72.0–98.6) | 33.8 (28.3–39.2) | 6.8 (5.5–8.1) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.5 (0.4–0.6) | 44.0 (33.4–56.3) | -- | 111.3 (85.0–143.4) | 7.6 (6.4–9.0) | -- |
| Nasarawa | 550.7 (508.7–600.3) | 134.6 (108.7–162.5) | 85.4 (71.3–102.6) | 153.9 (135.9–176.2) | 101.7 (85.5–122.0) | 45.2 (38.5–52.3) | 6.9 (5.8–8.2) | -- | 2.3 (2.1–2.5) | 1.1 (0.9–1.3) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.2) | 12.0 (9.5–15.2) | -- | -- | 0.5 (0.4–0.6) | 43.2 (33.0–55.2) | -- | 111.1 (85.2–141.6) | 7.8 (6.7–9.3) | -- |

**Age-standardized incidence rate (per 100,000), 2023**

| Location Name | Cardiovascular diseases | Rheumatic heart disease | Ischemic heart disease | Stroke | Ischemic stroke | Intracerebral hemorrhage | Subarachnoid hemorrhage | Hypertensive heart disease | Non-rheumatic valvular heart disease | Non-rheumatic calcific aortic valve disease | Non-rheumatic degenerative mitral valve disease | Other non-rheumatic valve diseases | Cardiomyopathy and myocarditis | Myocarditis | Alcoholic cardiomyopathy | Other cardiomyopathy | Pulmonary Arterial Hypertension | Atrial fibrillation and flutter | Aortic aneurysm | Lower extremity peripheral arterial disease | Endocarditis | Other cardiovascular and circulatory diseases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Niger | 549.1 (508.0–597.1) | 135.0 (109.9–161.6) | 82.6 (69.8–98.1) | 158.6 (140.8–180.9) | 102.3 (87.3–120.3) | 49.3 (41.1–56.9) | 7.0 (5.8–8.3) | -- | 2.1 (1.9–2.3) | 0.9 (0.8–1.1) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.5–0.7) | 42.3 (32.3–53.5) | -- | 108.0 (82.9–136.9) | 7.9 (6.8–9.4) | -- |
| Ogun | 520.6 (480.6–568.5) | 132.7 (108.6–160.6) | 75.2 (61.9–92.1) | 133.9 (118.5–152.0) | 86.4 (73.3–101.8) | 40.6 (34.3–47.0) | 6.9 (5.7–8.1) | -- | 2.4 (2.2–2.6) | 1.2 (1.0–1.4) | 1.2 (1.1–1.3) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.9 (0.7–1.1) | 42.6 (32.5–55.3) | -- | 113.7 (88.3–144.0) | 7.4 (6.3–8.8) | -- |
| Ondo | 529.6 (490.0–576.1) | 132.8 (108.4–159.2) | 77.7 (65.4–93.4) | 138.9 (123.3–159.9) | 90.4 (77.3–107.2) | 41.4 (34.8–47.5) | 7.1 (5.9–8.3) | -- | 2.5 (2.3–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.2) | 11.9 (9.4–15.2) | -- | -- | 0.7 (0.6–0.9) | 43.6 (33.6–55.7) | -- | 113.5 (87.6–144.7) | 7.9 (6.7–9.3) | -- |
| Osun | 487.8 (448.3–534.8) | 130.6 (106.7–157.1) | 59.9 (49.6–72.3) | 118.8 (105.1–134.1) | 76.7 (65.0–91.3) | 35.3 (29.7–41.0) | 6.9 (5.7–8.1) | -- | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.1 (1.1–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.9 (0.7–1.0) | 42.8 (32.4–55.0) | -- | 112.1 (85.9–144.8) | 8.5 (7.1–10.0) | -- |
| Oyo | 512.2 (471.8–558.9) | 131.0 (106.3–157.8) | 77.8 (64.4–92.6) | 129.7 (113.8–145.7) | 85.6 (72.6–100.9) | 37.2 (31.1–42.9) | 6.9 (5.8–8.1) | -- | 2.6 (2.3–2.8) | 1.4 (1.1–1.6) | 1.2 (1.1–1.3) | -- | 11.9 (9.4–15.1) | 11.9 (9.4–15.1) | -- | -- | 0.6 (0.5–0.7) | 40.8 (30.9–52.1) | -- | 109.1 (83.5–141.2) | 8.8 (7.5–10.4) | -- |
| Plateau | 554.2 (513.1–600.8) | 135.4 (110.0–163.1) | 85.0 (70.8–102.6) | 156.4 (138.7–176.7) | 103.6 (87.3–121.3) | 45.9 (38.5–52.6) | 6.9 (5.7–8.2) | -- | 2.3 (2.1–2.5) | 1.1 (1.0–1.3) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.5 (0.4–0.6) | 43.3 (32.9–56.4) | -- | 111.0 (84.8–140.8) | 8.3 (7.1–9.8) | -- |
| Rivers | 509.1 (470.0–559.1) | 131.8 (108.5–157.9) | 72.7 (60.7–87.3) | 127.1 (113.2–143.9) | 82.3 (70.5–97.2) | 38.1 (32.0–44.3) | 6.8 (5.6–8.0) | -- | 2.5 (2.2–2.7) | 1.3 (1.1–1.5) | 1.2 (1.1–1.2) | -- | 11.8 (9.3–15.0) | 11.8 (9.3–15.0) | -- | -- | 0.9 (0.7–1.1) | 42.2 (32.6–53.5) | -- | 112.0 (87.0–143.7) | 8.0 (6.8–9.6) | -- |
| Sokoto | 589.6 (549.1–639.6) | 138.5 (113.7–165.7) | 95.1 (79.0–115.3) | 179.2 (159.4–201.4) | 117.0 (99.7–139.2) | 55.5 (46.5–63.8) | 6.7 (5.5–7.8) | -- | 2.1 (2.0–2.3) | 0.9 (0.8–1.1) | 1.2 (1.2–1.3) | -- | 12.1 (9.6–15.5) | 12.1 (9.6–15.5) | -- | -- | 0.7 (0.6–0.8) | 44.0 (33.2–56.4) | -- | 110.4 (84.9–140.9) | 7.5 (6.4–8.7) | -- |
| Taraba | 550.9 (507.3–598.9) | 137.7 (113.3–166.0) | 80.9 (68.4–97.7) | 154.4 (137.7–174.5) | 98.6 (83.5–116.8) | 48.8 (41.0–55.7) | 7.0 (5.8–8.2) | -- | 2.3 (2.1–2.4) | 1.1 (0.9–1.2) | 1.2 (1.1–1.3) | -- | 11.8 (9.4–15.1) | 11.8 (9.4–15.1) | -- | -- | 0.6 (0.5–0.7) | 42.7 (32.4–54.7) | -- | 112.5 (85.4–143.9) | 8.0 (6.8–9.2) | -- |
| Yobe | 569.7 (529.6–620.7) | 137.6 (114.4–165.0) | 86.0 (72.6–103.8) | 173.7 (154.2–196.9) | 114.3 (97.5–135.8) | 52.7 (44.0–61.5) | 6.7 (5.6–8.0) | -- | 2.0 (1.9–2.2) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.6 (0.4–0.7) | 42.5 (32.8–54.2) | -- | 107.4 (82.9–137.9) | 7.9 (6.7–9.2) | -- |
| Zamfara | 552.5 (515.4–601.7) | 138.3 (113.8–165.6) | 79.6 (67.0–96.7) | 160.9 (142.2–181.7) | 102.3 (86.6–121.4) | 52.1 (44.3–59.9) | 6.5 (5.5–7.5) | -- | 2.1 (1.9–2.2) | 0.9 (0.7–1.0) | 1.2 (1.1–1.3) | -- | 12.0 (9.5–15.3) | 12.0 (9.5–15.3) | -- | -- | 0.7 (0.6–0.9) | 42.1 (31.8–53.4) | -- | 109.4 (83.3–139.4) | 7.4 (6.4–8.6) | -- |
| Sao Tome and Principe | 577.9 (535.8–628.3) | 142.3 (116.4–171.5) | 80.7 (68.0–93.4) | 189.4 (170.3–212.7) | 114.0 (99.5–132.9) | 65.3 (56.9–72.9) | 10.1 (8.4–11.7) | -- | 2.5 (2.2–2.8) | 1.3 (1.1–1.5) | 1.2 (1.0–1.4) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.5 (0.4–0.6) | 40.0 (30.4–51.4) | -- | 102.5 (78.2–132.5) | 9.2 (8.0–10.6) | -- |
| Senegal | 654.6 (608.4–706.9) | 132.4 (108.4–158.9) | 91.7 (79.2–104.9) | 263.2 (235.9–290.1) | 164.5 (141.1–189.0) | 87.7 (76.6–99.8) | 10.9 (9.1–12.7) | -- | 2.2 (2.0–2.5) | 1.1 (0.9–1.2) | 1.1 (1.0–1.3) | -- | 10.8 (8.6–14.0) | 10.8 (8.6–14.0) | -- | -- | 0.7 (0.5–0.8) | 39.0 (29.8–49.9) | -- | 106.4 (81.4–136.1) | 8.1 (7.1–9.4) | -- |
| Sierra Leone | 599.4 (559.3–648.3) | 150.5 (122.8–178.0) | 79.9 (69.6–91.3) | 201.5 (180.4–226.4) | 121.5 (104.4–140.3) | 70.6 (61.1–79.7) | 9.4 (7.7–11.0) | -- | 2.2 (2.0–2.5) | 1.1 (0.9–1.2) | 1.1 (1.0–1.4) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.6 (0.5–0.7) | 40.7 (30.9–52.5) | -- | 105.0 (80.8–135.8) | 8.1 (7.1–9.2) | -- |
| Gambia | 625.9 (581.5–675.2) | 148.1 (120.9–176.2) | 93.7 (80.7–107.6) | 217.8 (196.9–244.7) | 135.5 (117.7–156.3) | 72.3 (62.8–82.1) | 9.9 (8.2–11.5) | -- | 2.5 (2.2–2.8) | 1.2 (1.1–1.4) | 1.2 (1.1–1.5) | -- | 10.8 (8.6–14.1) | 10.8 (8.6–14.1) | -- | -- | 0.7 (0.5–0.8) | 39.0 (29.5–50.6) | -- | 105.4 (81.0–136.9) | 8.0 (7.0–9.2) | -- |
| Togo | 610.6 (569.5–658.0) | 149.1 (121.8–177.9) | 90.7 (78.5–105.5) | 207.6 (188.0–230.7) | 126.6 (109.1–146.3) | 70.9 (62.1–80.1) | 10.1 (8.4–11.9) | -- | 2.4 (2.1–2.7) | 1.2 (1.0–1.4) | 1.2 (1.0–1.4) | -- | 10.7 (8.5–14.0) | 10.7 (8.5–14.0) | -- | -- | 0.6 (0.5–0.8) | 38.8 (29.4–49.8) | -- | 102.2 (77.0–132.0) | 8.3 (7.3–9.7) | -- |

**Table S15. Cardiovascular disease incidence rates by sex**

| | Incidence count (millions) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|
| **Cause Names** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| Cardiovascular diseases | 27.0 (25.3–29.4) | 25.6 (23.8–28.3) | 52.6 (49.3–57.7) | 650.6 (614.5–702.8) | 537.7 (502.3–591.5) | 590.4 (555.6–645.5) |
| Rheumatic heart disease | 2.15 (1.76–2.57) | 2.24 (1.84–2.67) | 4.39 (3.61–5.23) | 55.5 (45.4–66.1) | 59.6 (48.8–70.7) | 57.5 (47.1–68.3) |
| Ischemic heart disease | 7.30 (6.29–8.37) | 5.42 (4.74–6.18) | 12.7 (11.1–14.7) | 177.8 (154.5–204.1) | 109.5 (96.0–124.7) | 140.9 (122.9–161.4) |
| Stroke | 7.22 (6.47–8.17) | 6.02 (5.42–6.68) | 13.2 (12.0–14.8) | 174.1 (157.4–195.6) | 125.1 (113.2–138.4) | 148.1 (134.7–165.6) |
| Ischemic stroke | 4.70 (4.03–5.52) | 3.76 (3.31–4.32) | 8.45 (7.34–9.76) | 113.0 (97.9–131.2) | 77.3 (68.3–88.7) | 94.1 (82.2–108.2) |
| Intracerebral hemorrhage | 2.13 (1.84–2.38) | 1.75 (1.51–1.95) | 3.88 (3.35–4.32) | 51.8 (44.9–57.7) | 36.5 (31.5–40.8) | 43.6 (37.7–48.5) |
| Subarachnoid hemorrhage | 0.393 (0.341–0.445) | 0.515 (0.451–0.581) | 0.908 (0.792–1.03) | 9.4 (8.2–10.6) | 11.3 (9.9–12.8) | 10.3 (9.1–11.7) |
| Hypertensive heart disease | -- | -- | -- | -- | -- | -- |
| Non-rheumatic valvular heart disease | 1.36 (1.26–1.47) | 0.897 (0.817–0.974) | 2.26 (2.08–2.44) | 30.6 (28.2–33.1) | 18.1 (16.5–19.6) | 24.1 (22.2–26.1) |
| Non-rheumatic calcific aortic valve disease | 0.595 (0.504–0.682) | 0.488 (0.416–0.551) | 1.08 (0.922–1.23) | 13.6 (11.6–15.5) | 9.9 (8.4–11.1) | 11.7 (10.0–13.3) |
| Non-rheumatic degenerative mitral valve disease | 0.769 (0.718–0.828) | 0.409 (0.381–0.437) | 1.18 (1.10–1.26) | 16.9 (15.8–18.2) | 8.3 (7.7–8.8) | 12.4 (11.6–13.3) |
| Other non-rheumatic valve diseases | -- | -- | -- | -- | -- | -- |
| Cardiomyopathy and myocarditis | 0.614 (0.484–0.786) | 0.422 (0.338–0.539) | 1.04 (0.826–1.32) | 14.9 (11.7–18.9) | 10.0 (8.0–12.6) | 12.5 (9.9–15.7) |
| Myocarditis | 0.614 (0.484–0.786) | 0.422 (0.338–0.539) | 1.04 (0.826–1.32) | 14.9 (11.7–18.9) | 10.0 (8.0–12.6) | 12.5 (9.9–15.7) |
| Alcoholic cardiomyopathy | -- | -- | -- | -- | -- | -- |
| Other cardiomyopathy | -- | -- | -- | -- | -- | -- |
| Pulmonary Arterial Hypertension | 0.0208 (0.0164–0.0252) | 0.0245 (0.0196–0.0297) | 0.0453 (0.0360–0.0548) | 0.5 (0.4–0.6) | 0.6 (0.4–0.7) | 0.5 (0.4–0.6) |
| Atrial fibrillation and flutter | 2.65 (2.10–3.36) | 2.38 (1.88–3.01) | 5.02 (3.98–6.35) | 61.8 (49.1–77.4) | 48.2 (38.1–60.5) | 54.8 (43.5–68.8) |
| Aortic aneurysm | -- | -- | -- | -- | -- | -- |
| Lower extremity peripheral arterial disease | 4.98 (3.76–6.41) | 7.69 (5.92–9.79) | 12.7 (9.68–16.2) | 117.9 (90.3–150.1) | 155.5 (119.6–198.4) | 137.9 (105.9–175.9) |
| Endocarditis | 0.718 (0.625–0.860) | 0.506 (0.441–0.595) | 1.22 (1.07–1.46) | 17.5 (15.3–20.6) | 11.2 (9.7–12.9) | 14.1 (12.4–16.6) |
| Other cardiovascular and circulatory diseases | -- | -- | -- | -- | -- | -- |

**Table S16. Cardiovascular disease prevalence rates by age and sex**

| Cause Names | Age Group | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| **Cardiovascular diseases** | | | | | | | |
| | Under 5 | 1280 (1060–1510) | 866 (721–1030) | 2150 (1780–2530) | 387.0 (320.4–457.1) | 277.8 (231.1–330.1) | 334.1 (276.7–392.9) |
| | 5 to 9 | 2560 (2010–3080) | 2080 (1630–2540) | 4650 (3630–5600) | 710.2 (556.8–852.6) | 613.9 (479.8–747.3) | 663.5 (518.0–800.0) |
| | 10 to 14 | 3430 (2600–4540) | 2920 (2230–3900) | 6360 (4820–8470) | 977.8 (738.9–1293.5) | 882.7 (672.5–1176.2) | 931.6 (706.2–1241.3) |
| | 15 to 19 | 4540 (3670–5750) | 4150 (3320–5350) | 8690 (6990–11100) | 1373.5 (1108.9–1739.7) | 1320.1 (1055.7–1703.7) | 1347.5 (1084.4–1722.1) |
| | 20 to 24 | 5520 (4660–6610) | 5510 (4600–6640) | 11000 (9240–13300) | 1804.2 (1522.7–2161.8) | 1857.5 (1550.8–2239.9) | 1830.5 (1534.7–2201.6) |
| | 25 to 29 | 6780 (5840–8020) | 6760 (5780–8070) | 13500 (11600–16100) | 2292.7 (1975.9–2712.4) | 2333.1 (1997.3–2786.8) | 2312.6 (1980.8–2752.4) |
| | 30 to 34 | 8740 (7590–10100) | 8040 (6940–9410) | 16800 (14500–19600) | 2889.8 (2508.7–3340.7) | 2731.3 (2356.3–3196.9) | 2811.6 (2434.6–3279.4) |
| | 35 to 39 | 11200 (9840–12800) | 9510 (8390–11000) | 20700 (18300–23800) | 3788.8 (3328.1–4336.6) | 3297.5 (2909.3–3803.1) | 3546.3 (3133.3–4070.2) |
| | 40 to 44 | 14600 (12700–17100) | 11700 (10200–13800) | 26300 (22700–31000) | 5586.2 (4857.5–6552.2) | 4593.3 (3979.9–5414.5) | 5095.9 (4400.0–6008.1) |
| | 45 to 49 | 18600 (16500–21100) | 14400 (12700–16400) | 33000 (29300–37300) | 7795.4 (6898.6–8811.6) | 6132.6 (5420.9–6983.9) | 6971.7 (6175.7–7869.3) |
| | 50 to 54 | 24500 (21500–27600) | 18900 (16500–21400) | 43400 (38100–48600) | 10777.2 (9450.6–12135.6) | 8335.2 (7282.3–9455.6) | 9559.1 (8397.4–10700.6) |
| | 55 to 59 | 31200 (28300–35000) | 24500 (21800–28000) | 55700 (50200–63000) | 15290.5 (13855.3–17185.1) | 11668.2 (10413.7–13369.7) | 13454.1 (12138.4–15231.5) |
| | 60 to 64 | 36300 (32600–41000) | 29900 (26400–34600) | 66200 (58900–75600) | 21861.9 (19626.7–24714.4) | 17054.8 (15071.1–19764.1) | 19393.8 (17272.0–22141.5) |
| | 65 to 69 | 41800 (37800–46300) | 36900 (33200–42100) | 78600 (71000–88200) | 30226.2 (27371.8–33514.3) | 24576.4 (22109.3–28101.6) | 27285.7 (24628.0–30604.0) |
| | 70 to 74 | 40800 (37200–44700) | 39100 (35100–43800) | 79900 (72300–88200) | 39190.8 (35756.5–42954.6) | 32959.1 (29549.5–36912.2) | 35869.8 (32471.9–39612.6) |
| | 75 to 79 | 31400 (29100–34200) | 32700 (29700–35800) | 64100 (58800–69900) | 47583.3 (43999.3–51684.3) | 41037.5 (37316.0–44882.2) | 44005.4 (40372.2–47936.7) |
| | 80 to 84 | 21900 (20100–23800) | 26200 (23700–29100) | 48200 (43800–53000) | 55544.0 (51027.7–60338.4) | 49147.2 (44379.9–54567.1) | 51865.7 (47185.3–57041.1) |
| | 85 to 89 | 12200 (11200–13200) | 17800 (16100–19500) | 30000 (27200–32700) | 61730.7 (56409.0–66845.6) | 56474.7 (51033.2–62008.6) | 58504.8 (53107.3–63687.9) |
| | 90 to 94 | 4610 (4240–5020) | 8270 (7440–9110) | 12900 (11700–14000) | 66466.1 (61046.2–72237.4) | 62293.2 (56046.9–68596.7) | 63726.2 (57766.3–69444.6) |
| | 95 plus | 1280 (1160–1410) | 3010 (2700–3350) | 4290 (3880–4770) | 70460.8 (63794.6–77457.9) | 67233.2 (60358.4–74907.9) | 68164.3 (61611.8–75734.5) |
| **Rheumatic heart disease** | | | | | | | |
| | Under 5 | 253 (173–363) | 229 (156–328) | 482 (329–693) | 76.4 (52.2–109.5) | 73.5 (50.1–105.3) | 75.0 (51.2–107.7) |
| | 5 to 9 | 1090 (725–1530) | 980 (652–1390) | 2070 (1380–2920) | 300.9 (200.7–425.1) | 288.8 (192.1–408.7) | 295.0 (196.4–416.9) |
| | 10 to 14 | 1710 (1010–2670) | 1590 (948–2480) | 3300 (1970–5150) | 487.7 (288.5–760.7) | 479.9 (286.2–748.5) | 483.9 (288.2–754.8) |
| | 15 to 19 | 2540 (1690–3770) | 2540 (1670–3810) | 5080 (3350–7590) | 768.0 (510.2–1141.0) | 808.1 (531.9–1214.6) | 787.6 (520.3–1177.1) |
| | 20 to 24 | 2970 (2200–4040) | 3230 (2390–4340) | 6200 (4590–8370) | 970.4 (718.3–1320.7) | 1090.8 (804.4–1464.2) | 1029.7 (761.6–1389.3) |
| | 25 to 29 | 3060 (2190–4060) | 3510 (2540–4630) | 6570 (4710–8700) | 1034.2 (739.1–1374.1) | 1213.2 (878.6–1598.9) | 1122.7 (805.4–1485.3) |
| | 30 to 34 | 3000 (2220–4000) | 3480 (2580–4550) | 6480 (4780–8570) | 991.5 (733.0–1322.5) | 1181.9 (876.1–1544.5) | 1085.4 (801.0–1435.5) |
| | 35 to 39 | 2760 (2070–3540) | 3210 (2450–4080) | 5970 (4510–7620) | 933.7 (699.4–1198.4) | 1113.5 (848.7–1416.3) | 1022.5 (771.4–1304.8) |
| | 40 to 44 | 2290 (1780–2870) | 2650 (2090–3300) | 4940 (3900–6180) | 876.4 (681.9–1097.3) | 1037.9 (820.3–1293.5) | 956.1 (754.6–1196.9) |
| | 45 to 49 | 1770 (1400–2190) | 2060 (1650–2540) | 3830 (3060–4720) | 739.4 (587.7–916.1) | 880.0 (703.3–1081.9) | 809.0 (645.4–996.5) |
| | 50 to 54 | 1300 (1050–1640) | 1580 (1300–1980) | 2890 (2340–3620) | 571.8 (460.4–720.8) | 699.7 (571.7–872.3) | 635.6 (515.2–796.7) |
| | 55 to 59 | 943 (762–1190) | 1210 (989–1510) | 2160 (1760–2700) | 462.4 (373.5–581.2) | 579.3 (471.6–718.1) | 521.6 (426.1–652.1) |
| | 60 to 64 | 661 (523–817) | 877 (704–1070) | 1540 (1230–1890) | 398.3 (315.2–492.2) | 500.7 (402.0–610.3) | 450.8 (359.0–553.0) |
| | 65 to 69 | 498 (403–605) | 673 (559–811) | 1170 (961–1410) | 360.1 (291.9–437.6) | 448.8 (373.0–540.5) | 406.2 (333.5–490.0) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 70 to 74 | 361 (306–433) | 502 (429–602) | 863 (735–1040) | 346.8 (293.7–416.1) | 423.0 (361.1–506.9) | 387.4 (330.0–464.9) |
| | 75 to 79 | 239 (205–290) | 339 (290–402) | 578 (495–692) | 361.8 (310.0–439.5) | 425.2 (363.9–505.1) | 396.5 (339.5–474.9) |
| | 80 to 84 | 156 (129–191) | 236 (199–286) | 392 (326–475) | 395.4 (325.7–483.7) | 442.7 (371.8–535.1) | 422.6 (351.0–511.9) |
| | 85 to 89 | 88.8 (72.4–110) | 147 (119–182) | 236 (192–291) | 448.4 (365.5–554.6) | 467.1 (379.2–578.9) | 459.9 (374.3–566.8) |
| | 90 to 94 | 34.6 (26.8–43.4) | 62.3 (49.3–78.2) | 96.9 (76.2–123) | 498.9 (385.8–624.5) | 469.1 (371.5–589.3) | 479.3 (377.1–606.7) |
| | 95 plus | 10.1 (7.40–13.1) | 20.9 (15.9–26.4) | 31.0 (23.3–39.4) | 557.5 (407.9–721.2) | 466.5 (354.4–590.0) | 492.7 (369.5–625.3) |
| **Ischemic heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 384 (265–521) | 318 (221–439) | 703 (489–957) | 116.3 (80.2–157.6) | 101.4 (70.2–139.8) | 109.0 (75.9–148.4) |
| | 20 to 24 | 945 (696–1250) | 772 (563–1050) | 1720 (1260–2300) | 309.1 (227.8–408.0) | 260.5 (189.8–353.1) | 285.2 (209.5–381.1) |
| | 25 to 29 | 1790 (1390–2290) | 1330 (1010–1730) | 3120 (2390–4020) | 605.3 (469.4–774.7) | 457.8 (347.5–598.3) | 532.3 (408.5–686.3) |
| | 30 to 34 | 3140 (2410–4080) | 2040 (1570–2700) | 5180 (4000–6760) | 1038.0 (797.6–1349.2) | 692.1 (532.5–918.0) | 867.4 (669.7–1132.8) |
| | 35 to 39 | 4770 (3820–6000) | 2860 (2210–3650) | 7630 (6020–9680) | 1612.3 (1291.5–2030.1) | 992.1 (766.7–1265.6) | 1306.2 (1030.7–1656.7) |
| | 40 to 44 | 6110 (4890–7530) | 3520 (2730–4440) | 9630 (7630–12000) | 2336.0 (1868.9–2878.6) | 1379.9 (1071.6–1741.4) | 1863.9 (1477.1–2317.0) |
| | 45 to 49 | 8560 (6980–10200) | 4720 (3810–5760) | 13300 (10700–15900) | 3579.4 (2919.0–4270.4) | 2013.5 (1623.0–2453.2) | 2803.7 (2268.0–3367.5) |
| | 50 to 54 | 12100 (9860–14700) | 6710 (5350–8200) | 18900 (15200–23000) | 5335.2 (4331.6–6461.6) | 2964.1 (2363.0–3621.4) | 4152.5 (3342.1–5067.4) |
| | 55 to 59 | 15500 (12900–18600) | 9280 (7610–11300) | 24800 (20500–29800) | 7604.5 (6303.9–9107.2) | 4425.6 (3629.0–5375.1) | 5992.9 (4959.2–7212.3) |
| | 60 to 64 | 17500 (14300–21100) | 11300 (9120–13800) | 28800 (23500–34800) | 10526.2 (8620.2–12681.4) | 6450.5 (5207.8–7873.8) | 8433.7 (6893.7–10190.8) |
| | 65 to 69 | 18700 (15400–22400) | 13400 (10900–16100) | 32000 (26400–38500) | 13502.8 (11163.0–16232.5) | 8923.5 (7280.7–10753.7) | 11119.4 (9163.7–13350.0) |
| | 70 to 74 | 17300 (14200–21400) | 14000 (11100–17600) | 31300 (25200–38900) | 16677.5 (13640.7–20577.0) | 11762.5 (9384.3–14794.7) | 14058.2 (11319.9–17484.8) |
| | 75 to 79 | 13200 (10600–16200) | 11600 (9010–14100) | 24800 (19600–30300) | 19990.9 (16067.3–24531.1) | 14513.5 (11308.9–17742.6) | 16997.0 (13471.8–20795.3) |
| | 80 to 84 | 9410 (7330–11600) | 9660 (7350–12000) | 19100 (14700–23500) | 23837.8 (18568.4–29270.5) | 18096.7 (13755.2–22386.1) | 20536.5 (15817.5–25312.4) |
| | 85 to 89 | 5330 (4020–6700) | 6620 (4910–8530) | 11900 (8930–15200) | 26924.8 (20290.6–33813.2) | 21017.0 (15589.5–27102.7) | 23298.9 (17405.3–29566.3) |
| | 90 to 94 | 2010 (1520–2570) | 2980 (2160–3900) | 4990 (3710–6480) | 29016.5 (21935.5–36989.2) | 22416.1 (16291.6–29376.6) | 24682.6 (18351.7–32046.9) |
| | 95 plus | 549 (397–751) | 1040 (715–1480) | 1590 (1120–2250) | 30244.0 (21853.8–41379.5) | 23281.6 (15966.0–33142.5) | 25290.0 (17785.8–35682.8) |
| **Stroke** | | | | | | | |
| | Under 5 | 168 (155–183) | 134 (123–146) | 302 (279–328) | 50.7 (46.9–55.1) | 42.9 (39.5–46.9) | 46.9 (43.4–51.0) |
| | 5 to 9 | 444 (395–500) | 377 (332–431) | 821 (728–932) | 123.0 (109.5–138.6) | 110.9 (97.8–126.9) | 117.2 (103.9–133.0) |
| | 10 to 14 | 647 (579–727) | 573 (510–644) | 1220 (1090–1370) | 184.3 (164.9–207.0) | 172.9 (154.0–194.5) | 178.8 (159.8–200.9) |
| | 15 to 19 | 823 (737–929) | 749 (675–839) | 1570 (1410–1770) | 248.9 (222.9–281.0) | 238.3 (214.7–267.2) | 243.7 (218.9–274.0) |
| | 20 to 24 | 985 (899–1100) | 922 (837–1030) | 1910 (1740–2120) | 322.2 (294.2–360.0) | 310.9 (282.1–346.8) | 316.7 (288.7–352.0) |
| | 25 to 29 | 1220 (1110–1360) | 1160 (1050–1280) | 2380 (2160–2650) | 413.1 (375.7–459.0) | 399.2 (363.6–441.8) | 406.2 (369.0–451.8) |
| | 30 to 34 | 1620 (1490–1810) | 1510 (1380–1680) | 3130 (2870–3480) | 534.4 (491.3–597.1) | 513.2 (470.2–570.8) | 524.0 (481.4–583.5) |
| | 35 to 39 | 2130 (1960–2340) | 1950 (1790–2140) | 4080 (3750–4470) | 719.9 (661.3–789.8) | 675.3 (621.8–741.0) | 697.9 (641.9–764.6) |
| | 40 to 44 | 2580 (2360–2810) | 2310 (2140–2520) | 4890 (4490–5320) | 987.7 (901.0–1074.7) | 903.9 (837.5–986.1) | 946.3 (868.8–1030.3) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 45 to 49 | 3320 (3040–3630) | 2840 (2620–3110) | 6160 (5710–6750) | 1388.2 (1273.0–1520.6) | 1211.7 (1117.2–1324.2) | 1300.7 (1206.4–1424.7) |
| | 50 to 54 | 4440 (4010–4970) | 3650 (3310–4040) | 8080 (7320–9010) | 1949.2 (1761.2–2185.5) | 1609.4 (1461.5–1783.0) | 1779.7 (1612.3–1983.9) |
| | 55 to 59 | 5650 (5130–6250) | 4490 (4100–4930) | 10100 (9220–11200) | 2769.9 (2517.4–3063.7) | 2140.8 (1953.1–2351.4) | 2451.0 (2228.9–2700.1) |
| | 60 to 64 | 6390 (5750–7070) | 4950 (4480–5470) | 11300 (10300–12500) | 3850.3 (3465.1–4260.7) | 2823.4 (2557.1–3119.2) | 3323.1 (3023.0–3666.2) |
| | 65 to 69 | 7160 (6530–7850) | 5490 (5030–6060) | 12700 (11500–14000) | 5183.0 (4726.5–5682.5) | 3663.2 (3351.9–4042.4) | 4392.0 (4005.9–4855.7) |
| | 70 to 74 | 6900 (6210–7670) | 5490 (4900–6200) | 12400 (11100–13700) | 6632.6 (5967.7–7375.6) | 4624.7 (4126.9–5224.3) | 5562.5 (4990.9–6138.2) |
| | 75 to 79 | 5280 (4720–5860) | 4450 (3980–5010) | 9730 (8770–10900) | 7989.4 (7144.7–8869.4) | 5585.8 (4993.5–6288.3) | 6675.6 (6015.4–7454.5) |
| | 80 to 84 | 3660 (3280–4060) | 3460 (3040–3960) | 7110 (6340–8020) | 9262.1 (8314.0–10277.0) | 6474.1 (5687.6–7416.9) | 7659.0 (6825.4–8630.7) |
| | 85 to 89 | 2010 (1800–2250) | 2330 (2060–2690) | 4340 (3840–4950) | 10139.2 (9076.3–11354.2) | 7408.2 (6533.0–8556.7) | 8463.0 (7479.0–9654.5) |
| | 90 to 94 | 751 (665–847) | 1130 (996–1310) | 1880 (1680–2160) | 10818.2 (9572.8–12198.7) | 8520.6 (7500.5–9834.1) | 9309.6 (8291.8–10666.6) |
| | 95 plus | 204 (183–231) | 431 (380–494) | 635 (566–725) | 11232.8 (10078.5–12723.5) | 9624.5 (8477.5–11036.8) | 10088.4 (8994.2–11525.9) |
| **Ischemic stroke** | | | | | | | |
| | Under 5 | 83.5 (72.6–95.0) | 58.7 (49.9–67.6) | 142 (123–163) | 25.2 (21.9–28.7) | 18.8 (16.0–21.7) | 22.1 (19.1–25.3) |
| | 5 to 9 | 228 (188–274) | 174 (140–211) | 403 (328–485) | 63.3 (52.2–75.8) | 51.3 (41.2–62.2) | 57.5 (46.9–69.2) |
| | 10 to 14 | 344 (286–415) | 278 (226–339) | 622 (512–756) | 98.0 (81.5–118.1) | 84.0 (68.1–102.5) | 91.2 (75.0–110.8) |
| | 15 to 19 | 445 (377–530) | 375 (312–452) | 820 (689–982) | 134.7 (114.0–160.3) | 119.4 (99.5–143.9) | 127.3 (106.9–152.3) |
| | 20 to 24 | 540 (459–638) | 470 (396–560) | 1010 (856–1190) | 176.5 (150.1–208.6) | 158.4 (133.5–189.0) | 167.6 (142.1–198.1) |
| | 25 to 29 | 676 (586–793) | 596 (512–703) | 1270 (1100–1500) | 228.6 (198.2–268.0) | 205.7 (176.9–242.8) | 217.3 (188.2–255.6) |
| | 30 to 34 | 906 (784–1060) | 792 (673–921) | 1700 (1460–1970) | 299.7 (259.3–349.7) | 269.1 (228.5–312.9) | 284.6 (243.9–330.1) |
| | 35 to 39 | 1220 (1080–1410) | 1050 (919–1210) | 2280 (1990–2620) | 413.9 (364.1–476.3) | 365.2 (319.0–421.3) | 389.9 (341.2–448.6) |
| | 40 to 44 | 1550 (1350–1750) | 1290 (1130–1460) | 2840 (2480–3210) | 592.4 (517.3–667.5) | 507.1 (443.8–571.7) | 550.3 (480.7–620.9) |
| | 45 to 49 | 2130 (1880–2410) | 1670 (1480–1900) | 3800 (3360–4330) | 890.4 (787.6–1008.7) | 713.0 (632.1–808.4) | 802.5 (709.0–913.9) |
| | 50 to 54 | 3090 (2720–3580) | 2290 (2000–2650) | 5370 (4750–6240) | 1355.6 (1196.4–1571.9) | 1008.8 (881.6–1170.4) | 1182.6 (1046.3–1373.8) |
| | 55 to 59 | 4270 (3830–4840) | 3050 (2710–3470) | 7320 (6530–8260) | 2095.8 (1875.8–2375.4) | 1453.5 (1290.8–1656.3) | 1770.2 (1578.8–1997.2) |
| | 60 to 64 | 5170 (4610–5900) | 3620 (3170–4120) | 8790 (7820–10000) | 3114.2 (2777.7–3553.7) | 2063.7 (1811.3–2352.9) | 2574.8 (2291.9–2929.0) |
| | 65 to 69 | 6070 (5440–6820) | 4300 (3850–4890) | 10400 (9350–11800) | 4396.1 (3933.7–4935.4) | 2867.1 (2566.5–3258.6) | 3600.3 (3244.3–4081.1) |
| | 70 to 74 | 6020 (5340–6870) | 4480 (3930–5190) | 10500 (9240–11900) | 5791.0 (5133.2–6603.4) | 3778.2 (3314.6–4374.9) | 4718.4 (4148.5–5364.6) |
| | 75 to 79 | 4690 (4140–5270) | 3710 (3250–4220) | 8400 (7410–9460) | 7096.8 (6269.8–7971.2) | 4659.0 (4076.3–5301.3) | 5764.3 (5085.7–6490.6) |
| | 80 to 84 | 3280 (2880–3690) | 2910 (2520–3400) | 6190 (5430–7080) | 8312.1 (7308.7–9359.5) | 5454.4 (4717.2–6361.7) | 6668.9 (5844.8–7623.7) |
| | 85 to 89 | 1800 (1590–2050) | 1960 (1700–2320) | 3770 (3290–4370) | 9092.1 (8030.8–10359.1) | 6242.8 (5399.9–7386.4) | 7343.4 (6407.9–8527.8) |
| | 90 to 94 | 669 (585–766) | 954 (818–1130) | 1620 (1410–1910) | 9635.4 (8430.1–11037.0) | 7184.6 (6164.7–8507.6) | 8026.1 (6992.6–9434.9) |
| | 95 plus | 180 (157–208) | 365 (318–431) | 545 (478–639) | 9888.0 (8669.5–11438.2) | 8152.1 (7096.6–9624.1) | 8652.9 (7598.6–10155.0) |
| **Intracerebral hemorrhage** | | | | | | | |
| | Under 5 | 74.4 (66.8–83.4) | 63.1 (56.8–70.9) | 137 (123–154) | 22.4 (20.1–25.2) | 20.2 (18.2–22.8) | 21.4 (19.2–24.0) |
| | 5 to 9 | 188 (161–223) | 167 (142–200) | 355 (302–423) | 51.9 (44.5–61.8) | 49.2 (41.8–59.0) | 50.6 (43.2–60.4) |
| | 10 to 14 | 260 (218–307) | 238 (199–280) | 498 (417–586) | 74.0 (62.1–87.4) | 71.8 (60.1–84.5) | 72.9 (61.2–85.9) |
| | 15 to 19 | 317 (265–370) | 292 (245–341) | 609 (509–712) | 95.9 (80.2–111.9) | 92.9 (78.0–108.4) | 94.4 (78.9–110.4) |

| Cause Names | Age Group | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 20 to 24 | 362 (313–413) | 337 (291–389) | 699 (604–801) | 118.6 (102.2–135.1) | 113.5 (98.3–131.2) | 116.1 (100.3–133.0) |
| | 25 to 29 | 420 (366–477) | 385 (337–442) | 805 (705–919) | 142.0 (123.9–161.4) | 133.1 (116.3–152.5) | 137.6 (120.4–157.0) |
| | 30 to 34 | 513 (453–583) | 450 (394–513) | 964 (848–1100) | 169.8 (149.7–192.7) | 152.9 (133.9–174.2) | 161.5 (142.0–183.5) |
| | 35 to 39 | 629 (551–713) | 517 (452–587) | 1150 (1000–1300) | 212.7 (186.3–240.9) | 179.2 (156.7–203.7) | 196.2 (171.9–222.3) |
| | 40 to 44 | 703 (622–799) | 551 (488–621) | 1250 (1110–1420) | 268.8 (237.7–305.6) | 215.8 (191.2–243.4) | 242.6 (214.9–274.0) |
| | 45 to 49 | 812 (714–923) | 617 (542–691) | 1430 (1260–1610) | 339.6 (298.8–386.0) | 262.9 (231.2–294.5) | 301.6 (266.6–340.1) |
| | 50 to 54 | 930 (788–1080) | 703 (606–800) | 1630 (1400–1880) | 408.6 (346.1–476.6) | 310.3 (267.4–353.4) | 359.6 (308.3–414.7) |
| | 55 to 59 | 954 (806–1120) | 734 (619–855) | 1690 (1420–1980) | 467.6 (395.2–547.6) | 350.3 (295.1–407.9) | 408.1 (344.5–478.4) |
| | 60 to 64 | 852 (694–1040) | 667 (553–808) | 1520 (1250–1850) | 513.0 (417.9–628.0) | 380.6 (315.5–461.3) | 445.0 (365.7–541.9) |
| | 65 to 69 | 759 (619–933) | 595 (485–731) | 1350 (1100–1660) | 549.4 (447.8–675.2) | 397.0 (323.6–487.3) | 470.1 (383.3–577.7) |
| | 70 to 74 | 613 (495–753) | 511 (411–627) | 1120 (907–1380) | 588.9 (476.1–723.8) | 430.7 (346.6–528.1) | 504.6 (407.4–620.2) |
| | 75 to 79 | 414 (330–511) | 402 (308–490) | 816 (639–994) | 627.3 (498.8–773.9) | 504.4 (386.2–615.7) | 560.1 (438.6–682.0) |
| | 80 to 84 | 267 (204–329) | 320 (245–406) | 587 (450–731) | 676.2 (517.9–834.2) | 599.2 (458.1–760.2) | 631.9 (484.5–787.4) |
| | 85 to 89 | 154 (129–184) | 240 (199–286) | 394 (327–471) | 778.4 (652.4–929.0) | 762.0 (632.7–909.3) | 768.3 (637.3–917.9) |
| | 90 to 94 | 63.5 (51.6–79.1) | 125 (101–155) | 189 (152–234) | 915.0 (743.0–1140.0) | 942.6 (758.5–1169.4) | 933.1 (750.3–1158.1) |
| | 95 plus | 19.6 (15.0–25.7) | 49.7 (37.2–66.5) | 69.2 (52.3–92.2) | 1077.4 (825.4–1418.1) | 1109.0 (831.7–1484.7) | 1099.9 (830.2–1464.6) |
| **Subarachnoid hemorrhage** | | | | | | | |
| | Under 5 | 10.3 (8.13–12.5) | 12.0 (9.57–14.4) | 22.3 (17.7–26.9) | 3.1 (2.5–3.8) | 3.8 (3.1–4.6) | 3.5 (2.8–4.2) |
| | 5 to 9 | 28.3 (21.2–36.6) | 35.4 (27.3–45.0) | 63.7 (48.6–82.3) | 7.8 (5.9–10.1) | 10.4 (8.1–13.3) | 9.1 (6.9–11.7) |
| | 10 to 14 | 43.6 (33.6–57.8) | 56.9 (44.6–72.9) | 100 (78.6–130) | 12.4 (9.6–16.5) | 17.2 (13.5–22.0) | 14.7 (11.5–19.1) |
| | 15 to 19 | 61.1 (48.4–77.1) | 82.2 (67.0–101) | 143 (116–179) | 18.5 (14.6–23.3) | 26.2 (21.3–32.2) | 22.2 (17.9–27.8) |
| | 20 to 24 | 84.1 (69.0–103) | 116 (97.7–143) | 200 (167–245) | 27.5 (22.6–33.8) | 39.3 (33.0–48.2) | 33.3 (27.7–40.7) |
| | 25 to 29 | 127 (110–151) | 176 (153–207) | 304 (262–358) | 43.1 (37.0–51.2) | 60.9 (52.7–71.4) | 51.9 (44.8–61.1) |
| | 30 to 34 | 199 (171–237) | 271 (236–319) | 470 (406–557) | 65.9 (56.6–78.2) | 92.0 (80.1–108.2) | 78.8 (68.0–93.4) |
| | 35 to 39 | 281 (246–328) | 381 (335–441) | 662 (583–771) | 94.9 (83.2–110.9) | 132.3 (116.3–153.1) | 113.4 (99.9–132.0) |
| | 40 to 44 | 338 (296–385) | 468 (409–527) | 806 (705–912) | 129.3 (113.1–147.2) | 183.5 (160.3–206.7) | 156.0 (136.4–176.4) |
| | 45 to 49 | 391 (338–443) | 564 (492–636) | 954 (835–1080) | 163.4 (141.3–185.4) | 240.2 (209.6–271.0) | 201.5 (176.4–228.1) |
| | 50 to 54 | 442 (379–511) | 674 (588–770) | 1120 (969–1280) | 194.4 (166.5–224.6) | 297.7 (259.6–340.1) | 245.9 (213.4–281.8) |
| | 55 to 59 | 454 (395–525) | 731 (644–827) | 1190 (1040–1350) | 222.6 (193.8–257.4) | 348.8 (307.1–394.3) | 286.6 (251.3–327.1) |
| | 60 to 64 | 413 (357–476) | 696 (609–788) | 1110 (970–1260) | 248.8 (215.0–286.4) | 397.0 (347.4–449.7) | 324.9 (284.2–370.0) |
| | 65 to 69 | 381 (328–442) | 637 (554–729) | 1020 (887–1170) | 275.8 (237.3–320.2) | 424.6 (369.2–485.8) | 353.2 (307.7–405.8) |
| | 70 to 74 | 319 (269–379) | 535 (456–625) | 854 (726–1000) | 306.7 (258.8–363.9) | 451.0 (384.6–526.2) | 383.6 (325.8–450.2) |
| | 75 to 79 | 223 (187–271) | 375 (317–454) | 597 (506–725) | 337.0 (283.3–409.7) | 470.4 (398.3–569.9) | 409.9 (347.0–497.3) |
| | 80 to 84 | 144 (119–175) | 258 (209–315) | 402 (330–490) | 364.2 (301.9–444.6) | 483.1 (391.5–590.6) | 432.6 (355.7–527.5) |
| | 85 to 89 | 74.8 (64.0–89.6) | 153 (127–190) | 228 (191–279) | 377.5 (323.3–452.6) | 487.2 (402.0–604.9) | 444.8 (371.6–544.6) |
| | 90 to 94 | 27.7 (23.3–33.2) | 67.2 (53.6–83.0) | 94.9 (76.9–117) | 399.3 (335.0–478.2) | 506.2 (403.5–625.4) | 469.5 (380.4–576.8) |
| | 95 plus | 7.65 (6.12–9.35) | 22.6 (17.1–29.6) | 30.3 (23.2–38.9) | 421.2 (337.0–515.2) | 505.1 (381.5–661.4) | 480.9 (368.1–617.8) |

| Cause Names | Age Group | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| **Hypertensive heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 12.2 (7.40–19.5) | 11.2 (6.83–18.1) | 23.4 (14.3–37.7) | 3.7 (2.2–5.9) | 3.6 (2.2–5.8) | 3.6 (2.2–5.9) |
| | 20 to 24 | 28.7 (18.4–42.1) | 27.5 (18.1–40.3) | 56.2 (36.6–82.2) | 9.4 (6.0–13.8) | 9.3 (6.1–13.6) | 9.3 (6.1–13.6) |
| | 25 to 29 | 43.3 (27.1–65.7) | 41.2 (25.7–62.4) | 84.6 (53.0–129) | 14.6 (9.2–22.2) | 14.2 (8.9–21.5) | 14.4 (9.1–22.1) |
| | 30 to 34 | 64.1 (39.9–95.5) | 60.4 (37.2–90.6) | 124 (76.0–186) | 21.2 (13.2–31.6) | 20.5 (12.6–30.8) | 20.8 (12.7–31.2) |
| | 35 to 39 | 91.1 (51.6–143) | 87.0 (50.3–135) | 178 (102–277) | 30.8 (17.4–48.4) | 30.2 (17.4–46.8) | 30.5 (17.5–47.5) |
| | 40 to 44 | 132 (79.4–209) | 123 (75.4–194) | 255 (159–401) | 50.4 (30.4–79.9) | 48.2 (29.5–75.8) | 49.3 (30.8–77.5) |
| | 45 to 49 | 216 (140–312) | 192 (126–273) | 408 (264–581) | 90.2 (58.6–130.6) | 81.9 (53.7–116.5) | 86.1 (55.7–122.7) |
| | 50 to 54 | 289 (193–418) | 256 (171–363) | 545 (366–776) | 126.9 (84.9–183.8) | 113.0 (75.6–160.3) | 120.0 (80.5–170.9) |
| | 55 to 59 | 300 (181–457) | 271 (162–408) | 571 (343–862) | 147.0 (88.6–224.2) | 129.1 (77.4–194.6) | 137.9 (82.9–208.4) |
| | 60 to 64 | 448 (297–663) | 423 (282–618) | 871 (580–1290) | 269.8 (178.6–399.2) | 241.7 (160.8–352.5) | 255.4 (169.9–376.9) |
| | 65 to 69 | 946 (628–1340) | 949 (641–1330) | 1890 (1270–2670) | 684.5 (454.3–971.8) | 632.7 (427.5–884.4) | 657.5 (442.1–928.1) |
| | 70 to 74 | 1150 (749–1670) | 1240 (837–1770) | 2380 (1590–3440) | 1101.3 (719.9–1609.0) | 1044.1 (705.3–1489.4) | 1070.8 (712.6–1545.3) |
| | 75 to 79 | 929 (583–1380) | 1100 (708–1620) | 2030 (1300–3010) | 1406.2 (882.5–2093.6) | 1379.6 (889.0–2028.5) | 1391.7 (889.8–2068.3) |
| | 80 to 84 | 727 (459–1060) | 999 (648–1430) | 1730 (1110–2490) | 1840.9 (1162.6–2682.4) | 1870.4 (1212.9–2679.9) | 1857.9 (1191.3–2681.0) |
| | 85 to 89 | 492 (314–727) | 866 (561–1250) | 1360 (877–1980) | 2484.1 (1586.3–3672.4) | 2750.2 (1783.0–3987.0) | 2647.4 (1709.3–3857.0) |
| | 90 to 94 | 198 (118–303) | 448 (272–663) | 647 (391–966) | 2858.2 (1695.0–4363.8) | 3375.6 (2047.8–4991.2) | 3197.9 (1933.0–4775.8) |
| | 95 plus | 52.7 (28.2–93.1) | 159 (90.7–268) | 212 (119–361) | 2902.3 (1551.2–5129.0) | 3556.7 (2024.9–5991.2) | 3367.9 (1886.5–5742.5) |
| **Non-rheumatic valvular heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 2.35 (1.90–2.83) | 1.91 (1.48–2.39) | 4.26 (3.37–5.24) | 0.7 (0.6–0.9) | 0.6 (0.5–0.8) | 0.7 (0.5–0.8) |
| | 20 to 24 | 9.92 (7.90–12.4) | 6.00 (4.77–7.35) | 15.9 (12.7–19.7) | 3.2 (2.6–4.1) | 2.0 (1.6–2.5) | 2.6 (2.1–3.3) |
| | 25 to 29 | 25.4 (20.0–32.2) | 14.3 (11.2–18.0) | 39.7 (31.3–50.0) | 8.6 (6.8–10.9) | 4.9 (3.9–6.2) | 6.8 (5.3–8.5) |
| | 30 to 34 | 51.6 (40.5–65.5) | 27.8 (21.4–35.3) | 79.4 (62.1–100) | 17.1 (13.4–21.6) | 9.4 (7.3–12.0) | 13.3 (10.4–16.8) |
| | 35 to 39 | 86.0 (67.3–109) | 45.6 (34.9–58.1) | 132 (103–167) | 29.1 (22.8–36.9) | 15.8 (12.1–20.2) | 22.5 (17.6–28.6) |
| | 40 to 44 | 134 (110–165) | 70.0 (56.4–86.4) | 204 (167–251) | 51.4 (42.1–63.2) | 27.4 (22.1–33.8) | 39.6 (32.2–48.6) |
| | 45 to 49 | 229 (187–280) | 116 (92.6–146) | 345 (279–426) | 95.9 (78.1–117.2) | 49.3 (39.5–62.2) | 72.9 (59.0–89.8) |
| | 50 to 54 | 434 (348–526) | 213 (163–270) | 647 (509–796) | 190.7 (153.0–231.3) | 94.1 (71.8–119.4) | 142.5 (112.2–175.3) |
| | 55 to 59 | 887 (747–1040) | 428 (351–512) | 1310 (1100–1550) | 434.9 (366.2–507.7) | 203.9 (167.6–244.2) | 317.8 (266.0–374.5) |
| | 60 to 64 | 1640 (1430–1910) | 821 (708–967) | 2460 (2140–2870) | 988.6 (861.5–1150.2) | 468.8 (403.9–552.2) | 721.7 (626.2–842.3) |
| | 65 to 69 | 2800 (2560–3100) | 1550 (1400–1770) | 4360 (3970–4880) | 2029.7 (1853.5–2246.5) | 1036.3 (934.1–1177.9) | 1512.7 (1376.4–1692.0) |
| | 70 to 74 | 3740 (3460–4090) | 2310 (2100–2570) | 6050 (5570–6670) | 3598.7 (3329.0–3930.3) | 1947.0 (1770.2–2165.3) | 2718.5 (2501.3–2994.6) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 75 to 79 | 3300 (3070–3570) | 2280 (2090–2530) | 5580 (5160–6100) | 4988.8 (4642.3–5398.1) | 2866.5 (2620.3–3174.9) | 3828.7 (3540.5–4182.5) |
| | 80 to 84 | 2350 (2150–2540) | 1960 (1770–2140) | 4310 (3930–4660) | 5948.0 (5455.6–6447.0) | 3666.9 (3308.7–4004.4) | 4636.3 (4233.1–5014.7) |
| | 85 to 89 | 1300 (1180–1420) | 1320 (1170–1450) | 2620 (2360–2870) | 6587.3 (5960.0–7161.3) | 4191.7 (3721.1–4603.5) | 5117.0 (4599.7–5590.0) |
| | 90 to 94 | 472 (422–518) | 592 (512–665) | 1060 (935–1180) | 6794.7 (6083.5–7457.5) | 4458.8 (3856.5–5009.9) | 5260.9 (4627.0–5825.4) |
| | 95 plus | 113 (99.3–129) | 178 (147–210) | 291 (247–338) | 6224.7 (5467.6–7085.4) | 3971.5 (3290.9–4694.9) | 4621.5 (3926.7–5370.3) |
| **Non-rheumatic calcific aortic valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.872 (0.590–1.25) | 0.392 (0.245–0.573) | 1.26 (0.833–1.82) | 0.3 (0.2–0.4) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) |
| | 20 to 24 | 5.51 (3.74–7.93) | 2.53 (1.59–3.69) | 8.04 (5.31–11.5) | 1.8 (1.2–2.6) | 0.9 (0.5–1.2) | 1.3 (0.9–1.9) |
| | 25 to 29 | 14.5 (9.86–21.0) | 6.75 (4.25–9.86) | 21.3 (14.1–30.6) | 4.9 (3.3–7.1) | 2.3 (1.5–3.4) | 3.6 (2.4–5.2) |
| | 30 to 34 | 29.5 (20.0–42.7) | 13.8 (8.63–20.1) | 43.2 (28.6–62.4) | 9.7 (6.6–14.1) | 4.7 (2.9–6.8) | 7.2 (4.8–10.5) |
| | 35 to 39 | 49.2 (33.4–71.6) | 23.0 (14.4–33.8) | 72.2 (47.8–105) | 16.6 (11.3–24.2) | 8.0 (5.0–11.7) | 12.4 (8.2–17.9) |
| | 40 to 44 | 79.0 (58.0–110) | 37.0 (25.4–52.3) | 116 (83.6–161) | 30.2 (22.2–42.1) | 14.5 (10.0–20.5) | 22.5 (16.2–31.2) |
| | 45 to 49 | 143 (105–186) | 67.9 (48.1–91.0) | 211 (155–278) | 60.0 (44.1–77.8) | 28.9 (20.5–38.8) | 44.6 (32.7–58.7) |
| | 50 to 54 | 264 (185–355) | 129 (87.2–180) | 393 (274–534) | 116.0 (81.3–156.1) | 56.8 (38.5–79.5) | 86.5 (60.3–117.5) |
| | 55 to 59 | 468 (351–601) | 237 (170–312) | 705 (517–911) | 229.5 (172.3–294.7) | 113.0 (80.9–148.6) | 170.4 (125.0–220.2) |
| | 60 to 64 | 757 (582–936) | 410 (311–533) | 1170 (895–1470) | 455.8 (350.2–563.8) | 234.2 (177.2–304.1) | 342.0 (262.2–429.8) |
| | 65 to 69 | 1120 (919–1390) | 708 (568–903) | 1830 (1500–2280) | 809.5 (664.9–1002.5) | 472.3 (379.0–602.3) | 634.0 (519.4–792.5) |
| | 70 to 74 | 1410 (1170–1730) | 1040 (833–1290) | 2450 (2010–3010) | 1357.6 (1128.5–1659.0) | 877.0 (701.8–1088.5) | 1101.5 (901.8–1351.5) |
| | 75 to 79 | 1340 (1100–1570) | 1140 (934–1350) | 2480 (2030–2910) | 2028.6 (1664.3–2372.0) | 1434.6 (1172.6–1691.4) | 1703.9 (1396.4–1997.1) |
| | 80 to 84 | 1060 (879–1210) | 1120 (923–1280) | 2180 (1800–2500) | 2697.1 (2226.1–3078.4) | 2088.4 (1729.1–2402.6) | 2347.1 (1943.0–2690.5) |
| | 85 to 89 | 624 (500–720) | 805 (647–930) | 1430 (1150–1650) | 3151.3 (2522.0–3634.2) | 2558.2 (2056.3–2953.3) | 2787.3 (2237.3–3207.7) |
| | 90 to 94 | 225 (179–267) | 367 (288–432) | 592 (467–695) | 3247.0 (2572.4–3847.6) | 2764.7 (2167.3–3252.0) | 2930.3 (2311.5–3438.7) |
| | 95 plus | 52.3 (38.5–66.6) | 104 (72.9–137) | 156 (110–203) | 2879.4 (2119.3–3670.3) | 2315.5 (1627.8–3051.8) | 2478.1 (1755.4–3230.2) |
| **Non-rheumatic degenerative mitral valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.606 (0.493–0.756) | 0.430 (0.341–0.557) | 1.04 (0.834–1.31) | 0.2 (0.1–0.2) | 0.1 (0.1–0.2) | 0.2 (0.1–0.2) |
| | 20 to 24 | 3.91 (3.21–4.84) | 2.67 (2.12–3.47) | 6.58 (5.31–8.31) | 1.3 (1.0–1.6) | 0.9 (0.7–1.2) | 1.1 (0.9–1.4) |
| | 25 to 29 | 10.6 (8.71–13.0) | 6.89 (5.51–8.87) | 17.4 (14.2–21.9) | 3.6 (2.9–4.4) | 2.4 (1.9–3.1) | 3.0 (2.4–3.7) |
| | 30 to 34 | 22.0 (18.2–26.9) | 13.7 (11.0–17.4) | 35.7 (29.3–44.5) | 7.3 (6.0–8.9) | 4.7 (3.7–5.9) | 6.0 (4.9–7.5) |
| | 35 to 39 | 36.7 (30.3–44.7) | 22.3 (17.8–28.1) | 59.0 (48.3–73.0) | 12.4 (10.2–15.1) | 7.7 (6.2–9.8) | 10.1 (8.3–12.5) |
| | 40 to 44 | 55.3 (47.1–66.7) | 32.7 (27.1–39.2) | 88.0 (74.2–105) | 21.2 (18.0–25.5) | 12.8 (10.6–15.4) | 17.0 (14.4–20.4) |
| | 45 to 49 | 86.0 (70.1–104) | 47.6 (39.1–58.2) | 134 (110–162) | 36.0 (29.3–43.6) | 20.3 (16.7–24.8) | 28.2 (23.1–34.3) |

| Cause Names | Age Group | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 50 to 54 | 170 (142–215) | 84.3 (68.2–108) | 255 (211–323) | 74.8 (62.3–94.5) | 37.2 (30.1–47.5) | 56.1 (46.4–71.1) |
| | 55 to 59 | 421 (357–506) | 191 (159–228) | 612 (517–736) | 206.3 (175.1–248.0) | 91.0 (75.6–109.0) | 147.8 (125.0–177.9) |
| | 60 to 64 | 893 (773–1060) | 412 (357–487) | 1310 (1130–1550) | 537.5 (465.6–637.0) | 235.4 (203.5–278.2) | 382.4 (330.9–453.4) |
| | 65 to 69 | 1710 (1580–1890) | 853 (783–934) | 2570 (2360–2810) | 1239.9 (1140.3–1365.4) | 568.6 (522.0–622.4) | 890.5 (819.8–976.3) |
| | 70 to 74 | 2390 (2230–2580) | 1290 (1200–1390) | 3680 (3420–3960) | 2302.1 (2143.3–2484.0) | 1087.1 (1008.9–1170.9) | 1654.6 (1537.2–1777.5) |
| | 75 to 79 | 2040 (1890–2210) | 1170 (1090–1260) | 3210 (2970–3470) | 3081.0 (2858.3–3351.6) | 1469.2 (1362.5–1580.6) | 2200.0 (2040.4–2380.9) |
| | 80 to 84 | 1350 (1260–1470) | 873 (812–942) | 2220 (2080–2420) | 3421.3 (3190.3–3736.8) | 1634.5 (1520.2–1764.1) | 2393.9 (2234.4–2603.3) |
| | 85 to 89 | 720 (670–788) | 535 (498–579) | 1260 (1170–1370) | 3635.5 (3381.8–3978.0) | 1700.1 (1583.1–1839.1) | 2447.7 (2278.0–2670.2) |
| | 90 to 94 | 261 (242–286) | 235 (217–255) | 495 (459–541) | 3757.5 (3486.5–4122.7) | 1766.9 (1633.4–1919.7) | 2450.4 (2271.6–2675.0) |
| | 95 plus | 64.1 (58.8–70.4) | 76.9 (70.5–83.9) | 141 (129–154) | 3531.2 (3237.6–3877.2) | 1717.5 (1574.8–1874.2) | 2240.7 (2049.8–2450.2) |
| **Other non-rheumatic valve diseases** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.870 (0.566–1.25) | 1.09 (0.691–1.58) | 1.96 (1.27–2.82) | 0.3 (0.2–0.4) | 0.3 (0.2–0.5) | 0.3 (0.2–0.4) |
| | 20 to 24 | 0.507 (0.346–0.738) | 0.801 (0.539–1.15) | 1.31 (0.885–1.89) | 0.2 (0.1–0.2) | 0.3 (0.2–0.4) | 0.2 (0.1–0.3) |
| | 25 to 29 | 0.354 (0.248–0.484) | 0.651 (0.457–0.912) | 1.00 (0.703–1.40) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) | 0.2 (0.1–0.2) |
| | 30 to 34 | 0.181 (0.121–0.275) | 0.334 (0.219–0.520) | 0.515 (0.340–0.791) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 35 to 39 | 0.127 (0.0792–0.186) | 0.342 (0.220–0.510) | 0.469 (0.298–0.695) | 0.04 (0.03–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 40 to 44 | 0.125 (0.0717–0.201) | 0.281 (0.167–0.448) | 0.406 (0.240–0.644) | 0.05 (0.03–0.1) | 0.1 (0.1–0.2) | 0.1 (0.05–0.1) |
| | 45 to 49 | 0.119 (0.0782–0.181) | 0.250 (0.166–0.364) | 0.369 (0.244–0.543) | 0.05 (0.03–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 50 to 54 | 0.146 (0.0959–0.224) | 0.270 (0.175–0.411) | 0.415 (0.271–0.631) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 55 to 59 | 0.145 (0.0872–0.229) | 0.223 (0.139–0.343) | 0.368 (0.229–0.568) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 60 to 64 | 0.206 (0.133–0.306) | 0.381 (0.249–0.562) | 0.586 (0.384–0.864) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| | 65 to 69 | 0.318 (0.204–0.474) | 0.572 (0.388–0.825) | 0.890 (0.593–1.30) | 0.2 (0.1–0.3) | 0.4 (0.3–0.6) | 0.3 (0.2–0.5) |
| | 70 to 74 | 0.409 (0.254–0.608) | 0.729 (0.454–1.08) | 1.14 (0.700–1.69) | 0.4 (0.2–0.6) | 0.6 (0.4–0.9) | 0.5 (0.3–0.8) |
| | 75 to 79 | 0.314 (0.190–0.469) | 0.538 (0.339–0.787) | 0.851 (0.529–1.26) | 0.5 (0.3–0.7) | 0.7 (0.4–1.0) | 0.6 (0.4–0.9) |
| | 80 to 84 | 0.315 (0.197–0.470) | 0.532 (0.341–0.776) | 0.846 (0.535–1.25) | 0.8 (0.5–1.2) | 1.0 (0.6–1.5) | 0.9 (0.6–1.3) |
| | 85 to 89 | 0.237 (0.157–0.337) | 0.458 (0.307–0.654) | 0.696 (0.466–0.985) | 1.2 (0.8–1.7) | 1.5 (1.0–2.1) | 1.4 (0.9–1.9) |
| | 90 to 94 | 0.113 (0.0719–0.171) | 0.252 (0.162–0.368) | 0.365 (0.235–0.538) | 1.6 (1.0–2.5) | 1.9 (1.2–2.8) | 1.8 (1.2–2.7) |
| | 95 plus | 0.0126 (0.00663–0.0243) | 0.104 (0.0558–0.191) | 0.117 (0.0624–0.215) | 0.7 (0.4–1.3) | 2.3 (1.2–4.3) | 1.9 (1.0–3.4) |
| **Cardiomyopathy and myocarditis** | | | | | | | |
| | Under 5 | 241 (169–328) | 174 (121–240) | 415 (291–564) | 72.7 (51.2–99.1) | 55.9 (38.8–77.0) | 64.6 (45.2–87.7) |
| | 5 to 9 | 219 (138–336) | 162 (101–248) | 381 (239–588) | 60.7 (38.1–93.0) | 47.7 (29.9–73.2) | 54.4 (34.2–84.0) |
| | 10 to 14 | 166 (107–236) | 126 (80.6–182) | 292 (188–417) | 47.3 (30.6–67.1) | 37.9 (24.3–54.9) | 42.8 (27.5–61.1) |
| | 15 to 19 | 170 (112–235) | 120 (77.7–172) | 290 (192–404) | 51.4 (33.9–71.0) | 38.2 (24.7–54.8) | 45.0 (29.8–62.6) |
| | 20 to 24 | 156 (111–207) | 110 (75.8–150) | 266 (187–356) | 51.0 (36.4–67.6) | 37.2 (25.6–50.5) | 44.2 (31.0–59.1) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 25 to 29 | 134 (91.8–182) | 95.0 (63.3–131) | 229 (155–309) | 45.4 (31.0–61.4) | 32.8 (21.9–45.3) | 39.1 (26.5–52.8) |
| | 30 to 34 | 127 (87.1–185) | 85.4 (55.5–127) | 212 (144–310) | 42.0 (28.8–61.2) | 29.0 (18.9–43.0) | 35.6 (24.1–52.0) |
| | 35 to 39 | 141 (97.9–199) | 86.2 (57.3–122) | 227 (156–320) | 47.5 (33.1–67.2) | 29.9 (19.9–42.3) | 38.8 (26.7–54.8) |
| | 40 to 44 | 161 (107–233) | 89.8 (55.1–134) | 251 (162–367) | 61.5 (40.8–88.9) | 35.2 (21.6–52.4) | 48.5 (31.3–71.0) |
| | 45 to 49 | 199 (137–278) | 102 (69.5–145) | 301 (203–423) | 83.1 (57.3–116.3) | 43.6 (29.6–61.6) | 63.5 (42.8–89.4) |
| | 50 to 54 | 198 (130–280) | 103 (64.1–154) | 300 (194–431) | 86.9 (57.2–123.1) | 45.3 (28.3–67.8) | 66.2 (42.7–95.0) |
| | 55 to 59 | 150 (101–223) | 81.7 (52.0–127) | 232 (154–348) | 73.8 (49.4–109.5) | 39.0 (24.8–60.5) | 56.1 (37.2–84.1) |
| | 60 to 64 | 159 (104–231) | 95.8 (61.1–144) | 255 (164–376) | 95.8 (62.9–139.3) | 54.7 (34.9–82.3) | 74.7 (48.0–110.0) |
| | 65 to 69 | 217 (144–292) | 144 (93.8–205) | 361 (238–496) | 156.8 (104.5–211.7) | 96.1 (62.6–136.9) | 125.2 (82.7–172.1) |
| | 70 to 74 | 205 (133–303) | 150 (92.6–227) | 355 (226–532) | 197.3 (127.8–291.7) | 126.1 (78.0–191.4) | 159.3 (101.4–238.9) |
| | 75 to 79 | 167 (98.6–261) | 139 (79.4–223) | 305 (181–482) | 252.3 (149.2–394.8) | 173.9 (99.7–280.3) | 209.5 (124.0–331.0) |
| | 80 to 84 | 137 (84.1–212) | 139 (85.5–223) | 276 (170–433) | 347.2 (213.0–537.7) | 260.5 (160.2–417.0) | 297.3 (183.0–466.1) |
| | 85 to 89 | 106 (65.4–166) | 137 (83.4–211) | 243 (149–375) | 532.9 (330.0–836.6) | 435.2 (265.1–671.4) | 472.9 (290.4–731.6) |
| | 90 to 94 | 45.2 (26.5–70.1) | 76.8 (44.4–122) | 122 (71.2–191) | 651.5 (381.8–1009.6) | 578.5 (334.4–916.1) | 603.6 (352.3–947.1) |
| | 95 plus | 11.4 (6.08–20.4) | 28.3 (14.4–50.6) | 39.7 (20.7–71.0) | 629.4 (334.9–1122.7) | 631.7 (321.0–1130.5) | 631.1 (329.1–1127.6) |
| **Myocarditis** | | | | | | | |
| | Under 5 | 23.0 (16.8–30.9) | 13.3 (9.80–18.0) | 36.4 (26.6–49.2) | 7.0 (5.1–9.3) | 4.3 (3.1–5.8) | 5.7 (4.1–7.6) |
| | 5 to 9 | 20.9 (14.3–30.2) | 15.1 (10.3–22.3) | 36.0 (24.5–52.4) | 5.8 (4.0–8.4) | 4.5 (3.0–6.6) | 5.1 (3.5–7.5) |
| | 10 to 14 | 15.5 (10.9–21.0) | 10.5 (7.35–14.5) | 26.0 (18.3–35.5) | 4.4 (3.1–6.0) | 3.2 (2.2–4.4) | 3.8 (2.7–5.2) |
| | 15 to 19 | 16.2 (10.1–24.7) | 11.5 (7.27–16.9) | 27.7 (17.3–41.4) | 4.9 (3.1–7.5) | 3.6 (2.3–5.4) | 4.3 (2.7–6.4) |
| | 20 to 24 | 16.6 (10.2–24.8) | 10.7 (6.69–16.0) | 27.4 (16.8–40.6) | 5.4 (3.3–8.1) | 3.6 (2.3–5.4) | 4.5 (2.8–6.7) |
| | 25 to 29 | 16.8 (10.2–25.2) | 10.6 (6.47–15.6) | 27.4 (16.5–40.8) | 5.7 (3.4–8.5) | 3.7 (2.2–5.4) | 4.7 (2.8–7.0) |
| | 30 to 34 | 17.5 (10.6–27.8) | 11.2 (6.92–17.4) | 28.7 (17.4–44.7) | 5.8 (3.5–9.2) | 3.8 (2.4–5.9) | 4.8 (2.9–7.5) |
| | 35 to 39 | 16.8 (10.8–25.0) | 11.0 (6.86–16.7) | 27.8 (17.8–42.1) | 5.7 (3.7–8.5) | 3.8 (2.4–5.8) | 4.8 (3.0–7.2) |
| | 40 to 44 | 14.2 (8.95–22.3) | 9.56 (5.97–14.5) | 23.8 (14.8–36.9) | 5.4 (3.4–8.5) | 3.7 (2.3–5.7) | 4.6 (2.9–7.1) |
| | 45 to 49 | 12.6 (8.52–18.2) | 8.81 (5.84–12.7) | 21.4 (14.4–31.1) | 5.3 (3.6–7.6) | 3.8 (2.5–5.4) | 4.5 (3.0–6.6) |
| | 50 to 54 | 11.4 (6.95–17.6) | 8.50 (5.15–13.1) | 19.9 (12.1–30.6) | 5.0 (3.1–7.7) | 3.8 (2.3–5.8) | 4.4 (2.7–6.7) |
| | 55 to 59 | 9.80 (6.12–15.5) | 7.85 (4.81–12.9) | 17.7 (10.8–28.2) | 4.8 (3.0–7.6) | 3.7 (2.3–6.2) | 4.3 (2.6–6.8) |
| | 60 to 64 | 8.32 (5.12–13.0) | 6.89 (4.15–10.8) | 15.2 (9.26–23.7) | 5.0 (3.1–7.8) | 3.9 (2.4–6.2) | 4.5 (2.7–6.9) |
| | 65 to 69 | 7.97 (5.18–11.4) | 6.88 (4.41–9.99) | 14.8 (9.58–21.4) | 5.8 (3.7–8.2) | 4.6 (2.9–6.7) | 5.2 (3.3–7.4) |
| | 70 to 74 | 6.64 (4.45–9.39) | 6.12 (4.01–8.83) | 12.8 (8.49–18.2) | 6.4 (4.3–9.0) | 5.2 (3.4–7.4) | 5.7 (3.8–8.2) |
| | 75 to 79 | 4.74 (3.22–6.61) | 4.59 (3.10–6.36) | 9.33 (6.31–13.0) | 7.2 (4.9–10.0) | 5.8 (3.9–8.0) | 6.4 (4.3–8.9) |
| | 80 to 84 | 3.62 (2.54–5.19) | 3.88 (2.68–5.65) | 7.51 (5.21–10.9) | 9.2 (6.4–13.2) | 7.3 (5.0–10.6) | 8.1 (5.6–11.7) |
| | 85 to 89 | 2.39 (1.62–3.50) | 3.28 (2.32–4.70) | 5.68 (3.99–8.22) | 12.1 (8.2–17.6) | 10.4 (7.4–14.9) | 11.1 (7.8–16.0) |
| | 90 to 94 | 1.20 (0.817–1.75) | 1.78 (1.19–2.64) | 2.99 (2.01–4.34) | 17.3 (11.8–25.3) | 13.4 (9.0–19.9) | 14.8 (9.9–21.5) |
| | 95 plus | 0.425 (0.252–0.701) | 0.791 (0.457–1.30) | 1.22 (0.707–1.99) | 23.4 (13.9–38.6) | 17.7 (10.2–28.9) | 19.3 (11.2–31.6) |
| **Alcoholic cardiomyopathy** | | | | | | | |

| Cause Names | Age Group | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 10.5 (6.49–15.6) | 3.94 (2.41–5.99) | 14.5 (8.91–21.6) | 3.2 (2.0–4.7) | 1.3 (0.8–1.9) | 2.2 (1.4–3.3) |
| | 20 to 24 | 13.9 (9.48–19.1) | 6.02 (3.96–8.35) | 19.9 (13.5–27.6) | 4.6 (3.1–6.3) | 2.0 (1.3–2.8) | 3.3 (2.2–4.6) |
| | 25 to 29 | 15.4 (10.1–21.4) | 5.50 (3.86–7.35) | 20.9 (13.9–28.9) | 5.2 (3.4–7.2) | 1.9 (1.3–2.5) | 3.6 (2.4–4.9) |
| | 30 to 34 | 17.9 (11.6–25.9) | 5.64 (3.72–8.00) | 23.5 (15.6–33.7) | 5.9 (3.8–8.6) | 1.9 (1.3–2.7) | 3.9 (2.6–5.6) |
| | 35 to 39 | 24.0 (16.3–33.2) | 6.53 (4.24–9.13) | 30.6 (20.7–42.1) | 8.1 (5.5–11.2) | 2.3 (1.5–3.2) | 5.2 (3.5–7.2) |
| | 40 to 44 | 31.3 (20.7–44.4) | 8.04 (5.21–11.5) | 39.3 (25.9–55.0) | 12.0 (7.9–17.0) | 3.2 (2.0–4.5) | 7.6 (5.0–10.7) |
| | 45 to 49 | 46.2 (33.2–63.0) | 11.8 (8.47–15.8) | 58.0 (41.7–78.7) | 19.3 (13.9–26.3) | 5.0 (3.6–6.7) | 12.2 (8.8–16.6) |
| | 50 to 54 | 50.9 (35.4–71.0) | 13.6 (9.42–19.1) | 64.5 (45.0–90.1) | 22.4 (15.5–31.2) | 6.0 (4.2–8.4) | 14.2 (9.9–19.8) |
| | 55 to 59 | 38.5 (26.1–53.2) | 9.97 (6.68–14.1) | 48.5 (33.0–67.0) | 18.9 (12.8–26.1) | 4.8 (3.2–6.7) | 11.7 (8.0–16.2) |
| | 60 to 64 | 41.5 (28.3–57.1) | 12.8 (8.76–17.6) | 54.3 (37.1–75.6) | 25.0 (17.1–34.4) | 7.3 (5.0–10.1) | 15.9 (10.9–22.1) |
| | 65 to 69 | 54.8 (38.3–73.4) | 17.0 (12.0–23.6) | 71.9 (50.2–96.1) | 39.7 (27.7–53.1) | 11.4 (8.0–15.7) | 24.9 (17.4–33.3) |
| | 70 to 74 | 41.5 (27.0–60.1) | 10.6 (6.92–15.4) | 52.1 (34.0–75.3) | 39.9 (26.0–57.8) | 8.9 (5.8–13.0) | 23.4 (15.3–33.8) |
| | 75 to 79 | 18.8 (12.2–26.8) | 4.67 (3.02–6.51) | 23.5 (15.2–33.3) | 28.5 (18.4–40.6) | 5.9 (3.8–8.2) | 16.1 (10.4–22.9) |
| | 80 to 84 | 8.28 (5.43–12.0) | 2.63 (1.74–3.82) | 10.9 (7.21–15.8) | 21.0 (13.8–30.4) | 4.9 (3.3–7.1) | 11.8 (7.8–17.0) |
| | 85 to 89 | 5.74 (3.95–8.39) | 2.40 (1.69–3.48) | 8.14 (5.61–11.9) | 29.0 (20.0–42.4) | 7.6 (5.4–11.1) | 15.9 (10.9–23.1) |
| | 90 to 94 | 2.03 (1.26–3.13) | 1.08 (0.708–1.63) | 3.11 (1.96–4.70) | 29.3 (18.2–45.1) | 8.1 (5.3–12.3) | 15.4 (9.7–23.3) |
| | 95 plus | 0.409 (0.222–0.728) | 0.330 (0.189–0.537) | 0.739 (0.415–1.25) | 22.5 (12.2–40.1) | 7.4 (4.2–12.0) | 11.7 (6.6–19.9) |
| **Other cardiomyopathy** | | | | | | | |
| | Under 5 | 218 (148–306) | 161 (108–227) | 379 (255–529) | 65.8 (44.6–92.4) | 51.7 (34.7–72.9) | 58.9 (39.7–82.2) |
| | 5 to 9 | 198 (118–315) | 147 (86.4–232) | 345 (205–549) | 54.9 (32.6–87.3) | 43.2 (25.4–68.4) | 49.3 (29.2–78.4) |
| | 10 to 14 | 151 (91.0–219) | 115 (70.0–169) | 266 (161–388) | 42.9 (25.9–62.4) | 34.7 (21.1–51.1) | 39.0 (23.6–56.9) |
| | 15 to 19 | 143 (87.7–205) | 105 (63.2–155) | 248 (151–359) | 43.3 (26.5–62.0) | 33.3 (20.1–49.5) | 38.4 (23.4–55.7) |
| | 20 to 24 | 125 (84.2–175) | 93.5 (59.7–131) | 219 (144–309) | 41.0 (27.5–57.1) | 31.5 (20.1–44.2) | 36.4 (23.9–51.2) |
| | 25 to 29 | 102 (62.9–149) | 78.9 (48.0–114) | 181 (111–263) | 34.5 (21.3–50.3) | 27.2 (16.6–39.5) | 30.9 (18.9–44.9) |
| | 30 to 34 | 91.6 (55.3–144) | 68.6 (40.2–110) | 160 (95.2–254) | 30.3 (18.3–47.7) | 23.3 (13.7–37.3) | 26.8 (16.0–42.6) |
| | 35 to 39 | 99.8 (60.6–149) | 68.6 (41.6–105) | 168 (103–253) | 33.7 (20.5–50.4) | 23.8 (14.4–36.3) | 28.8 (17.6–43.4) |
| | 40 to 44 | 115 (66.0–180) | 72.2 (39.3–114) | 188 (105–296) | 44.1 (25.3–68.6) | 28.3 (15.4–44.7) | 36.3 (20.4–57.2) |
| | 45 to 49 | 140 (82.8–206) | 81.6 (46.1–122) | 221 (128–327) | 58.5 (34.6–86.2) | 34.8 (19.7–52.2) | 46.7 (27.1–69.1) |
| | 50 to 54 | 135 (77.3–206) | 80.6 (43.7–127) | 216 (121–330) | 59.5 (33.9–90.5) | 35.6 (19.3–55.9) | 47.6 (26.6–72.8) |
| | 55 to 59 | 102 (61.4–163) | 63.9 (36.2–106) | 166 (97.4–269) | 50.1 (30.1–79.9) | 30.5 (17.3–50.4) | 40.1 (23.5–65.0) |
| | 60 to 64 | 109 (64.5–175) | 76.1 (44.1–123) | 185 (109–297) | 65.9 (38.8–105.2) | 43.4 (25.2–70.0) | 54.3 (31.9–86.9) |
| | 65 to 69 | 154 (98.0–229) | 120 (75.5–180) | 274 (174–406) | 111.4 (70.9–165.4) | 80.1 (50.4–120.3) | 95.1 (60.2–140.8) |
| | 70 to 74 | 157 (91.3–246) | 133 (77.1–209) | 290 (168–454) | 151.2 (87.7–236.7) | 112.0 (64.9–175.7) | 130.3 (75.5–203.9) |
| | 75 to 79 | 143 (81.0–234) | 129 (72.4–214) | 273 (153–446) | 216.7 (122.6–354.7) | 162.3 (90.9–268.4) | 187.0 (104.7–306.3) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 80 to 84 | 125 (73.5–199) | 133 (79.6–216) | 258 (153–414) | 317.2 (186.2–504.4) | 248.3 (149.1–404.9) | 277.6 (165.2–445.9) |
| | 85 to 89 | 97.5 (58.7–156) | 131 (77.6–206) | 229 (136–360) | 492.2 (296.4–789.2) | 417.2 (246.4–653.2) | 446.2 (265.7–701.9) |
| | 90 to 94 | 42.0 (23.7–67.2) | 74.0 (41.8–119) | 116 (65.3–186) | 605.3 (341.6–967.3) | 557.1 (314.8–895.3) | 573.6 (322.9–919.7) |
| | 95 plus | 10.6 (5.34–19.5) | 27.2 (13.3–49.5) | 37.8 (18.6–68.9) | 583.8 (294.2–1073.5) | 606.9 (297.6–1105.2) | 600.2 (295.3–1094.9) |
| **Pulmonary Arterial Hypertension** | | | | | | | |
| | Under 5 | 0.626 (0.444–0.856) | 0.845 (0.603–1.15) | 1.47 (1.05–2.01) | 0.2 (0.1–0.3) | 0.3 (0.2–0.4) | 0.2 (0.2–0.3) |
| | 5 to 9 | 1.34 (0.958–1.76) | 1.82 (1.33–2.38) | 3.16 (2.29–4.14) | 0.4 (0.3–0.5) | 0.5 (0.4–0.7) | 0.5 (0.3–0.6) |
| | 10 to 14 | 1.84 (1.22–2.60) | 2.56 (1.80–3.59) | 4.40 (3.03–6.18) | 0.5 (0.3–0.7) | 0.8 (0.5–1.1) | 0.6 (0.4–0.9) |
| | 15 to 19 | 2.43 (1.42–3.78) | 3.48 (2.10–5.22) | 5.91 (3.52–8.99) | 0.7 (0.4–1.1) | 1.1 (0.7–1.7) | 0.9 (0.5–1.4) |
| | 20 to 24 | 2.99 (1.98–4.42) | 4.44 (3.00–6.45) | 7.43 (4.97–10.9) | 1.0 (0.6–1.4) | 1.5 (1.0–2.2) | 1.2 (0.8–1.8) |
| | 25 to 29 | 3.67 (2.39–5.50) | 5.57 (3.77–8.03) | 9.25 (6.19–13.5) | 1.2 (0.8–1.9) | 1.9 (1.3–2.8) | 1.6 (1.1–2.3) |
| | 30 to 34 | 4.65 (2.93–6.92) | 7.12 (4.67–10.4) | 11.8 (7.62–17.3) | 1.5 (1.0–2.3) | 2.4 (1.6–3.5) | 2.0 (1.3–2.9) |
| | 35 to 39 | 5.40 (3.63–7.75) | 8.44 (5.91–11.8) | 13.8 (9.56–19.5) | 1.8 (1.2–2.6) | 2.9 (2.0–4.1) | 2.4 (1.6–3.3) |
| | 40 to 44 | 5.40 (3.61–7.78) | 8.68 (5.97–12.3) | 14.1 (9.53–20.0) | 2.1 (1.4–3.0) | 3.4 (2.3–4.8) | 2.7 (1.8–3.9) |
| | 45 to 49 | 5.68 (3.53–8.62) | 9.17 (6.07–13.3) | 14.9 (9.62–21.9) | 2.4 (1.5–3.6) | 3.9 (2.6–5.7) | 3.1 (2.0–4.6) |
| | 50 to 54 | 6.57 (4.58–9.16) | 10.5 (7.51–15.0) | 17.1 (12.1–24.3) | 2.9 (2.0–4.0) | 4.6 (3.3–6.6) | 3.8 (2.7–5.4) |
| | 55 to 59 | 7.09 (4.84–9.92) | 11.6 (7.93–16.2) | 18.7 (12.8–26.2) | 3.5 (2.4–4.9) | 5.5 (3.8–7.7) | 4.5 (3.1–6.3) |
| | 60 to 64 | 6.81 (4.38–10.0) | 11.4 (7.65–16.6) | 18.2 (12.0–26.5) | 4.1 (2.6–6.0) | 6.5 (4.4–9.5) | 5.3 (3.5–7.8) |
| | 65 to 69 | 6.73 (4.78–9.36) | 11.2 (7.80–15.4) | 17.9 (12.6–24.6) | 4.9 (3.5–6.8) | 7.5 (5.2–10.2) | 6.2 (4.4–8.5) |
| | 70 to 74 | 6.04 (4.29–8.30) | 10.1 (7.19–13.6) | 16.1 (11.4–21.9) | 5.8 (4.1–8.0) | 8.5 (6.1–11.5) | 7.2 (5.1–9.8) |
| | 75 to 79 | 4.31 (2.77–6.45) | 7.27 (4.92–10.5) | 11.6 (7.62–17.0) | 6.5 (4.2–9.8) | 9.1 (6.2–13.2) | 7.9 (5.2–11.7) |
| | 80 to 84 | 2.42 (1.67–3.41) | 4.52 (3.12–6.30) | 6.94 (4.75–9.69) | 6.1 (4.2–8.6) | 8.5 (5.8–11.8) | 7.5 (5.1–10.4) |
| | 85 to 89 | 1.07 (0.713–1.56) | 2.32 (1.59–3.31) | 3.39 (2.30–4.88) | 5.4 (3.6–7.9) | 7.4 (5.0–10.5) | 6.6 (4.5–9.5) |
| | 90 to 94 | 0.314 (0.196–0.478) | 0.852 (0.535–1.27) | 1.17 (0.731–1.75) | 4.5 (2.8–6.9) | 6.4 (4.0–9.6) | 5.8 (3.6–8.6) |
| | 95 plus | 0.0688 (0.0382–0.110) | 0.255 (0.146–0.397) | 0.324 (0.184–0.505) | 3.8 (2.1–6.1) | 5.7 (3.3–8.9) | 5.2 (2.9–8.0) |
| **Atrial fibrillation and flutter** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | 26.4 (13.3–45.6) | 15.0 (7.06–26.8) | 41.4 (20.4–72.3) | 8.7 (4.4–15.1) | 5.1 (2.4–9.1) | 6.9 (3.4–12.1) |
| | 35 to 39 | 181 (91.2–313) | 102 (47.7–182) | 283 (139–495) | 61.3 (30.8–105.9) | 35.3 (16.6–63.0) | 48.5 (23.8–84.7) |
| | 40 to 44 | 462 (258–733) | 261 (134–434) | 724 (393–1160) | 176.7 (98.5–280.3) | 102.4 (52.4–170.2) | 140.0 (76.1–224.0) |
| | 45 to 49 | 916 (570–1300) | 538 (338–787) | 1450 (911–2080) | 383.3 (238.4–542.4) | 229.1 (144.0–335.3) | 306.9 (192.2–440.0) |
| | 50 to 54 | 1620 (1020–2350) | 980 (601–1440) | 2600 (1620–3780) | 709.9 (447.5–1031.6) | 432.4 (265.4–635.3) | 571.5 (356.2–833.2) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 55 to 59 | 2490 (1700–3400) | 1590 (1060–2200) | 4090 (2760–5610) | 1222.9 (836.0–1666.6) | 760.5 (505.5–1050.6) | 988.5 (666.2–1356.4) |
| | 60 to 64 | 3380 (2380–4670) | 2270 (1560–3180) | 5650 (3950–7860) | 2035.8 (1434.8–2813.5) | 1294.7 (890.3–1817.3) | 1655.3 (1156.2–2302.0) |
| | 65 to 69 | 4600 (3380–6140) | 3340 (2420–4530) | 7950 (5790–10700) | 3331.4 (2445.9–4446.2) | 2229.4 (1616.2–3017.1) | 2757.8 (2010.3–3700.9) |
| | 70 to 74 | 5400 (3970–7560) | 4290 (3070–6080) | 9700 (7050–13600) | 5195.6 (3816.2–7263.5) | 3617.8 (2590.6–5123.9) | 4354.8 (3164.9–6119.7) |
| | 75 to 79 | 5060 (3780–6790) | 4420 (3270–6050) | 9480 (7050–12800) | 7657.3 (5713.4–10276.2) | 5553.9 (4106.6–7593.3) | 6507.6 (4835.1–8809.7) |
| | 80 to 84 | 4080 (2940–5590) | 4150 (2920–5790) | 8230 (5870–11400) | 10345.5 (7459.9–14161.5) | 7768.6 (5464.0–10851.3) | 8863.7 (6320.9–12275.9) |
| | 85 to 89 | 2510 (1900–3380) | 3070 (2330–4170) | 5580 (4230–7550) | 12677.7 (9579.7–17083.1) | 9742.9 (7387.3–13246.1) | 10876.5 (8240.3–14722.5) |
| | 90 to 94 | 993 (757–1290) | 1490 (1140–1970) | 2480 (1890–3240) | 14302.7 (10908.4–18612.2) | 11227.2 (8566.3–14816.4) | 12283.3 (9346.3–16029.3) |
| | 95 plus | 269 (208–357) | 520 (391–693) | 788 (599–1050) | 14808.0 (11449.3–19637.0) | 11602.4 (8730.5–15476.0) | 12527.1 (9515.9–16611.2) |
| **Aortic aneurysm** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Lower extremity peripheral arterial disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | 448 (273–672) | 548 (340–814) | 996 (616–1490) | 171.2 (104.5–257.0) | 214.9 (133.4–319.1) | 192.8 (119.2–288.9) |
| | 45 to 49 | 1070 (655–1620) | 1390 (858–2130) | 2460 (1520–3750) | 445.9 (274.2–677.4) | 594.4 (365.8–908.4) | 519.4 (320.3–791.8) |
| | 50 to 54 | 2180 (1410–3400) | 2990 (1950–4590) | 5170 (3370–7980) | 958.8 (621.2–1493.2) | 1318.3 (862.2–2024.4) | 1138.1 (742.7–1758.1) |
| | 55 to 59 | 3870 (2730–5670) | 5430 (3810–7990) | 9290 (6560–13700) | 1895.8 (1336.8–2781.6) | 2587.2 (1817.7–3809.4) | 2246.3 (1586.8–3302.7) |
| | 60 to 64 | 5510 (3770–8320) | 7690 (5180–11700) | 13200 (8940–19900) | 3315.8 (2268.1–5010.0) | 4387.7 (2955.8–6673.1) | 3866.1 (2621.2–5833.2) |
| | 65 to 69 | 7420 (5340–10800) | 10600 (7590–15500) | 18100 (12900–26200) | 5372.2 (3864.0–7783.5) | 7097.0 (5061.8–10312.7) | 6269.9 (4466.9–9102.0) |
| | 70 to 74 | 8230 (5830–11500) | 12400 (8720–17500) | 20600 (14600–29000) | 7916.7 (5607.8–11041.8) | 10418.4 (7350.1–14742.1) | 9249.9 (6536.3–13013.7) |
| | 75 to 79 | 7190 (5220–9550) | 11300 (8170–15100) | 18500 (13400–24600) | 10881.1 (7894.3–14456.8) | 14179.6 (10256.4–18908.8) | 12684.0 (9165.7–16890.3) |
| | 80 to 84 | 5550 (3840–7650) | 9750 (6780–13300) | 15300 (10600–21000) | 14065.9 (9738.7–19379.4) | 18261.6 (12699.7–24877.3) | 16478.5 (11428.5–22606.5) |
| | 85 to 89 | 3570 (2550–4610) | 7270 (5180–9420) | 10800 (7730–14000) | 18039.7 (12894.1–23252.2) | 23082.7 (16442.5–29928.1) | 21134.8 (15071.9–27351.4) |
| | 90 to 94 | 1590 (1150–2230) | 3830 (2780–5280) | 5420 (3930–7510) | 22961.3 (16547.5–32113.3) | 28843.3 (20973.3–39799.7) | 26823.5 (19458.1–37160.3) |
| | 95 plus | 539 (364–752) | 1620 (1110–2210) | 2160 (1470–2960) | 29699.9 (20057.4–41433.7) | 36203.9 (24796.8–49335.5) | 34327.7 (23429.6–47060.1) |
| **Endocarditis** | | | | | | | |
| | Under 5 | 10.7 (8.43–13.4) | 8.05 (6.28–10.2) | 18.7 (14.7–23.6) | 3.2 (2.5–4.0) | 2.6 (2.0–3.3) | 2.9 (2.3–3.7) |
| | 5 to 9 | 11.0 (7.55–15.3) | 8.45 (5.87–11.6) | 19.5 (13.3–26.9) | 3.1 (2.1–4.2) | 2.5 (1.7–3.4) | 2.8 (1.9–3.8) |
| | 10 to 14 | 8.66 (5.83–12.3) | 7.03 (4.86–10.1) | 15.7 (10.7–22.4) | 2.5 (1.7–3.5) | 2.1 (1.5–3.0) | 2.3 (1.6–3.3) |
| | 15 to 19 | 13.9 (8.93–20.8) | 11.3 (7.21–17.2) | 25.1 (15.9–37.9) | 4.2 (2.7–6.3) | 3.6 (2.3–5.5) | 3.9 (2.5–5.9) |
| | 20 to 24 | 14.7 (9.69–21.2) | 12.5 (8.15–18.1) | 27.2 (17.8–39.4) | 4.8 (3.2–6.9) | 4.2 (2.7–6.1) | 4.5 (3.0–6.5) |
| | 25 to 29 | 14.7 (9.20–22.6) | 13.3 (8.34–20.0) | 28.1 (17.5–42.7) | 5.0 (3.1–7.6) | 4.6 (2.9–6.9) | 4.8 (3.0–7.3) |
| | 30 to 34 | 12.4 (7.55–19.2) | 10.3 (6.18–15.7) | 22.7 (13.6–34.8) | 4.1 (2.5–6.4) | 3.5 (2.1–5.3) | 3.8 (2.3–5.8) |
| | 35 to 39 | 8.48 (5.70–12.2) | 6.99 (4.64–9.84) | 15.5 (10.3–21.8) | 2.9 (1.9–4.1) | 2.4 (1.6–3.4) | 2.6 (1.8–3.7) |
| | 40 to 44 | 4.26 (2.97–6.26) | 3.25 (2.26–4.73) | 7.52 (5.22–10.9) | 1.6 (1.1–2.4) | 1.3 (0.9–1.9) | 1.5 (1.0–2.1) |
| | 45 to 49 | 4.74 (3.50–6.50) | 3.48 (2.57–4.80) | 8.22 (6.11–11.3) | 2.0 (1.5–2.7) | 1.5 (1.1–2.0) | 1.7 (1.3–2.4) |
| | 50 to 54 | 5.40 (3.99–7.04) | 3.89 (2.84–5.15) | 9.29 (6.84–12.2) | 2.4 (1.8–3.1) | 1.7 (1.3–2.3) | 2.0 (1.5–2.7) |
| | 55 to 59 | 6.54 (4.85–8.77) | 4.57 (3.39–6.22) | 11.1 (8.24–15.0) | 3.2 (2.4–4.3) | 2.2 (1.6–3.0) | 2.7 (2.0–3.6) |
| | 60 to 64 | 9.53 (7.16–12.1) | 7.38 (5.55–9.66) | 16.9 (12.7–21.5) | 5.7 (4.3–7.3) | 4.2 (3.2–5.5) | 5.0 (3.7–6.3) |
| | 65 to 69 | 17.0 (13.0–22.3) | 15.2 (11.6–20.3) | 32.3 (24.4–42.8) | 12.3 (9.4–16.1) | 10.2 (7.7–13.5) | 11.2 (8.5–14.9) |
| | 70 to 74 | 20.3 (15.7–26.6) | 19.3 (14.5–26.1) | 39.6 (30.6–52.9) | 19.5 (15.1–25.5) | 16.3 (12.2–22.0) | 17.8 (13.8–23.8) |
| | 75 to 79 | 17.2 (12.3–22.9) | 16.5 (11.8–22.0) | 33.8 (24.2–44.8) | 26.1 (18.6–34.7) | 20.8 (14.8–27.6) | 23.2 (16.6–30.7) |
| | 80 to 84 | 15.1 (11.3–19.3) | 17.8 (13.3–23.6) | 32.9 (24.7–42.3) | 38.1 (28.7–49.0) | 33.4 (24.9–44.2) | 35.4 (26.6–45.6) |
| | 85 to 89 | 12.7 (9.16–16.8) | 19.8 (13.9–26.7) | 32.5 (23.5–43.2) | 63.9 (46.3–84.6) | 63.0 (44.2–85.0) | 63.3 (45.8–84.2) |
| | 90 to 94 | 6.37 (4.35–8.91) | 14.1 (9.50–19.8) | 20.4 (14.0–28.7) | 91.8 (62.7–128.3) | 106.0 (71.6–149.2) | 101.1 (69.2–141.8) |
| | 95 plus | 1.65 (0.900–2.76) | 6.10 (3.43–10.7) | 7.75 (4.33–13.4) | 91.0 (49.6–151.9) | 136.1 (76.6–239.6) | 123.1 (68.7–213.1) |
| **Other cardiovascular and circulatory diseases** | | | | | | | |
| | Under 5 | 611 (428–835) | 321 (222–446) | 932 (648–1280) | 184.4 (129.2–252.1) | 102.9 (71.3–143.2) | 144.9 (100.7–199.1) |

| | | Prevalence count (thousands) | | | Prevalence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| Cause Names | Age Group | Males | Females | Both sexes | Males | Females | Both sexes |
| | 5 to 9 | 809 (503–1200) | 559 (347–843) | 1370 (848–2030) | 224.1 (139.4–331.3) | 164.8 (102.2–248.5) | 195.3 (121.1–290.1) |
| | 10 to 14 | 908 (557–1330) | 634 (401–921) | 1540 (959–2320) | 258.6 (158.6–378.9) | 191.5 (121.0–278.0) | 226.0 (140.6–339.8) |
| | 15 to 19 | 613 (355–1010) | 408 (230–691) | 1020 (594–1710) | 185.6 (107.3–305.3) | 130.0 (73.4–219.9) | 158.5 (92.1–265.9) |
| | 20 to 24 | 438 (238–773) | 450 (256–757) | 888 (491–1550) | 143.4 (77.8–252.8) | 151.7 (86.4–255.4) | 147.5 (81.5–257.6) |
| | 25 to 29 | 543 (302–919) | 645 (372–1060) | 1190 (673–1960) | 183.4 (102.2–310.7) | 222.8 (128.3–364.9) | 202.9 (114.9–334.5) |
| | 30 to 34 | 790 (434–1400) | 887 (501–1510) | 1680 (952–2900) | 261.2 (143.6–461.6) | 301.4 (170.3–511.9) | 281.0 (159.5–486.7) |
| | 35 to 39 | 1190 (631–2080) | 1270 (724–2180) | 2460 (1390–4240) | 400.8 (213.4–703.8) | 442.0 (251.0–755.3) | 421.2 (237.9–726.2) |
| | 40 to 44 | 2590 (1250–4710) | 2360 (1180–4220) | 4950 (2420–8970) | 990.5 (477.7–1802.0) | 924.8 (461.6–1654.1) | 958.1 (468.9–1736.0) |
| | 45 to 49 | 2910 (1480–5190) | 2770 (1450–4830) | 5680 (2890–10200) | 1217.8 (618.6–2169.4) | 1178.7 (618.3–2059.9) | 1198.4 (611.1–2154.0) |
| | 50 to 54 | 2940 (1530–4810) | 3030 (1590–4890) | 5970 (3110–9490) | 1292.8 (672.0–2111.6) | 1338.4 (703.8–2158.0) | 1315.5 (684.3–2089.7) |
| | 55 to 59 | 3320 (1730–5890) | 2840 (1500–4900) | 6160 (3260–10800) | 1627.7 (849.9–2887.7) | 1353.9 (715.8–2336.5) | 1488.9 (788.4–2601.7) |
| | 60 to 64 | 4150 (2330–6790) | 3600 (1950–5810) | 7750 (4360–12500) | 2497.0 (1404.3–4087.5) | 2057.3 (1111.8–3318.9) | 2271.3 (1278.8–3674.6) |
| | 65 to 69 | 5740 (3140–9660) | 4790 (2670–7810) | 10500 (5850–17400) | 4155.4 (2271.4–6992.1) | 3192.6 (1781.0–5206.5) | 3654.3 (2030.9–6030.7) |
| | 70 to 74 | 6240 (3570–10400) | 5120 (3040–8400) | 11400 (6610–18600) | 5998.5 (3427.3–9956.2) | 4315.3 (2559.5–7079.5) | 5101.5 (2969.3–8363.3) |
| | 75 to 79 | 5110 (3000–8240) | 4200 (2570–6820) | 9300 (5600–15100) | 7727.0 (4543.7–12478.1) | 5267.3 (3220.4–8564.8) | 6382.5 (3844.2–10390.4) |
| | 80 to 84 | 3900 (2500–5940) | 3260 (2070–5070) | 7160 (4600–11000) | 9878.3 (6340.3–15048.7) | 6101.7 (3885.6–9490.0) | 7706.7 (4948.4–11860.1) |
| | 85 to 89 | 2230 (1310–3370) | 2240 (1320–3480) | 4470 (2630–6880) | 11249.3 (6621.0–17005.3) | 7128.7 (4205.4–11063.7) | 8720.3 (5119.4–13416.5) |
| | 90 to 94 | 855 (518–1320) | 1080 (638–1750) | 1940 (1170–3110) | 12309.7 (7456.3–19047.5) | 8159.3 (4804.7–13176.8) | 9584.5 (5772.8–15367.5) |
| | 95 plus | 239 (125–402) | 392 (202–685) | 631 (321–1080) | 13171.4 (6883.8–22155.0) | 8752.4 (4501.4–15301.8) | 10027.2 (5108.2–17095.6) |

**Table S17. Cardiovascular disease incidence rates by age and sex**

| Cause Names | Age Group | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| **Cardiovascular diseases** | | | | | | | |
| | Under 5 | 351 (279–444) | 303 (238–391) | 654 (517–835) | 105.9 (84.1–134.1) | 97.2 (76.2–125.4) | 101.7 (80.4–129.8) |
| | 5 to 9 | 464 (321–684) | 416 (284–620) | 879 (602–1300) | 128.4 (88.8–189.5) | 122.4 (83.8–182.6) | 125.5 (85.9–186.0) |
| | 10 to 14 | 416 (259–625) | 390 (243–592) | 806 (503–1220) | 118.5 (73.8–178.1) | 117.7 (73.3–178.7) | 118.1 (73.7–178.4) |
| | 15 to 19 | 450 (313–637) | 449 (310–646) | 899 (624–1290) | 136.1 (94.6–192.7) | 142.9 (98.7–205.7) | 139.4 (96.9–199.4) |
| | 20 to 24 | 407 (259–587) | 418 (257–610) | 825 (516–1200) | 133.2 (84.8–192.0) | 141.0 (86.7–205.6) | 137.1 (85.7–198.6) |
| | 25 to 29 | 379 (295–493) | 371 (281–483) | 750 (580–977) | 128.1 (99.7–166.7) | 128.3 (97.0–166.8) | 128.2 (99.1–166.8) |
| | 30 to 34 | 432 (370–508) | 373 (317–442) | 804 (686–946) | 142.8 (122.5–167.9) | 126.6 (107.5–150.3) | 134.8 (115.0–158.5) |
| | 35 to 39 | 534 (461–644) | 405 (347–498) | 938 (808–1150) | 180.5 (155.7–217.8) | 140.3 (120.3–172.9) | 160.7 (138.3–196.4) |
| | 40 to 44 | 778 (680–881) | 581 (493–685) | 1360 (1180–1560) | 297.5 (259.8–336.7) | 227.6 (193.2–268.4) | 263.0 (228.3–302.0) |
| | 45 to 49 | 1090 (896–1270) | 794 (648–999) | 1880 (1540–2260) | 455.9 (374.8–529.4) | 338.4 (276.3–425.9) | 397.7 (325.5–476.6) |
| | 50 to 54 | 1670 (1440–1910) | 1240 (1030–1470) | 2910 (2480–3380) | 732.5 (630.5–840.8) | 547.6 (453.9–650.4) | 640.3 (547.1–744.1) |
| | 55 to 59 | 2320 (1890–2850) | 1780 (1400–2320) | 4100 (3320–5170) | 1135.6 (925.1–1396.4) | 849.8 (668.1–1105.5) | 990.7 (802.9–1248.9) |
| | 60 to 64 | 2980 (2590–3480) | 2410 (2010–2920) | 5390 (4620–6410) | 1795.3 (1562.7–2093.3) | 1375.3 (1144.9–1663.8) | 1579.7 (1354.5–1878.5) |
| | 65 to 69 | 3630 (3080–4300) | 3130 (2550–3820) | 6770 (5610–7950) | 2629.3 (2227.0–3112.7) | 2089.9 (1703.5–2546.3) | 2348.6 (1946.0–2760.1) |
| | 70 to 74 | 3630 (3170–4190) | 3400 (2900–4050) | 7040 (6180–8190) | 3494.4 (3043.0–4028.0) | 2868.6 (2443.0–3408.5) | 3160.9 (2773.4–3676.9) |
| | 75 to 79 | 2880 (2420–3450) | 2950 (2460–3590) | 5830 (4940–7020) | 4354.8 (3655.1–5225.6) | 3707.9 (3085.9–4510.6) | 4001.2 (3390.2–4818.1) |
| | 80 to 84 | 2240 (1940–2600) | 2620 (2250–3080) | 4860 (4190–5650) | 5678.5 (4913.5–6596.6) | 4912.6 (4204.6–5763.6) | 5238.1 (4509.9–6085.8) |
| | 85 to 89 | 1480 (1200–1780) | 2020 (1630–2540) | 3490 (2840–4280) | 7446.4 (6075.1–8977.6) | 6411.0 (5194.0–8067.4) | 6810.9 (5535.8–8345.1) |
| | 90 to 94 | 669 (561–773) | 1070 (879–1270) | 1740 (1440–2040) | 9637.6 (8073.6–11139.4) | 8073.8 (6623.7–9530.6) | 8610.8 (7101.9–10091.3) |
| | 95 plus | 224 (177–280) | 452 (360–559) | 676 (538–841) | 12358.3 (9761.2–15432.2) | 10087.1 (8038.6–12472.3) | 10742.3 (8547.4–13358.3) |
| **Rheumatic heart disease** | | | | | | | |
| | Under 5 | 228 (154–320) | 209 (140–295) | 437 (294–614) | 69.0 (46.4–96.4) | 67.0 (45.0–94.6) | 68.0 (45.7–95.5) |
| | 5 to 9 | 368 (221–596) | 337 (203–546) | 705 (424–1140) | 101.9 (61.3–165.1) | 99.2 (59.8–160.7) | 100.6 (60.6–163.3) |
| | 10 to 14 | 321 (166–531) | 313 (163–520) | 634 (332–1050) | 91.4 (47.1–151.1) | 94.4 (49.3–157.1) | 92.8 (48.6–153.9) |
| | 15 to 19 | 331 (192–510) | 353 (215–543) | 684 (407–1050) | 100.0 (58.1–154.3) | 112.4 (68.5–172.7) | 106.1 (63.1–163.3) |
| | 20 to 24 | 261 (132–434) | 300 (150–490) | 561 (283–917) | 85.4 (43.1–142.0) | 101.2 (50.6–165.4) | 93.2 (47.0–152.2) |
| | 25 to 29 | 201 (125–305) | 232 (145–342) | 433 (270–647) | 68.0 (42.2–103.1) | 80.2 (50.1–118.0) | 74.0 (46.1–110.4) |
| | 30 to 34 | 155 (113–204) | 173 (127–227) | 328 (239–431) | 51.3 (37.4–67.4) | 58.7 (43.0–77.1) | 54.9 (40.1–72.3) |
| | 35 to 39 | 115 (77.3–166) | 121 (84.8–175) | 236 (162–343) | 38.7 (26.1–56.0) | 42.0 (29.4–60.7) | 40.3 (27.8–58.8) |
| | 40 to 44 | 67.0 (37.0–109) | 67.5 (37.5–109) | 135 (74.5–219) | 25.6 (14.1–41.6) | 26.4 (14.7–42.6) | 26.0 (14.4–42.4) |
| | 45 to 49 | 22.9 (14.2–34.0) | 24.0 (15.1–35.4) | 46.9 (29.4–69.4) | 9.6 (5.9–14.2) | 10.2 (6.4–15.1) | 9.9 (6.2–14.7) |
| | 50 to 54 | 7.75 (5.20–11.4) | 9.57 (6.29–14.2) | 17.3 (11.5–25.8) | 3.4 (2.3–5.0) | 4.2 (2.8–6.3) | 3.8 (2.5–5.7) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 55 to 59 | 9.99 (5.70–14.9) | 11.8 (6.89–17.7) | 21.7 (12.6–32.4) | 4.9 (2.8–7.3) | 5.6 (3.3–8.4) | 5.3 (3.0–7.8) |
| | 60 to 64 | 11.0 (7.42–14.8) | 12.8 (8.71–17.6) | 23.7 (16.1–32.4) | 6.6 (4.5–8.9) | 7.3 (5.0–10.0) | 7.0 (4.7–9.5) |
| | 65 to 69 | 12.0 (7.26–17.4) | 14.6 (9.20–21.1) | 26.6 (16.4–38.7) | 8.7 (5.3–12.6) | 9.8 (6.1–14.1) | 9.2 (5.7–13.4) |
| | 70 to 74 | 12.8 (8.69–18.2) | 15.8 (11.0–21.7) | 28.6 (19.7–40.1) | 12.3 (8.4–17.5) | 13.3 (9.3–18.3) | 12.8 (8.8–18.0) |
| | 75 to 79 | 11.4 (6.88–17.4) | 14.2 (8.76–21.4) | 25.7 (15.7–38.8) | 17.3 (10.4–26.3) | 17.8 (11.0–26.9) | 17.6 (10.8–26.6) |
| | 80 to 84 | 9.09 (6.15–12.4) | 12.6 (8.59–17.4) | 21.7 (14.8–29.8) | 23.0 (15.6–31.4) | 23.6 (16.1–32.6) | 23.4 (15.9–32.1) |
| | 85 to 89 | 6.25 (3.85–8.97) | 9.91 (6.19–14.2) | 16.2 (10.0–23.1) | 31.5 (19.4–45.3) | 31.5 (19.7–45.1) | 31.5 (19.5–45.1) |
| | 90 to 94 | 3.15 (2.17–4.58) | 6.57 (4.77–9.32) | 9.72 (6.92–13.9) | 45.3 (31.3–65.9) | 49.5 (35.9–70.2) | 48.1 (34.2–68.8) |
| | 95 plus | 1.13 (0.634–1.96) | 3.52 (2.22–5.71) | 4.65 (2.85–7.68) | 62.0 (34.9–108.0) | 78.6 (49.6–127.6) | 73.8 (45.3–122.0) |
| **Ischemic heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 7.75 (2.02–18.5) | 10.8 (3.98–22.7) | 18.6 (6.26–41.0) | 2.3 (0.6–5.6) | 3.5 (1.3–7.2) | 2.9 (1.0–6.4) |
| | 20 to 24 | 18.4 (8.88–33.8) | 22.1 (12.3–37.8) | 40.4 (21.9–71.7) | 6.0 (2.9–11.1) | 7.5 (4.1–12.8) | 6.7 (3.6–11.9) |
| | 25 to 29 | 25.8 (10.8–48.2) | 25.1 (13.1–44.3) | 50.9 (24.2–92.3) | 8.7 (3.7–16.3) | 8.7 (4.5–15.3) | 8.7 (4.1–15.8) |
| | 30 to 34 | 54.2 (35.7–84.8) | 39.7 (25.5–62.7) | 93.8 (61.5–147) | 17.9 (11.8–28.0) | 13.5 (8.7–21.3) | 15.7 (10.3–24.6) |
| | 35 to 39 | 101 (62.1–160) | 61.9 (38.4–98.7) | 163 (101–260) | 34.2 (21.0–54.2) | 21.5 (13.3–34.2) | 27.9 (17.2–44.5) |
| | 40 to 44 | 191 (142–247) | 101 (73.4–134) | 292 (215–381) | 73.1 (54.2–94.6) | 39.5 (28.8–52.6) | 56.5 (41.7–73.7) |
| | 45 to 49 | 324 (216–451) | 153 (104–216) | 477 (320–664) | 135.6 (90.4–188.5) | 65.2 (44.2–91.9) | 100.7 (67.6–140.3) |
| | 50 to 54 | 496 (364–633) | 236 (176–301) | 732 (538–931) | 218.0 (160.0–278.2) | 104.2 (77.8–132.9) | 161.2 (118.4–205.0) |
| | 55 to 59 | 669 (472–942) | 337 (235–480) | 1010 (709–1420) | 328.0 (231.5–461.7) | 160.5 (112.1–229.0) | 243.1 (171.3–343.8) |
| | 60 to 64 | 847 (649–1110) | 469 (375–600) | 1320 (1030–1710) | 509.8 (390.6–670.6) | 267.6 (213.9–342.3) | 385.5 (302.2–502.0) |
| | 65 to 69 | 963 (670–1300) | 609 (427–817) | 1570 (1090–2120) | 696.9 (485.1–943.7) | 405.9 (284.7–544.5) | 545.5 (379.9–736.0) |
| | 70 to 74 | 1000 (773–1290) | 726 (583–921) | 1730 (1360–2200) | 961.3 (743.0–1237.8) | 611.9 (491.4–776.0) | 775.1 (609.7–988.8) |
| | 75 to 79 | 868 (603–1220) | 706 (485–1000) | 1570 (1090–2220) | 1313.3 (912.3–1849.4) | 886.5 (609.4–1256.4) | 1080.0 (746.1–1521.5) |
| | 80 to 84 | 772 (595–994) | 737 (560–945) | 1510 (1160–1940) | 1956.7 (1508.4–2518.9) | 1380.2 (1048.1–1770.1) | 1625.2 (1243.8–2086.0) |
| | 85 to 89 | 569 (390–787) | 640 (437–890) | 1210 (828–1680) | 2871.1 (1971.0–3971.3) | 2033.9 (1388.7–2828.4) | 2357.3 (1615.4–3269.8) |
| | 90 to 94 | 287 (215–374) | 373 (279–490) | 660 (495–865) | 4133.4 (3090.7–5380.9) | 2812.7 (2104.1–3694.4) | 3266.2 (2448.1–4277.4) |
| | 95 plus | 106 (69.9–152) | 173 (111–254) | 279 (181–405) | 5846.9 (3848.9–8346.7) | 3870.5 (2478.8–5673.7) | 4440.6 (2868.3–6429.2) |
| **Stroke** | | | | | | | |
| | Under 5 | 69.1 (54.3–88.9) | 55.4 (42.3–72.0) | 124 (98.4–160) | 20.8 (16.4–26.8) | 17.8 (13.6–23.1) | 19.4 (15.3–24.9) |
| | 5 to 9 | 47.0 (29.7–68.4) | 43.7 (28.2–64.0) | 90.8 (58.2–131) | 13.0 (8.2–18.9) | 12.9 (8.3–18.8) | 13.0 (8.3–18.7) |
| | 10 to 14 | 46.3 (29.2–67.2) | 44.2 (27.2–63.9) | 90.5 (56.4–128) | 13.2 (8.3–19.1) | 13.3 (8.2–19.3) | 13.3 (8.3–18.8) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 15 to 19 | 51.1 (34.8–72.5) | 47.0 (31.7–65.1) | 98.1 (67.4–138) | 15.5 (10.5–21.9) | 15.0 (10.1–20.7) | 15.2 (10.5–21.4) |
| | 20 to 24 | 59.5 (42.2–77.8) | 53.6 (39.1–73.2) | 113 (83.4–151) | 19.5 (13.8–25.4) | 18.1 (13.2–24.7) | 18.8 (13.9–25.1) |
| | 25 to 29 | 74.6 (53.9–103) | 65.5 (47.0–92.1) | 140 (102–193) | 25.2 (18.2–34.8) | 22.6 (16.2–31.8) | 23.9 (17.4–33.0) |
| | 30 to 34 | 118 (91.9–152) | 95.5 (73.0–123) | 214 (170–273) | 39.1 (30.4–50.1) | 32.4 (24.8–41.9) | 35.8 (28.4–45.8) |
| | 35 to 39 | 180 (135–246) | 136 (103–183) | 316 (239–426) | 60.8 (45.7–83.1) | 47.2 (35.8–63.4) | 54.1 (40.8–72.9) |
| | 40 to 44 | 250 (202–308) | 180 (139–223) | 430 (351–515) | 95.6 (77.4–117.9) | 70.7 (54.5–87.5) | 83.3 (67.9–99.8) |
| | 45 to 49 | 346 (266–444) | 238 (178–312) | 584 (452–749) | 144.8 (111.2–185.9) | 101.4 (75.7–132.9) | 123.3 (95.4–158.1) |
| | 50 to 54 | 501 (398–628) | 327 (258–411) | 828 (677–1020) | 220.2 (174.7–275.8) | 144.5 (113.9–181.3) | 182.4 (149.0–223.7) |
| | 55 to 59 | 660 (500–861) | 422 (329–544) | 1080 (832–1380) | 323.4 (244.9–422.2) | 201.0 (156.8–259.6) | 261.4 (201.1–333.3) |
| | 60 to 64 | 765 (605–937) | 506 (402–633) | 1270 (1010–1580) | 460.8 (364.2–564.1) | 288.8 (229.5–361.0) | 372.5 (296.4–462.0) |
| | 65 to 69 | 896 (638–1170) | 616 (460–819) | 1510 (1110–1960) | 648.1 (462.0–848.1) | 410.9 (306.5–545.8) | 524.7 (386.4–680.2) |
| | 70 to 74 | 958 (738–1240) | 731 (578–916) | 1690 (1350–2120) | 920.8 (709.8–1192.8) | 615.9 (487.0–771.8) | 758.3 (607.2–952.1) |
| | 75 to 79 | 816 (641–1030) | 707 (553–894) | 1520 (1220–1910) | 1235.4 (970.3–1558.9) | 887.6 (694.8–1121.7) | 1045.3 (835.7–1310.3) |
| | 80 to 84 | 671 (548–816) | 703 (580–839) | 1370 (1160–1630) | 1700.6 (1387.9–2067.9) | 1316.1 (1085.4–1570.3) | 1479.5 (1254.1–1754.1) |
| | 85 to 89 | 457 (382–548) | 600 (499–700) | 1060 (912–1240) | 2306.8 (1927.9–2767.8) | 1905.8 (1585.9–2223.8) | 2060.7 (1777.6–2413.1) |
| | 90 to 94 | 196 (156–239) | 317 (255–384) | 513 (423–603) | 2826.7 (2243.4–3447.0) | 2386.2 (1917.9–2890.5) | 2537.5 (2090.9–2981.5) |
| | 95 plus | 60.5 (46.5–76.8) | 128 (101–158) | 189 (151–230) | 3331.0 (2561.6–4232.0) | 2863.9 (2251.0–3519.8) | 2998.7 (2404.2–3648.9) |
| **Ischemic stroke** | | | | | | | |
| | Under 5 | 31.6 (20.8–49.0) | 22.4 (13.2–36.6) | 54.0 (34.2–84.3) | 9.5 (6.3–14.8) | 7.2 (4.2–11.7) | 8.4 (5.3–13.1) |
| | 5 to 9 | 24.9 (10.0–44.6) | 21.1 (7.63–38.5) | 46.0 (17.8–83.5) | 6.9 (2.8–12.4) | 6.2 (2.2–11.3) | 6.6 (2.5–11.9) |
| | 10 to 14 | 24.5 (8.64–45.4) | 22.1 (7.71–41.5) | 46.6 (16.4–86.9) | 7.0 (2.5–12.9) | 6.7 (2.3–12.5) | 6.8 (2.4–12.7) |
| | 15 to 19 | 25.6 (11.3–44.5) | 23.0 (9.81–40.3) | 48.7 (21.4–87.4) | 7.8 (3.4–13.5) | 7.3 (3.1–12.8) | 7.6 (3.3–13.6) |
| | 20 to 24 | 29.2 (15.5–47.3) | 25.9 (13.0–44.9) | 55.1 (28.9–90.8) | 9.6 (5.1–15.5) | 8.7 (4.4–15.1) | 9.1 (4.8–15.1) |
| | 25 to 29 | 36.5 (18.8–62.3) | 31.4 (15.4–55.1) | 67.9 (34.7–119) | 12.3 (6.4–21.1) | 10.8 (5.3–19.0) | 11.6 (5.9–20.3) |
| | 30 to 34 | 58.0 (37.2–83.6) | 47.6 (27.8–70.8) | 106 (65.5–156) | 19.2 (12.3–27.6) | 16.2 (9.4–24.0) | 17.7 (11.0–26.1) |
| | 35 to 39 | 88.9 (54.4–136) | 70.4 (44.1–108) | 159 (104–243) | 30.0 (18.4–45.9) | 24.4 (15.3–37.6) | 27.3 (17.7–41.7) |
| | 40 to 44 | 134 (99.1–174) | 94.4 (66.7–133) | 228 (172–302) | 51.2 (37.9–66.7) | 37.0 (26.2–52.0) | 44.2 (33.4–58.5) |
| | 45 to 49 | 199 (129–275) | 125 (76.3–183) | 324 (212–456) | 83.1 (54.0–115.1) | 53.3 (32.5–78.1) | 68.3 (44.7–96.2) |
| | 50 to 54 | 312 (221–410) | 184 (130–251) | 496 (360–652) | 136.9 (97.1–180.2) | 81.2 (57.2–111.0) | 109.2 (79.3–143.6) |
| | 55 to 59 | 437 (298–622) | 254 (171–363) | 691 (478–977) | 214.3 (146.4–304.8) | 121.3 (81.3–173.1) | 167.2 (115.6–236.2) |
| | 60 to 64 | 524 (386–685) | 317 (232–434) | 841 (616–1120) | 315.8 (232.6–412.3) | 180.7 (132.5–247.8) | 246.5 (180.5–328.5) |
| | 65 to 69 | 628 (413–894) | 398 (261–574) | 1030 (672–1470) | 454.7 (298.7–646.8) | 265.6 (174.2–382.7) | 356.3 (233.1–510.8) |
| | 70 to 74 | 669 (490–936) | 478 (353–640) | 1150 (857–1570) | 643.2 (471.0–899.9) | 402.5 (297.5–539.4) | 514.9 (384.6–702.8) |
| | 75 to 79 | 562 (408–760) | 462 (326–622) | 1020 (741–1360) | 851.3 (617.9–1150.8) | 580.2 (409.2–780.9) | 703.1 (508.1–931.6) |
| | 80 to 84 | 451 (350–583) | 468 (362–587) | 919 (720–1150) | 1142.2 (886.4–1477.3) | 876.8 (678.6–1098.8) | 989.6 (775.1–1240.7) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 85 to 89 | 299 (238–366) | 406 (328–488) | 705 (578–839) | 1509.4 (1203.5–1850.0) | 1291.4 (1040.6–1550.8) | 1375.6 (1127.0–1635.3) |
| | 90 to 94 | 126 (97.7–157) | 216 (169–271) | 342 (270–415) | 1820.3 (1406.9–2260.3) | 1627.6 (1274.5–2039.6) | 1693.8 (1337.8–2054.1) |
| | 95 plus | 38.4 (28.5–50.8) | 88.1 (67.9–113) | 126 (97.8–160) | 2112.7 (1567.8–2795.6) | 1966.5 (1516.6–2520.7) | 2008.7 (1553.9–2546.4) |
| **Intracerebral hemorrhage** | | | | | | | |
| | Under 5 | 32.1 (23.0–43.1) | 27.0 (19.1–36.7) | 59.1 (42.5–79.0) | 9.7 (7.0–13.0) | 8.7 (6.1–11.8) | 9.2 (6.6–12.3) |
| | 5 to 9 | 18.4 (10.5–28.6) | 17.6 (9.90–27.3) | 36.1 (20.8–55.6) | 5.1 (2.9–7.9) | 5.2 (2.9–8.0) | 5.1 (3.0–7.9) |
| | 10 to 14 | 17.5 (11.0–25.7) | 16.2 (10.3–25.4) | 33.7 (21.8–51.1) | 5.0 (3.1–7.3) | 4.9 (3.1–7.7) | 4.9 (3.2–7.5) |
| | 15 to 19 | 19.7 (13.8–27.5) | 16.5 (11.4–24.0) | 36.2 (25.4–52.2) | 6.0 (4.2–8.3) | 5.2 (3.6–7.6) | 5.6 (3.9–8.1) |
| | 20 to 24 | 21.5 (15.0–28.8) | 16.6 (11.4–23.6) | 38.1 (27.0–52.3) | 7.0 (4.9–9.4) | 5.6 (3.8–7.9) | 6.3 (4.5–8.7) |
| | 25 to 29 | 24.3 (15.9–35.1) | 17.2 (11.1–25.4) | 41.5 (27.7–59.9) | 8.2 (5.4–11.9) | 6.0 (3.8–8.8) | 7.1 (4.7–10.2) |
| | 30 to 34 | 39.9 (28.8–52.2) | 23.4 (15.9–31.4) | 63.3 (46.3–82.3) | 13.2 (9.5–17.3) | 8.0 (5.4–10.7) | 10.6 (7.8–13.8) |
| | 35 to 39 | 64.3 (46.2–90.1) | 33.4 (22.5–47.9) | 97.7 (69.5–138) | 21.7 (15.6–30.5) | 11.6 (7.8–16.6) | 16.7 (11.9–23.7) |
| | 40 to 44 | 87.0 (67.3–110) | 48.3 (36.7–60.7) | 135 (106–168) | 33.3 (25.7–42.0) | 18.9 (14.4–23.8) | 26.2 (20.4–32.6) |
| | 45 to 49 | 116 (82.2–155) | 69.2 (47.6–93.5) | 185 (133–247) | 48.6 (34.4–65.0) | 29.5 (20.3–39.8) | 39.2 (28.0–52.1) |
| | 50 to 54 | 155 (113–201) | 96.1 (72.5–126) | 251 (194–325) | 68.2 (49.7–88.4) | 42.4 (32.0–55.7) | 55.3 (42.7–71.6) |
| | 55 to 59 | 187 (134–243) | 121 (82.0–164) | 308 (215–400) | 91.7 (65.8–119.3) | 57.7 (39.1–78.4) | 74.5 (52.0–96.6) |
| | 60 to 64 | 207 (159–252) | 145 (110–185) | 351 (276–432) | 124.4 (95.7–151.6) | 82.7 (62.9–105.9) | 103.0 (80.8–126.6) |
| | 65 to 69 | 233 (169–321) | 174 (122–244) | 407 (299–554) | 169.0 (122.3–232.3) | 115.7 (81.6–163.0) | 141.2 (103.8–192.3) |
| | 70 to 74 | 256 (195–328) | 211 (161–279) | 467 (362–598) | 245.8 (187.0–315.1) | 178.0 (135.5–234.8) | 209.7 (162.4–268.4) |
| | 75 to 79 | 227 (167–305) | 211 (153–277) | 438 (324–579) | 343.0 (252.1–461.2) | 265.1 (192.5–348.1) | 300.4 (222.0–397.5) |
| | 80 to 84 | 198 (155–253) | 206 (157–260) | 404 (317–513) | 502.8 (391.8–640.2) | 385.6 (293.2–486.9) | 435.4 (341.7–552.7) |
| | 85 to 89 | 143 (115–176) | 171 (136–207) | 314 (253–376) | 721.2 (579.4–890.8) | 543.1 (431.9–657.6) | 611.9 (493.2–732.8) |
| | 90 to 94 | 63.3 (49.3–79.9) | 89.1 (68.8–111) | 152 (120–190) | 911.4 (709.8–1151.0) | 671.0 (518.1–839.1) | 753.6 (595.5–938.1) |
| | 95 plus | 20.1 (14.9–27.0) | 35.6 (26.4–47.2) | 55.7 (43.0–72.6) | 1105.0 (821.7–1489.2) | 795.6 (588.7–1053.7) | 884.9 (682.5–1152.7) |
| **Subarachnoid hemorrhage** | | | | | | | |
| | Under 5 | 5.33 (3.80–7.31) | 5.96 (4.20–8.26) | 11.3 (8.05–15.4) | 1.6 (1.1–2.2) | 1.9 (1.3–2.7) | 1.8 (1.3–2.4) |
| | 5 to 9 | 3.74 (1.77–6.94) | 4.96 (2.46–8.88) | 8.69 (4.31–15.7) | 1.0 (0.5–1.9) | 1.5 (0.7–2.6) | 1.2 (0.6–2.2) |
| | 10 to 14 | 4.33 (2.50–7.34) | 5.86 (3.56–9.79) | 10.2 (6.03–17.0) | 1.2 (0.7–2.1) | 1.8 (1.1–3.0) | 1.5 (0.9–2.5) |
| | 15 to 19 | 5.74 (3.29–9.20) | 7.50 (4.27–11.9) | 13.2 (7.64–20.9) | 1.7 (1.0–2.8) | 2.4 (1.4–3.8) | 2.1 (1.2–3.2) |
| | 20 to 24 | 8.79 (6.02–12.8) | 11.1 (7.47–16.5) | 19.9 (13.6–28.9) | 2.9 (2.0–4.2) | 3.7 (2.5–5.6) | 3.3 (2.3–4.8) |
| | 25 to 29 | 13.8 (8.87–20.9) | 16.9 (10.4–25.6) | 30.6 (19.5–46.2) | 4.7 (3.0–7.1) | 5.8 (3.6–8.8) | 5.2 (3.3–7.9) |
| | 30 to 34 | 20.3 (14.6–27.8) | 24.5 (16.9–33.9) | 44.7 (31.6–61.4) | 6.7 (4.8–9.2) | 8.3 (5.7–11.5) | 7.5 (5.3–10.3) |
| | 35 to 39 | 26.7 (17.5–38.1) | 32.1 (20.3–46.2) | 58.8 (37.5–83.8) | 9.0 (5.9–12.9) | 11.1 (7.0–16.0) | 10.1 (6.4–14.3) |
| | 40 to 44 | 29.2 (20.6–39.9) | 37.6 (26.6–51.1) | 66.9 (47.4–90.8) | 11.2 (7.9–15.2) | 14.7 (10.4–20.0) | 12.9 (9.2–17.6) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 45 to 49 | 31.3 (21.3–42.8) | 43.5 (29.8–58.9) | 74.8 (51.3–101) | 13.1 (8.9–17.9) | 18.6 (12.7–25.1) | 15.8 (10.8–21.3) |
| | 50 to 54 | 34.4 (24.5–45.7) | 47.2 (33.1–61.2) | 81.6 (57.3–104) | 15.1 (10.8–20.1) | 20.8 (14.6–27.0) | 18.0 (12.6–22.9) |
| | 55 to 59 | 35.6 (25.2–50.7) | 46.1 (32.0–65.1) | 81.8 (56.7–113) | 17.5 (12.3–24.9) | 22.0 (15.3–31.0) | 19.8 (13.7–27.3) |
| | 60 to 64 | 34.1 (25.1–44.4) | 44.6 (32.5–59.8) | 78.7 (57.6–104) | 20.5 (15.1–26.7) | 25.5 (18.6–34.2) | 23.1 (16.9–30.6) |
| | 65 to 69 | 33.7 (23.1–45.9) | 44.4 (30.9–61.1) | 78.2 (54.5–107) | 24.4 (16.7–33.2) | 29.6 (20.6–40.8) | 27.1 (18.9–37.1) |
| | 70 to 74 | 33.1 (24.3–43.5) | 42.0 (31.2–56.2) | 75.1 (56.8–95.8) | 31.9 (23.4–41.8) | 35.4 (26.3–47.3) | 33.7 (25.5–43.0) |
| | 75 to 79 | 27.1 (19.5–34.7) | 33.7 (23.7–43.3) | 60.8 (44.3–77.1) | 41.1 (29.6–52.6) | 42.3 (29.8–54.3) | 41.7 (30.4–52.9) |
| | 80 to 84 | 22.0 (16.7–27.9) | 28.7 (22.0–36.8) | 50.7 (39.6–64.1) | 55.7 (42.2–70.7) | 53.8 (41.1–69.0) | 54.6 (42.7–69.0) |
| | 85 to 89 | 15.1 (11.9–18.8) | 22.4 (17.6–27.6) | 37.5 (29.7–45.6) | 76.2 (60.2–94.8) | 71.3 (56.1–87.7) | 73.2 (57.8–88.9) |
| | 90 to 94 | 6.59 (5.01–8.16) | 11.6 (9.02–14.9) | 18.2 (14.3–22.8) | 95.0 (72.1–117.6) | 87.6 (67.9–112.4) | 90.2 (70.6–112.6) |
| | 95 plus | 2.06 (1.47–2.72) | 4.56 (3.31–6.06) | 6.62 (4.86–8.66) | 113.3 (80.8–149.9) | 101.8 (73.8–135.4) | 105.1 (77.2–137.6) |
| **Hypertensive heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Non-rheumatic valvular heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.928 (0.719–1.18) | 0.524 (0.406–0.665) | 1.45 (1.12–1.85) | 0.3 (0.2–0.4) | 0.2 (0.1–0.2) | 0.2 (0.2–0.3) |
| | 20 to 24 | 2.69 (2.09–3.39) | 1.52 (1.18–1.93) | 4.21 (3.26–5.37) | 0.9 (0.7–1.1) | 0.5 (0.4–0.6) | 0.7 (0.5–0.9) |
| | 25 to 29 | 4.51 (3.51–5.69) | 2.54 (1.96–3.20) | 7.05 (5.47–8.98) | 1.5 (1.2–1.9) | 0.9 (0.7–1.1) | 1.2 (0.9–1.5) |
| | 30 to 34 | 6.71 (5.24–8.44) | 3.69 (2.86–4.65) | 10.4 (8.08–13.2) | 2.2 (1.7–2.8) | 1.3 (1.0–1.6) | 1.7 (1.4–2.2) |
| | 35 to 39 | 8.69 (6.80–10.9) | 4.72 (3.65–5.95) | 13.4 (10.4–17.0) | 2.9 (2.3–3.7) | 1.6 (1.3–2.1) | 2.3 (1.8–2.9) |
| | 40 to 44 | 16.4 (13.0–20.5) | 8.46 (6.61–10.9) | 24.9 (19.6–31.5) | 6.3 (5.0–7.9) | 3.3 (2.6–4.3) | 4.8 (3.8–6.1) |
| | 45 to 49 | 28.5 (18.7–40.2) | 14.3 (8.92–20.3) | 42.8 (28.0–60.3) | 11.9 (7.8–16.8) | 6.1 (3.8–8.6) | 9.0 (5.9–12.7) |
| | 50 to 54 | 70.6 (58.1–84.5) | 33.4 (26.7–41.0) | 104 (84.9–125) | 31.0 (25.5–37.1) | 14.7 (11.8–18.1) | 22.9 (18.7–27.6) |
| | 55 to 59 | 135 (111–170) | 62.9 (49.6–81.7) | 197 (161–251) | 66.0 (54.5–83.4) | 30.0 (23.6–39.0) | 47.7 (39.0–60.8) |
| | 60 to 64 | 245 (221–276) | 131 (116–152) | 376 (338–429) | 147.7 (133.3–166.4) | 74.8 (66.4–86.5) | 110.3 (98.9–125.6) |
| | 65 to 69 | 367 (328–415) | 220 (191–255) | 587 (519–670) | 265.5 (237.5–300.2) | 146.9 (127.1–170.0) | 203.8 (180.3–232.6) |
| | 70 to 74 | 293 (261–329) | 204 (182–231) | 497 (442–558) | 281.3 (251.3–316.0) | 172.0 (153.5–194.8) | 223.0 (198.4–250.5) |
| | 75 to 79 | 119 (96.3–143) | 112 (89.2–135) | 231 (186–277) | 180.4 (145.8–215.8) | 140.9 (111.9–169.6) | 158.8 (127.5–190.3) |
| | 80 to 84 | 43.2 (28.1–58.2) | 59.1 (41.2–76.5) | 102 (69.1–136) | 109.5 (71.1–147.5) | 110.7 (77.1–143.2) | 110.2 (74.5–146.4) |
| | 85 to 89 | 16.3 (10.8–23.3) | 25.2 (17.3–34.8) | 41.5 (28.0–58.2) | 82.2 (54.6–117.6) | 80.1 (54.9–110.4) | 80.9 (54.6–113.6) |
| | 90 to 94 | 4.88 (2.65–7.84) | 9.19 (5.24–14.2) | 14.1 (7.86–22.0) | 70.3 (38.2–112.9) | 69.2 (39.4–107.1) | 69.6 (38.9–108.8) |
| | 95 plus | 1.37 (0.577–2.68) | 3.67 (1.59–6.86) | 5.04 (2.15–9.53) | 75.5 (31.8–147.7) | 82.0 (35.5–153.3) | 80.1 (34.1–151.4) |
| **Non-rheumatic calcific aortic valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.552 (0.375–0.792) | 0.245 (0.154–0.359) | 0.798 (0.529–1.15) | 0.2 (0.1–0.2) | 0.1 (0.05–0.1) | 0.1 (0.1–0.2) |
| | 20 to 24 | 1.60 (1.09–2.29) | 0.719 (0.452–1.05) | 2.32 (1.54–3.32) | 0.5 (0.4–0.7) | 0.2 (0.2–0.4) | 0.4 (0.3–0.6) |
| | 25 to 29 | 2.67 (1.82–3.82) | 1.21 (0.765–1.77) | 3.89 (2.58–5.56) | 0.9 (0.6–1.3) | 0.4 (0.3–0.6) | 0.7 (0.4–0.9) |
| | 30 to 34 | 3.94 (2.69–5.62) | 1.79 (1.13–2.61) | 5.73 (3.81–8.18) | 1.3 (0.9–1.9) | 0.6 (0.4–0.9) | 1.0 (0.6–1.4) |
| | 35 to 39 | 5.10 (3.49–7.28) | 2.32 (1.46–3.39) | 7.42 (4.95–10.6) | 1.7 (1.2–2.5) | 0.8 (0.5–1.2) | 1.3 (0.8–1.8) |
| | 40 to 44 | 10.6 (7.57–14.4) | 4.99 (3.42–7.16) | 15.6 (11.0–21.6) | 4.1 (2.9–5.5) | 2.0 (1.3–2.8) | 3.0 (2.1–4.2) |
| | 45 to 49 | 19.6 (10.7–30.2) | 9.38 (4.67–15.4) | 29.0 (15.5–46.3) | 8.2 (4.5–12.6) | 4.0 (2.0–6.5) | 6.1 (3.3–9.8) |
| | 50 to 54 | 36.7 (26.1–48.2) | 18.3 (12.7–24.8) | 55.0 (38.7–73.1) | 16.1 (11.5–21.2) | 8.1 (5.6–10.9) | 12.1 (8.5–16.1) |
| | 55 to 59 | 59.0 (38.7–82.2) | 30.4 (18.7–45.2) | 89.3 (57.5–127) | 28.9 (19.0–40.3) | 14.5 (8.9–21.6) | 21.6 (13.9–30.7) |
| | 60 to 64 | 90.1 (69.8–116) | 56.4 (41.7–75.1) | 146 (111–191) | 54.2 (42.0–69.6) | 32.2 (23.8–42.9) | 42.9 (32.6–55.9) |
| | 65 to 69 | 119 (85.8–159) | 89.9 (63.0–121) | 209 (149–280) | 86.5 (62.1–115.1) | 59.9 (42.0–80.8) | 72.6 (51.7–97.2) |
| | 70 to 74 | 111 (84.7–139) | 99.5 (77.6–125) | 210 (162–265) | 106.7 (81.4–133.9) | 83.8 (65.4–105.0) | 94.5 (72.9–119.0) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 75 to 79 | 74.4 (51.7–96.6) | 83.1 (59.6–106) | 157 (111–202) | 112.6 (78.2–146.2) | 104.3 (74.8–132.7) | 108.0 (76.5–138.9) |
| | 80 to 84 | 39.6 (24.6–54.4) | 55.0 (36.9–72.5) | 94.6 (61.6–126) | 100.3 (62.3–137.7) | 103.1 (69.1–135.8) | 101.9 (66.4–136.0) |
| | 85 to 89 | 14.8 (8.99–21.3) | 23.2 (15.0–32.5) | 38.0 (23.9–54.0) | 74.7 (45.4–107.6) | 73.7 (47.7–103.3) | 74.1 (46.5–105.2) |
| | 90 to 94 | 4.47 (2.30–7.36) | 8.49 (4.59–13.5) | 13.0 (6.84–20.9) | 64.4 (33.1–106.0) | 64.0 (34.6–101.7) | 64.1 (33.8–103.2) |
| | 95 plus | 1.29 (0.516–2.57) | 3.48 (1.43–6.60) | 4.77 (1.96–9.15) | 71.1 (28.4–141.3) | 77.6 (32.0–147.3) | 75.7 (31.2–145.3) |
| **Non-rheumatic degenerative mitral valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.375 (0.304–0.468) | 0.279 (0.218–0.359) | 0.654 (0.522–0.826) | 0.1 (0.1–0.1) | 0.1 (0.1–0.1) | 0.1 (0.1–0.1) |
| | 20 to 24 | 1.09 (0.884–1.35) | 0.802 (0.627–1.03) | 1.89 (1.51–2.38) | 0.4 (0.3–0.4) | 0.3 (0.2–0.3) | 0.3 (0.3–0.4) |
| | 25 to 29 | 1.84 (1.50–2.29) | 1.32 (1.03–1.69) | 3.16 (2.54–3.96) | 0.6 (0.5–0.8) | 0.5 (0.4–0.6) | 0.5 (0.4–0.7) |
| | 30 to 34 | 2.77 (2.28–3.43) | 1.90 (1.49–2.41) | 4.67 (3.77–5.83) | 0.9 (0.8–1.1) | 0.6 (0.5–0.8) | 0.8 (0.6–1.0) |
| | 35 to 39 | 3.59 (2.95–4.43) | 2.39 (1.89–3.03) | 5.98 (4.85–7.44) | 1.2 (1.0–1.5) | 0.8 (0.7–1.1) | 1.0 (0.8–1.3) |
| | 40 to 44 | 5.79 (4.52–7.53) | 3.48 (2.70–4.39) | 9.26 (7.29–11.8) | 2.2 (1.7–2.9) | 1.4 (1.1–1.7) | 1.8 (1.4–2.3) |
| | 45 to 49 | 8.96 (5.51–13.9) | 4.92 (2.76–7.54) | 13.9 (8.30–21.5) | 3.7 (2.3–5.8) | 2.1 (1.2–3.2) | 2.9 (1.8–4.5) |
| | 50 to 54 | 33.9 (28.2–41.8) | 15.1 (12.2–18.7) | 49.0 (40.5–60.2) | 14.9 (12.4–18.3) | 6.7 (5.4–8.3) | 10.8 (8.9–13.3) |
| | 55 to 59 | 75.6 (59.9–95.2) | 32.5 (24.9–41.6) | 108 (85.0–136) | 37.1 (29.4–46.7) | 15.5 (11.9–19.9) | 26.1 (20.5–33.0) |
| | 60 to 64 | 155 (141–172) | 74.8 (68.0–82.6) | 230 (210–255) | 93.5 (85.2–103.8) | 42.7 (38.8–47.1) | 67.4 (61.4–74.7) |
| | 65 to 69 | 247 (224–275) | 130 (118–143) | 378 (343–417) | 179.0 (162.4–199.1) | 87.0 (78.7–95.3) | 131.1 (118.9–144.6) |
| | 70 to 74 | 182 (163–205) | 105 (94.6–116) | 286 (258–319) | 174.6 (156.5–196.9) | 88.1 (79.7–98.1) | 128.5 (115.9–143.4) |
| | 75 to 79 | 44.8 (39.8–51.1) | 29.1 (26.0–32.9) | 74.0 (65.9–83.9) | 67.8 (60.2–77.3) | 36.6 (32.6–41.2) | 50.8 (45.2–57.6) |
| | 80 to 84 | 3.61 (1.76–6.10) | 4.06 (2.12–6.67) | 7.66 (3.87–12.9) | 9.1 (4.5–15.5) | 7.6 (4.0–12.5) | 8.2 (4.2–13.8) |
| | 85 to 89 | 1.50 (0.851–2.39) | 2.04 (1.24–3.13) | 3.53 (2.10–5.48) | 7.5 (4.3–12.1) | 6.5 (4.0–10.0) | 6.9 (4.1–10.7) |
| | 90 to 94 | 0.411 (0.226–0.700) | 0.700 (0.411–1.14) | 1.11 (0.641–1.86) | 5.9 (3.3–10.1) | 5.3 (3.1–8.6) | 5.5 (3.2–9.2) |
| | 95 plus | 0.0793 (0.0311–0.168) | 0.195 (0.0911–0.389) | 0.275 (0.122–0.557) | 4.4 (1.7–9.3) | 4.4 (2.0–8.7) | 4.4 (1.9–8.9) |
| **Other non-rheumatic valve diseases** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |

| Cause Names | Age Group | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Cardiomyopathy and myocarditis** | | | | | | | |
| | Under 5 | 17.0 (11.2–24.1) | 11.3 (7.18–15.9) | 28.3 (18.4–39.9) | 5.1 (3.4–7.3) | 3.6 (2.3–5.1) | 4.4 (2.9–6.2) |
| | 5 to 9 | 24.8 (14.0–41.8) | 16.7 (9.28–27.2) | 41.5 (23.2–69.8) | 6.9 (3.9–11.6) | 4.9 (2.7–8.0) | 5.9 (3.3–10.0) |
| | 10 to 14 | 34.1 (21.2–52.5) | 21.4 (12.7–33.4) | 55.6 (34.0–86.9) | 9.7 (6.0–14.9) | 6.5 (3.8–10.1) | 8.1 (5.0–12.7) |
| | 15 to 19 | 45.7 (25.2–78.6) | 26.2 (13.8–45.1) | 71.9 (38.8–124) | 13.8 (7.6–23.8) | 8.3 (4.4–14.4) | 11.1 (6.0–19.3) |
| | 20 to 24 | 51.7 (29.5–83.3) | 29.6 (15.8–48.6) | 81.3 (45.2–133) | 16.9 (9.7–27.3) | 10.0 (5.3–16.4) | 13.5 (7.5–22.0) |
| | 25 to 29 | 56.7 (31.1–92.0) | 33.2 (17.4–55.2) | 90.0 (48.6–146) | 19.2 (10.5–31.1) | 11.5 (6.0–19.1) | 15.4 (8.3–24.9) |
| | 30 to 34 | 61.5 (34.5–97.9) | 36.6 (20.4–58.5) | 98.0 (54.8–155) | 20.3 (11.4–32.4) | 12.4 (6.9–19.9) | 16.4 (9.2–26.0) |
| | 35 to 39 | 58.0 (33.9–89.5) | 36.5 (21.0–56.4) | 94.4 (55.3–145) | 19.6 (11.5–30.3) | 12.7 (7.3–19.6) | 16.2 (9.5–24.8) |
| | 40 to 44 | 48.5 (28.5–72.8) | 31.6 (18.5–48.3) | 80.2 (46.7–121) | 18.6 (10.9–27.8) | 12.4 (7.2–18.9) | 15.5 (9.0–23.4) |
| | 45 to 49 | 41.4 (25.0–68.0) | 28.4 (17.0–45.5) | 69.9 (42.3–113) | 17.3 (10.5–28.5) | 12.1 (7.2–19.4) | 14.7 (8.9–23.9) |
| | 50 to 54 | 38.1 (21.8–63.8) | 28.2 (16.1–47.7) | 66.4 (37.9–112) | 16.7 (9.6–28.0) | 12.5 (7.1–21.0) | 14.6 (8.3–24.6) |
| | 55 to 59 | 34.5 (20.9–58.7) | 27.9 (16.4–48.4) | 62.5 (37.4–107) | 16.9 (10.3–28.8) | 13.3 (7.8–23.1) | 15.1 (9.0–25.9) |
| | 60 to 64 | 28.8 (16.8–47.9) | 24.0 (13.9–40.0) | 52.8 (30.7–88.3) | 17.3 (10.1–28.8) | 13.7 (7.9–22.9) | 15.5 (9.0–25.9) |
| | 65 to 69 | 23.8 (13.9–38.6) | 20.7 (12.1–33.6) | 44.5 (26.0–72.2) | 17.2 (10.1–27.9) | 13.8 (8.0–22.4) | 15.4 (9.0–25.1) |
| | 70 to 74 | 18.5 (11.5–29.3) | 16.9 (10.2–27.0) | 35.4 (21.8–56.3) | 17.8 (11.1–28.1) | 14.2 (8.6–22.8) | 15.9 (9.8–25.3) |
| | 75 to 79 | 12.6 (7.44–19.2) | 11.9 (7.09–18.1) | 24.6 (14.6–37.3) | 19.1 (11.3–29.1) | 15.0 (8.9–22.8) | 16.9 (10.0–25.6) |
| | 80 to 84 | 8.97 (5.52–13.9) | 9.03 (5.42–14.2) | 18.0 (11.0–28.4) | 22.7 (14.0–35.3) | 16.9 (10.1–26.6) | 19.4 (11.8–30.6) |
| | 85 to 89 | 5.76 (3.14–9.59) | 6.40 (3.51–10.6) | 12.2 (6.65–20.2) | 29.1 (15.8–48.4) | 20.3 (11.2–33.7) | 23.7 (13.0–39.4) |
| | 90 to 94 | 2.86 (1.65–4.77) | 3.48 (1.95–5.85) | 6.34 (3.62–10.6) | 41.2 (23.7–68.8) | 26.2 (14.7–44.1) | 31.3 (17.9–52.7) |
| | 95 plus | 1.07 (0.511–2.16) | 1.59 (0.739–3.25) | 2.66 (1.25–5.43) | 58.7 (28.1–119.1) | 35.5 (16.5–72.5) | 42.2 (19.9–86.2) |
| **Myocarditis** | | | | | | | |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | Under 5 | 17.0 (11.2–24.1) | 11.3 (7.18–15.9) | 28.3 (18.4–39.9) | 5.1 (3.4–7.3) | 3.6 (2.3–5.1) | 4.4 (2.9–6.2) |
| | 5 to 9 | 24.8 (14.0–41.8) | 16.7 (9.28–27.2) | 41.5 (23.2–69.8) | 6.9 (3.9–11.6) | 4.9 (2.7–8.0) | 5.9 (3.3–10.0) |
| | 10 to 14 | 34.1 (21.2–52.5) | 21.4 (12.7–33.4) | 55.6 (34.0–86.9) | 9.7 (6.0–14.9) | 6.5 (3.8–10.1) | 8.1 (5.0–12.7) |
| | 15 to 19 | 45.7 (25.2–78.6) | 26.2 (13.8–45.1) | 71.9 (38.8–124) | 13.8 (7.6–23.8) | 8.3 (4.4–14.4) | 11.1 (6.0–19.3) |
| | 20 to 24 | 51.7 (29.5–83.3) | 29.6 (15.8–48.6) | 81.3 (45.2–133) | 16.9 (9.7–27.3) | 10.0 (5.3–16.4) | 13.5 (7.5–22.0) |
| | 25 to 29 | 56.7 (31.1–92.0) | 33.2 (17.4–55.2) | 90.0 (48.6–146) | 19.2 (10.5–31.1) | 11.5 (6.0–19.1) | 15.4 (8.3–24.9) |
| | 30 to 34 | 61.5 (34.5–97.9) | 36.6 (20.4–58.5) | 98.0 (54.8–155) | 20.3 (11.4–32.4) | 12.4 (6.9–19.9) | 16.4 (9.2–26.0) |
| | 35 to 39 | 58.0 (33.9–89.5) | 36.5 (21.0–56.4) | 94.4 (55.3–145) | 19.6 (11.5–30.3) | 12.7 (7.3–19.6) | 16.2 (9.5–24.8) |
| | 40 to 44 | 48.5 (28.5–72.8) | 31.6 (18.5–48.3) | 80.2 (46.7–121) | 18.6 (10.9–27.8) | 12.4 (7.2–18.9) | 15.5 (9.0–23.4) |
| | 45 to 49 | 41.4 (25.0–68.0) | 28.4 (17.0–45.5) | 69.9 (42.3–113) | 17.3 (10.5–28.5) | 12.1 (7.2–19.4) | 14.7 (8.9–23.9) |
| | 50 to 54 | 38.1 (21.8–63.8) | 28.2 (16.1–47.7) | 66.4 (37.9–112) | 16.7 (9.6–28.0) | 12.5 (7.1–21.0) | 14.6 (8.3–24.6) |
| | 55 to 59 | 34.5 (20.9–58.7) | 27.9 (16.4–48.4) | 62.5 (37.4–107) | 16.9 (10.3–28.8) | 13.3 (7.8–23.1) | 15.1 (9.0–25.9) |
| | 60 to 64 | 28.8 (16.8–47.9) | 24.0 (13.9–40.0) | 52.8 (30.7–88.3) | 17.3 (10.1–28.8) | 13.7 (7.9–22.9) | 15.5 (9.0–25.9) |
| | 65 to 69 | 23.8 (13.9–38.6) | 20.7 (12.1–33.6) | 44.5 (26.0–72.2) | 17.2 (10.1–27.9) | 13.8 (8.0–22.4) | 15.4 (9.0–25.1) |
| | 70 to 74 | 18.5 (11.5–29.3) | 16.9 (10.2–27.0) | 35.4 (21.8–56.3) | 17.8 (11.1–28.1) | 14.2 (8.6–22.8) | 15.9 (9.8–25.3) |
| | 75 to 79 | 12.6 (7.44–19.2) | 11.9 (7.09–18.1) | 24.6 (14.6–37.3) | 19.1 (11.3–29.1) | 15.0 (8.9–22.8) | 16.9 (10.0–25.6) |
| | 80 to 84 | 8.97 (5.52–13.9) | 9.03 (5.42–14.2) | 18.0 (11.0–28.4) | 22.7 (14.0–35.3) | 16.9 (10.1–26.6) | 19.4 (11.8–30.6) |
| | 85 to 89 | 5.76 (3.14–9.59) | 6.40 (3.51–10.6) | 12.2 (6.65–20.2) | 29.1 (15.8–48.4) | 20.3 (11.2–33.7) | 23.7 (13.0–39.4) |
| | 90 to 94 | 2.86 (1.65–4.77) | 3.48 (1.95–5.85) | 6.34 (3.62–10.6) | 41.2 (23.7–68.8) | 26.2 (14.7–44.1) | 31.3 (17.9–52.7) |
| | 95 plus | 1.07 (0.511–2.16) | 1.59 (0.739–3.25) | 2.66 (1.25–5.43) | 58.7 (28.1–119.1) | 35.5 (16.5–72.5) | 42.2 (19.9–86.2) |
| **Alcoholic cardiomyopathy** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| Cause Names | Age Group | Males | Females | Both sexes | Males | Females | Both sexes |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Other cardiomyopathy** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Pulmonary Arterial Hypertension** | | | | | | | |
| | Under 5 | 0.525 (0.386–0.706) | 0.662 (0.488–0.878) | 1.19 (0.874–1.58) | 0.2 (0.1–0.2) | 0.2 (0.2–0.3) | 0.2 (0.1–0.2) |
| | 5 to 9 | 0.581 (0.423–0.773) | 0.709 (0.525–0.925) | 1.29 (0.948–1.70) | 0.2 (0.1–0.2) | 0.2 (0.2–0.3) | 0.2 (0.1–0.2) |
| | 10 to 14 | 0.579 (0.338–0.885) | 0.694 (0.411–1.06) | 1.27 (0.749–1.94) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| | 15 to 19 | 0.634 (0.403–0.946) | 0.753 (0.480–1.14) | 1.39 (0.880–2.08) | 0.2 (0.1–0.3) | 0.2 (0.2–0.4) | 0.2 (0.1–0.3) |
| | 20 to 24 | 0.736 (0.469–1.10) | 0.882 (0.572–1.32) | 1.62 (1.04–2.42) | 0.2 (0.2–0.4) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) |
| | 25 to 29 | 0.849 (0.480–1.31) | 1.01 (0.566–1.56) | 1.86 (1.05–2.87) | 0.3 (0.2–0.4) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 30 to 34 | 1.07 (0.687–1.57) | 1.24 (0.794–1.82) | 2.31 (1.48–3.39) | 0.4 (0.2–0.5) | 0.4 (0.3–0.6) | 0.4 (0.2–0.6) |
| | 35 to 39 | 1.32 (0.881–1.90) | 1.49 (0.997–2.14) | 2.81 (1.88–4.04) | 0.4 (0.3–0.6) | 0.5 (0.3–0.7) | 0.5 (0.3–0.7) |
| | 40 to 44 | 1.40 (0.815–2.24) | 1.57 (0.917–2.51) | 2.97 (1.74–4.76) | 0.5 (0.3–0.9) | 0.6 (0.4–1.0) | 0.6 (0.3–0.9) |
| | 45 to 49 | 1.59 (1.00–2.31) | 1.76 (1.10–2.56) | 3.35 (2.10–4.87) | 0.7 (0.4–1.0) | 0.8 (0.5–1.1) | 0.7 (0.4–1.0) |
| | 50 to 54 | 1.89 (1.27–2.66) | 2.08 (1.40–2.95) | 3.97 (2.67–5.61) | 0.8 (0.6–1.2) | 0.9 (0.6–1.3) | 0.9 (0.6–1.2) |
| | 55 to 59 | 2.03 (1.22–3.10) | 2.28 (1.38–3.52) | 4.31 (2.62–6.62) | 1.0 (0.6–1.5) | 1.1 (0.7–1.7) | 1.0 (0.6–1.6) |
| | 60 to 64 | 1.95 (1.27–2.82) | 2.24 (1.46–3.24) | 4.19 (2.73–6.05) | 1.2 (0.8–1.7) | 1.3 (0.8–1.8) | 1.2 (0.8–1.8) |
| | 65 to 69 | 1.92 (1.38–2.56) | 2.23 (1.62–3.00) | 4.14 (3.01–5.57) | 1.4 (1.0–1.9) | 1.5 (1.1–2.0) | 1.4 (1.0–1.9) |
| | 70 to 74 | 1.66 (1.09–2.40) | 1.99 (1.30–2.91) | 3.65 (2.39–5.32) | 1.6 (1.0–2.3) | 1.7 (1.1–2.5) | 1.6 (1.1–2.4) |
| | 75 to 79 | 1.07 (0.727–1.53) | 1.36 (0.922–1.94) | 2.43 (1.66–3.48) | 1.6 (1.1–2.3) | 1.7 (1.2–2.4) | 1.7 (1.1–2.4) |
| | 80 to 84 | 0.586 (0.416–0.810) | 0.849 (0.600–1.17) | 1.43 (1.02–1.99) | 1.5 (1.1–2.1) | 1.6 (1.1–2.2) | 1.5 (1.1–2.1) |
| | 85 to 89 | 0.267 (0.167–0.408) | 0.463 (0.285–0.711) | 0.729 (0.451–1.12) | 1.3 (0.8–2.1) | 1.5 (0.9–2.3) | 1.4 (0.9–2.2) |
| | 90 to 94 | 0.0911 (0.0533–0.145) | 0.190 (0.110–0.304) | 0.281 (0.164–0.451) | 1.3 (0.8–2.1) | 1.4 (0.8–2.3) | 1.4 (0.8–2.2) |
| | 95 plus | 0.0256 (0.0128–0.0471) | 0.0682 (0.0340–0.128) | 0.0938 (0.0469–0.175) | 1.4 (0.7–2.6) | 1.5 (0.8–2.9) | 1.5 (0.7–2.8) |
| **Atrial fibrillation and flutter** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | 15.5 (7.83–26.9) | 8.85 (4.15–15.8) | 24.4 (12.0–42.6) | 5.1 (2.6–8.9) | 3.0 (1.4–5.4) | 4.1 (2.0–7.1) |
| | 35 to 39 | 46.5 (23.4–80.3) | 26.1 (12.3–46.6) | 72.6 (35.7–127) | 15.7 (7.9–27.2) | 9.1 (4.3–16.2) | 12.4 (6.1–21.7) |
| | 40 to 44 | 81.0 (50.2–114) | 48.0 (29.7–69.7) | 129 (80.3–185) | 31.0 (19.2–43.6) | 18.8 (11.6–27.3) | 25.0 (15.5–35.7) |
| | 45 to 49 | 120 (61.0–195) | 74.7 (35.3–124) | 195 (96.3–320) | 50.3 (25.5–81.5) | 31.9 (15.0–52.8) | 41.2 (20.3–67.5) |
| | 50 to 54 | 182 (114–265) | 119 (71.6–175) | 301 (188–440) | 80.0 (50.3–116.5) | 52.4 (31.6–77.1) | 66.2 (41.4–96.8) |
| | 55 to 59 | 246 (134–392) | 169 (91.8–276) | 415 (226–668) | 120.4 (65.9–192.3) | 80.7 (43.8–131.6) | 100.3 (54.7–161.5) |
| | 60 to 64 | 336 (223–478) | 253 (167–362) | 589 (390–839) | 202.3 (134.0–287.7) | 144.3 (95.2–206.7) | 172.5 (114.2–245.9) |
| | 65 to 69 | 438 (243–718) | 359 (196–596) | 797 (437–1310) | 316.8 (175.7–519.9) | 239.2 (130.5–397.6) | 276.4 (151.6–456.0) |
| | 70 to 74 | 444 (289–673) | 407 (269–612) | 851 (559–1290) | 426.9 (278.0–647.1) | 343.0 (226.9–515.7) | 382.2 (250.9–577.1) |
| | 75 to 79 | 355 (215–583) | 368 (223–607) | 723 (438–1190) | 537.3 (324.8–881.6) | 461.5 (280.3–761.5) | 495.9 (300.8–816.0) |
| | 80 to 84 | 225 (134–353) | 276 (169–421) | 502 (303–775) | 571.2 (340.1–895.2) | 517.1 (316.1–789.2) | 540.1 (326.3–834.0) |
| | 85 to 89 | 108 (59.9–176) | 166 (90.5–270) | 274 (150–446) | 544.5 (302.4–887.3) | 526.5 (287.6–859.2) | 533.4 (293.3–869.9) |
| | 90 to 94 | 38.2 (18.6–65.9) | 74.5 (37.9–128) | 113 (56.3–193) | 550.2 (268.2–948.7) | 561.4 (285.8–961.7) | 557.6 (278.4–953.3) |
| | 95 plus | 10.8 (4.61–21.3) | 27.6 (11.6–53.9) | 38.5 (16.2–75.1) | 597.0 (254.2–1175.5) | 616.8 (259.6–1204.2) | 611.1 (257.7–1193.5) |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| **Aortic aneurysm** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |
| **Lower extremity peripheral arterial disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | 96.5 (58.7–148) | 125 (76.4–193) | 221 (135–340) | 36.9 (22.4–56.5) | 48.9 (30.0–75.5) | 42.9 (26.1–65.9) |
| | 45 to 49 | 176 (90.4–313) | 241 (124–429) | 417 (215–742) | 73.6 (37.8–131.1) | 102.8 (52.9–182.7) | 88.1 (45.4–156.7) |
| | 50 to 54 | 331 (216–496) | 462 (303–695) | 792 (519–1190) | 145.2 (94.8–218.1) | 203.8 (133.6–306.8) | 174.5 (114.3–263.0) |
| | 55 to 59 | 510 (269–875) | 720 (374–1250) | 1230 (649–2120) | 250.0 (131.7–429.3) | 343.2 (178.5–595.0) | 297.2 (157.0–513.7) |

| Cause Names | Age Group | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 60 to 64 | 684 (438–1040) | 974 (598–1470) | 1660 (1040–2510) | 411.9 (263.5–626.2) | 555.9 (341.2–837.5) | 485.8 (303.8–734.5) |
| | 65 to 69 | 852 (501–1280) | 1240 (733–1900) | 2100 (1240–3190) | 616.4 (362.3–929.7) | 829.7 (488.7–1266.4) | 727.4 (430.3–1105.8) |
| | 70 to 74 | 820 (548–1170) | 1250 (835–1750) | 2070 (1380–2920) | 788.2 (526.4–1122.3) | 1051.4 (703.7–1478.3) | 928.5 (618.0–1311.3) |
| | 75 to 79 | 619 (347–967) | 984 (552–1530) | 1600 (897–2500) | 937.5 (525.0–1463.5) | 1235.4 (692.7–1924.2) | 1100.3 (615.2–1718.8) |
| | 80 to 84 | 454 (279–692) | 782 (486–1170) | 1240 (764–1860) | 1150.1 (706.0–1754.6) | 1465.1 (909.8–2198.3) | 1331.2 (822.4–2006.0) |
| | 85 to 89 | 278 (147–505) | 536 (283–972) | 814 (430–1480) | 1402.4 (739.8–2551.8) | 1704.1 (899.0–3087.8) | 1587.5 (838.0–2880.8) |
| | 90 to 94 | 122 (60.2–191) | 267 (132–411) | 389 (192–602) | 1761.2 (867.3–2754.7) | 2010.1 (994.6–3096.1) | 1924.6 (948.1–2977.5) |
| | 95 plus | 39.4 (18.2–69.7) | 104 (47.3–181) | 143 (65.4–252) | 2168.8 (1002.3–3839.3) | 2314.9 (1056.8–4048.2) | 2272.7 (1039.2–4010.0) |
| **Endocarditis** | | | | | | | |
| | Under 5 | 35.7 (27.4–46.7) | 26.8 (20.4–35.5) | 62.5 (47.8–82.3) | 10.8 (8.3–14.1) | 8.6 (6.5–11.4) | 9.7 (7.4–12.8) |
| | 5 to 9 | 23.1 (16.2–32.9) | 17.6 (12.3–25.2) | 40.7 (28.4–58.1) | 6.4 (4.5–9.1) | 5.2 (3.6–7.4) | 5.8 (4.1–8.3) |
| | 10 to 14 | 14.2 (7.53–22.5) | 11.0 (5.96–17.3) | 25.2 (13.5–39.4) | 4.0 (2.1–6.4) | 3.3 (1.8–5.2) | 3.7 (2.0–5.8) |
| | 15 to 19 | 13.1 (7.28–21.1) | 10.3 (5.68–16.9) | 23.4 (12.9–38.0) | 4.0 (2.2–6.4) | 3.3 (1.8–5.4) | 3.6 (2.0–5.9) |
| | 20 to 24 | 13.3 (7.53–20.8) | 10.5 (5.73–16.9) | 23.8 (13.3–37.7) | 4.3 (2.5–6.8) | 3.5 (1.9–5.7) | 4.0 (2.2–6.3) |
| | 25 to 29 | 15.4 (8.63–24.8) | 11.8 (6.35–19.4) | 27.2 (15.0–44.2) | 5.2 (2.9–8.4) | 4.1 (2.2–6.7) | 4.7 (2.6–7.6) |
| | 30 to 34 | 19.6 (11.7–31.1) | 14.3 (8.02–23.6) | 33.9 (19.7–54.8) | 6.5 (3.9–10.3) | 4.9 (2.7–8.0) | 5.7 (3.3–9.2) |
| | 35 to 39 | 24.0 (13.1–37.0) | 16.9 (9.13–27.4) | 40.9 (22.2–64.0) | 8.1 (4.4–12.5) | 5.9 (3.2–9.5) | 7.0 (3.8–11.0) |
| | 40 to 44 | 25.8 (16.6–37.5) | 17.6 (10.4–27.2) | 43.4 (27.0–64.5) | 9.9 (6.3–14.3) | 6.9 (4.1–10.7) | 8.4 (5.2–12.5) |
| | 45 to 49 | 28.9 (18.4–42.8) | 18.8 (11.3–28.2) | 47.7 (30.0–70.8) | 12.1 (7.7–17.9) | 8.0 (4.8–12.0) | 10.1 (6.3–14.9) |
| | 50 to 54 | 39.0 (26.7–55.2) | 23.7 (15.4–35.0) | 62.7 (42.3–89.6) | 17.1 (11.7–24.3) | 10.5 (6.8–15.5) | 13.8 (9.3–19.7) |
| | 55 to 59 | 50.9 (33.2–72.9) | 30.0 (18.8–44.0) | 80.9 (52.1–117) | 25.0 (16.3–35.8) | 14.3 (9.0–21.0) | 19.6 (12.6–28.3) |
| | 60 to 64 | 62.6 (44.1–84.2) | 37.8 (25.9–51.5) | 100 (69.8–135) | 37.7 (26.5–50.7) | 21.6 (14.8–29.4) | 29.4 (20.4–39.6) |
| | 65 to 69 | 80.4 (52.0–118) | 48.3 (31.7–70.2) | 129 (84.2–188) | 58.2 (37.6–85.3) | 32.2 (21.1–46.8) | 44.7 (29.2–65.2) |
| | 70 to 74 | 87.5 (63.9–121) | 53.7 (39.4–73.4) | 141 (103–194) | 84.1 (61.4–116.6) | 45.2 (33.2–61.8) | 63.4 (46.3–87.3) |
| | 75 to 79 | 74.6 (52.8–104) | 49.0 (34.5–66.3) | 124 (87.4–170) | 112.9 (79.8–156.7) | 61.5 (43.3–83.2) | 84.8 (60.0–116.4) |
| | 80 to 84 | 56.5 (43.0–75.0) | 43.5 (33.7–56.8) | 100 (76.2–132) | 143.2 (108.8–190.0) | 81.4 (63.0–106.4) | 107.7 (82.0–142.4) |
| | 85 to 89 | 35.2 (27.0–46.1) | 33.8 (25.9–44.8) | 68.9 (52.9–90.9) | 177.5 (136.4–232.6) | 107.4 (82.4–142.2) | 134.4 (103.1–177.2) |
| | 90 to 94 | 14.4 (11.3–18.9) | 20.8 (16.9–26.6) | 35.3 (28.2–45.1) | 207.9 (162.6–272.4) | 157.0 (127.5–200.1) | 174.5 (139.5–223.1) |
| | 95 plus | 3.94 (2.58–6.06) | 10.0 (7.05–14.6) | 13.9 (9.61–20.7) | 217.0 (142.0–334.0) | 223.4 (157.4–326.5) | 221.6 (152.6–329.1) |
| **Other cardiovascular and circulatory diseases** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |

| | | Incidence count (thousands) | | | Incidence age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | -- | -- | -- | -- | -- | -- |
| | 45 to 49 | -- | -- | -- | -- | -- | -- |
| | 50 to 54 | -- | -- | -- | -- | -- | -- |
| | 55 to 59 | -- | -- | -- | -- | -- | -- |
| | 60 to 64 | -- | -- | -- | -- | -- | -- |
| | 65 to 69 | -- | -- | -- | -- | -- | -- |
| | 70 to 74 | -- | -- | -- | -- | -- | -- |
| | 75 to 79 | -- | -- | -- | -- | -- | -- |
| | 80 to 84 | -- | -- | -- | -- | -- | -- |
| | 85 to 89 | -- | -- | -- | -- | -- | -- |
| | 90 to 94 | -- | -- | -- | -- | -- | -- |
| | 95 plus | -- | -- | -- | -- | -- | -- |

**Table S18. Cardiovascular disease mortality rates by age and sex**

| Cause Names | Age Group | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| **Cardiovascular diseases** | | | | | | | |
| | Under 5 | 24.1 (14.5–35.8) | 14.6 (9.46–22.8) | 38.8 (27.1–53.2) | 7.3 (4.4–10.8) | 4.7 (3.0–7.3) | 6.0 (4.2–8.3) |
| | 5 to 9 | 5.34 (3.52–7.48) | 4.72 (3.25–6.81) | 10.1 (7.77–13.1) | 1.5 (1.0–2.1) | 1.4 (1.0–2.0) | 1.4 (1.1–1.9) |
| | 10 to 14 | 7.70 (5.47–10.1) | 8.26 (5.67–11.8) | 16.0 (12.2–19.9) | 2.2 (1.6–2.9) | 2.5 (1.7–3.6) | 2.3 (1.8–2.9) |
| | 15 to 19 | 18.9 (13.7–24.4) | 18.1 (13.7–24.2) | 37.0 (30.3–44.2) | 5.7 (4.2–7.4) | 5.8 (4.4–7.7) | 5.7 (4.7–6.9) |
| | 20 to 24 | 26.4 (20.3–33.8) | 23.3 (17.7–30.9) | 49.7 (40.4–58.6) | 8.6 (6.6–11.1) | 7.8 (6.0–10.4) | 8.3 (6.7–9.7) |
| | 25 to 29 | 41.7 (31.8–54.2) | 30.9 (23.3–41.1) | 72.6 (60.6–85.6) | 14.1 (10.7–18.3) | 10.7 (8.0–14.2) | 12.4 (10.4–14.6) |
| | 30 to 34 | 80.5 (64.0–100) | 53.4 (42.3–68.5) | 134 (115–156) | 26.6 (21.2–33.1) | 18.1 (14.4–23.3) | 22.4 (19.2–26.1) |
| | 35 to 39 | 134 (112–161) | 74.2 (60.8–92.5) | 208 (181–238) | 45.2 (38.0–54.6) | 25.7 (21.1–32.1) | 35.6 (30.9–40.8) |
| | 40 to 44 | 220 (188–254) | 121 (97.0–149) | 341 (303–379) | 84.1 (71.9–97.3) | 47.4 (38.0–58.2) | 66.0 (58.6–73.3) |
| | 45 to 49 | 327 (289–376) | 166 (134–195) | 493 (444–551) | 136.8 (120.9–157.5) | 70.8 (57.2–83.3) | 104.1 (93.8–116.3) |
| | 50 to 54 | 519 (460–581) | 269 (220–312) | 787 (707–869) | 227.9 (202.1–255.1) | 118.6 (97.0–137.6) | 173.4 (155.6–191.3) |
| | 55 to 59 | 724 (640–801) | 387 (332–447) | 1110 (1020–1200) | 355.1 (314.1–393.0) | 184.6 (158.5–212.9) | 268.7 (245.7–290.0) |
| | 60 to 64 | 966 (875–1060) | 558 (493–624) | 1520 (1400–1640) | 581.9 (526.7–639.7) | 318.3 (281.6–356.3) | 446.5 (410.7–480.2) |
| | 65 to 69 | 1190 (1080–1310) | 781 (679–889) | 1980 (1820–2110) | 864.2 (778.5–947.3) | 520.8 (452.9–592.9) | 685.5 (631.9–733.9) |
| | 70 to 74 | 1320 (1200–1470) | 1000 (848–1120) | 2320 (2120–2540) | 1271.6 (1153.1–1417.9) | 842.9 (714.4–945.6) | 1043.2 (953.9–1142.5) |
| | 75 to 79 | 1280 (1130–1430) | 1150 (1000–1290) | 2430 (2180–2640) | 1931.1 (1706.6–2168.1) | 1448.0 (1259.6–1624.4) | 1667.0 (1498.7–1811.4) |
| | 80 to 84 | 1290 (1150–1440) | 1440 (1190–1660) | 2730 (2380–3000) | 3279.1 (2915.2–3653.8) | 2696.5 (2235.1–3103.0) | 2944.1 (2567.0–3229.4) |
| | 85 to 89 | 1080 (938–1240) | 1480 (1190–1680) | 2560 (2170–2850) | 5471.2 (4733.1–6244.0) | 4699.3 (3771.0–5350.3) | 4997.5 (4227.3–5560.3) |
| | 90 to 94 | 584 (476–661) | 1020 (780–1190) | 1600 (1260–1820) | 8406.4 (6855.2–9519.0) | 7675.9 (5872.2–8987.2) | 7926.7 (6230.5–9006.8) |
| | 95 plus | 202 (159–233) | 507 (360–613) | 709 (524–829) | 11142.9 (8745.2–12833.9) | 11313.7 (8029.6–13678.5) | 11264.4 (8318.1–13175.5) |
| **Rheumatic heart disease** | | | | | | | |
| | Under 5 | 0.913 (0.395–1.67) | 1.06 (0.388–1.97) | 1.97 (1.10–3.03) | 0.3 (0.1–0.5) | 0.3 (0.1–0.6) | 0.3 (0.2–0.5) |
| | 5 to 9 | 0.988 (0.536–1.73) | 0.776 (0.340–1.27) | 1.76 (1.04–2.60) | 0.3 (0.1–0.5) | 0.2 (0.1–0.4) | 0.3 (0.1–0.4) |
| | 10 to 14 | 1.95 (1.16–3.01) | 1.80 (0.840–2.95) | 3.76 (2.43–5.33) | 0.6 (0.3–0.9) | 0.5 (0.3–0.9) | 0.6 (0.4–0.8) |
| | 15 to 19 | 2.08 (1.17–3.47) | 3.31 (1.85–5.02) | 5.39 (3.53–7.42) | 0.6 (0.4–1.0) | 1.1 (0.6–1.6) | 0.8 (0.5–1.2) |
| | 20 to 24 | 3.52 (1.87–5.72) | 4.17 (2.10–6.42) | 7.69 (5.18–10.8) | 1.2 (0.6–1.9) | 1.4 (0.7–2.2) | 1.3 (0.9–1.8) |
| | 25 to 29 | 4.72 (2.59–7.54) | 5.58 (2.89–8.98) | 10.3 (6.99–14.8) | 1.6 (0.9–2.6) | 1.9 (1.0–3.1) | 1.8 (1.2–2.5) |
| | 30 to 34 | 5.46 (2.99–8.83) | 7.58 (3.85–13.2) | 13.0 (8.26–20.2) | 1.8 (1.0–2.9) | 2.6 (1.3–4.5) | 2.2 (1.4–3.4) |
| | 35 to 39 | 7.73 (4.13–13.4) | 9.10 (4.42–14.7) | 16.8 (10.1–25.9) | 2.6 (1.4–4.5) | 3.2 (1.5–5.1) | 2.9 (1.7–4.4) |
| | 40 to 44 | 9.47 (5.09–17.1) | 12.4 (5.88–21.5) | 21.9 (13.0–32.4) | 3.6 (1.9–6.5) | 4.9 (2.3–8.4) | 4.2 (2.5–6.3) |
| | 45 to 49 | 8.07 (4.65–14.4) | 11.4 (4.87–21.0) | 19.5 (11.4–30.5) | 3.4 (1.9–6.0) | 4.9 (2.1–9.0) | 4.1 (2.4–6.4) |
| | 50 to 54 | 9.89 (5.83–18.0) | 16.5 (7.29–29.9) | 26.4 (14.8–42.4) | 4.3 (2.6–7.9) | 7.3 (3.2–13.2) | 5.8 (3.3–9.3) |
| | 55 to 59 | 12.4 (7.11–22.6) | 20.4 (9.17–36.3) | 32.8 (19.2–51.3) | 6.1 (3.5–11.1) | 9.7 (4.4–17.3) | 7.9 (4.6–12.4) |
| | 60 to 64 | 13.0 (8.03–25.0) | 18.9 (8.96–31.9) | 31.9 (19.7–49.9) | 7.8 (4.8–15.1) | 10.8 (5.1–18.2) | 9.3 (5.8–14.6) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 65 to 69 | 15.6 (9.64–29.8) | 22.5 (11.8–37.4) | 38.0 (24.2–55.9) | 11.3 (7.0–21.6) | 15.0 (7.8–24.9) | 13.2 (8.4–19.4) |
| | 70 to 74 | 14.5 (9.20–24.7) | 20.4 (10.7–30.8) | 34.8 (23.0–49.8) | 13.9 (8.8–23.7) | 17.1 (9.0–26.0) | 15.6 (10.3–22.4) |
| | 75 to 79 | 14.2 (9.39–23.1) | 21.1 (12.0–30.3) | 35.3 (23.6–47.3) | 21.6 (14.2–34.9) | 26.5 (15.1–38.0) | 24.2 (16.2–32.5) |
| | 80 to 84 | 13.3 (8.62–21.3) | 21.2 (12.6–29.7) | 34.5 (23.4–47.2) | 33.7 (21.8–54.0) | 39.7 (23.6–55.6) | 37.2 (25.2–50.9) |
| | 85 to 89 | 10.8 (7.15–16.0) | 19.0 (11.9–27.1) | 29.9 (20.9–39.1) | 54.6 (36.1–80.7) | 60.5 (37.8–86.2) | 58.2 (40.8–76.3) |
| | 90 to 94 | 5.15 (3.47–7.37) | 11.3 (7.76–14.8) | 16.5 (12.0–21.6) | 74.2 (50.0–106.1) | 85.4 (58.4–111.5) | 81.5 (59.1–106.9) |
| | 95 plus | 1.68 (1.13–2.36) | 5.09 (3.41–7.07) | 6.77 (4.64–9.22) | 92.3 (62.3–130.1) | 113.8 (76.1–157.9) | 107.6 (73.8–146.5) |
| **Ischemic heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 5.12 (3.62–7.31) | 5.65 (3.75–8.08) | 10.8 (8.08–14.0) | 1.5 (1.1–2.2) | 1.8 (1.2–2.6) | 1.7 (1.3–2.2) |
| | 20 to 24 | 9.97 (7.25–13.6) | 7.59 (5.08–10.5) | 17.6 (13.7–22.3) | 3.3 (2.4–4.5) | 2.6 (1.7–3.5) | 2.9 (2.3–3.7) |
| | 25 to 29 | 18.4 (13.6–25.1) | 9.57 (6.52–13.6) | 28.0 (22.3–35.8) | 6.2 (4.6–8.5) | 3.3 (2.3–4.7) | 4.8 (3.8–6.1) |
| | 30 to 34 | 38.3 (29.4–50.0) | 18.9 (13.6–25.6) | 57.2 (46.5–70.2) | 12.7 (9.7–16.5) | 6.4 (4.6–8.7) | 9.6 (7.8–11.8) |
| | 35 to 39 | 65.0 (52.6–82.8) | 26.3 (19.3–33.8) | 91.3 (77.4–111) | 22.0 (17.8–28.0) | 9.1 (6.7–11.7) | 15.6 (13.3–19.0) |
| | 40 to 44 | 112 (93.1–137) | 44.5 (33.3–58.6) | 157 (135–184) | 43.0 (35.6–52.3) | 17.5 (13.0–23.0) | 30.4 (26.1–35.6) |
| | 45 to 49 | 172 (147–205) | 64.0 (50.1–80.9) | 236 (207–273) | 71.9 (61.6–85.6) | 27.3 (21.4–34.5) | 49.8 (43.6–57.6) |
| | 50 to 54 | 276 (239–319) | 108 (84.2–134) | 384 (337–435) | 121.1 (105.0–140.0) | 47.7 (37.2–59.4) | 84.5 (74.2–95.8) |
| | 55 to 59 | 389 (341–439) | 165 (137–202) | 553 (500–615) | 190.7 (167.2–215.5) | 78.5 (65.3–96.1) | 133.8 (120.8–148.6) |
| | 60 to 64 | 507 (455–566) | 243 (204–287) | 749 (686–823) | 305.1 (274.1–340.6) | 138.6 (116.4–163.9) | 219.6 (201.0–241.1) |
| | 65 to 69 | 601 (540–665) | 341 (290–402) | 942 (868–1030) | 435.3 (390.7–480.9) | 227.1 (193.5–268.3) | 326.9 (301.3–357.8) |
| | 70 to 74 | 641 (580–721) | 437 (372–506) | 1080 (973–1190) | 616.5 (557.1–692.8) | 368.5 (313.5–426.1) | 484.3 (436.9–533.6) |
| | 75 to 79 | 598 (529–687) | 493 (422–558) | 1090 (982–1180) | 905.4 (800.8–1039.6) | 619.5 (530.4–700.4) | 749.1 (673.6–812.6) |
| | 80 to 84 | 618 (539–710) | 631 (518–730) | 1250 (1090–1380) | 1564.9 (1365.6–1798.1) | 1182.1 (969.6–1367.8) | 1344.8 (1169.8–1486.9) |
| | 85 to 89 | 522 (452–592) | 660 (529–759) | 1180 (992–1310) | 2635.1 (2279.4–2989.2) | 2096.4 (1680.1–2409.9) | 2304.5 (1935.0–2563.4) |
| | 90 to 94 | 290 (234–330) | 460 (352–537) | 750 (590–844) | 4180.0 (3366.6–4751.3) | 3466.4 (2649.2–4044.4) | 3711.5 (2920.1–4175.5) |
| | 95 plus | 103 (80.5–121) | 225 (161–271) | 328 (244–390) | 5670.7 (4432.8–6647.6) | 5030.6 (3599.3–6056.6) | 5215.2 (3872.3–6193.2) |
| **Stroke** | | | | | | | |
| | Under 5 | 11.5 (6.02–18.6) | 4.48 (2.42–8.10) | 15.9 (9.98–23.9) | 3.5 (1.8–5.6) | 1.4 (0.8–2.6) | 2.5 (1.6–3.7) |
| | 5 to 9 | 1.74 (1.03–2.61) | 1.62 (1.00–2.65) | 3.36 (2.37–4.76) | 0.5 (0.3–0.7) | 0.5 (0.3–0.8) | 0.5 (0.3–0.7) |
| | 10 to 14 | 2.21 (1.40–3.09) | 3.10 (1.89–4.80) | 5.31 (3.76–7.37) | 0.6 (0.4–0.9) | 0.9 (0.6–1.5) | 0.8 (0.6–1.1) |
| | 15 to 19 | 7.15 (4.77–9.95) | 5.35 (3.52–7.85) | 12.5 (9.15–16.7) | 2.2 (1.4–3.0) | 1.7 (1.1–2.5) | 1.9 (1.4–2.6) |
| | 20 to 24 | 7.17 (5.01–10.0) | 6.33 (4.29–9.49) | 13.5 (10.1–17.3) | 2.3 (1.6–3.3) | 2.1 (1.4–3.2) | 2.2 (1.7–2.9) |
| | 25 to 29 | 9.70 (6.93–13.5) | 8.44 (5.75–12.1) | 18.1 (13.7–23.0) | 3.3 (2.3–4.6) | 2.9 (2.0–4.2) | 3.1 (2.3–3.9) |
| | 30 to 34 | 20.6 (14.6–27.3) | 15.5 (11.4–21.7) | 36.0 (28.2–45.0) | 6.8 (4.8–9.0) | 5.3 (3.9–7.4) | 6.0 (4.7–7.5) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 35 to 39 | 36.6 (27.8–47.7) | 24.4 (18.1–33.1) | 61.0 (50.1–74.1) | 12.4 (9.4–16.1) | 8.5 (6.3–11.5) | 10.4 (8.6–12.7) |
| | 40 to 44 | 62.0 (50.6–76.7) | 43.5 (32.9–57.2) | 106 (87.5–122) | 23.7 (19.4–29.3) | 17.1 (12.9–22.4) | 20.4 (16.9–23.7) |
| | 45 to 49 | 99.4 (81.8–123) | 63.8 (50.3–83.1) | 163 (140–190) | 41.6 (34.2–51.4) | 27.2 (21.4–35.4) | 34.5 (29.5–40.2) |
| | 50 to 54 | 168 (139–202) | 106 (81.3–130) | 273 (236–313) | 73.7 (61.3–88.7) | 46.7 (35.9–57.3) | 60.2 (52.0–68.9) |
| | 55 to 59 | 236 (200–276) | 149 (120–181) | 384 (336–433) | 115.5 (98.2–135.5) | 70.9 (57.2–86.2) | 92.9 (81.3–104.6) |
| | 60 to 64 | 330 (285–380) | 218 (182–264) | 548 (480–615) | 198.7 (171.6–229.1) | 124.5 (103.7–150.5) | 160.6 (140.6–180.1) |
| | 65 to 69 | 437 (374–504) | 312 (257–376) | 749 (668–842) | 316.5 (270.4–364.6) | 208.1 (171.5–250.9) | 260.1 (231.7–292.0) |
| | 70 to 74 | 506 (435–594) | 400 (324–463) | 905 (798–1030) | 486.1 (417.8–571.4) | 336.8 (273.3–390.2) | 406.5 (358.2–463.6) |
| | 75 to 79 | 493 (412–583) | 457 (375–546) | 951 (846–1080) | 746.7 (624.2–882.3) | 574.1 (471.4–685.4) | 652.3 (580.5–737.9) |
| | 80 to 84 | 472 (403–551) | 530 (421–629) | 1000 (864–1140) | 1195.5 (1020.5–1395.3) | 993.1 (789.1–1177.1) | 1079.1 (930.4–1226.7) |
| | 85 to 89 | 371 (307–428) | 499 (406–591) | 870 (724–979) | 1872.9 (1551.7–2160.9) | 1586.6 (1289.5–1877.1) | 1697.2 (1412.4–1909.2) |
| | 90 to 94 | 176 (141–205) | 304 (236–362) | 480 (379–554) | 2532.4 (2028.4–2951.0) | 2288.9 (1777.7–2723.7) | 2372.5 (1876.9–2742.3) |
| | 95 plus | 53.9 (40.9–65.6) | 141 (101–170) | 195 (143–233) | 2968.5 (2254.6–3611.2) | 3151.0 (2255.3–3788.2) | 3098.4 (2264.2–3707.4) |
| **Ischemic stroke** | | | | | | | |
| | Under 5 | 1.53 (0.585–3.12) | 0.761 (0.320–1.68) | 2.29 (1.14–3.87) | 0.5 (0.2–0.9) | 0.2 (0.1–0.5) | 0.4 (0.2–0.6) |
| | 5 to 9 | 0.290 (0.122–0.536) | 0.257 (0.119–0.515) | 0.547 (0.320–0.921) | 0.1 (0.03–0.1) | 0.1 (0.03–0.2) | 0.1 (0.05–0.1) |
| | 10 to 14 | 0.280 (0.134–0.507) | 0.421 (0.198–0.868) | 0.701 (0.433–1.20) | 0.1 (0.04–0.1) | 0.1 (0.1–0.3) | 0.1 (0.1–0.2) |
| | 15 to 19 | 0.925 (0.477–1.64) | 0.882 (0.438–1.60) | 1.81 (1.15–2.96) | 0.3 (0.1–0.5) | 0.3 (0.1–0.5) | 0.3 (0.2–0.5) |
| | 20 to 24 | 0.921 (0.527–1.55) | 1.04 (0.561–1.90) | 1.97 (1.31–3.04) | 0.3 (0.2–0.5) | 0.4 (0.2–0.6) | 0.3 (0.2–0.5) |
| | 25 to 29 | 1.18 (0.769–1.86) | 1.36 (0.771–2.31) | 2.54 (1.74–3.82) | 0.4 (0.3–0.6) | 0.5 (0.3–0.8) | 0.4 (0.3–0.7) |
| | 30 to 34 | 2.48 (1.67–3.73) | 2.44 (1.43–4.05) | 4.92 (3.51–7.05) | 0.8 (0.6–1.2) | 0.8 (0.5–1.4) | 0.8 (0.6–1.2) |
| | 35 to 39 | 4.41 (3.08–6.32) | 3.61 (2.24–5.65) | 8.02 (6.04–10.7) | 1.5 (1.0–2.1) | 1.3 (0.8–2.0) | 1.4 (1.0–1.8) |
| | 40 to 44 | 7.92 (5.73–10.8) | 6.35 (3.99–9.58) | 14.3 (10.9–18.7) | 3.0 (2.2–4.1) | 2.5 (1.6–3.8) | 2.8 (2.1–3.6) |
| | 45 to 49 | 17.0 (13.0–22.3) | 10.2 (6.78–15.1) | 27.1 (21.7–33.6) | 7.1 (5.4–9.3) | 4.3 (2.9–6.4) | 5.7 (4.6–7.1) |
| | 50 to 54 | 34.2 (26.5–43.4) | 18.9 (12.8–26.1) | 53.1 (43.2–65.1) | 15.0 (11.6–19.1) | 8.3 (5.6–11.5) | 11.7 (9.5–14.3) |
| | 55 to 59 | 55.7 (43.7–68.4) | 30.7 (22.2–41.2) | 86.5 (71.7–104) | 27.3 (21.4–33.5) | 14.7 (10.6–19.6) | 20.9 (17.3–25.1) |
| | 60 to 64 | 118 (96.7–144) | 67.8 (50.0–87.3) | 186 (157–214) | 71.3 (58.2–86.8) | 38.7 (28.5–49.9) | 54.6 (46.0–62.8) |
| | 65 to 69 | 174 (145–211) | 109 (81.5–139) | 284 (247–329) | 126.0 (105.1–153.0) | 73.0 (54.3–92.8) | 98.4 (85.6–114.2) |
| | 70 to 74 | 251 (211–297) | 200 (155–248) | 451 (395–518) | 241.5 (203.0–285.8) | 168.3 (130.6–208.7) | 202.5 (177.2–232.7) |
| | 75 to 79 | 256 (213–302) | 242 (193–291) | 498 (437–567) | 387.5 (321.7–457.6) | 303.8 (242.0–365.1) | 341.7 (299.7–389.3) |
| | 80 to 84 | 285 (244–333) | 335 (268–400) | 619 (537–697) | 721.2 (618.6–843.2) | 626.8 (502.5–749.9) | 666.9 (578.5–751.0) |
| | 85 to 89 | 233 (200–269) | 330 (269–391) | 563 (473–637) | 1173.9 (1008.0–1357.3) | 1049.4 (855.3–1242.8) | 1097.4 (922.6–1241.8) |
| | 90 to 94 | 116 (94.0–134) | 214 (166–252) | 331 (262–379) | 1676.4 (1354.3–1929.5) | 1615.3 (1253.3–1898.3) | 1636.3 (1294.6–1875.0) |
| | 95 plus | 37.5 (28.7–45.3) | 106 (76.7–130) | 144 (106–171) | 2065.5 (1580.5–2494.5) | 2369.6 (1712.7–2896.6) | 2281.9 (1681.8–2716.7) |
| **Intracerebral hemorrhage** | | | | | | | |
| | Under 5 | 7.87 (3.78–13.4) | 2.98 (1.48–5.64) | 10.9 (6.12–16.8) | 2.4 (1.1–4.0) | 1.0 (0.5–1.8) | 1.7 (1.0–2.6) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 5 to 9 | 1.12 (0.616–1.82) | 1.05 (0.594–1.80) | 2.18 (1.43–3.26) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) |
| | 10 to 14 | 1.43 (0.883–2.22) | 1.99 (1.15–3.25) | 3.42 (2.24–4.99) | 0.4 (0.3–0.6) | 0.6 (0.3–1.0) | 0.5 (0.3–0.7) |
| | 15 to 19 | 5.03 (3.15–7.27) | 3.67 (2.41–5.79) | 8.70 (6.21–11.7) | 1.5 (1.0–2.2) | 1.2 (0.8–1.8) | 1.4 (1.0–1.8) |
| | 20 to 24 | 5.02 (3.28–7.13) | 4.21 (2.77–6.22) | 9.23 (6.71–11.9) | 1.6 (1.1–2.3) | 1.4 (0.9–2.1) | 1.5 (1.1–2.0) |
| | 25 to 29 | 6.62 (4.58–9.34) | 5.62 (3.73–8.25) | 12.2 (9.00–15.8) | 2.2 (1.5–3.2) | 1.9 (1.3–2.9) | 2.1 (1.5–2.7) |
| | 30 to 34 | 14.9 (10.5–20.5) | 10.4 (7.53–15.5) | 25.3 (19.5–31.8) | 4.9 (3.5–6.8) | 3.5 (2.6–5.3) | 4.2 (3.3–5.3) |
| | 35 to 39 | 26.8 (20.0–35.3) | 16.6 (11.8–23.3) | 43.4 (34.9–53.7) | 9.1 (6.8–11.9) | 5.7 (4.1–8.1) | 7.4 (6.0–9.2) |
| | 40 to 44 | 45.9 (36.6–57.8) | 30.1 (21.3–41.3) | 76.0 (62.2–89.7) | 17.6 (14.0–22.1) | 11.8 (8.4–16.2) | 14.7 (12.0–17.4) |
| | 45 to 49 | 72.3 (59.6–91.8) | 45.2 (35.7–59.7) | 118 (99.6–136) | 30.3 (24.9–38.4) | 19.3 (15.2–25.5) | 24.8 (21.0–28.8) |
| | 50 to 54 | 119 (97.8–146) | 74.7 (56.5–95.0) | 194 (162–222) | 52.2 (43.0–64.0) | 33.0 (24.9–41.9) | 42.6 (35.8–48.8) |
| | 55 to 59 | 161 (133–191) | 102 (79.8–126) | 263 (225–301) | 79.0 (65.3–93.4) | 48.5 (38.1–60.2) | 63.5 (54.3–72.8) |
| | 60 to 64 | 195 (161–233) | 134 (107–173) | 329 (282–378) | 117.3 (97.2–140.1) | 76.7 (61.0–98.5) | 96.4 (82.8–110.9) |
| | 65 to 69 | 243 (203–289) | 182 (142–225) | 425 (364–483) | 175.9 (146.7–209.4) | 121.5 (94.5–150.2) | 147.6 (126.4–167.6) |
| | 70 to 74 | 235 (191–287) | 181 (141–223) | 416 (357–483) | 226.1 (184.1–276.0) | 152.5 (118.6–187.7) | 186.9 (160.3–216.8) |
| | 75 to 79 | 220 (178–264) | 196 (153–244) | 415 (356–485) | 332.4 (269.1–398.9) | 245.7 (191.6–306.3) | 285.0 (244.2–332.6) |
| | 80 to 84 | 172 (139–214) | 177 (134–225) | 349 (292–414) | 434.6 (353.0–541.6) | 331.8 (250.6–420.7) | 375.5 (314.3–445.8) |
| | 85 to 89 | 126 (98.2–156) | 152 (114–194) | 279 (220–331) | 637.4 (495.6–789.4) | 484.0 (361.0–617.1) | 543.3 (429.3–644.6) |
| | 90 to 94 | 53.6 (41.2–67.0) | 79.5 (57.5–105) | 133 (104–163) | 772.0 (592.7–965.6) | 599.2 (433.5–788.8) | 658.5 (512.8–805.4) |
| | 95 plus | 14.7 (10.5–19.0) | 30.5 (20.8–40.2) | 45.2 (31.6–57.0) | 810.1 (579.9–1044.7) | 681.1 (463.7–898.4) | 718.4 (501.5–905.5) |
| **Subarachnoid hemorrhage** | | | | | | | |
| | Under 5 | 2.06 (0.817–4.04) | 0.736 (0.268–1.62) | 2.80 (1.29–5.02) | 0.6 (0.2–1.2) | 0.2 (0.1–0.5) | 0.4 (0.2–0.8) |
| | 5 to 9 | 0.330 (0.182–0.601) | 0.304 (0.153–0.618) | 0.634 (0.379–1.07) | 0.1 (0.1–0.2) | 0.1 (0.05–0.2) | 0.1 (0.1–0.2) |
| | 10 to 14 | 0.505 (0.307–0.840) | 0.688 (0.307–1.44) | 1.19 (0.704–2.05) | 0.1 (0.1–0.2) | 0.2 (0.1–0.4) | 0.2 (0.1–0.3) |
| | 15 to 19 | 1.20 (0.717–2.01) | 0.792 (0.437–1.51) | 1.99 (1.27–3.23) | 0.4 (0.2–0.6) | 0.3 (0.1–0.5) | 0.3 (0.2–0.5) |
| | 20 to 24 | 1.23 (0.824–1.92) | 1.08 (0.606–1.93) | 2.31 (1.57–3.58) | 0.4 (0.3–0.6) | 0.4 (0.2–0.7) | 0.4 (0.3–0.6) |
| | 25 to 29 | 1.89 (1.32–2.89) | 1.47 (0.861–2.54) | 3.36 (2.45–4.79) | 0.6 (0.4–1.0) | 0.5 (0.3–0.9) | 0.6 (0.4–0.8) |
| | 30 to 34 | 3.23 (2.30–4.84) | 2.59 (1.59–4.52) | 5.82 (4.33–8.36) | 1.1 (0.8–1.6) | 0.9 (0.5–1.5) | 1.0 (0.7–1.4) |
| | 35 to 39 | 5.36 (3.92–7.53) | 4.24 (2.79–6.92) | 9.61 (7.47–13.1) | 1.8 (1.3–2.5) | 1.5 (1.0–2.4) | 1.6 (1.3–2.3) |
| | 40 to 44 | 8.22 (5.95–11.2) | 7.06 (4.77–10.8) | 15.3 (12.0–20.5) | 3.1 (2.3–4.3) | 2.8 (1.9–4.2) | 3.0 (2.3–4.0) |
| | 45 to 49 | 10.2 (7.65–13.5) | 8.45 (6.07–13.3) | 18.6 (14.7–24.3) | 4.3 (3.2–5.6) | 3.6 (2.6–5.7) | 3.9 (3.1–5.1) |
| | 50 to 54 | 14.6 (11.2–19.6) | 12.1 (8.68–18.1) | 26.6 (21.4–34.4) | 6.4 (4.9–8.6) | 5.3 (3.8–8.0) | 5.9 (4.7–7.6) |
| | 55 to 59 | 18.9 (14.7–25.2) | 16.3 (11.8–24.3) | 35.2 (28.9–45.7) | 9.3 (7.2–12.4) | 7.8 (5.6–11.6) | 8.5 (7.0–11.1) |
| | 60 to 64 | 16.9 (13.3–22.4) | 16.0 (11.8–22.9) | 32.9 (27.3–41.8) | 10.2 (8.0–13.5) | 9.1 (6.8–13.1) | 9.6 (8.0–12.3) |
| | 65 to 69 | 20.3 (16.2–26.2) | 20.3 (15.9–28.6) | 40.6 (33.6–50.4) | 14.7 (11.8–19.0) | 13.5 (10.6–19.1) | 14.1 (11.6–17.5) |
| | 70 to 74 | 19.3 (15.2–24.7) | 19.0 (15.0–24.5) | 38.3 (32.1–46.1) | 18.5 (14.6–23.7) | 16.0 (12.6–20.6) | 17.2 (14.4–20.7) |
| | 75 to 79 | 17.7 (14.0–22.1) | 19.5 (15.6–26.4) | 37.3 (31.4–44.3) | 26.8 (21.1–33.5) | 24.5 (19.5–33.2) | 25.6 (21.6–30.4) |
| | 80 to 84 | 15.7 (12.4–19.6) | 18.4 (14.0–23.3) | 34.0 (28.2–39.8) | 39.7 (31.4–49.6) | 34.4 (26.1–43.5) | 36.7 (30.4–42.8) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 85 to 89 | 12.2 (9.93–15.3) | 16.7 (12.3–21.3) | 29.0 (23.1–34.5) | 61.7 (50.1–77.5) | 53.2 (38.9–67.8) | 56.5 (45.1–67.3) |
| | 90 to 94 | 5.84 (4.61–7.36) | 9.88 (7.22–12.6) | 15.7 (12.3–19.0) | 84.1 (66.4–106.0) | 74.4 (54.4–95.0) | 77.7 (60.6–93.8) |
| | 95 plus | 1.68 (1.23–2.15) | 4.49 (3.02–5.70) | 6.17 (4.46–7.59) | 92.8 (67.7–118.3) | 100.3 (67.5–127.3) | 98.1 (70.8–120.6) |
| **Hypertensive heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.435 (0.257–0.713) | 0.626 (0.317–1.05) | 1.06 (0.688–1.55) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) |
| | 20 to 24 | 0.795 (0.487–1.25) | 0.726 (0.370–1.18) | 1.52 (1.03–2.15) | 0.3 (0.2–0.4) | 0.2 (0.1–0.4) | 0.3 (0.2–0.4) |
| | 25 to 29 | 1.45 (0.924–2.20) | 1.32 (0.680–2.20) | 2.77 (1.92–3.89) | 0.5 (0.3–0.7) | 0.5 (0.2–0.8) | 0.5 (0.3–0.7) |
| | 30 to 34 | 3.63 (2.34–5.65) | 2.97 (1.60–4.90) | 6.60 (4.67–9.17) | 1.2 (0.8–1.9) | 1.0 (0.5–1.7) | 1.1 (0.8–1.5) |
| | 35 to 39 | 6.21 (4.10–9.45) | 4.65 (2.62–7.38) | 10.9 (7.67–14.8) | 2.1 (1.4–3.2) | 1.6 (0.9–2.6) | 1.9 (1.3–2.5) |
| | 40 to 44 | 11.0 (7.51–16.1) | 7.80 (4.48–12.2) | 18.8 (14.0–24.7) | 4.2 (2.9–6.2) | 3.1 (1.8–4.8) | 3.6 (2.7–4.8) |
| | 45 to 49 | 17.7 (12.7–25.5) | 12.6 (7.77–19.9) | 30.4 (23.1–40.4) | 7.4 (5.3–10.7) | 5.4 (3.3–8.5) | 6.4 (4.9–8.5) |
| | 50 to 54 | 28.4 (20.8–39.6) | 20.1 (12.7–30.6) | 48.4 (37.0–63.4) | 12.5 (9.1–17.4) | 8.9 (5.6–13.5) | 10.7 (8.1–14.0) |
| | 55 to 59 | 39.1 (29.0–52.0) | 29.3 (19.2–43.4) | 68.4 (53.1–86.5) | 19.2 (14.2–25.5) | 14.0 (9.2–20.7) | 16.5 (12.8–20.9) |
| | 60 to 64 | 55.9 (42.1–74.6) | 44.0 (29.4–64.1) | 99.8 (78.1–127) | 33.6 (25.4–44.9) | 25.1 (16.8–36.6) | 29.3 (22.9–37.1) |
| | 65 to 69 | 68.6 (52.5–89.6) | 62.3 (43.3–88.7) | 131 (103–163) | 49.6 (38.0–64.9) | 41.5 (28.9–59.2) | 45.4 (35.8–56.7) |
| | 70 to 74 | 81.6 (62.3–105) | 84.6 (59.0–118) | 166 (131–209) | 78.4 (59.9–101.4) | 71.3 (49.7–99.4) | 74.6 (58.6–93.9) |
| | 75 to 79 | 83.4 (65.8–110) | 105 (74.6–139) | 188 (147–235) | 126.2 (99.6–166.7) | 131.3 (93.7–175.0) | 129.0 (101.0–161.3) |
| | 80 to 84 | 91.6 (69.9–116) | 141 (99.5–187) | 233 (178–284) | 232.1 (177.2–295.0) | 264.2 (186.2–350.2) | 250.6 (192.1–305.6) |
| | 85 to 89 | 82.9 (62.1–105) | 156 (114–199) | 239 (183–290) | 418.5 (313.5–532.0) | 495.9 (360.6–633.0) | 466.0 (356.3–565.8) |
| | 90 to 94 | 46.7 (36.0–57.2) | 113 (82.7–140) | 160 (120–192) | 673.2 (518.2–823.7) | 852.2 (623.0–1052.5) | 790.8 (593.8–951.4) |
| | 95 plus | 17.6 (13.3–22.4) | 62.2 (43.5–77.8) | 79.8 (57.5–97.8) | 971.0 (730.0–1235.6) | 1388.1 (971.9–1736.6) | 1267.8 (913.5–1553.3) |
| **Non-rheumatic valvular heart disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.372 (0.204–0.610) | 0.337 (0.164–0.578) | 0.710 (0.457–1.04) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 20 to 24 | 0.439 (0.262–0.679) | 0.362 (0.193–0.615) | 0.801 (0.529–1.21) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 25 to 29 | 0.491 (0.315–0.741) | 0.385 (0.215–0.645) | 0.876 (0.593–1.27) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 30 to 34 | 0.656 (0.421–0.986) | 0.511 (0.292–0.863) | 1.17 (0.821–1.67) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| | 35 to 39 | 0.881 (0.574–1.25) | 0.593 (0.353–0.938) | 1.47 (1.08–2.01) | 0.3 (0.2–0.4) | 0.2 (0.1–0.3) | 0.3 (0.2–0.3) |
| | 40 to 44 | 1.19 (0.838–1.68) | 0.823 (0.520–1.28) | 2.01 (1.52–2.71) | 0.5 (0.3–0.6) | 0.3 (0.2–0.5) | 0.4 (0.3–0.5) |
| | 45 to 49 | 1.41 (1.06–1.96) | 0.982 (0.643–1.44) | 2.40 (1.87–3.06) | 0.6 (0.4–0.8) | 0.4 (0.3–0.6) | 0.5 (0.4–0.6) |
| | 50 to 54 | 2.10 (1.61–2.70) | 1.32 (0.915–1.92) | 3.42 (2.76–4.32) | 0.9 (0.7–1.2) | 0.6 (0.4–0.8) | 0.8 (0.6–1.0) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 55 to 59 | 2.90 (2.30–3.61) | 1.78 (1.34–2.45) | 4.68 (3.97–5.74) | 1.4 (1.1–1.8) | 0.8 (0.6–1.2) | 1.1 (1.0–1.4) |
| | 60 to 64 | 4.32 (3.51–5.61) | 2.87 (2.21–3.86) | 7.19 (6.09–8.77) | 2.6 (2.1–3.4) | 1.6 (1.3–2.2) | 2.1 (1.8–2.6) |
| | 65 to 69 | 5.77 (4.87–7.12) | 4.39 (3.36–6.08) | 10.2 (8.60–12.2) | 4.2 (3.5–5.2) | 2.9 (2.2–4.1) | 3.5 (3.0–4.2) |
| | 70 to 74 | 7.77 (6.65–9.11) | 6.40 (5.12–8.30) | 14.2 (12.5–16.3) | 7.5 (6.4–8.8) | 5.4 (4.3–7.0) | 6.4 (5.6–7.3) |
| | 75 to 79 | 9.59 (8.47–10.9) | 9.25 (7.46–11.3) | 18.8 (16.5–21.3) | 14.5 (12.8–16.4) | 11.6 (9.4–14.2) | 12.9 (11.3–14.6) |
| | 80 to 84 | 13.0 (11.0–14.4) | 15.2 (12.3–18.0) | 28.2 (23.9–32.1) | 32.9 (27.9–36.5) | 28.5 (23.1–33.7) | 30.4 (25.8–34.6) |
| | 85 to 89 | 15.0 (12.6–16.8) | 23.2 (17.3–27.2) | 38.2 (30.4–43.2) | 75.6 (63.8–84.8) | 73.8 (55.0–86.3) | 74.5 (59.3–84.2) |
| | 90 to 94 | 11.1 (9.27–12.5) | 24.6 (17.8–28.7) | 35.7 (27.1–40.7) | 160.0 (133.5–180.5) | 185.2 (134.3–215.9) | 176.6 (134.1–201.4) |
| | 95 plus | 4.51 (3.49–5.18) | 16.8 (11.6–20.2) | 21.3 (15.2–25.1) | 248.3 (192.2–285.3) | 374.8 (259.0–450.0) | 338.3 (240.9–399.4) |
| **Non-rheumatic calcific aortic valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.196 (0.111–0.341) | 0.112 (0.0456–0.201) | 0.307 (0.183–0.474) | 0.1 (0.03–0.1) | 0.04 (0.01–0.1) | 0.05 (0.03–0.1) |
| | 20 to 24 | 0.237 (0.137–0.388) | 0.114 (0.0500–0.215) | 0.350 (0.226–0.552) | 0.1 (0.04–0.1) | 0.04 (0.02–0.1) | 0.1 (0.04–0.1) |
| | 25 to 29 | 0.280 (0.174–0.427) | 0.132 (0.0660–0.243) | 0.411 (0.277–0.608) | 0.1 (0.1–0.1) | 0.05 (0.02–0.1) | 0.1 (0.05–0.1) |
| | 30 to 34 | 0.389 (0.246–0.596) | 0.192 (0.102–0.329) | 0.581 (0.389–0.859) | 0.1 (0.1–0.2) | 0.1 (0.03–0.1) | 0.1 (0.1–0.1) |
| | 35 to 39 | 0.556 (0.362–0.821) | 0.213 (0.114–0.343) | 0.769 (0.544–1.06) | 0.2 (0.1–0.3) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) |
| | 40 to 44 | 0.747 (0.509–1.09) | 0.325 (0.202–0.556) | 1.07 (0.803–1.48) | 0.3 (0.2–0.4) | 0.1 (0.1–0.2) | 0.2 (0.2–0.3) |
| | 45 to 49 | 0.964 (0.721–1.31) | 0.406 (0.254–0.627) | 1.37 (1.07–1.77) | 0.4 (0.3–0.5) | 0.2 (0.1–0.3) | 0.3 (0.2–0.4) |
| | 50 to 54 | 1.41 (1.07–1.87) | 0.605 (0.411–0.922) | 2.01 (1.61–2.50) | 0.6 (0.5–0.8) | 0.3 (0.2–0.4) | 0.4 (0.4–0.5) |
| | 55 to 59 | 1.99 (1.58–2.52) | 0.872 (0.648–1.19) | 2.86 (2.31–3.47) | 1.0 (0.8–1.2) | 0.4 (0.3–0.6) | 0.7 (0.6–0.8) |
| | 60 to 64 | 3.06 (2.45–3.80) | 1.55 (1.20–2.09) | 4.61 (3.95–5.53) | 1.8 (1.5–2.3) | 0.9 (0.7–1.2) | 1.4 (1.2–1.6) |
| | 65 to 69 | 4.28 (3.57–5.20) | 2.66 (2.03–3.63) | 6.94 (5.82–8.28) | 3.1 (2.6–3.8) | 1.8 (1.4–2.4) | 2.4 (2.0–2.9) |
| | 70 to 74 | 6.06 (5.18–7.17) | 4.24 (3.31–5.40) | 10.3 (8.96–11.8) | 5.8 (5.0–6.9) | 3.6 (2.8–4.6) | 4.6 (4.0–5.3) |
| | 75 to 79 | 7.63 (6.71–8.69) | 6.45 (5.29–7.67) | 14.1 (12.4–15.9) | 11.5 (10.2–13.2) | 8.1 (6.6–9.6) | 9.7 (8.5–10.9) |
| | 80 to 84 | 10.8 (9.13–12.1) | 11.8 (9.57–14.0) | 22.6 (19.0–25.4) | 27.4 (23.1–30.6) | 22.2 (17.9–26.1) | 24.4 (20.5–27.3) |
| | 85 to 89 | 12.9 (10.9–14.5) | 19.1 (14.2–22.1) | 31.9 (25.3–35.7) | 65.0 (54.8–73.0) | 60.6 (45.0–70.3) | 62.3 (49.3–69.7) |
| | 90 to 94 | 9.77 (8.06–11.0) | 20.9 (15.0–24.2) | 30.6 (23.1–34.8) | 140.8 (116.1–158.2) | 157.1 (112.8–182.0) | 151.5 (114.5–171.9) |
| | 95 plus | 4.01 (3.09–4.62) | 14.5 (9.96–17.4) | 18.5 (13.2–21.7) | 220.8 (170.3–254.4) | 324.1 (222.3–389.2) | 294.3 (209.2–345.3) |
| **Non-rheumatic degenerative mitral valve disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.160 (0.0721–0.308) | 0.211 (0.0932–0.402) | 0.371 (0.218–0.579) | 0.05 (0.02–0.1) | 0.1 (0.03–0.1) | 0.1 (0.03–0.1) |
| | 20 to 24 | 0.185 (0.0904–0.354) | 0.230 (0.110–0.414) | 0.415 (0.249–0.654) | 0.1 (0.03–0.1) | 0.1 (0.04–0.1) | 0.1 (0.04–0.1) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 25 to 29 | 0.191 (0.0991–0.347) | 0.228 (0.120–0.433) | 0.419 (0.265–0.678) | 0.1 (0.03–0.1) | 0.1 (0.04–0.1) | 0.1 (0.05–0.1) |
| | 30 to 34 | 0.251 (0.135–0.439) | 0.297 (0.149–0.567) | 0.548 (0.350–0.845) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 35 to 39 | 0.307 (0.168–0.541) | 0.349 (0.191–0.617) | 0.656 (0.430–1.02) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 40 to 44 | 0.419 (0.241–0.717) | 0.467 (0.271–0.769) | 0.886 (0.605–1.31) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| | 45 to 49 | 0.426 (0.274–0.676) | 0.543 (0.330–0.927) | 0.969 (0.698–1.41) | 0.2 (0.1–0.3) | 0.2 (0.1–0.4) | 0.2 (0.1–0.3) |
| | 50 to 54 | 0.651 (0.427–1.06) | 0.670 (0.390–1.09) | 1.32 (0.946–1.95) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) | 0.3 (0.2–0.4) |
| | 55 to 59 | 0.845 (0.585–1.26) | 0.850 (0.569–1.34) | 1.69 (1.29–2.48) | 0.4 (0.3–0.6) | 0.4 (0.3–0.6) | 0.4 (0.3–0.6) |
| | 60 to 64 | 1.19 (0.833–1.81) | 1.23 (0.830–1.79) | 2.42 (1.85–3.44) | 0.7 (0.5–1.1) | 0.7 (0.5–1.0) | 0.7 (0.5–1.0) |
| | 65 to 69 | 1.41 (1.03–2.12) | 1.62 (1.13–2.42) | 3.03 (2.40–4.23) | 1.0 (0.7–1.5) | 1.1 (0.8–1.6) | 1.1 (0.8–1.5) |
| | 70 to 74 | 1.62 (1.24–2.22) | 2.03 (1.45–2.88) | 3.65 (2.94–4.81) | 1.6 (1.2–2.1) | 1.7 (1.2–2.4) | 1.6 (1.3–2.2) |
| | 75 to 79 | 1.87 (1.48–2.59) | 2.65 (1.94–3.79) | 4.52 (3.66–5.98) | 2.8 (2.2–3.9) | 3.3 (2.4–4.8) | 3.1 (2.5–4.1) |
| | 80 to 84 | 2.05 (1.65–2.71) | 3.21 (2.41–4.28) | 5.26 (4.31–6.80) | 5.2 (4.2–6.9) | 6.0 (4.5–8.0) | 5.7 (4.6–7.3) |
| | 85 to 89 | 2.01 (1.63–2.46) | 3.99 (2.82–5.19) | 5.99 (4.69–7.34) | 10.1 (8.2–12.4) | 12.7 (9.0–16.5) | 11.7 (9.1–14.3) |
| | 90 to 94 | 1.28 (1.03–1.52) | 3.61 (2.53–4.41) | 4.89 (3.68–5.81) | 18.5 (14.8–22.0) | 27.2 (19.1–33.3) | 24.2 (18.2–28.8) |
| | 95 plus | 0.490 (0.382–0.582) | 2.21 (1.48–2.82) | 2.70 (1.88–3.35) | 27.0 (21.0–32.0) | 49.3 (33.2–63.0) | 42.9 (29.9–53.2) |
| **Other non-rheumatic valve diseases** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.0166 (0.00738–0.0355) | 0.0147 (0.00602–0.0330) | 0.0313 (0.0182–0.0593) | 0.005 (0.002–0.01) | 0.005 (0.002–0.01) | 0.005 (0.003–0.009) |
| | 20 to 24 | 0.0171 (0.00767–0.0370) | 0.0193 (0.00780–0.0443) | 0.0364 (0.0211–0.0667) | 0.006 (0.003–0.01) | 0.007 (0.003–0.01) | 0.006 (0.003–0.01) |
| | 25 to 29 | 0.0206 (0.0100–0.0439) | 0.0251 (0.0101–0.0562) | 0.0456 (0.0264–0.0808) | 0.007 (0.003–0.01) | 0.009 (0.004–0.02) | 0.008 (0.005–0.01) |
| | 30 to 34 | 0.0163 (0.00820–0.0328) | 0.0215 (0.00924–0.0494) | 0.0378 (0.0210–0.0673) | 0.005 (0.003–0.01) | 0.007 (0.003–0.02) | 0.006 (0.004–0.01) |
| | 35 to 39 | 0.0186 (0.00942–0.0374) | 0.0301 (0.0110–0.0608) | 0.0487 (0.0257–0.0829) | 0.006 (0.003–0.01) | 0.01 (0.004–0.02) | 0.008 (0.004–0.01) |
| | 40 to 44 | 0.0249 (0.0128–0.0481) | 0.0313 (0.0144–0.0638) | 0.0562 (0.0347–0.0941) | 0.01 (0.005–0.02) | 0.01 (0.006–0.03) | 0.01 (0.007–0.02) |
| | 45 to 49 | 0.0247 (0.0130–0.0460) | 0.0329 (0.0151–0.0674) | 0.0577 (0.0335–0.0997) | 0.01 (0.005–0.02) | 0.01 (0.006–0.03) | 0.01 (0.007–0.02) |
| | 50 to 54 | 0.0382 (0.0193–0.0685) | 0.0441 (0.0209–0.0987) | 0.0822 (0.0499–0.142) | 0.02 (0.008–0.03) | 0.02 (0.009–0.04) | 0.02 (0.01–0.03) |
| | 55 to 59 | 0.0582 (0.0311–0.108) | 0.0586 (0.0253–0.121) | 0.117 (0.0701–0.196) | 0.03 (0.02–0.1) | 0.03 (0.01–0.1) | 0.03 (0.02–0.05) |
| | 60 to 64 | 0.0695 (0.0321–0.132) | 0.0879 (0.0368–0.184) | 0.157 (0.0922–0.266) | 0.04 (0.02–0.1) | 0.1 (0.02–0.1) | 0.05 (0.03–0.1) |
| | 65 to 69 | 0.0824 (0.0396–0.148) | 0.108 (0.0510–0.228) | 0.190 (0.107–0.312) | 0.1 (0.03–0.1) | 0.1 (0.03–0.2) | 0.1 (0.04–0.1) |
| | 70 to 74 | 0.0875 (0.0460–0.163) | 0.128 (0.0660–0.281) | 0.215 (0.132–0.360) | 0.1 (0.04–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 75 to 79 | 0.0931 (0.0489–0.182) | 0.143 (0.0667–0.292) | 0.236 (0.145–0.396) | 0.1 (0.1–0.3) | 0.2 (0.1–0.4) | 0.2 (0.1–0.3) |
| | 80 to 84 | 0.107 (0.0517–0.199) | 0.187 (0.0820–0.388) | 0.294 (0.171–0.494) | 0.3 (0.1–0.5) | 0.3 (0.2–0.7) | 0.3 (0.2–0.5) |
| | 85 to 89 | 0.0909 (0.0459–0.156) | 0.184 (0.0720–0.421) | 0.275 (0.134–0.493) | 0.5 (0.2–0.8) | 0.6 (0.2–1.3) | 0.5 (0.3–1.0) |
| | 90 to 94 | 0.0519 (0.0253–0.0915) | 0.126 (0.0475–0.324) | 0.178 (0.0926–0.387) | 0.7 (0.4–1.3) | 1.0 (0.4–2.4) | 0.9 (0.5–1.9) |
| | 95 plus | 0.00999 (0.00347–0.0171) | 0.0591 (0.0269–0.131) | 0.0691 (0.0344–0.140) | 0.6 (0.2–0.9) | 1.3 (0.6–2.9) | 1.1 (0.5–2.2) |
| **Cardiomyopathy and myocarditis** | | | | | | | |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | Under 5 | 5.98 (2.99–10.2) | 4.39 (2.17–7.68) | 10.4 (6.32–15.6) | 1.8 (0.9–3.1) | 1.4 (0.7–2.5) | 1.6 (1.0–2.4) |
| | 5 to 9 | 1.06 (0.600–1.68) | 0.875 (0.451–1.47) | 1.93 (1.27–2.82) | 0.3 (0.2–0.5) | 0.3 (0.1–0.4) | 0.3 (0.2–0.4) |
| | 10 to 14 | 1.10 (0.657–1.68) | 1.08 (0.574–1.85) | 2.18 (1.44–3.10) | 0.3 (0.2–0.5) | 0.3 (0.2–0.6) | 0.3 (0.2–0.5) |
| | 15 to 19 | 1.91 (1.21–3.00) | 1.03 (0.535–1.66) | 2.94 (1.99–4.15) | 0.6 (0.4–0.9) | 0.3 (0.2–0.5) | 0.5 (0.3–0.6) |
| | 20 to 24 | 2.22 (1.51–3.31) | 1.56 (0.830–2.51) | 3.78 (2.66–5.09) | 0.7 (0.5–1.1) | 0.5 (0.3–0.8) | 0.6 (0.4–0.8) |
| | 25 to 29 | 3.59 (2.60–5.27) | 2.49 (1.44–3.73) | 6.09 (4.41–8.30) | 1.2 (0.9–1.8) | 0.9 (0.5–1.3) | 1.0 (0.8–1.4) |
| | 30 to 34 | 6.64 (5.04–9.37) | 3.32 (2.05–5.01) | 9.97 (7.70–12.8) | 2.2 (1.7–3.1) | 1.1 (0.7–1.7) | 1.7 (1.3–2.2) |
| | 35 to 39 | 10.5 (8.66–13.5) | 4.43 (3.03–6.39) | 14.9 (12.2–18.1) | 3.6 (2.9–4.6) | 1.5 (1.1–2.2) | 2.6 (2.1–3.1) |
| | 40 to 44 | 14.1 (11.6–18.1) | 5.42 (3.74–7.46) | 19.6 (16.2–23.6) | 5.4 (4.4–6.9) | 2.1 (1.5–2.9) | 3.8 (3.1–4.6) |
| | 45 to 49 | 16.6 (13.9–20.8) | 5.75 (4.06–7.86) | 22.3 (19.0–26.3) | 6.9 (5.8–8.7) | 2.5 (1.7–3.4) | 4.7 (4.0–5.5) |
| | 50 to 54 | 18.7 (15.7–23.6) | 6.52 (4.69–8.69) | 25.2 (21.6–30.2) | 8.2 (6.9–10.4) | 2.9 (2.1–3.8) | 5.6 (4.7–6.7) |
| | 55 to 59 | 22.4 (18.2–28.3) | 8.46 (6.37–11.4) | 30.8 (25.7–36.5) | 11.0 (8.9–13.9) | 4.0 (3.0–5.4) | 7.5 (6.2–8.8) |
| | 60 to 64 | 24.3 (19.8–30.3) | 10.1 (7.35–13.4) | 34.4 (28.6–41.4) | 14.6 (11.9–18.2) | 5.7 (4.2–7.7) | 10.1 (8.4–12.1) |
| | 65 to 69 | 23.6 (19.2–29.6) | 10.9 (8.39–15.1) | 34.5 (28.9–41.0) | 17.1 (13.9–21.4) | 7.3 (5.6–10.0) | 12.0 (10.0–14.2) |
| | 70 to 74 | 20.3 (16.7–26.3) | 11.8 (8.91–15.5) | 32.1 (27.2–39.3) | 19.6 (16.1–25.2) | 9.9 (7.5–13.0) | 14.4 (12.2–17.7) |
| | 75 to 79 | 18.9 (15.5–23.6) | 14.0 (10.6–18.9) | 32.9 (27.4–38.5) | 28.6 (23.5–35.7) | 17.6 (13.3–23.7) | 22.6 (18.8–26.4) |
| | 80 to 84 | 18.8 (15.4–23.4) | 19.1 (14.5–24.8) | 37.9 (31.6–44.2) | 47.7 (39.1–59.2) | 35.7 (27.2–46.4) | 40.8 (34.1–47.6) |
| | 85 to 89 | 17.2 (13.8–21.4) | 21.6 (16.7–27.5) | 38.7 (31.4–45.3) | 86.6 (69.9–107.9) | 68.5 (53.0–87.3) | 75.5 (61.3–88.2) |
| | 90 to 94 | 9.77 (7.84–11.9) | 16.2 (12.2–20.4) | 26.0 (20.3–30.6) | 140.8 (112.9–171.8) | 122.4 (91.9–153.3) | 128.7 (100.2–151.5) |
| | 95 plus | 3.77 (2.88–4.70) | 9.52 (6.76–12.0) | 13.3 (9.88–16.1) | 207.4 (158.5–259.1) | 212.6 (151.0–267.9) | 211.1 (157.0–255.6) |
| **Myocarditis** | | | | | | | |
| | Under 5 | 1.15 (0.509–2.41) | 0.637 (0.261–1.41) | 1.79 (0.921–2.93) | 0.3 (0.2–0.7) | 0.2 (0.1–0.5) | 0.3 (0.1–0.5) |
| | 5 to 9 | 0.169 (0.0938–0.298) | 0.155 (0.0746–0.302) | 0.324 (0.196–0.503) | 0.05 (0.03–0.1) | 0.05 (0.02–0.1) | 0.05 (0.03–0.1) |
| | 10 to 14 | 0.197 (0.107–0.356) | 0.153 (0.0719–0.296) | 0.350 (0.220–0.530) | 0.1 (0.03–0.1) | 0.05 (0.02–0.1) | 0.1 (0.03–0.1) |
| | 15 to 19 | 0.223 (0.120–0.389) | 0.167 (0.0748–0.382) | 0.390 (0.237–0.635) | 0.1 (0.04–0.1) | 0.1 (0.02–0.1) | 0.1 (0.04–0.1) |
| | 20 to 24 | 0.229 (0.125–0.387) | 0.172 (0.0826–0.412) | 0.401 (0.241–0.653) | 0.1 (0.04–0.1) | 0.1 (0.03–0.1) | 0.1 (0.04–0.1) |
| | 25 to 29 | 0.288 (0.168–0.529) | 0.197 (0.0860–0.478) | 0.484 (0.295–0.816) | 0.1 (0.1–0.2) | 0.1 (0.03–0.2) | 0.1 (0.1–0.1) |
| | 30 to 34 | 0.350 (0.211–0.611) | 0.244 (0.0997–0.563) | 0.594 (0.372–0.962) | 0.1 (0.1–0.2) | 0.1 (0.03–0.2) | 0.1 (0.1–0.2) |
| | 35 to 39 | 0.453 (0.283–0.797) | 0.250 (0.122–0.555) | 0.702 (0.460–1.12) | 0.2 (0.1–0.3) | 0.1 (0.04–0.2) | 0.1 (0.1–0.2) |
| | 40 to 44 | 0.472 (0.302–0.808) | 0.248 (0.124–0.555) | 0.720 (0.464–1.16) | 0.2 (0.1–0.3) | 0.1 (0.05–0.2) | 0.1 (0.1–0.2) |
| | 45 to 49 | 0.443 (0.283–0.715) | 0.243 (0.123–0.535) | 0.686 (0.459–1.09) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 50 to 54 | 0.488 (0.307–0.784) | 0.272 (0.128–0.560) | 0.761 (0.479–1.11) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) | 0.2 (0.1–0.2) |
| | 55 to 59 | 0.499 (0.328–0.778) | 0.273 (0.133–0.513) | 0.772 (0.487–1.15) | 0.2 (0.2–0.4) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) |
| | 60 to 64 | 0.506 (0.340–0.788) | 0.292 (0.145–0.533) | 0.798 (0.522–1.19) | 0.3 (0.2–0.5) | 0.2 (0.1–0.3) | 0.2 (0.2–0.3) |
| | 65 to 69 | 0.571 (0.374–0.874) | 0.381 (0.189–0.733) | 0.953 (0.591–1.42) | 0.4 (0.3–0.6) | 0.3 (0.1–0.5) | 0.3 (0.2–0.5) |
| | 70 to 74 | 0.554 (0.350–0.841) | 0.433 (0.197–0.756) | 0.988 (0.607–1.40) | 0.5 (0.3–0.8) | 0.4 (0.2–0.6) | 0.4 (0.3–0.6) |
| | 75 to 79 | 0.562 (0.329–0.879) | 0.529 (0.246–0.874) | 1.09 (0.625–1.61) | 0.9 (0.5–1.3) | 0.7 (0.3–1.1) | 0.7 (0.4–1.1) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 80 to 84 | 0.700 (0.424–1.04) | 0.828 (0.444–1.32) | 1.53 (0.897–2.18) | 1.8 (1.1–2.6) | 1.5 (0.8–2.5) | 1.6 (1.0–2.3) |
| | 85 to 89 | 0.656 (0.378–1.02) | 1.01 (0.600–1.59) | 1.67 (1.05–2.31) | 3.3 (1.9–5.1) | 3.2 (1.9–5.1) | 3.2 (2.0–4.5) |
| | 90 to 94 | 0.476 (0.266–0.729) | 0.756 (0.444–1.21) | 1.23 (0.773–1.76) | 6.9 (3.8–10.5) | 5.7 (3.3–9.1) | 6.1 (3.8–8.7) |
| | 95 plus | 0.218 (0.109–0.352) | 0.498 (0.279–0.821) | 0.716 (0.404–1.09) | 12.0 (6.0–19.4) | 11.1 (6.2–18.3) | 11.4 (6.4–17.3) |
| **Alcoholic cardiomyopathy** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.0603 (0.0440–0.0948) | 0.0253 (0.0152–0.0489) | 0.0856 (0.0638–0.123) | 0.02 (0.01–0.03) | 0.008 (0.005–0.02) | 0.01 (0.01–0.02) |
| | 20 to 24 | 0.119 (0.0844–0.172) | 0.0450 (0.0313–0.0707) | 0.164 (0.127–0.234) | 0.04 (0.03–0.1) | 0.02 (0.01–0.02) | 0.03 (0.02–0.04) |
| | 25 to 29 | 0.400 (0.316–0.553) | 0.138 (0.102–0.185) | 0.538 (0.439–0.705) | 0.1 (0.1–0.2) | 0.05 (0.04–0.1) | 0.1 (0.1–0.1) |
| | 30 to 34 | 1.54 (1.30–1.88) | 0.409 (0.335–0.496) | 1.94 (1.69–2.33) | 0.5 (0.4–0.6) | 0.1 (0.1–0.2) | 0.3 (0.3–0.4) |
| | 35 to 39 | 3.33 (2.82–4.01) | 0.825 (0.698–0.996) | 4.16 (3.62–4.89) | 1.1 (1.0–1.4) | 0.3 (0.2–0.3) | 0.7 (0.6–0.8) |
| | 40 to 44 | 4.56 (4.00–5.24) | 1.08 (0.914–1.30) | 5.65 (5.06–6.36) | 1.7 (1.5–2.0) | 0.4 (0.4–0.5) | 1.1 (1.0–1.2) |
| | 45 to 49 | 5.69 (4.91–6.65) | 1.22 (1.04–1.47) | 6.91 (6.20–7.91) | 2.4 (2.1–2.8) | 0.5 (0.4–0.6) | 1.5 (1.3–1.7) |
| | 50 to 54 | 6.25 (5.47–7.25) | 1.30 (1.12–1.55) | 7.56 (6.80–8.63) | 2.7 (2.4–3.2) | 0.6 (0.5–0.7) | 1.7 (1.5–1.9) |
| | 55 to 59 | 6.73 (5.86–7.95) | 1.46 (1.25–1.74) | 8.19 (7.25–9.54) | 3.3 (2.9–3.9) | 0.7 (0.6–0.8) | 2.0 (1.8–2.3) |
| | 60 to 64 | 7.05 (6.27–8.06) | 1.49 (1.26–1.80) | 8.54 (7.79–9.61) | 4.2 (3.8–4.9) | 0.9 (0.7–1.0) | 2.5 (2.3–2.8) |
| | 65 to 69 | 5.93 (5.18–7.08) | 1.23 (1.02–1.51) | 7.16 (6.41–8.21) | 4.3 (3.7–5.1) | 0.8 (0.7–1.0) | 2.5 (2.2–2.8) |
| | 70 to 74 | 3.57 (3.06–4.30) | 0.736 (0.600–0.938) | 4.30 (3.77–5.04) | 3.4 (2.9–4.1) | 0.6 (0.5–0.8) | 1.9 (1.7–2.3) |
| | 75 to 79 | 2.40 (2.04–2.97) | 0.534 (0.432–0.690) | 2.93 (2.54–3.51) | 3.6 (3.1–4.5) | 0.7 (0.5–0.9) | 2.0 (1.7–2.4) |
| | 80 to 84 | 1.24 (0.959–1.63) | 0.397 (0.283–0.538) | 1.64 (1.33–2.07) | 3.1 (2.4–4.1) | 0.7 (0.5–1.0) | 1.8 (1.4–2.2) |
| | 85 to 89 | 0.924 (0.727–1.16) | 0.423 (0.297–0.609) | 1.35 (1.09–1.64) | 4.7 (3.7–5.8) | 1.3 (0.9–1.9) | 2.6 (2.1–3.2) |
| | 90 to 94 | 0.511 (0.392–0.650) | 0.328 (0.229–0.457) | 0.839 (0.651–1.05) | 7.4 (5.6–9.4) | 2.5 (1.7–3.4) | 4.1 (3.2–5.2) |
| | 95 plus | 0.206 (0.152–0.265) | 0.150 (0.102–0.206) | 0.356 (0.266–0.446) | 11.3 (8.4–14.6) | 3.3 (2.3–4.6) | 5.6 (4.2–7.1) |
| **Other cardiomyopathy** | | | | | | | |
| | Under 5 | 4.83 (2.34–8.24) | 3.75 (1.82–6.57) | 8.57 (5.24–13.0) | 1.5 (0.7–2.5) | 1.2 (0.6–2.1) | 1.3 (0.8–2.0) |
| | 5 to 9 | 0.887 (0.467–1.45) | 0.720 (0.352–1.26) | 1.61 (1.04–2.44) | 0.2 (0.1–0.4) | 0.2 (0.1–0.4) | 0.2 (0.1–0.3) |
| | 10 to 14 | 0.899 (0.520–1.44) | 0.929 (0.467–1.63) | 1.83 (1.17–2.71) | 0.3 (0.1–0.4) | 0.3 (0.1–0.5) | 0.3 (0.2–0.4) |
| | 15 to 19 | 1.63 (1.00–2.54) | 0.837 (0.441–1.44) | 2.47 (1.63–3.53) | 0.5 (0.3–0.8) | 0.3 (0.1–0.5) | 0.4 (0.3–0.5) |
| | 20 to 24 | 1.87 (1.25–2.79) | 1.34 (0.701–2.20) | 3.21 (2.19–4.39) | 0.6 (0.4–0.9) | 0.5 (0.2–0.7) | 0.5 (0.4–0.7) |
| | 25 to 29 | 2.91 (2.00–4.33) | 2.16 (1.20–3.35) | 5.06 (3.57–7.05) | 1.0 (0.7–1.5) | 0.7 (0.4–1.2) | 0.9 (0.6–1.2) |
| | 30 to 34 | 4.76 (3.36–7.02) | 2.67 (1.57–4.17) | 7.43 (5.40–9.92) | 1.6 (1.1–2.3) | 0.9 (0.5–1.4) | 1.2 (0.9–1.7) |
| | 35 to 39 | 6.73 (5.21–9.35) | 3.35 (2.12–5.23) | 10.1 (7.77–12.8) | 2.3 (1.8–3.2) | 1.2 (0.7–1.8) | 1.7 (1.3–2.2) |
| | 40 to 44 | 9.10 (7.00–12.6) | 4.09 (2.59–6.07) | 13.2 (10.2–16.7) | 3.5 (2.7–4.8) | 1.6 (1.0–2.4) | 2.6 (2.0–3.2) |
| | 45 to 49 | 10.4 (8.00–14.0) | 4.28 (2.78–6.32) | 14.7 (11.7–18.5) | 4.4 (3.3–5.9) | 1.8 (1.2–2.7) | 3.1 (2.5–3.9) |

| Cause Names | Age Group | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| | 50 to 54 | 12.0 (9.32–16.1) | 4.95 (3.29–7.16) | 16.9 (13.5–21.1) | 5.3 (4.1–7.1) | 2.2 (1.5–3.2) | 3.7 (3.0–4.6) |
| | 55 to 59 | 15.1 (11.4–20.7) | 6.73 (4.74–9.61) | 21.9 (17.0–27.2) | 7.4 (5.6–10.1) | 3.2 (2.3–4.6) | 5.3 (4.1–6.6) |
| | 60 to 64 | 16.7 (12.5–22.0) | 8.28 (5.76–11.6) | 25.0 (19.6–31.6) | 10.1 (7.5–13.3) | 4.7 (3.3–6.6) | 7.3 (5.7–9.3) |
| | 65 to 69 | 17.1 (12.9–23.3) | 9.31 (6.94–13.5) | 26.4 (21.0–32.8) | 12.4 (9.4–16.8) | 6.2 (4.6–9.0) | 9.2 (7.3–11.4) |
| | 70 to 74 | 16.2 (12.7–21.8) | 10.6 (7.77–14.3) | 26.8 (22.2–33.2) | 15.6 (12.2–21.0) | 8.9 (6.5–12.0) | 12.0 (10.0–14.9) |
| | 75 to 79 | 15.9 (12.6–20.2) | 12.9 (9.69–17.8) | 28.8 (23.6–34.5) | 24.1 (19.1–30.5) | 16.2 (12.2–22.3) | 19.8 (16.2–23.7) |
| | 80 to 84 | 16.9 (13.5–21.1) | 17.8 (13.3–23.4) | 34.7 (28.8–40.7) | 42.8 (34.3–53.5) | 33.4 (25.0–43.9) | 37.4 (31.0–43.8) |
| | 85 to 89 | 15.6 (12.5–19.3) | 20.1 (15.5–25.9) | 35.7 (29.0–42.0) | 78.6 (63.3–97.5) | 63.9 (49.3–82.4) | 69.6 (56.5–81.9) |
| | 90 to 94 | 8.79 (7.05–10.6) | 15.2 (11.4–19.1) | 23.9 (18.6–28.4) | 126.6 (101.6–153.3) | 114.2 (85.7–143.5) | 118.5 (91.8–140.5) |
| | 95 plus | 3.34 (2.57–4.16) | 8.87 (6.30–11.1) | 12.2 (9.01–14.8) | 184.1 (141.8–229.1) | 198.2 (140.6–248.7) | 194.1 (143.2–235.7) |
| **Pulmonary Arterial Hypertension** | | | | | | | |
| | Under 5 | 0.893 (0.364–1.78) | 0.581 (0.254–1.03) | 1.47 (0.783–2.55) | 0.3 (0.1–0.5) | 0.2 (0.1–0.3) | 0.2 (0.1–0.4) |
| | 5 to 9 | 0.109 (0.0497–0.240) | 0.104 (0.0467–0.205) | 0.213 (0.112–0.389) | 0.03 (0.01–0.1) | 0.03 (0.01–0.1) | 0.03 (0.02–0.1) |
| | 10 to 14 | 0.123 (0.0585–0.266) | 0.121 (0.0582–0.232) | 0.245 (0.137–0.444) | 0.04 (0.02–0.1) | 0.04 (0.02–0.1) | 0.04 (0.02–0.1) |
| | 15 to 19 | 0.148 (0.0697–0.304) | 0.229 (0.105–0.428) | 0.377 (0.217–0.636) | 0.04 (0.02–0.1) | 0.1 (0.03–0.1) | 0.1 (0.03–0.1) |
| | 20 to 24 | 0.160 (0.0775–0.302) | 0.253 (0.121–0.463) | 0.413 (0.255–0.689) | 0.1 (0.03–0.1) | 0.1 (0.04–0.2) | 0.1 (0.04–0.1) |
| | 25 to 29 | 0.186 (0.101–0.336) | 0.310 (0.158–0.554) | 0.496 (0.315–0.819) | 0.1 (0.03–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 30 to 34 | 0.182 (0.104–0.319) | 0.325 (0.177–0.582) | 0.506 (0.333–0.780) | 0.1 (0.03–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 35 to 39 | 0.217 (0.131–0.354) | 0.346 (0.202–0.544) | 0.563 (0.382–0.830) | 0.1 (0.04–0.1) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) |
| | 40 to 44 | 0.314 (0.200–0.491) | 0.433 (0.253–0.741) | 0.747 (0.532–1.09) | 0.1 (0.1–0.2) | 0.2 (0.1–0.3) | 0.1 (0.1–0.2) |
| | 45 to 49 | 0.244 (0.160–0.370) | 0.346 (0.212–0.562) | 0.590 (0.431–0.843) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 50 to 54 | 0.362 (0.246–0.507) | 0.456 (0.293–0.694) | 0.818 (0.609–1.15) | 0.2 (0.1–0.2) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) |
| | 55 to 59 | 0.512 (0.353–0.711) | 0.592 (0.410–0.919) | 1.10 (0.828–1.51) | 0.3 (0.2–0.3) | 0.3 (0.2–0.4) | 0.3 (0.2–0.4) |
| | 60 to 64 | 0.645 (0.425–0.939) | 0.658 (0.456–0.981) | 1.30 (0.988–1.81) | 0.4 (0.3–0.6) | 0.4 (0.3–0.6) | 0.4 (0.3–0.5) |
| | 65 to 69 | 0.850 (0.577–1.17) | 0.909 (0.626–1.34) | 1.76 (1.34–2.36) | 0.6 (0.4–0.8) | 0.6 (0.4–0.9) | 0.6 (0.5–0.8) |
| | 70 to 74 | 1.04 (0.693–1.47) | 1.08 (0.757–1.54) | 2.12 (1.58–2.79) | 1.0 (0.7–1.4) | 0.9 (0.6–1.3) | 1.0 (0.7–1.3) |
| | 75 to 79 | 1.10 (0.735–1.55) | 1.33 (0.926–1.92) | 2.43 (1.83–3.38) | 1.7 (1.1–2.3) | 1.7 (1.2–2.4) | 1.7 (1.3–2.3) |
| | 80 to 84 | 1.19 (0.767–1.73) | 1.52 (1.03–2.33) | 2.71 (1.91–3.69) | 3.0 (1.9–4.4) | 2.9 (1.9–4.4) | 2.9 (2.1–4.0) |
| | 85 to 89 | 0.962 (0.629–1.36) | 1.55 (1.09–2.20) | 2.52 (1.83–3.38) | 4.9 (3.2–6.8) | 4.9 (3.5–7.0) | 4.9 (3.6–6.6) |
| | 90 to 94 | 0.505 (0.350–0.692) | 1.11 (0.768–1.58) | 1.62 (1.16–2.15) | 7.3 (5.0–10.0) | 8.4 (5.8–11.9) | 8.0 (5.7–10.6) |
| | 95 plus | 0.161 (0.117–0.205) | 0.616 (0.403–0.851) | 0.776 (0.528–1.04) | 8.9 (6.4–11.3) | 13.7 (9.0–19.0) | 12.3 (8.4–16.5) |
| **Atrial fibrillation and flutter** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | 0.0977 (0.0680–0.143) | 0.0690 (0.0423–0.111) | 0.167 (0.124–0.222) | 0.03 (0.02–0.05) | 0.02 (0.01–0.04) | 0.03 (0.02–0.04) |
| | 35 to 39 | 0.150 (0.108–0.203) | 0.0982 (0.0639–0.150) | 0.248 (0.186–0.315) | 0.1 (0.04–0.1) | 0.03 (0.02–0.1) | 0.04 (0.03–0.1) |
| | 40 to 44 | 0.385 (0.291–0.504) | 0.277 (0.180–0.425) | 0.662 (0.527–0.840) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) | 0.1 (0.1–0.2) |
| | 45 to 49 | 0.874 (0.701–1.10) | 0.625 (0.410–0.955) | 1.50 (1.21–1.87) | 0.4 (0.3–0.5) | 0.3 (0.2–0.4) | 0.3 (0.3–0.4) |
| | 50 to 54 | 1.55 (1.33–1.80) | 1.11 (0.888–1.43) | 2.66 (2.33–3.07) | 0.7 (0.6–0.8) | 0.5 (0.4–0.6) | 0.6 (0.5–0.7) |
| | 55 to 59 | 2.84 (2.47–3.26) | 2.17 (1.83–2.72) | 5.01 (4.52–5.64) | 1.4 (1.2–1.6) | 1.0 (0.9–1.3) | 1.2 (1.1–1.4) |
| | 60 to 64 | 4.73 (4.23–5.31) | 3.88 (3.33–4.64) | 8.61 (7.78–9.54) | 2.8 (2.5–3.2) | 2.2 (1.9–2.6) | 2.5 (2.3–2.8) |
| | 65 to 69 | 7.14 (6.43–8.04) | 6.43 (5.53–7.59) | 13.6 (12.4–14.8) | 5.2 (4.7–5.8) | 4.3 (3.7–5.1) | 4.7 (4.3–5.1) |
| | 70 to 74 | 12.2 (10.9–13.5) | 12.4 (10.6–14.5) | 24.6 (22.4–27.1) | 11.7 (10.5–13.0) | 10.5 (8.9–12.2) | 11.1 (10.1–12.2) |
| | 75 to 79 | 17.5 (15.6–19.4) | 20.5 (17.4–23.6) | 38.0 (34.0–42.2) | 26.5 (23.6–29.3) | 25.8 (21.8–29.7) | 26.1 (23.3–29.0) |
| | 80 to 84 | 29.7 (25.9–33.0) | 41.7 (34.2–48.7) | 71.4 (61.8–79.2) | 75.4 (65.7–83.6) | 78.1 (64.0–91.1) | 76.9 (66.6–85.3) |
| | 85 to 89 | 32.6 (28.3–36.8) | 56.6 (44.3–67.1) | 89.2 (73.7–101) | 164.8 (142.7–185.7) | 179.8 (140.7–213.2) | 174.0 (143.7–197.9) |
| | 90 to 94 | 26.5 (21.8–29.8) | 56.2 (41.8–67.8) | 82.7 (65.0–96.3) | 382.1 (314.7–429.0) | 423.0 (314.9–510.4) | 409.0 (321.5–476.5) |
| | 95 plus | 11.6 (9.09–13.6) | 27.7 (19.1–34.2) | 39.2 (28.4–46.7) | 636.2 (500.9–748.1) | 618.0 (426.7–764.6) | 623.2 (450.9–742.5) |
| **Aortic aneurysm** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | 0.181 (0.117–0.287) | 0.0941 (0.0570–0.144) | 0.275 (0.198–0.382) | 0.1 (0.04–0.1) | 0.03 (0.02–0.05) | 0.04 (0.03–0.1) |
| | 20 to 24 | 0.289 (0.197–0.441) | 0.151 (0.0921–0.223) | 0.441 (0.330–0.612) | 0.1 (0.1–0.1) | 0.1 (0.03–0.1) | 0.1 (0.1–0.1) |
| | 25 to 29 | 0.444 (0.331–0.628) | 0.200 (0.133–0.282) | 0.644 (0.507–0.841) | 0.1 (0.1–0.2) | 0.1 (0.05–0.1) | 0.1 (0.1–0.1) |
| | 30 to 34 | 0.872 (0.665–1.21) | 0.322 (0.233–0.440) | 1.19 (0.971–1.50) | 0.3 (0.2–0.4) | 0.1 (0.1–0.1) | 0.2 (0.2–0.3) |
| | 35 to 39 | 1.44 (1.17–1.86) | 0.467 (0.344–0.621) | 1.91 (1.58–2.34) | 0.5 (0.4–0.6) | 0.2 (0.1–0.2) | 0.3 (0.3–0.4) |
| | 40 to 44 | 2.29 (1.91–2.91) | 0.682 (0.523–0.886) | 2.97 (2.52–3.55) | 0.9 (0.7–1.1) | 0.3 (0.2–0.3) | 0.6 (0.5–0.7) |
| | 45 to 49 | 3.30 (2.80–3.91) | 1.02 (0.802–1.27) | 4.32 (3.77–4.96) | 1.4 (1.2–1.6) | 0.4 (0.3–0.5) | 0.9 (0.8–1.0) |
| | 50 to 54 | 4.76 (4.03–5.59) | 1.54 (1.26–1.87) | 6.30 (5.49–7.16) | 2.1 (1.8–2.5) | 0.7 (0.6–0.8) | 1.4 (1.2–1.6) |
| | 55 to 59 | 6.70 (5.91–7.71) | 2.23 (1.88–2.71) | 8.94 (7.95–10.0) | 3.3 (2.9–3.8) | 1.1 (0.9–1.3) | 2.2 (1.9–2.4) |
| | 60 to 64 | 9.60 (8.42–11.3) | 3.45 (2.95–4.02) | 13.1 (11.7–14.9) | 5.8 (5.1–6.8) | 2.0 (1.7–2.3) | 3.8 (3.4–4.4) |
| | 65 to 69 | 12.7 (11.2–14.7) | 5.20 (4.48–6.02) | 17.9 (16.0–20.1) | 9.2 (8.1–10.7) | 3.5 (3.0–4.0) | 6.2 (5.6–7.0) |
| | 70 to 74 | 14.8 (13.4–16.8) | 7.21 (6.23–8.25) | 22.0 (19.8–24.4) | 14.2 (12.8–16.1) | 6.1 (5.2–7.0) | 9.9 (8.9–10.9) |
| | 75 to 79 | 14.7 (13.1–16.7) | 8.70 (7.50–10.0) | 23.4 (21.0–26.1) | 22.2 (19.8–25.2) | 10.9 (9.4–12.5) | 16.1 (14.4–17.9) |
| | 80 to 84 | 13.4 (11.6–15.1) | 9.99 (8.05–11.6) | 23.4 (20.0–26.1) | 34.0 (29.4–38.2) | 18.7 (15.1–21.8) | 25.2 (21.5–28.1) |
| | 85 to 89 | 10.8 (9.26–12.2) | 10.6 (7.91–12.3) | 21.5 (17.4–24.5) | 54.8 (46.8–61.8) | 33.7 (25.1–39.0) | 41.8 (33.9–47.8) |
| | 90 to 94 | 5.68 (4.71–6.44) | 7.65 (5.33–9.11) | 13.3 (10.3–15.3) | 81.7 (67.9–92.8) | 57.6 (40.2–68.6) | 65.9 (51.0–75.7) |
| | 95 plus | 1.71 (1.34–1.98) | 4.14 (2.64–5.13) | 5.84 (3.99–6.99) | 94.1 (73.6–108.8) | 92.4 (59.0–114.7) | 92.9 (63.4–111.0) |

| Cause Names | Age Group | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| | | Males | Females | Both sexes | Males | Females | Both sexes |
| **Lower extremity peripheral arterial disease** | | | | | | | |
| | Under 5 | -- | -- | -- | -- | -- | -- |
| | 5 to 9 | -- | -- | -- | -- | -- | -- |
| | 10 to 14 | -- | -- | -- | -- | -- | -- |
| | 15 to 19 | -- | -- | -- | -- | -- | -- |
| | 20 to 24 | -- | -- | -- | -- | -- | -- |
| | 25 to 29 | -- | -- | -- | -- | -- | -- |
| | 30 to 34 | -- | -- | -- | -- | -- | -- |
| | 35 to 39 | -- | -- | -- | -- | -- | -- |
| | 40 to 44 | 0.223 (0.163–0.319) | 0.142 (0.0983–0.206) | 0.364 (0.285–0.465) | 0.1 (0.1–0.1) | 0.1 (0.04–0.1) | 0.1 (0.1–0.1) |
| | 45 to 49 | 0.343 (0.274–0.441) | 0.210 (0.156–0.292) | 0.553 (0.461–0.661) | 0.1 (0.1–0.2) | 0.1 (0.1–0.1) | 0.1 (0.1–0.1) |
| | 50 to 54 | 0.828 (0.673–1.04) | 0.401 (0.297–0.535) | 1.23 (1.04–1.45) | 0.4 (0.3–0.5) | 0.2 (0.1–0.2) | 0.3 (0.2–0.3) |
| | 55 to 59 | 1.56 (1.29–1.91) | 0.667 (0.539–0.839) | 2.22 (1.93–2.58) | 0.8 (0.6–0.9) | 0.3 (0.3–0.4) | 0.5 (0.5–0.6) |
| | 60 to 64 | 3.09 (2.67–3.58) | 1.26 (1.06–1.54) | 4.35 (3.89–4.87) | 1.9 (1.6–2.2) | 0.7 (0.6–0.9) | 1.3 (1.1–1.4) |
| | 65 to 69 | 4.54 (3.96–5.30) | 1.95 (1.67–2.32) | 6.49 (5.87–7.21) | 3.3 (2.9–3.8) | 1.3 (1.1–1.5) | 2.3 (2.0–2.5) |
| | 70 to 74 | 5.61 (4.94–6.47) | 2.87 (2.51–3.32) | 8.49 (7.70–9.38) | 5.4 (4.8–6.2) | 2.4 (2.1–2.8) | 3.8 (3.5–4.2) |
| | 75 to 79 | 5.99 (5.20–7.07) | 4.05 (3.49–4.63) | 10.0 (8.96–11.2) | 9.1 (7.9–10.7) | 5.1 (4.4–5.8) | 6.9 (6.1–7.7) |
| | 80 to 84 | 6.12 (5.34–7.14) | 5.89 (4.93–6.86) | 12.0 (10.4–13.4) | 15.5 (13.5–18.1) | 11.0 (9.2–12.8) | 12.9 (11.2–14.4) |
| | 85 to 89 | 5.62 (4.92–6.55) | 7.49 (5.98–8.64) | 13.1 (11.1–14.7) | 28.4 (24.8–33.1) | 23.8 (19.0–27.4) | 25.6 (21.6–28.7) |
| | 90 to 94 | 3.54 (2.98–4.09) | 6.74 (5.16–7.77) | 10.3 (8.18–11.7) | 51.1 (42.9–59.0) | 50.8 (38.8–58.5) | 50.9 (40.4–57.9) |
| | 95 plus | 1.41 (1.10–1.67) | 4.33 (3.14–5.11) | 5.73 (4.26–6.67) | 77.5 (60.8–92.2) | 96.6 (70.2–114.0) | 91.1 (67.7–106.1) |
| **Endocarditis** | | | | | | | |
| | Under 5 | 0.823 (0.388–1.67) | 0.606 (0.281–1.19) | 1.43 (0.875–2.33) | 0.2 (0.1–0.5) | 0.2 (0.1–0.4) | 0.2 (0.1–0.4) |
| | 5 to 9 | 0.156 (0.0889–0.282) | 0.220 (0.0976–0.415) | 0.376 (0.225–0.612) | 0.04 (0.02–0.1) | 0.1 (0.03–0.1) | 0.1 (0.03–0.1) |
| | 10 to 14 | 0.312 (0.170–0.531) | 0.314 (0.151–0.553) | 0.626 (0.393–0.938) | 0.1 (0.05–0.2) | 0.1 (0.05–0.2) | 0.1 (0.1–0.1) |
| | 15 to 19 | 0.522 (0.313–0.850) | 0.564 (0.294–0.954) | 1.09 (0.732–1.56) | 0.2 (0.1–0.3) | 0.2 (0.1–0.3) | 0.2 (0.1–0.2) |
| | 20 to 24 | 0.726 (0.468–1.16) | 0.735 (0.403–1.19) | 1.46 (1.01–2.08) | 0.2 (0.2–0.4) | 0.2 (0.1–0.4) | 0.2 (0.2–0.3) |
| | 25 to 29 | 1.02 (0.691–1.48) | 0.877 (0.548–1.35) | 1.90 (1.37–2.57) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) | 0.3 (0.2–0.4) |
| | 30 to 34 | 1.50 (1.02–2.33) | 1.06 (0.677–1.53) | 2.56 (1.87–3.44) | 0.5 (0.3–0.8) | 0.4 (0.2–0.5) | 0.4 (0.3–0.6) |
| | 35 to 39 | 1.80 (1.31–2.76) | 1.09 (0.698–1.65) | 2.89 (2.21–3.87) | 0.6 (0.4–0.9) | 0.4 (0.2–0.6) | 0.5 (0.4–0.7) |
| | 40 to 44 | 2.08 (1.48–2.91) | 1.32 (0.873–1.97) | 3.40 (2.63–4.28) | 0.8 (0.6–1.1) | 0.5 (0.3–0.8) | 0.7 (0.5–0.8) |
| | 45 to 49 | 2.10 (1.56–2.86) | 1.25 (0.872–1.80) | 3.35 (2.72–4.21) | 0.9 (0.7–1.2) | 0.5 (0.4–0.8) | 0.7 (0.6–0.9) |
| | 50 to 54 | 2.33 (1.80–3.17) | 1.48 (1.06–2.11) | 3.81 (3.19–4.69) | 1.0 (0.8–1.4) | 0.7 (0.5–0.9) | 0.8 (0.7–1.0) |
| | 55 to 59 | 2.74 (2.18–3.62) | 1.76 (1.34–2.38) | 4.50 (3.83–5.52) | 1.3 (1.1–1.8) | 0.8 (0.6–1.1) | 1.1 (0.9–1.3) |
| | 60 to 64 | 3.20 (2.62–4.12) | 2.12 (1.69–2.75) | 5.32 (4.58–6.38) | 1.9 (1.6–2.5) | 1.2 (1.0–1.6) | 1.6 (1.3–1.9) |
| | 65 to 69 | 3.61 (3.05–4.57) | 2.67 (2.17–3.34) | 6.28 (5.55–7.41) | 2.6 (2.2–3.3) | 1.8 (1.4–2.2) | 2.2 (1.9–2.6) |

| | | Deaths count (thousands) | | | Deaths age-standardized rate (per 100,000) | | |
|---|---|---|---|---|---|---|---|
| **Cause Names** | **Age Group** | **Males** | **Females** | **Both sexes** | **Males** | **Females** | **Both sexes** |
| | 70 to 74 | 3.94 (3.30–4.81) | 3.09 (2.59–3.81) | 7.03 (6.17–8.14) | 3.8 (3.2–4.6) | 2.6 (2.2–3.2) | 3.2 (2.8–3.7) |
| | 75 to 79 | 4.08 (3.51–4.93) | 3.76 (3.14–4.52) | 7.83 (6.94–8.86) | 6.2 (5.3–7.5) | 4.7 (3.9–5.7) | 5.4 (4.8–6.1) |
| | 80 to 84 | 4.21 (3.68–4.82) | 4.98 (3.93–5.85) | 9.18 (7.75–10.3) | 10.7 (9.3–12.2) | 9.3 (7.4–11.0) | 9.9 (8.3–11.1) |
| | 85 to 89 | 4.11 (3.47–4.76) | 6.14 (4.64–7.15) | 10.3 (8.09–11.6) | 20.8 (17.5–24.0) | 19.5 (14.7–22.7) | 20.0 (15.8–22.6) |
| | 90 to 94 | 2.66 (2.18–3.05) | 5.73 (4.11–6.84) | 8.39 (6.31–9.69) | 38.4 (31.4–43.9) | 43.2 (30.9–51.5) | 41.5 (31.2–47.9) |
| | 95 plus | 0.993 (0.795–1.18) | 3.55 (2.43–4.34) | 4.55 (3.29–5.38) | 54.7 (43.8–65.1) | 79.4 (54.3–96.8) | 72.3 (52.3–85.5) |
| **Other cardiovascular and circulatory diseases** | | | | | | | |
| | Under 5 | 4.07 (2.17–6.34) | 3.51 (1.87–5.94) | 7.59 (4.84–11.0) | 1.2 (0.7–1.9) | 1.1 (0.6–1.9) | 1.2 (0.8–1.7) |
| | 5 to 9 | 1.29 (0.733–1.96) | 1.13 (0.639–1.86) | 2.42 (1.59–3.33) | 0.4 (0.2–0.5) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) |
| | 10 to 14 | 2.00 (1.20–2.86) | 1.84 (1.06–2.89) | 3.84 (2.56–5.24) | 0.6 (0.3–0.8) | 0.6 (0.3–0.9) | 0.6 (0.4–0.8) |
| | 15 to 19 | 0.955 (0.538–1.55) | 0.934 (0.522–1.62) | 1.89 (1.20–2.70) | 0.3 (0.2–0.5) | 0.3 (0.2–0.5) | 0.3 (0.2–0.4) |
| | 20 to 24 | 1.14 (0.699–1.70) | 1.39 (0.801–2.32) | 2.53 (1.67–3.69) | 0.4 (0.2–0.6) | 0.5 (0.3–0.8) | 0.4 (0.3–0.6) |
| | 25 to 29 | 1.69 (1.04–2.56) | 1.68 (1.01–2.66) | 3.37 (2.26–4.73) | 0.6 (0.4–0.9) | 0.6 (0.3–0.9) | 0.6 (0.4–0.8) |
| | 30 to 34 | 2.59 (1.62–3.83) | 2.89 (1.75–4.66) | 5.48 (3.71–7.79) | 0.9 (0.5–1.3) | 1.0 (0.6–1.6) | 0.9 (0.6–1.3) |
| | 35 to 39 | 3.25 (2.26–4.56) | 2.76 (1.82–4.01) | 6.01 (4.50–7.98) | 1.1 (0.8–1.5) | 1.0 (0.6–1.4) | 1.0 (0.8–1.4) |
| | 40 to 44 | 4.58 (3.22–6.08) | 3.58 (2.42–5.22) | 8.16 (6.18–10.3) | 1.8 (1.2–2.3) | 1.4 (0.9–2.0) | 1.6 (1.2–2.0) |
| | 45 to 49 | 5.17 (3.90–6.87) | 4.13 (2.94–6.06) | 9.30 (7.28–11.7) | 2.2 (1.6–2.9) | 1.8 (1.3–2.6) | 2.0 (1.5–2.5) |
| | 50 to 54 | 6.48 (5.15–8.38) | 5.43 (3.86–7.65) | 11.9 (9.63–14.9) | 2.8 (2.3–3.7) | 2.4 (1.7–3.4) | 2.6 (2.1–3.3) |
| | 55 to 59 | 8.50 (6.67–10.8) | 6.47 (4.87–9.12) | 15.0 (12.2–18.1) | 4.2 (3.3–5.3) | 3.1 (2.3–4.3) | 3.6 (2.9–4.4) |
| | 60 to 64 | 10.8 (8.82–13.5) | 9.47 (7.11–13.3) | 20.3 (16.8–24.5) | 6.5 (5.3–8.1) | 5.4 (4.1–7.6) | 5.9 (4.9–7.2) |
| | 65 to 69 | 12.9 (10.5–16.7) | 11.2 (8.65–15.8) | 24.1 (20.2–29.3) | 9.3 (7.6–12.1) | 7.5 (5.8–10.6) | 8.4 (7.0–10.2) |
| | 70 to 74 | 14.1 (11.5–17.7) | 13.6 (10.5–18.3) | 27.6 (23.3–33.2) | 13.5 (11.0–17.0) | 11.4 (8.8–15.4) | 12.4 (10.5–14.9) |
| | 75 to 79 | 14.9 (12.1–18.7) | 15.4 (12.0–20.2) | 30.3 (25.2–35.9) | 22.6 (18.2–28.4) | 19.3 (15.0–25.4) | 20.8 (17.3–24.7) |
| | 80 to 84 | 13.3 (10.7–16.3) | 17.7 (13.7–22.8) | 31.0 (25.9–36.9) | 33.8 (27.1–41.3) | 33.2 (25.6–42.7) | 33.4 (27.9–39.7) |
| | 85 to 89 | 10.8 (8.88–13.3) | 17.6 (13.6–22.3) | 28.4 (23.1–34.1) | 54.5 (44.8–67.2) | 55.9 (43.1–70.9) | 55.3 (45.1–66.4) |
| | 90 to 94 | 5.92 (4.77–7.27) | 12.3 (8.98–15.1) | 18.2 (14.0–21.4) | 85.3 (68.6–104.7) | 92.5 (67.7–113.6) | 90.0 (69.3–105.9) |
| | 95 plus | 2.06 (1.55–2.56) | 6.39 (4.44–7.75) | 8.46 (6.15–10.0) | 113.6 (85.2–140.9) | 142.8 (99.2–173.1) | 134.3 (97.8–159.2) |

# Section 2: Appendix figures

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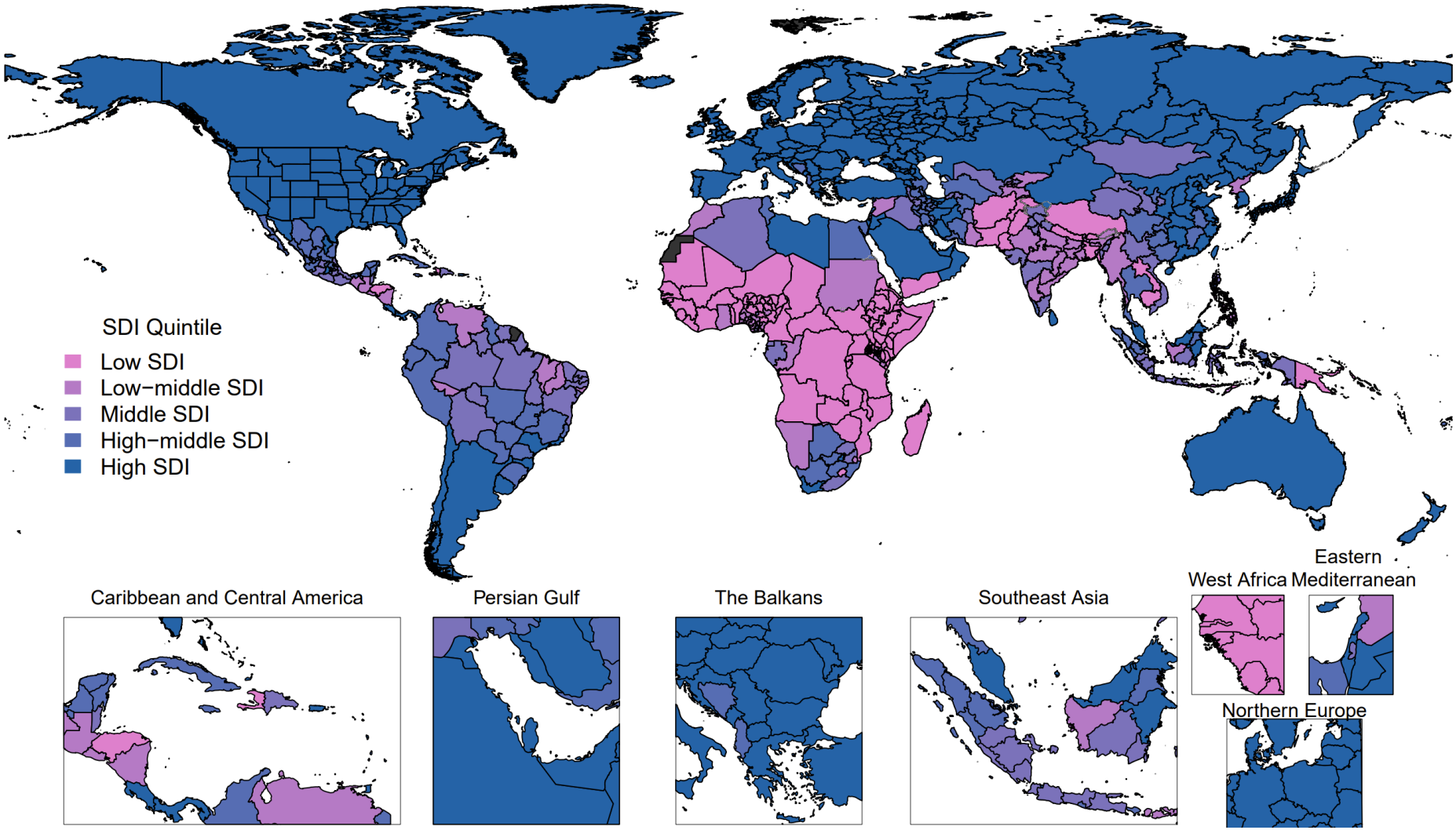
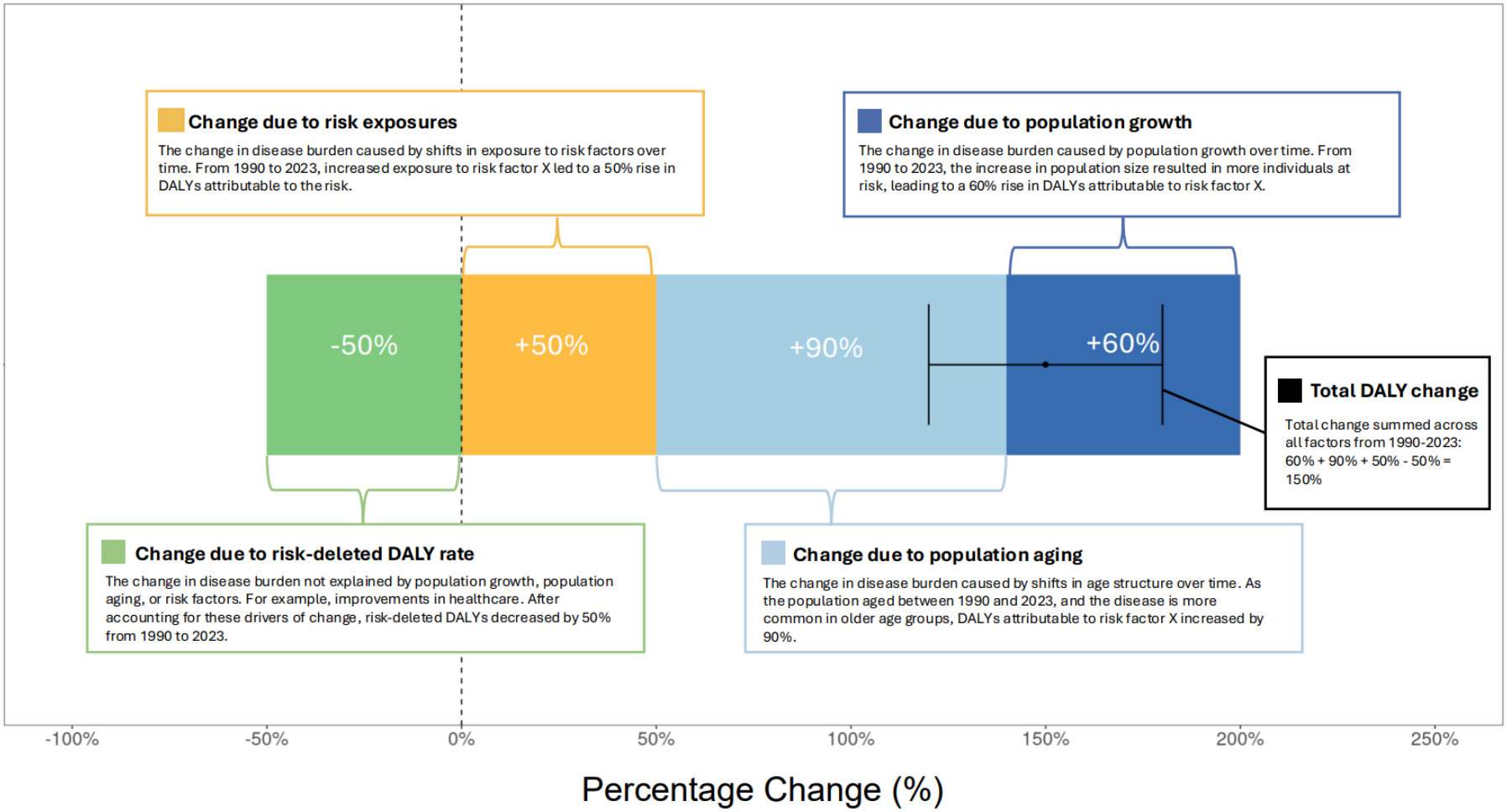
**Figure S1. Socio-Demographic Index (SDI) quintiles by GBD subnational locations, 2023**



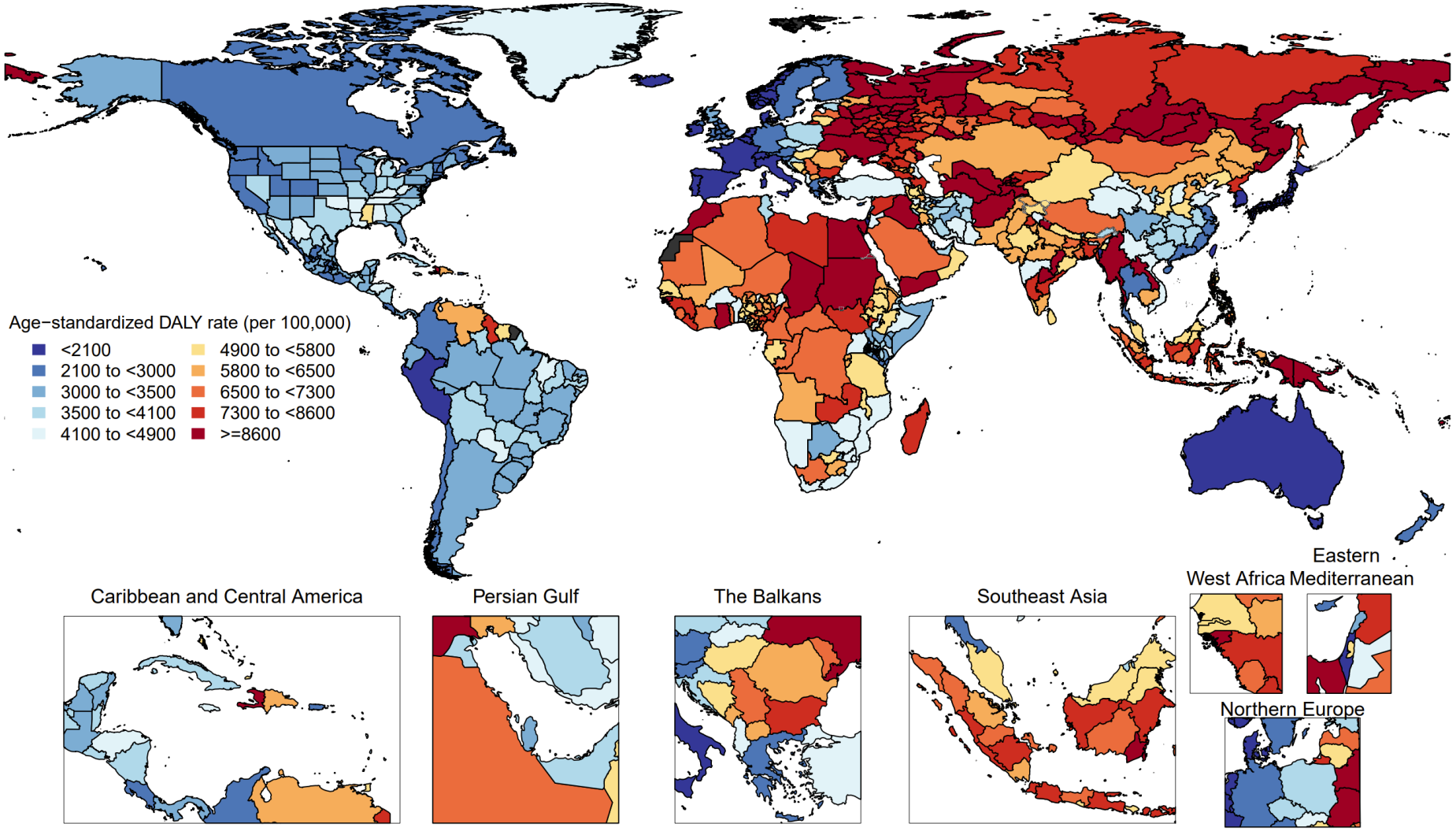

*Quintiles of socio-demographic index (SDI, ranging from 0-1), a composite indicator of fertility, income, and education.*

**Figure S2. Interpretation of percentage change in the number of global risk-attributable DALYs**



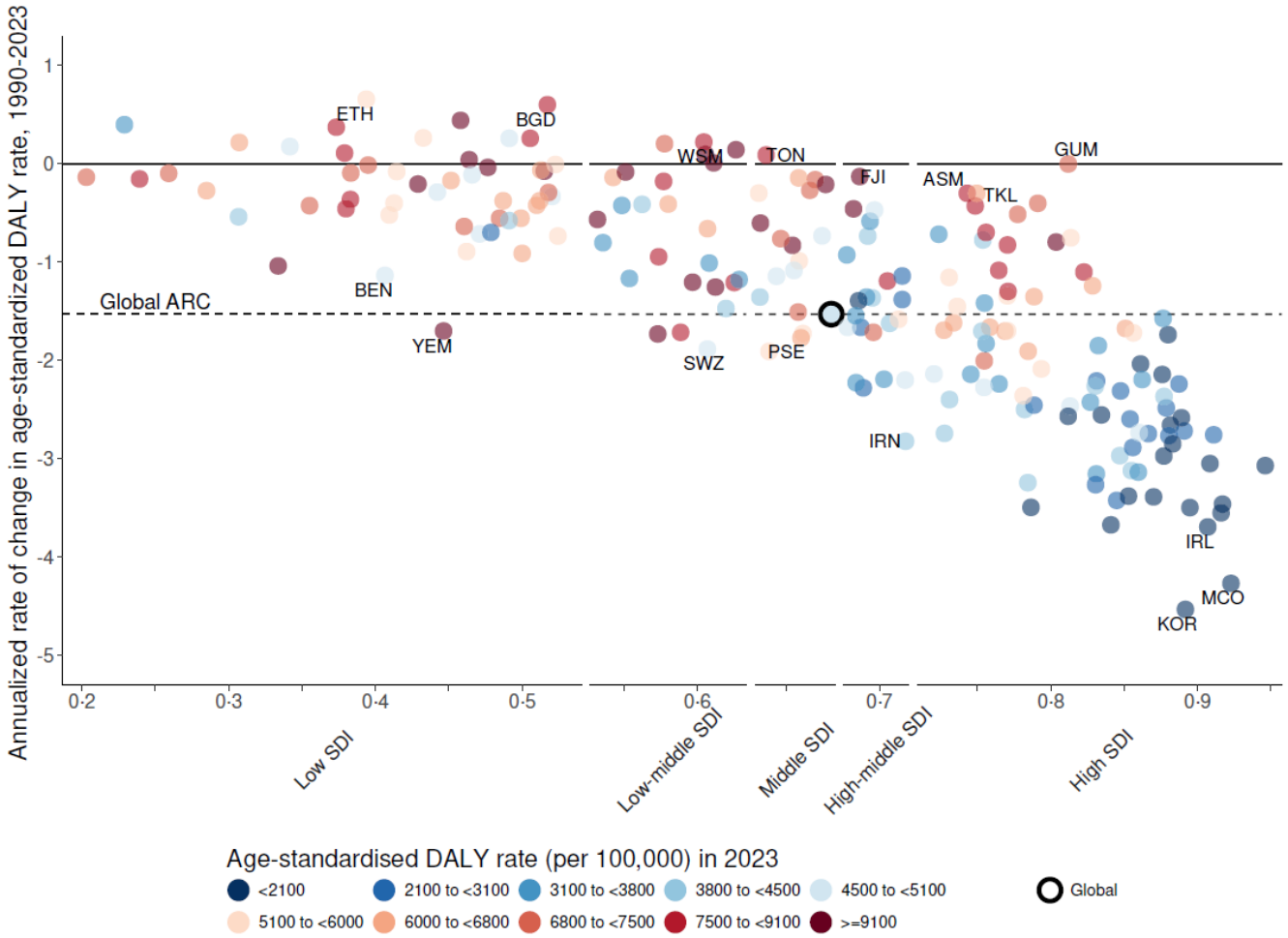

*Example of a decomposition analysis for a hypothetical disease and risk factor "X" describing how change in disease burden from 1990-2023 was a result of four drivers of change; Population growth, population aging, risk exposures, and risk-deleted burden.*

**Figure S3. Age-standardized DALY rates for cardiovascular diseases, 2023**



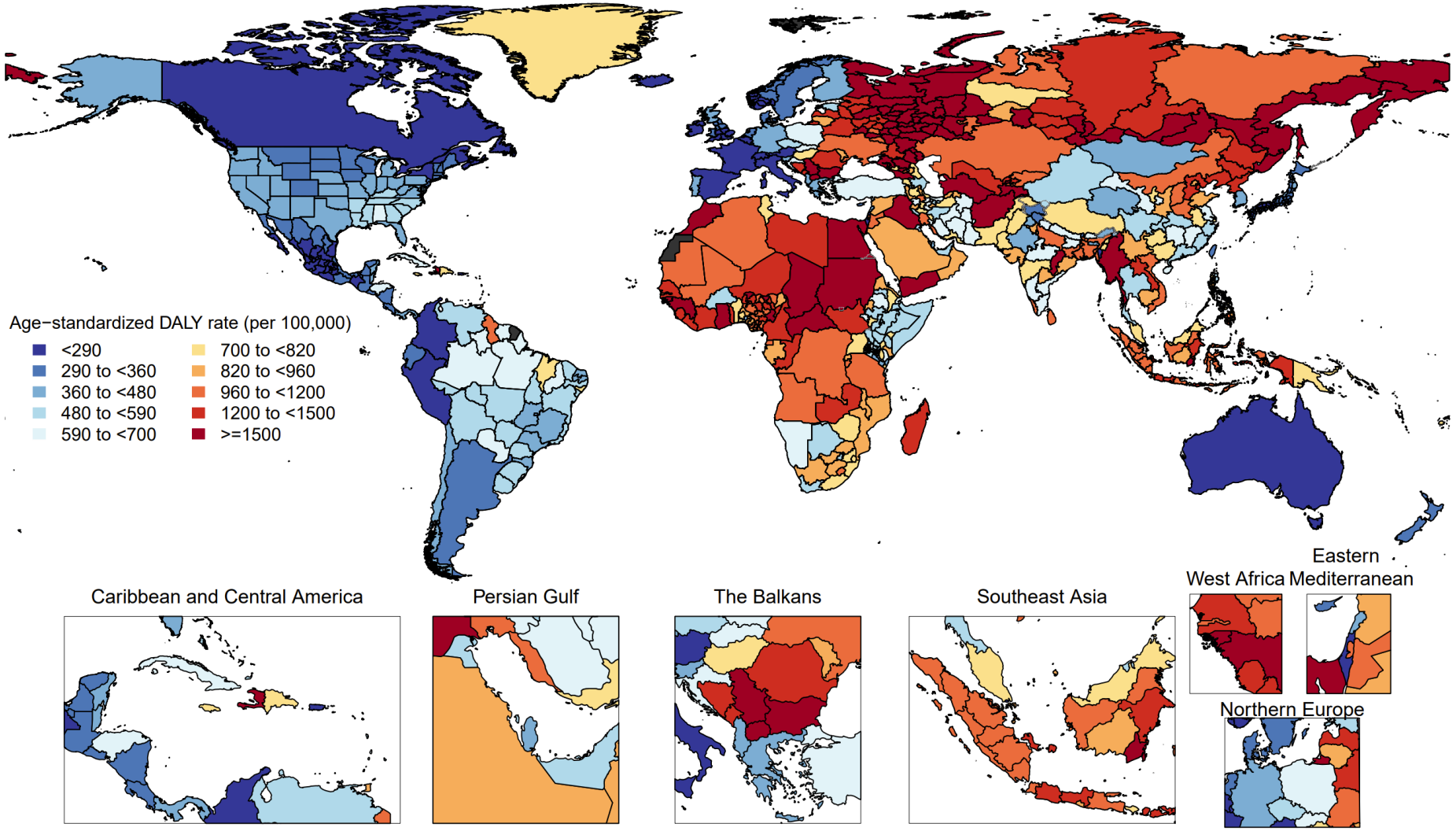

*Age-standardized cardiovascular diseases disability-adjusted life years (DALYs) per 100,000 in 2023 (all sexes combined)*

**Figure S4. Annualized rate of change in the age-standardized DALY rates for cardiovascular diseases by country and territory, 1990-2023**



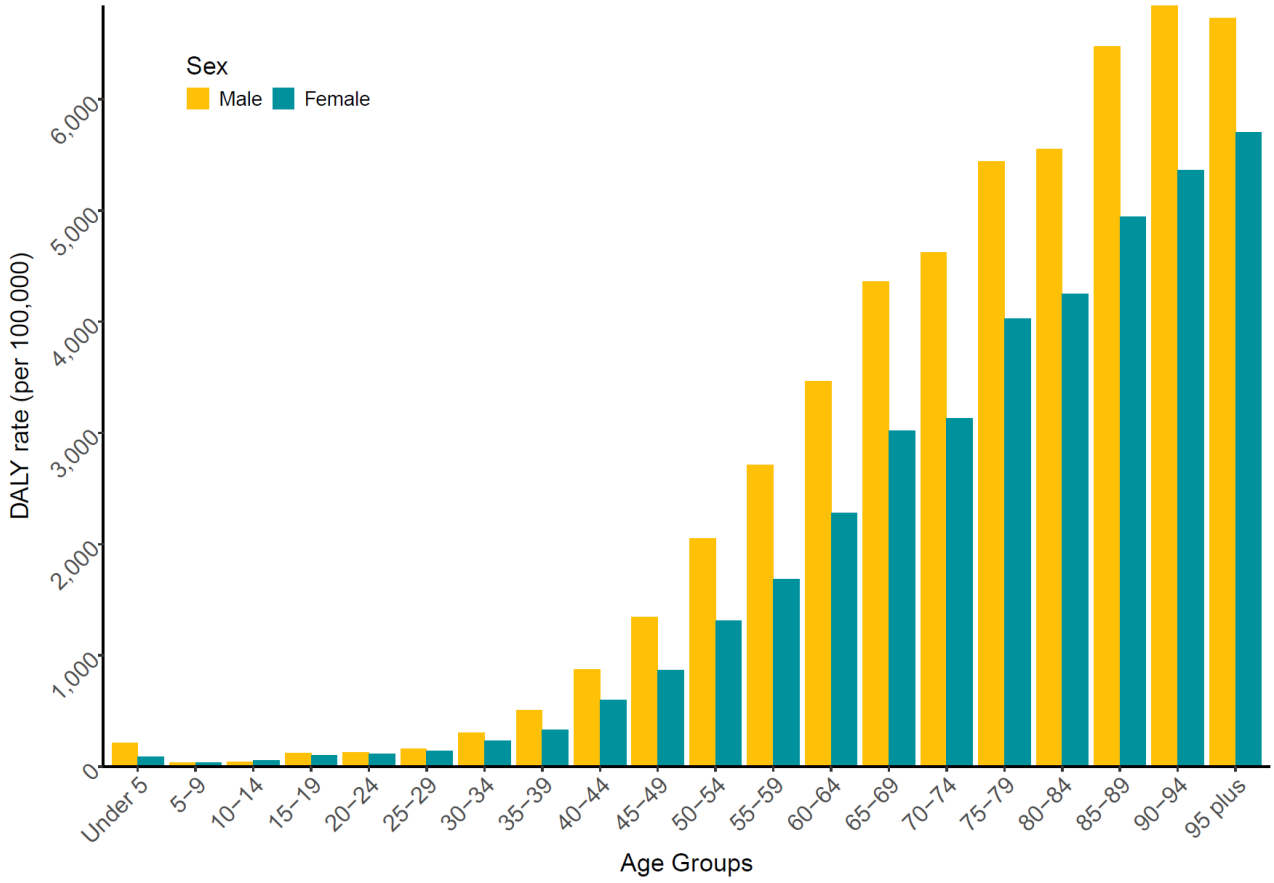

*Annualized rate of change in age-standardized cardiovascular disease disability-adjusted life years (DALYs) from 1990 to 2023 (all sexes combined) by socio-demographic index (SDI, ranging from 0-1), a composite indicator of fertility, income, and education. The dashed line and the bolded circle indicate the global average annualized rate of change. The bolded circle represents the global SDI, and age-standardized DALY rate in 2023. Labels represent 3-digit International Organization for Standardization (ISO) country code.*

**Figure S5. Age-standardized DALY rates for ischemic stroke, 2023**



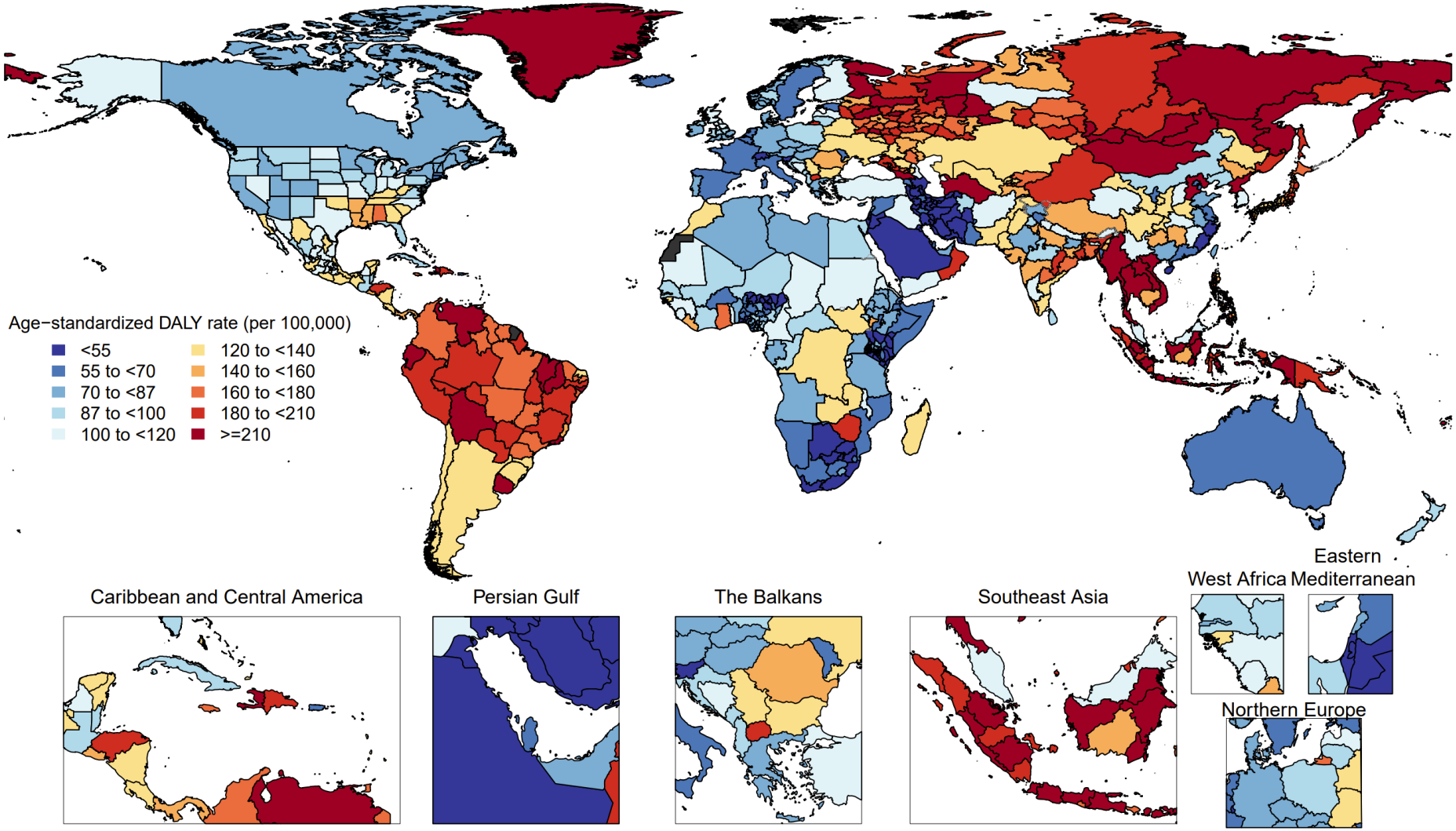

*Age-standardized ischemic stroke disability-adjusted life years (DALYs) per 100,000 in 2023 (all sexes combined)*

**Figure S6. Global intracerebral hemorrhage DALY rate by age and sex, 2023**



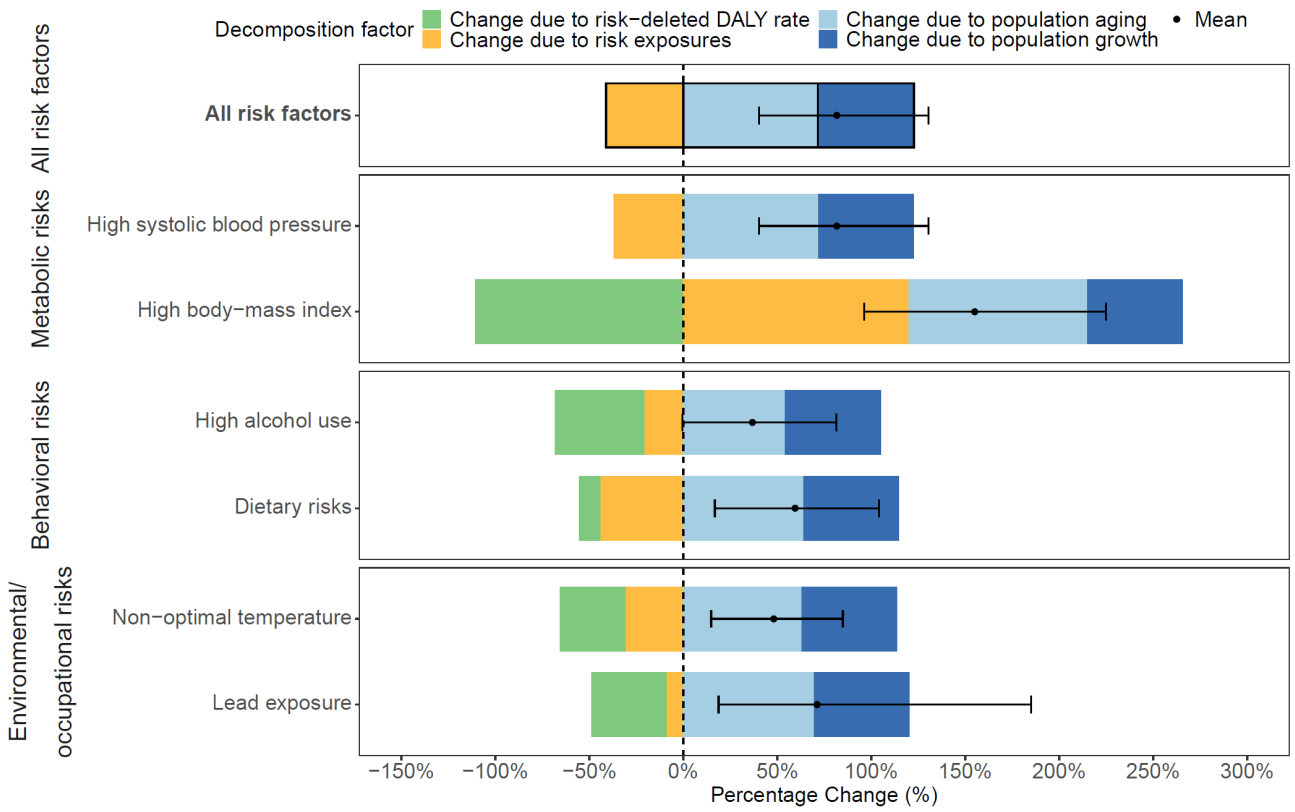

*Global age-specific disability-adjusted life years (DALY) rate of intracerebral hemorrhage in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S7. Age-standardized DALY rates for subarachnoid hemorrhage, 2023**




*Age-standardized subarachnoid hemorrhage disability-adjusted life years (DALYs) per 100,000 in 2023 (all sexes combined)*

**Figure S8. Percentage change in the number of global risk-attributable DALYs, 1990-2023, due to population growth, population aging, changes in exposures to each GBD risk factor, and changes in risk-deleted DALY rates for all sexes, for hypertensive heart disease**

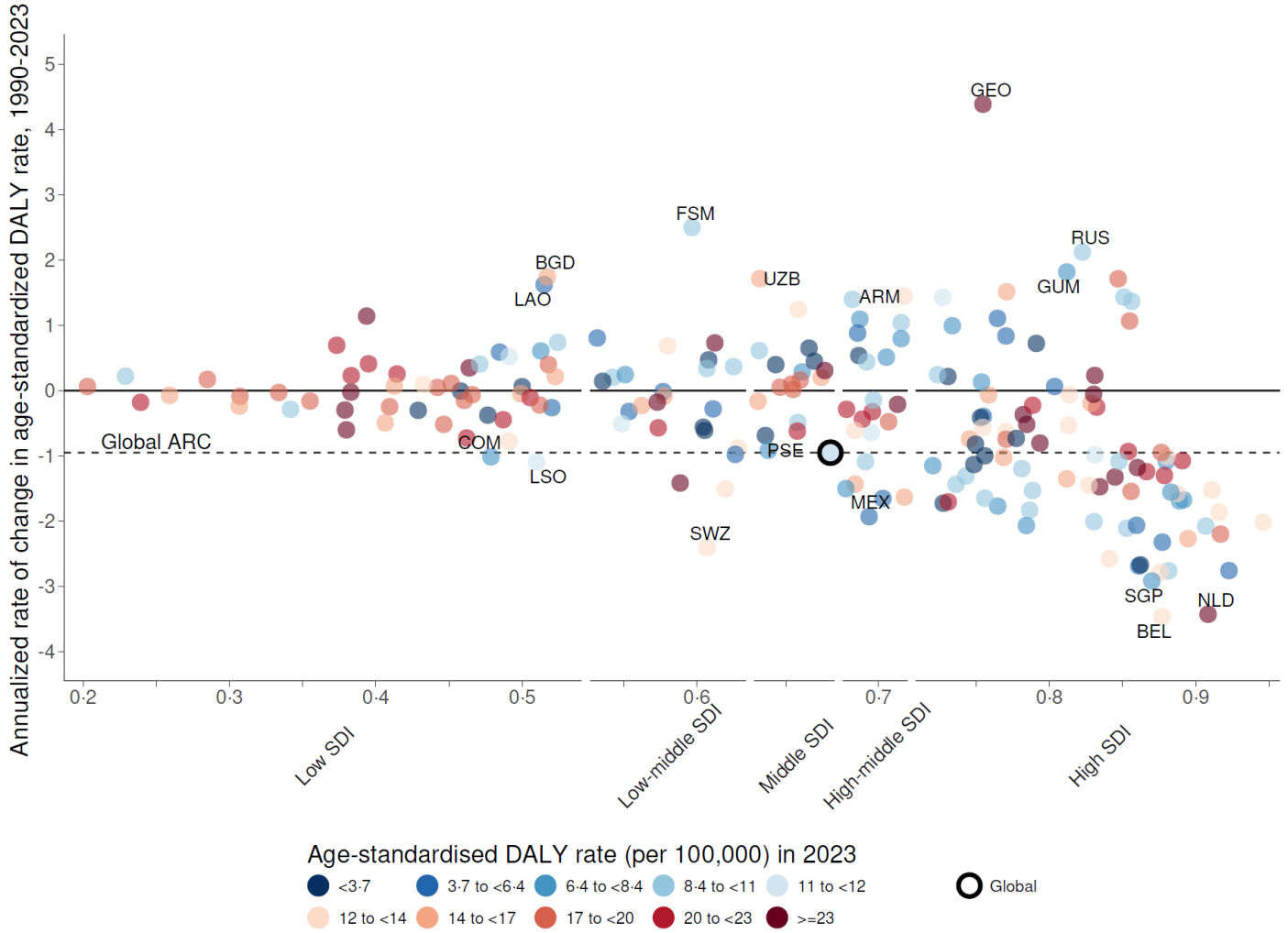



*Decomposition of change in all-age, all sexes combined hypertensive heart disease DALYs attributable to risk factors from 1990 to 2023 due to population growth, population aging, risk exposure, and risk-deleted DALYs. Risk-deleted DALYs are the number of DALYs left after removing the effect of risk factors, population growth, and population aging on overall DALYs. They were calculated as the overall hypertensive heart disease DALY count multiplied by one minus the population attributable fraction for each risk. The dot and error bar represent the mean and 95% uncertainty interval in percentage change in number of DALYs attributable to the risk from 1990 to 2023.*

**Figure S9. Annualized rate of change in the age-standardized DALY rates for non-rheumatic calcific aortic valve disease by country and territory, 1990-2023**

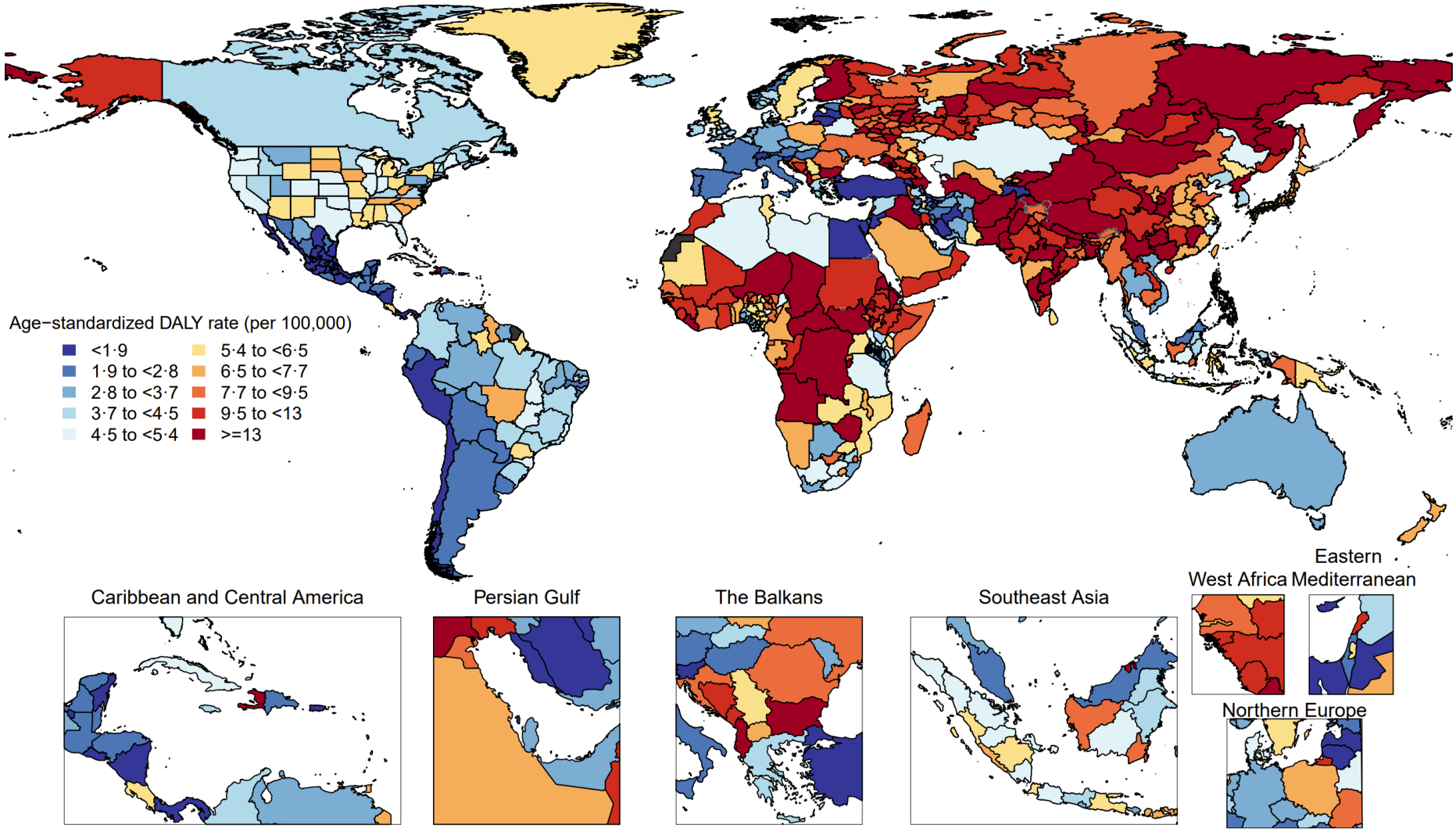
*Annualized rate of change in age-standardized non-rheumatic calcific aortic valve disease disability-adjusted life years (DALYs) from 1990 to 2023 (all sexes combined) by socio-demographic index (SDI, ranging from 0-1), a composite indicator of fertility, income, and education. The dashed line and the bolded circle indicate the global average annualized rate of change. The bolded circle represents the global SDI, and age-standardized DALY rate in 2023. Labels represent 3-digit International Organization for Standardization (ISO) country code.*

**Figure S10. Annualized rate of change in the age-standardized DALY rates for non-rheumatic degenerative mitral valve disease by country and territory, 1990-2023**



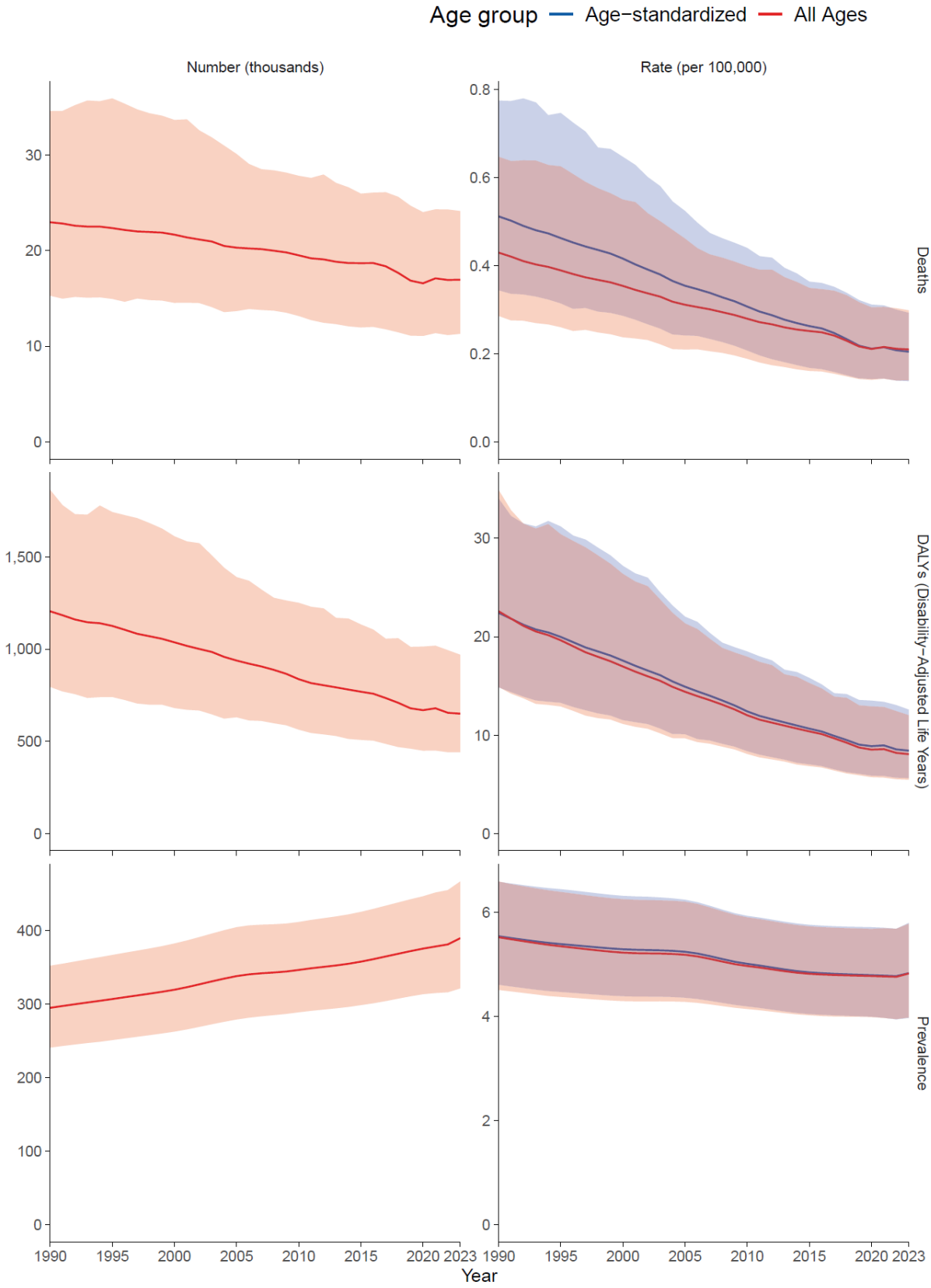

*Annualized rate of change in age-standardized non-rheumatic degenerative mitral valve disease disability-adjusted life years (DALYs) from 1990 to 2023 (all sexes combined) by socio-demographic index (SDI, ranging from 0-1), a composite indicator of fertility, income, and education. The dashed line and the bolded circle indicate the global average annualized rate of change. The bolded circle represents the global SDI, and age-standardized DALY rate in 2023. Labels represent 3-digit International Organization for Standardization (ISO) country code.*

**Figure S11. Age-standardized DALY rates for myocarditis, 2023**



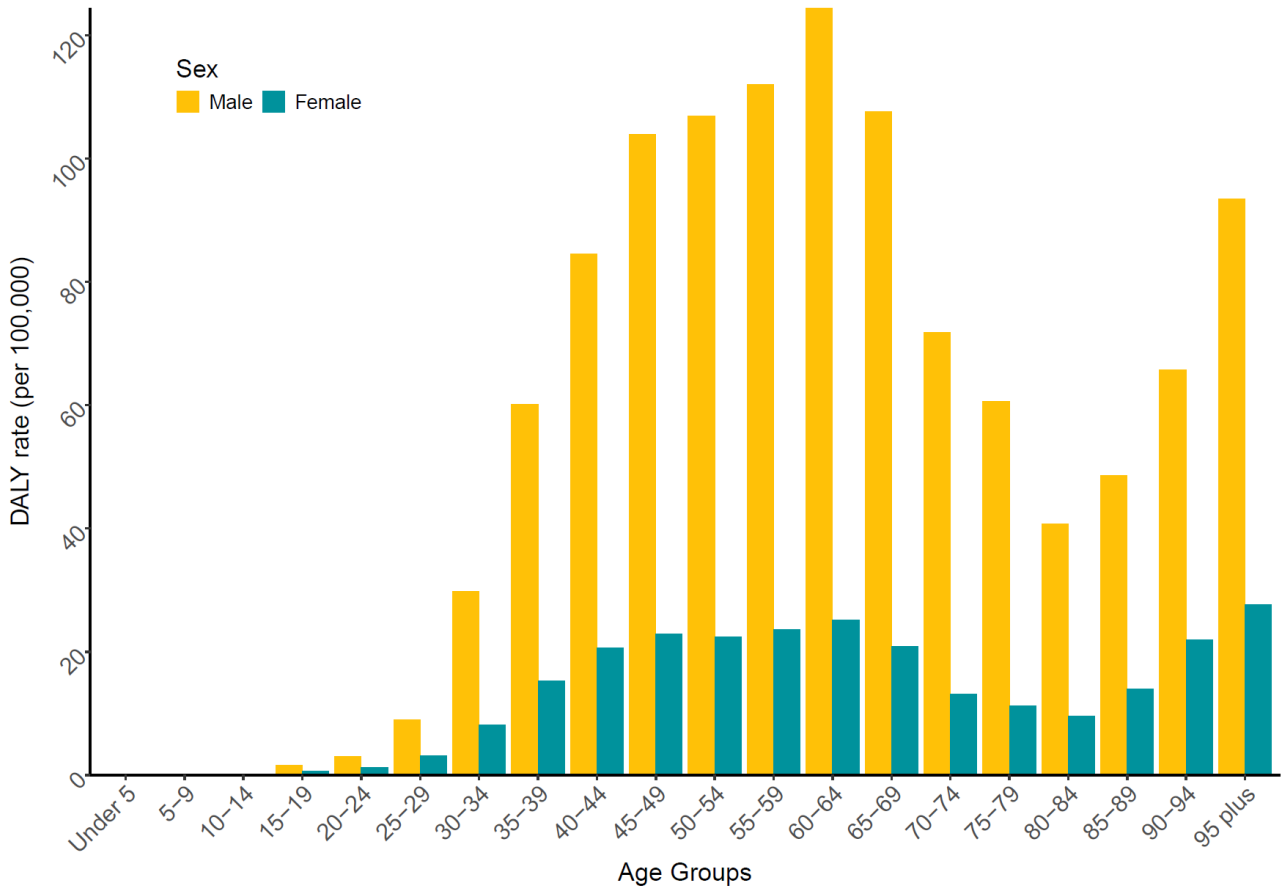

*Age-standardized myocarditis disability-adjusted life years (DALYs) per 100,000 in 2023 (all sexes combined)*

**Figure S12. Total numbers and rates of myocarditis: global**



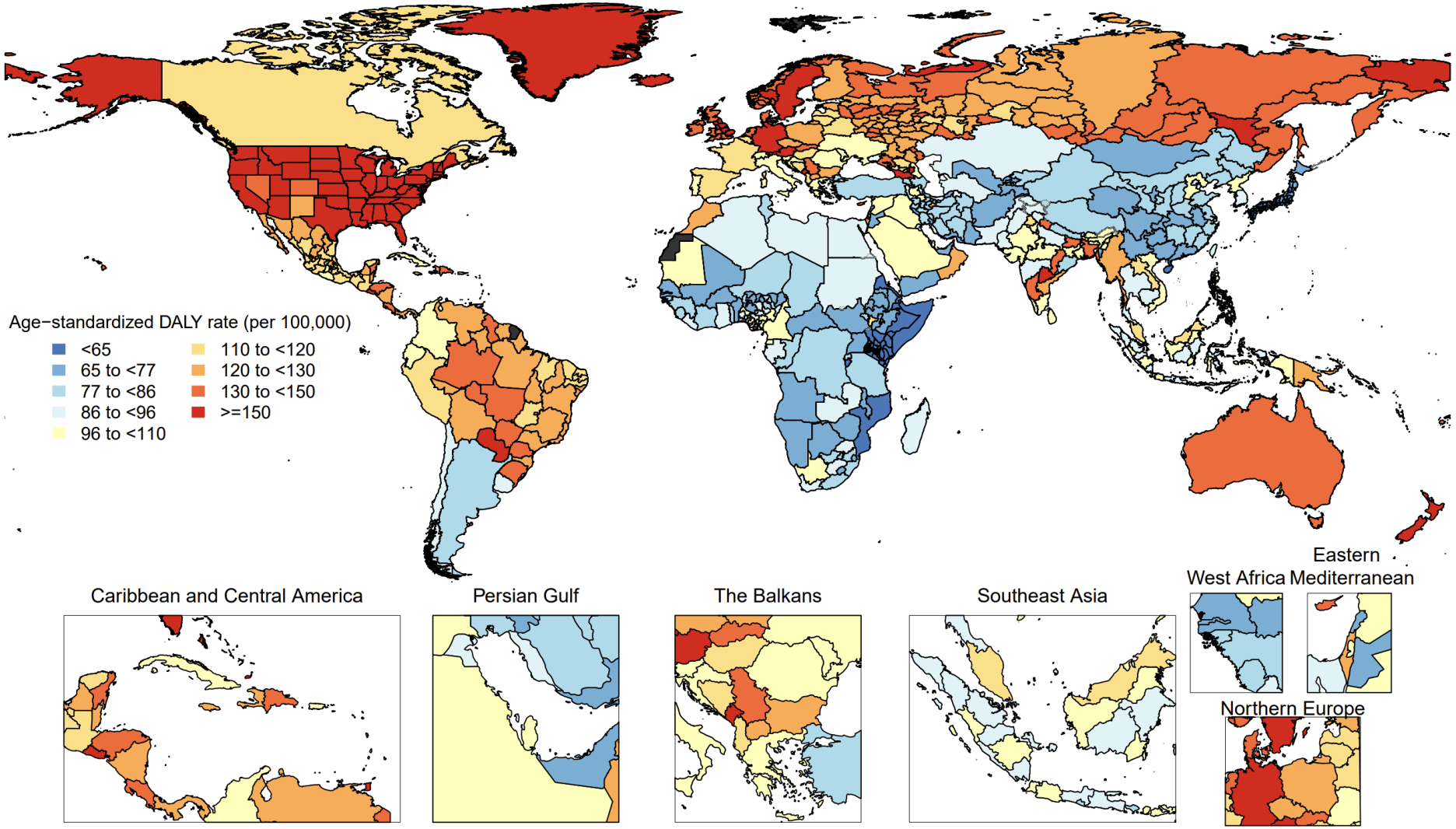

*Global myocarditis count in millions and rate per 100,000 by measure for age-standardized and all-age groups with shaded 95% confidence interval from 1990 to 2023*

**Figure S13. Global alcoholic cardiomyopathy DALY rate by age and sex, 2023**



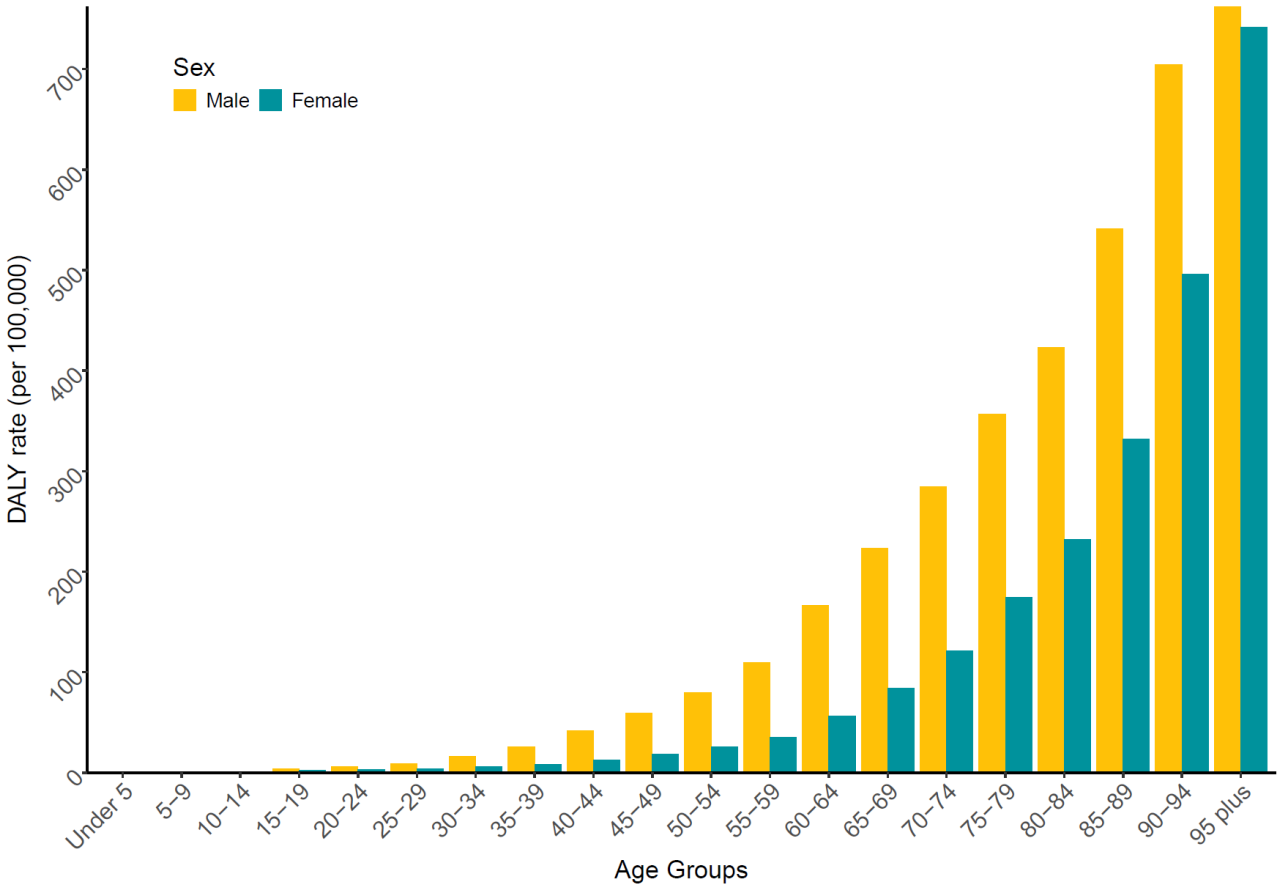

*Global age-specific disability-adjusted life years (DALY) rate of alcoholic cardiomyopathy in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S14. Age-standardized DALY rates for atrial fibrillation and flutter, 2023**



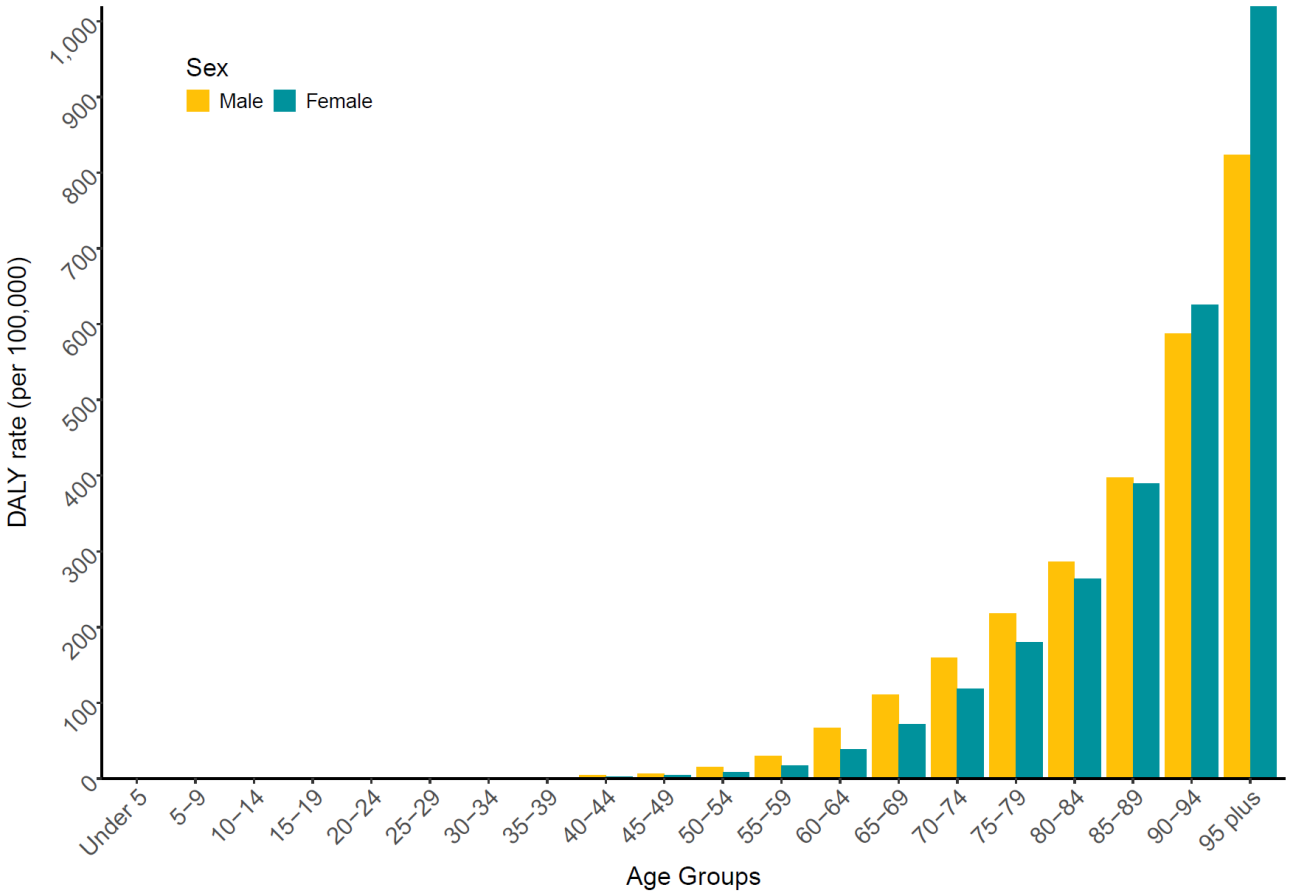

*Age-standardized atrial fibrillation and flutter disability-adjusted life years (DALYs) per 100,000 in 2023 (all sexes combined)*

**Figure S15. Global aortic aneurysm DALY rate by age and sex, 2023**



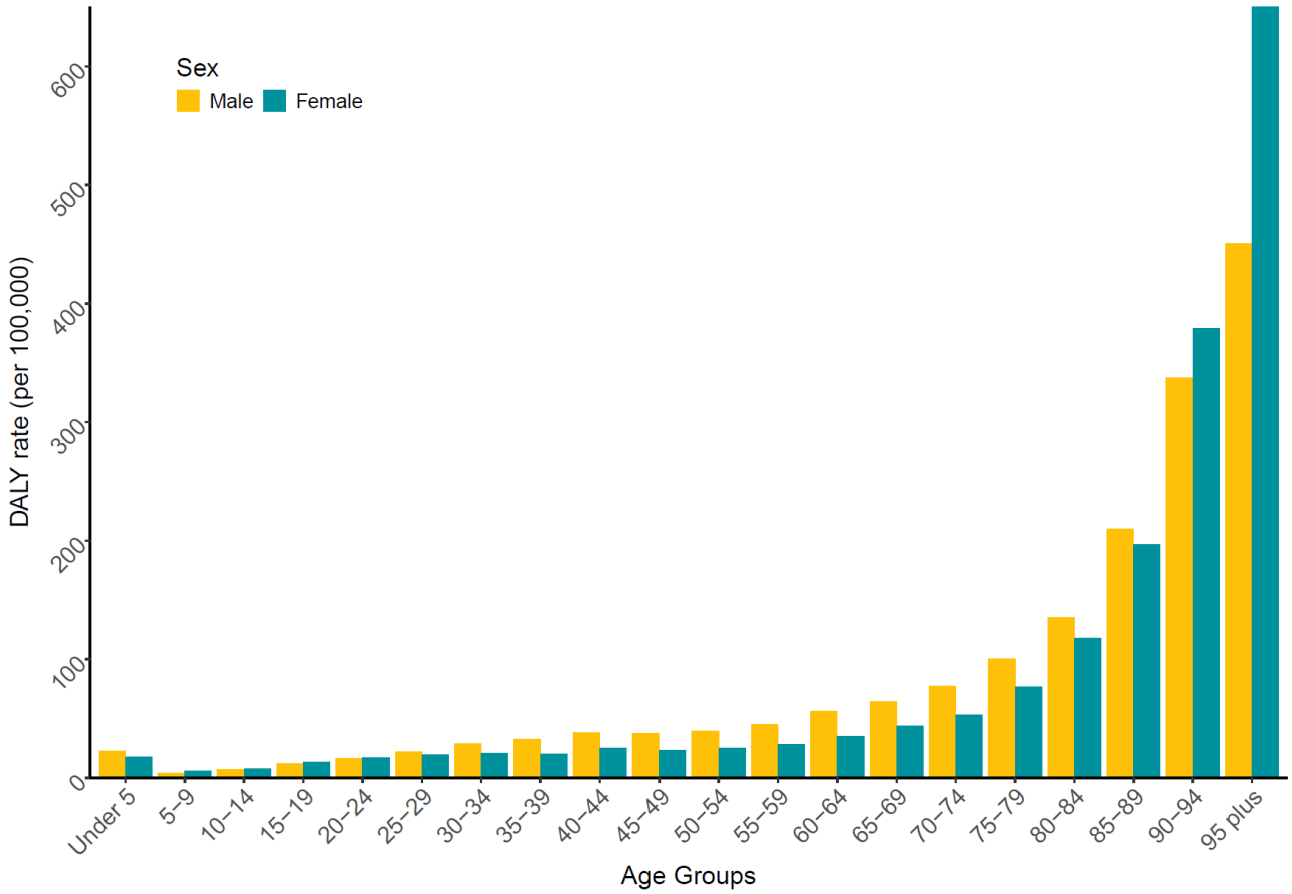

*Global age-specific disability-adjusted life years (DALY) rate of aortic aneurysm in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S16. Global lower extremity peripheral arterial disease DALY rate by age and sex, 2023**



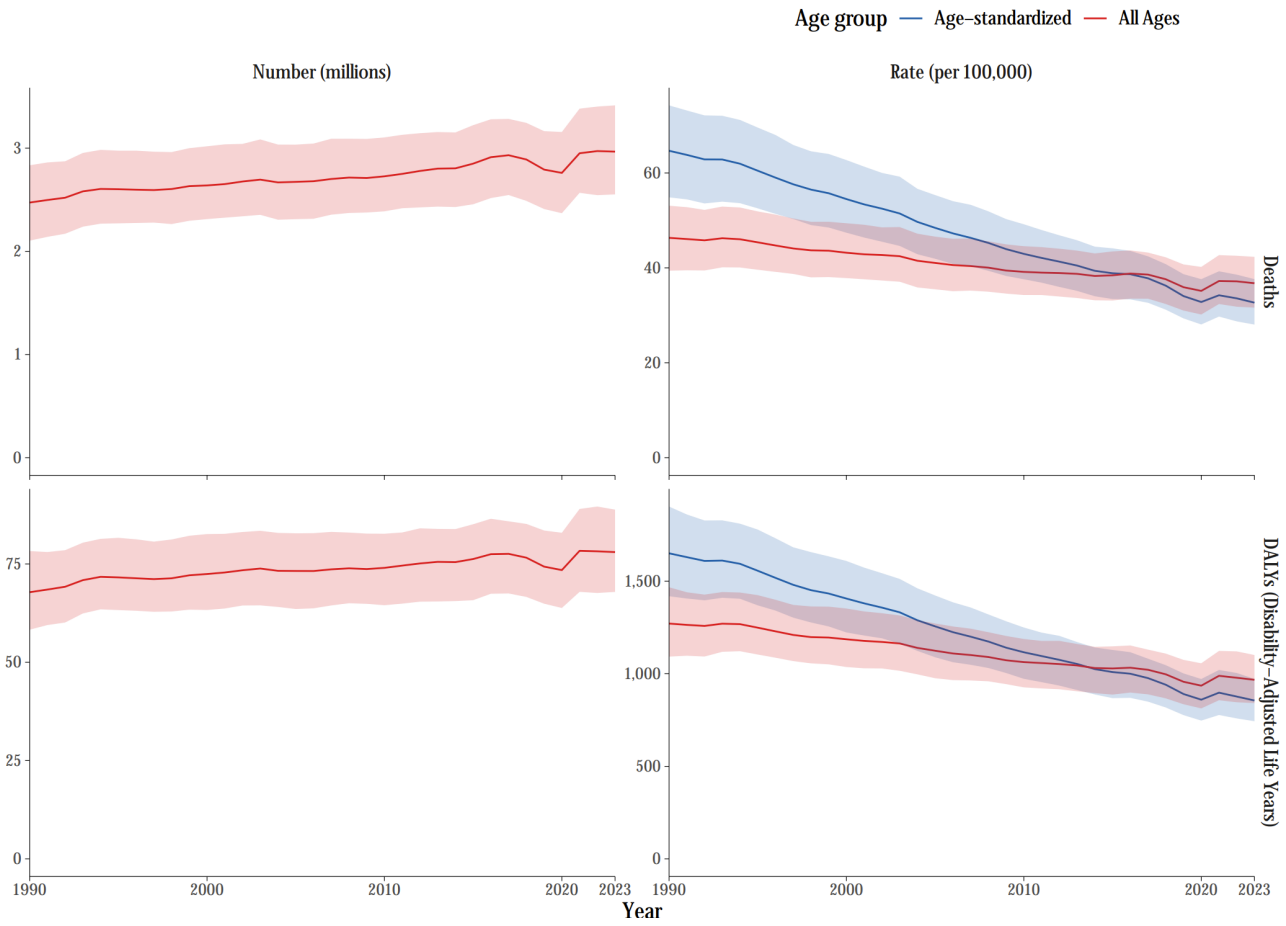

*Global age-specific disability-adjusted life years (DALY) rate of lower extremity peripheral arterial disease in 2023 for males and females.*

**Figure S17. Global endocarditis DALY rate by age and sex, 2023**



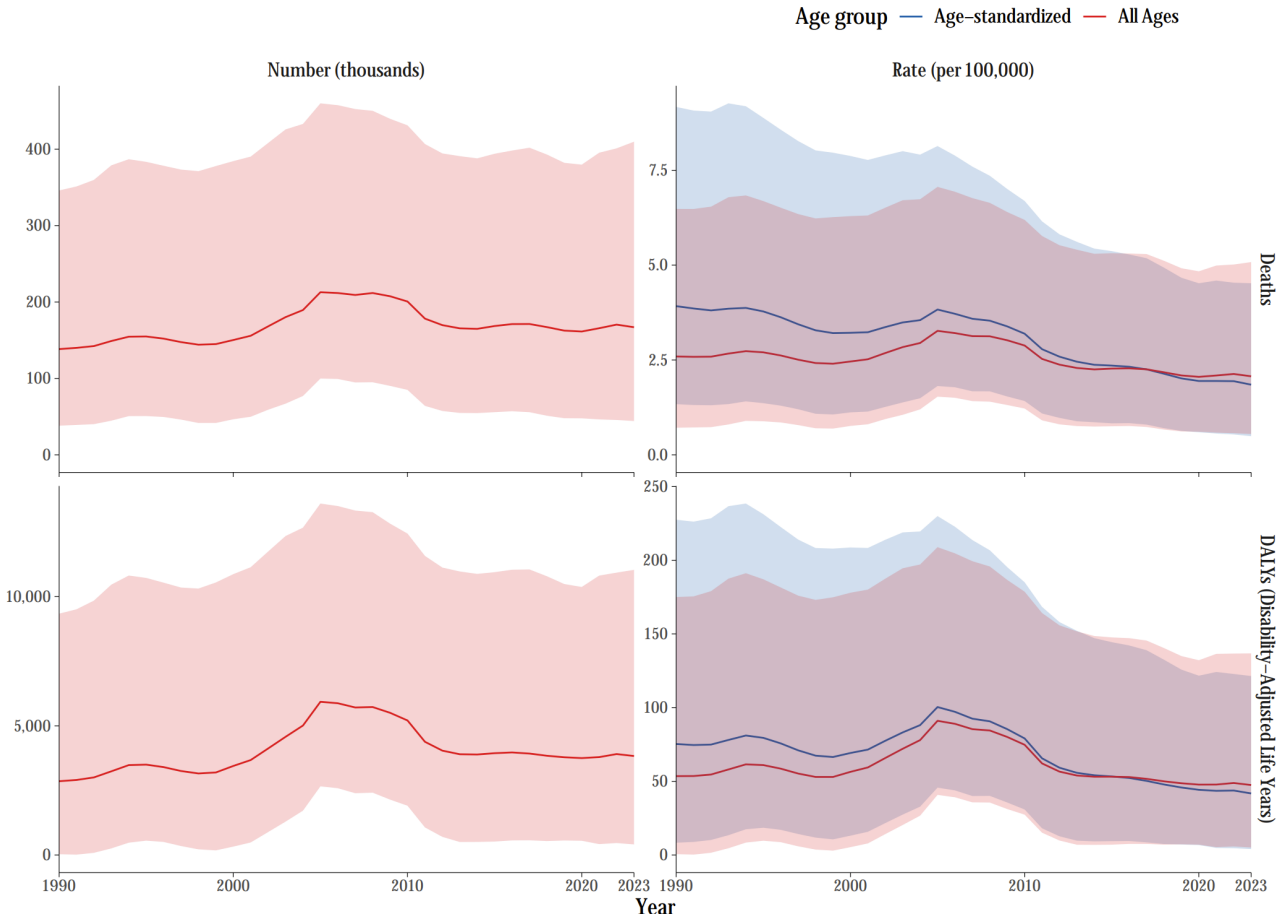

*Global age-specific disability-adjusted life years (DALY) rate of endocarditis in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S18. Total numbers and rates of cardiovascular diseases attributable to tobacco, global**



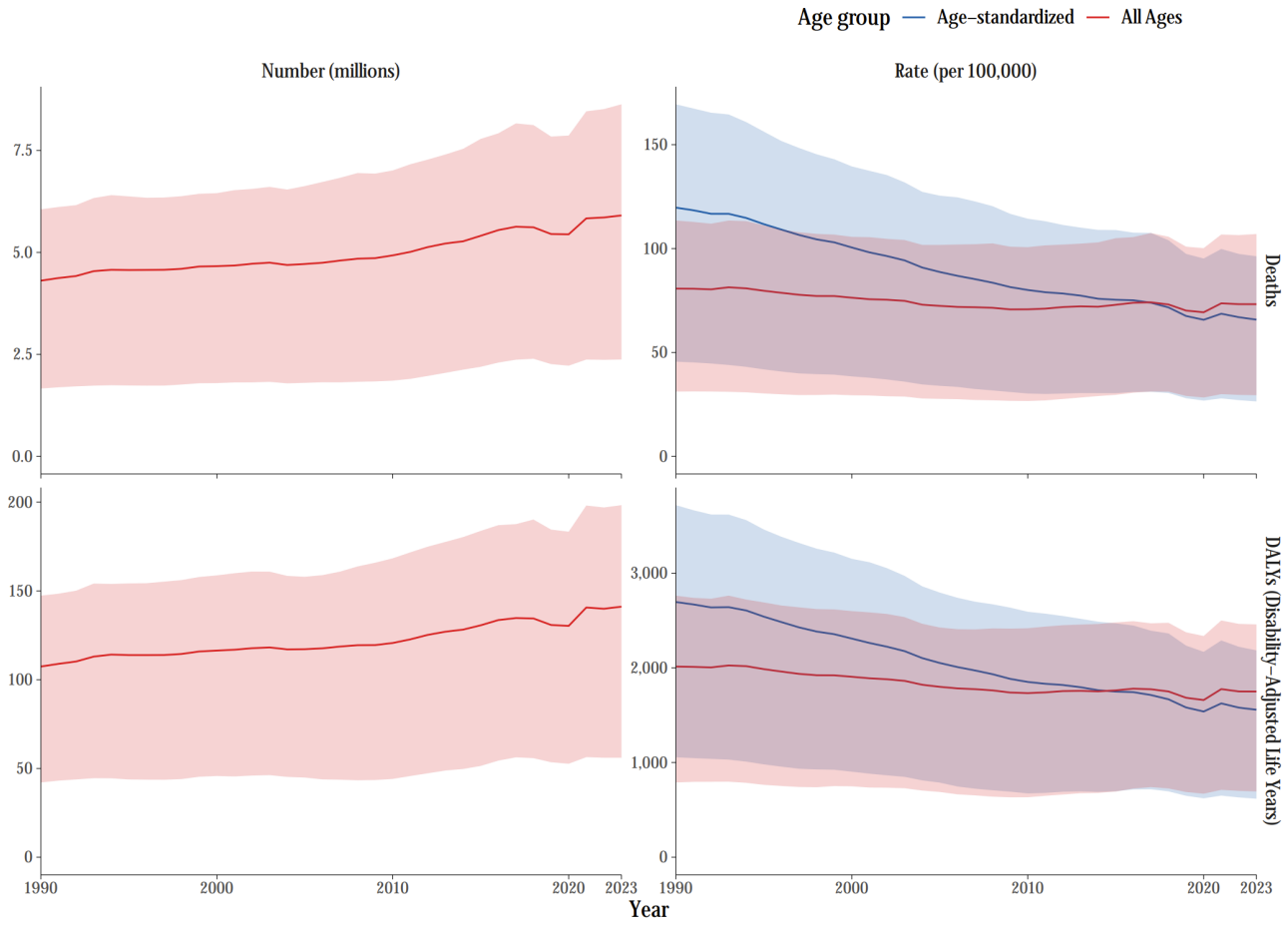

*Global cardiovascular disease attributable to tobacco count in millions and rate per 100,000 by measure for age-standardized and all-age groups with shaded 95% confidence interval from 1990 to 2023*

**Figure S19. Total numbers and rates of cardiovascular diseases attributable to high alcohol use, global**




*Global cardiovascular disease attributable to high alcohol use count in millions and rate per 100,000 by measure for age-standardized and all-age groups with shaded 95% confidence interval from 1990 to 2023*

**Figure S20. Total numbers and rates of cardiovascular diseases attributable to dietary risks, global**




*Global cardiovascular disease attributable to dietary risks count in millions and rate per 100,000 by measure for age-standardized and all-age groups with shaded 95% confidence interval from 1990 to 2023*

**Figure S21. Level 2 CVD vital registration and verbal autopsy data availability by country, 1980-2023**

*[See plot on next page]*

*Availability of cardiovascular disease cause of death data used in GBD by country, 1980-2023. Vital registration (VR) and verbal autopsy (VA) are shown separately.*

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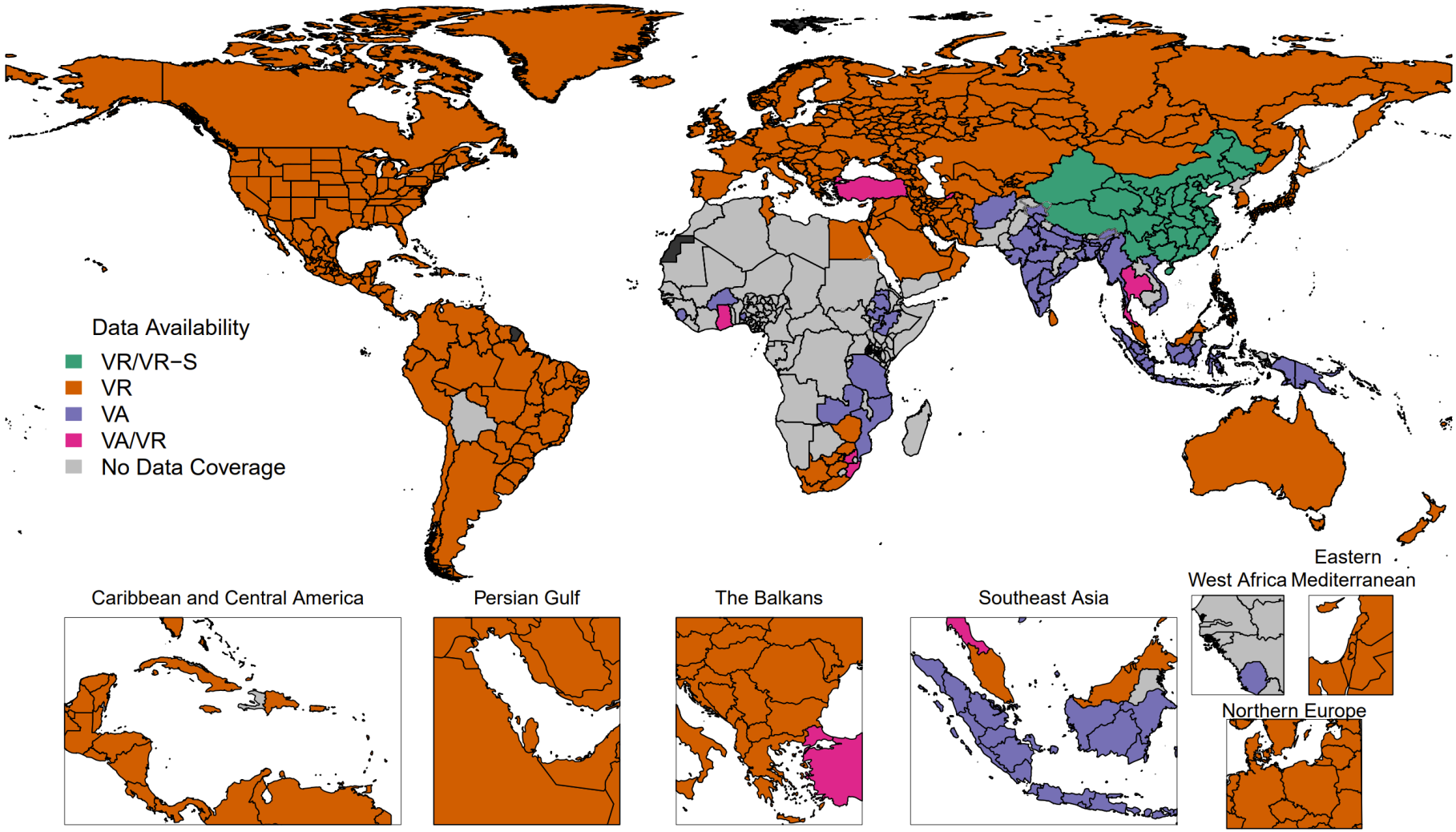
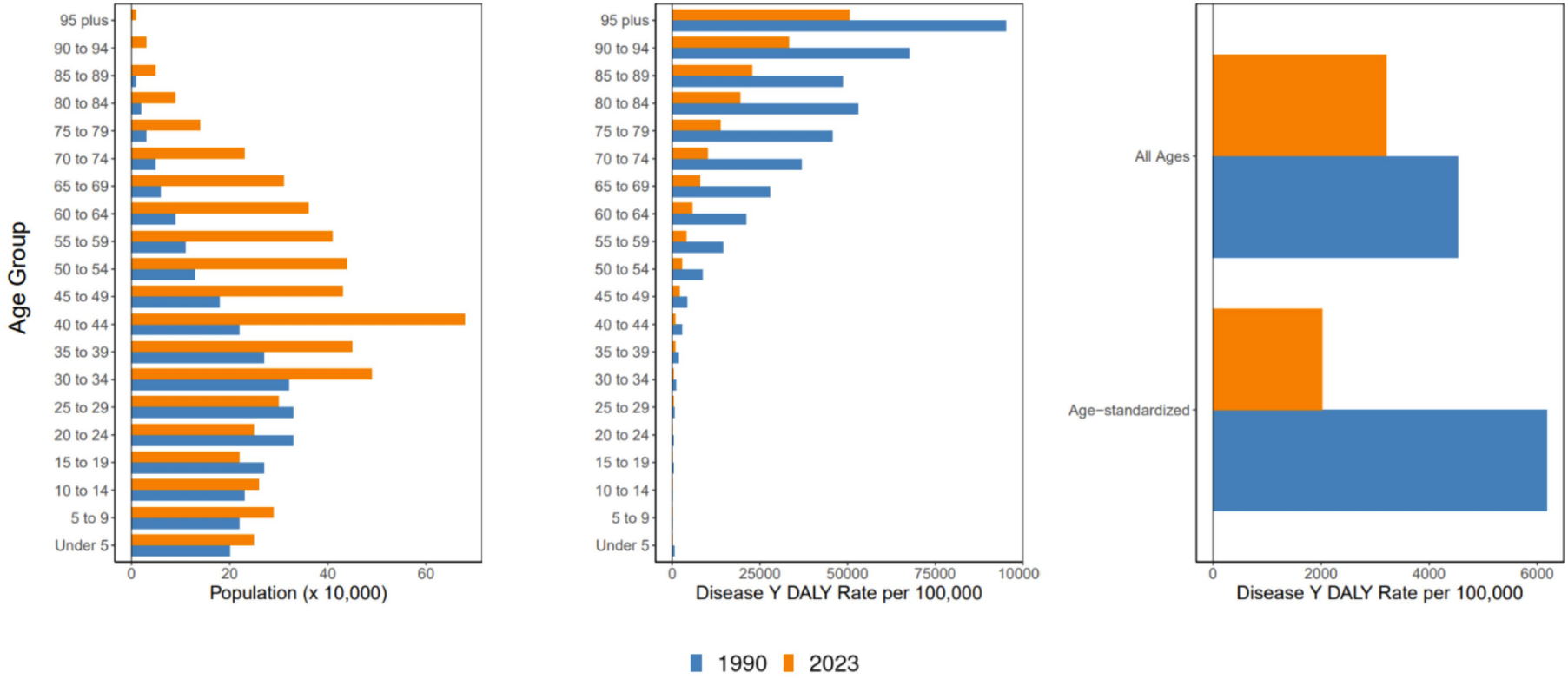
**Figure S22. Level 2 CVD vital registration and verbal autopsy data availability, 1980-2023**



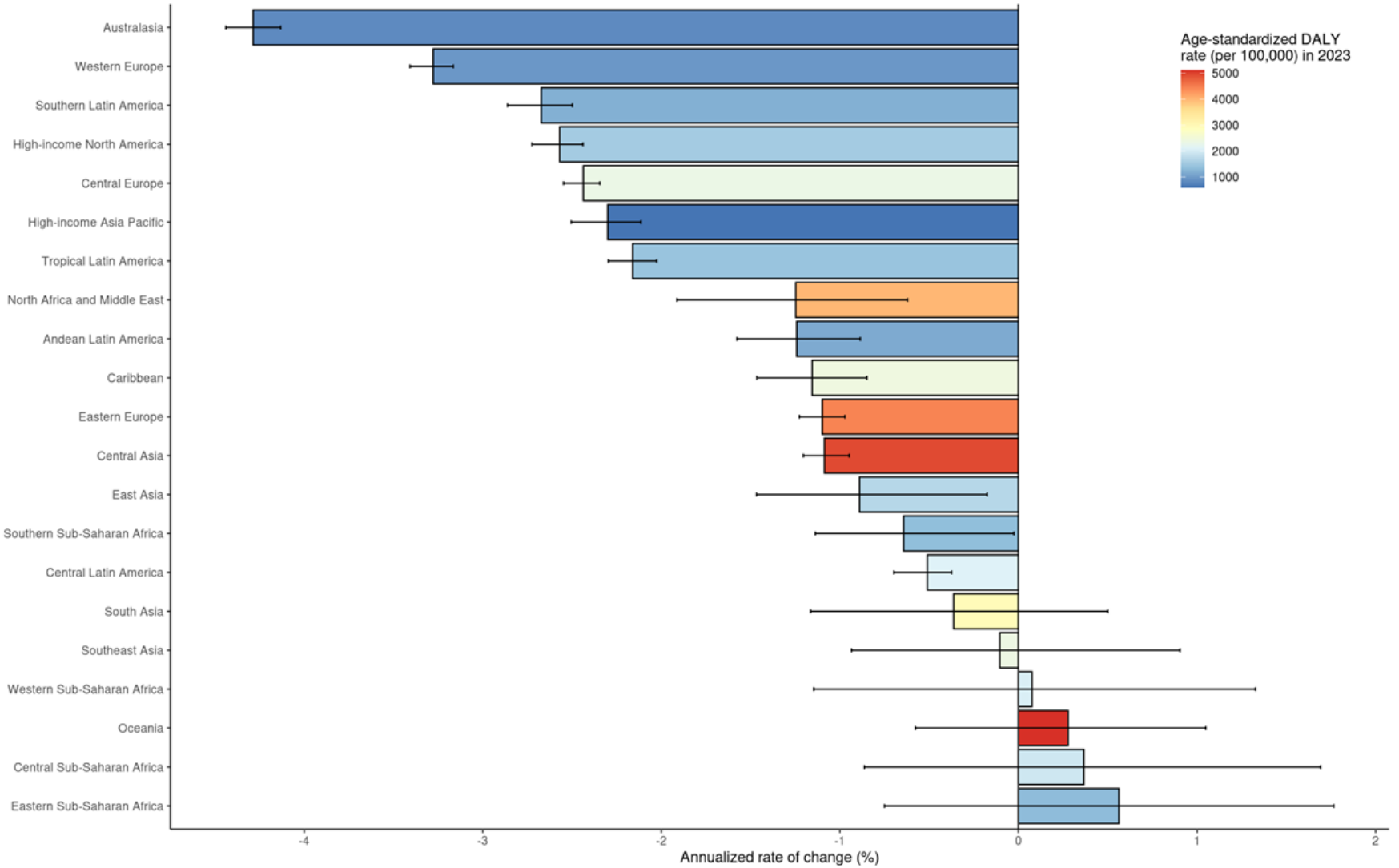

*Availability map of cardiovascular disease cause of death data used in GBD by country, 1980-2023. Vital registration (VR), sample vital registration (VR-S), and verbal autopsy (VA) are shown by color for each location.*

**Figure S23. Age-standardization and all-age burden example**



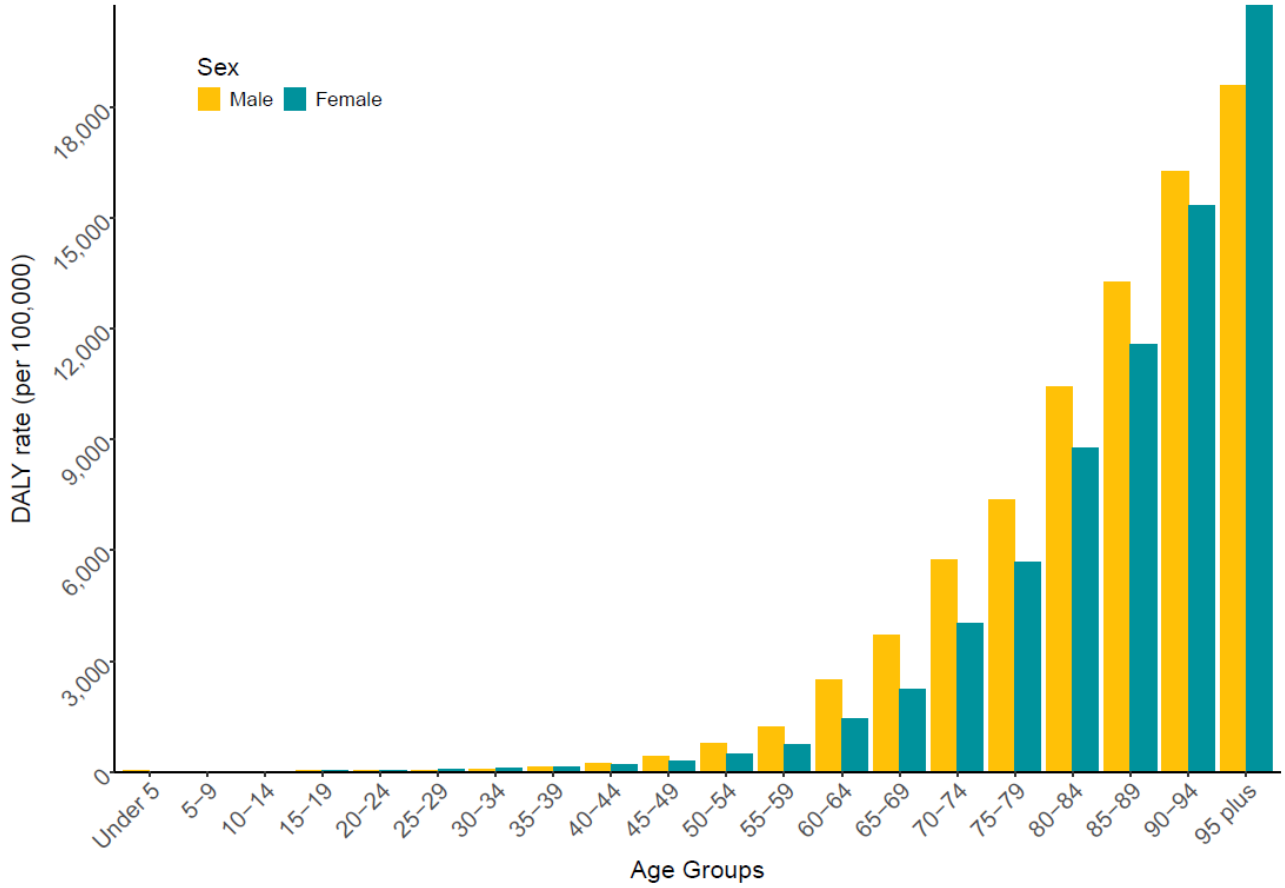

*Example of age-standardized and all-age burden for Country "A". Population size, and disability-adjusted life years (DALYs) for disease "Y" are displayed for Country "A". In Country "A", the population size has nearly doubled from 1990 to 2023. The population distribution has also shifted from a younger average age in 1990 to an older average age in 2023. The age-standardized DALY rate for disease "Y" decreased in Country "A" from 1990 to 2023. Although both age-standardized and all-age DALY rates declined, the all-age rate showed a slower decrease than the age-standardized rate due to the overall growth of the population.*

**Figure S24. Annualized rate of change in the age-standardized DALY rates for ischemic heart disease by region, 1990 to 2023.**



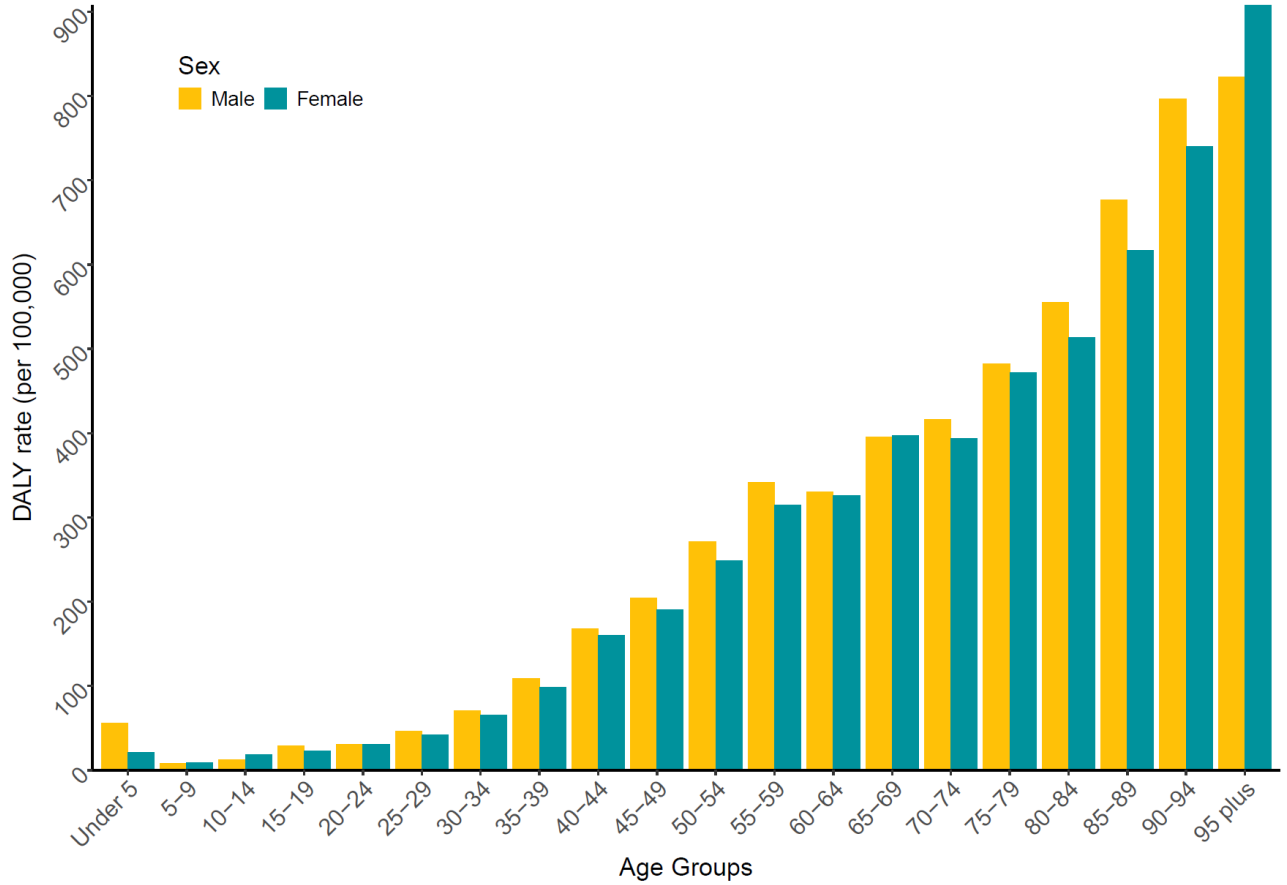

*Annualized rate of change in age-standardized ischemic heart disease disability-adjusted life years (DALYs) from 1990 to 2023 (all sexes combined). Color shows ischemic heart disease age-standardized DALY rate as of 2023 for each region.*

**Figure S25. Global ischemic stroke DALY rate by age and sex, 2023**



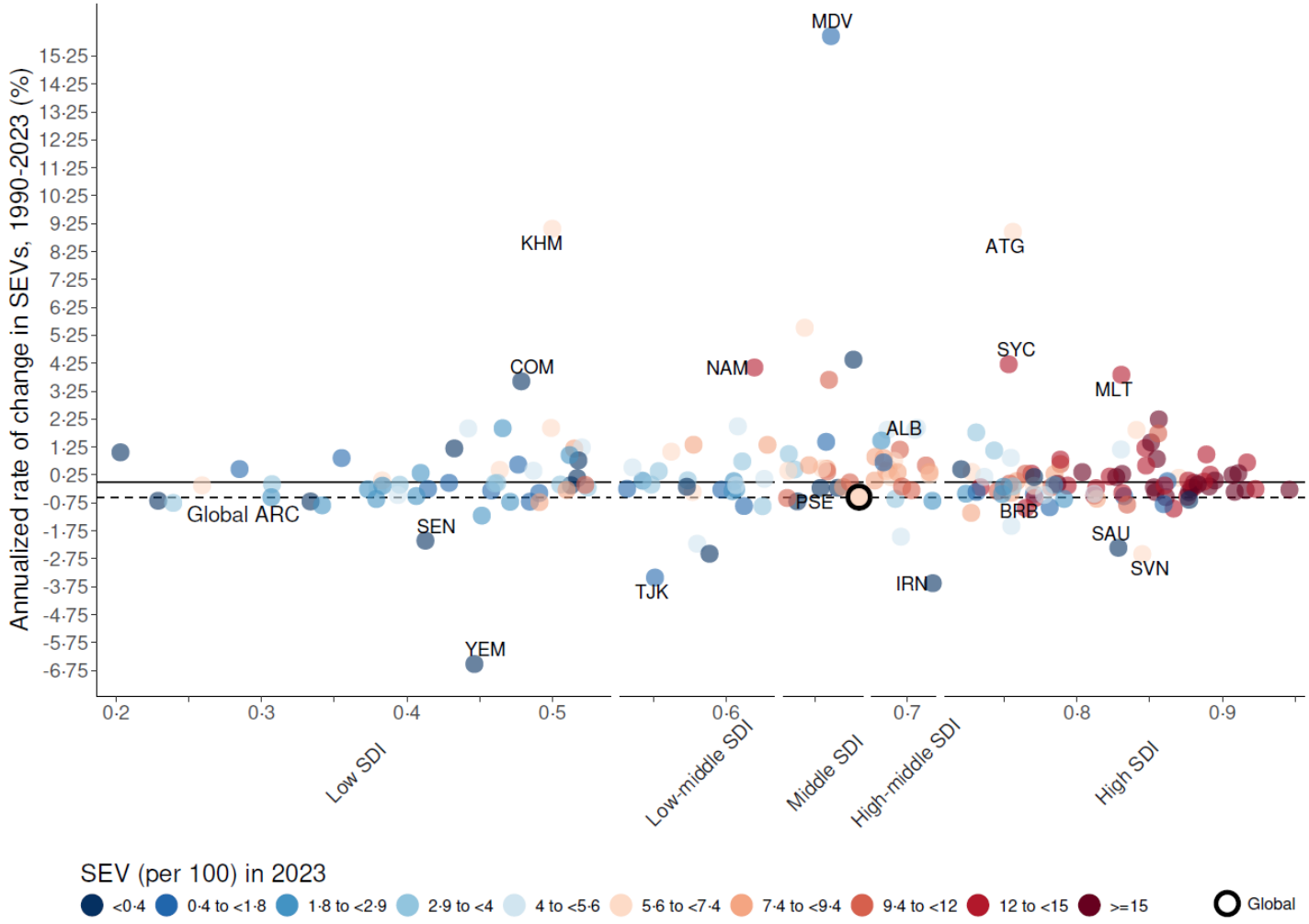

*Global age-specific disability-adjusted life years (DALY) rate of ischemic stroke in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S26. Global subarachnoid hemorrhage DALY rate by age and sex, 2023**




*Global age-specific disability-adjusted life years (DALY) rate of subarachnoid hemorrhage in 2023 for males and females. Specific age groups under the age of 5 were aggregated to "under 5" for clarity.*

**Figure S27. Annualized rate of change in Summary Exposure (SEVs) for High alcohol use by country and territory, 1990-2023**




*Annualized rate of change in summary exposure value (SEV) for high alcohol use from 1990 to 2023 for all sexes by socio-demographic index (SDI, ranging from 0-1). SEVs are a measure of risk-weighted exposure in the population with a possible range of 0 to 100. A value of 0 signifies that no excess risk exists in the population due to exposure to the specified risk factor while 100 indicates when the population is at the highest level of risk. The dashed line and the bolded circle indicate the global average annualized rate of change of the SEV. The bolded circle represents the global SDI, and SEV in 2023. Labels represent 3-digit International Organization for Standardization (ISO) country code.*

**Figure S28. Total numbers and rates of cardiovascular diseases attributable to diet high in trans fatty acids, global**

*Global cardiovascular disease disability-adjusted life years (DALYs) and deaths attributable to diet high in trans fatty acids per 100,000 and count in millions with shaded 95% confidence interval (all sexes) from 1990 to 2023*

# Section 3: GATHER checklist

| # | Checklist item | Reported on page # |
|---|---|---|
| **Objectives and funding** | | |
| **1** | Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made. | Title; Section 1.1 |
| **2** | List the funding sources for the work. | Title page |
| **Data Inputs** | | |
| *For all data inputs from multiple sources that are synthesized as part of the study:* | | |
| **3** | Describe how the data were identified and how the data were accessed. | Section 1.1 |
| **4** | Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions. | Methods appendices |
| **5** | Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant. | Appendices, Global Health Data Exchange (GHDx) |
| **6** | Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5). | Methods appendices |
| *For data inputs that contribute to the analysis but were not synthesized as part of the study:* | | |
| **7** | Describe and give sources for any other data inputs. | Appendices, GHDx |
| *For all data inputs:* | | |
| **8** | Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet rather than a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared because of ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data. | GHDx |
| **Data analysis** | | |
| **9** | Provide a conceptual overview of the data analysis method. A diagram may be helpful. | Diagrams for each cause and risk in the methods appendices |
| **10** | Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s). | Methods appendices |
| **11** | Describe how candidate models were evaluated and how the final model(s) were selected. | Methods appendices |
| **12** | Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis. | Methods appendices |
| **13** | Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis. | Methods appendices |
| **14** | State how analytic or statistical source code used to generate estimates can be accessed. | GitHub repository |
| **Results and Discussion** | | |
| **15** | Provide published estimates in a file format from which data can be efficiently extracted. | GHDx |
| **16** | Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals). | GHDx |
| **17** | Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates. | Section 4.0 |
| **18** | Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates. | Section 4.10 |

All data source used in this study will be publicly available upon publication via the Global Health Data Exchange (GHDx) at https://ghdx.healthdata.org/record/ihme-data/cvd-1990-2023.

The analytical code used to generate the estimates for this study will be publicly available upon publication via GitHub at https://github.com/ihmeuw/CVD_JACC_1990-2023.

# Section 4: Systematic review registrations

The protocols for the following systematic reviews were prospectively registered with PROSPERO:

Benjamin Stark, Gregory Roth, Catherine Johnson, Nikki DeCleene. Systematic review of the global burden of ischemic heart disease. PROSPERO 2024 Available from https://www.crd.york.ac.uk/PROSPERO/view/CRD42022323863

Megan Lindstrom, Gregory Roth, Catherine Johnson, Nikki DeCleene, Neema Minja. Systematic review of the global burden of rheumatic heart disease. PROSPERO 2024 Available from https://www.crd.york.ac.uk/PROSPERO/view/CRD42022355770

Benjamin Stark, Gregory Roth, Catherine Johnson, Nikki DeCleene. Systematic review of the global burden of myocardial infarction. PROSPERO 2024 Available from https://www.crd.york.ac.uk/PROSPERO/view/CRD42023414474

Nikki DeCleene, Gregory Roth, Catherine Johnson, Christian Razo, Megan Lindstrom. Systematic review of global systolic blood pressure exposure from 2017 to 2022. PROSPERO 2024 Available from https://www.crd.york.ac.uk/PROSPERO/view/CRD42024510285

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