

# **Supplemental Material**

## Supplemental Material

### Global Burden of Disease Overview

The Global Burden of Disease (GBD) Study 2021 provides a comprehensive evaluation of disease burden, covering 371 diseases across 204 countries and territories from 1990 to 2021. It generates various metrics, including prevalence rates and cause-specific mortality, adhering to the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER).<sup>23</sup> See appendix table S-645 for the GATHER checklist.

To expand available data and produce outcomes for the global population, GBD employs a range of modelling tools. This modelling is conducted at the 1000 draw level, with point estimates calculated as the mean of these draws, and 95% uncertainty intervals (UIs) derived from the 2.5th and 97.5th percentiles.<sup>5</sup>

Using the GBD 2021 global population age standard, age-standardized rates are calculated to facilitate comparisons across different locations and time periods with varying age distributions.<sup>24,25</sup> In countries with robust vital registration systems characterized by high completeness and minimal errors, vital registration serves as the primary data source for causes of death. The majority of causes of death data is obtained from vital registration sources, including those submitted to the World Health Organization (WHO) Mortality Database, as well as country-specific mortality databases managed by national authorities.

Two types of risk factor estimation are possible within the GBD framework: attributable burden and avoidable burden. Attributable burden refers to the reduction in current disease burden that would have occurred if past exposure had matched an alternative (counterfactual) risk distribution. In contrast, avoidable burden reflects the potential future reduction in disease if current exposures are modified. Murray and Lopez identified four

counterfactual exposure levels: (1) theoretical minimum risk, (2) plausible minimum risk, (3) feasible minimum risk, and (4) cost-effective minimum risk. The theoretical minimum risk exposure level (TMREL) is the exposure level associated with the lowest population risk and thus captures the maximum attributable burden of death.<sup>26</sup> Other benchmarks include plausible minimum risk (conceivably achievable), feasible minimum risk (the lowest observed in any population), and cost-effective minimum risk (achievable within economic constraints). Our study focuses on attributable burden, using the TMREL as the counterfactual standard.

### **Normalizing IHD Mortality by Prevalence.**

The age-standardized mortality-to-prevalence ratio (MPR) for IHD estimates the proportion of individuals with the disease who die annually, adjusted for age. It serves as a proxy for population-level case fatality and highlights disparities that crude death rates may obscure. Recent studies have applied this metric to assess outcome gaps. A 2024 GBD-based analysis in Europe found that although males have higher IHD prevalence and absolute mortality, females exhibited a higher MPR, suggesting greater per-case mortality risk in females.<sup>6</sup> This normalized measure, therefore, uncovers sex-based differences in survival not visible through raw rates alone.

Beyond sex differences, MPR is increasingly used to evaluate health system performance. Populations with similar IHD prevalence but higher MPRs likely face poorer care or delayed treatment. The GBD framework and Gates Foundation's Goalkeepers report use MPRs for chronic diseases as indicators of care quality, assuming improved management should reduce mortality relative to prevalence.

This approach is not unique to IHD. In oncology, the mortality-to-incidence ratio (MIR) serves a similar role. A recent global analysis of 36 cancers across 185 countries showed that low- and middle-income countries had higher MPRs and MIRs, reflecting worse survival.<sup>27</sup> Likewise, in multiple myeloma, a falling MPR, from 78% in 2008 to 22.8% in 2017, paralleled rising survival rates, illustrating how declining MPRs can reflect therapeutic progress.<sup>28</sup> In summary, MPR offers a valuable lens to assess disease outcomes across populations and track improvements in care quality.

## **Statistical Analysis.**

### **1. Comparing Mortality-to-Prevalence Ratios (MPRs).**

The Age-Standardized Mortality Rate (ASMR) and Age-Standardized Prevalence Rate (ASPR) were used to evaluate the burden of IHD relative to its prevalence by calculating the Mortality-to-Prevalence Ratio (MPR). The MPR was calculated using the formula:

**(a) Point Estimate:** The **MPR** was calculated using the following formula:

$MPR = ASMR / ASPR$ . This point estimate reflects the proportion of individuals with IHD who die from the disease, normalized for prevalence.

**(b) Uncertainty Ranges:** To account for the 95% uncertainty intervals (UIs) in ASMR and ASPR provided by the GBD, we estimated the uncertainty bounds for the MPR using a conservative bounding method (also known as the "extreme value method"):

**Lower bound** = Lower uncertainty limit of ASMR/Upper uncertainty limit of ASPR.  
(assuming the highest prevalence and lowest mortality).

**Upper bound** = Upper uncertainty limit of ASMR/ Lower uncertainty limit of ASPR.

(assuming the lowest prevalence and highest mortality).

This approach assumes the most extreme plausible values of the numerator and denominator, giving a conservative estimate of uncertainty. While this does not account for potential correlation between ASMR and ASPR, it is commonly used when the joint distribution is unavailable, such as in publicly reported GBD data.<sup>29,30</sup>

## **2. Expressing the MPR as a Percentage.**

To simplify interpretation, the MPR was expressed as a percentage by multiplying the index by 100. For example, assuming the following GBD values of ASMR = 150 (95% UI: 130–170) and ASPR = 2000 (95% UI: 1800–2200), the point estimate would be: 0.075, the lower bound would be: 0.059 and the upper bound would be: 0.094. When expressed as a percentage, the MPR would be: 7.5% with an uncertainty range of 5.9% to 9.4%.

## **3. Female-to-Male Ratios of the s age-standardized IHD mortality rates attributable to each risk factor**

To assess sex differences in IHD mortality attributable to individual risk factors, we calculated the female-to-male ratios (RRs) of the age-standardized IHD mortality rates attributable to each risk factor, for each U.S. state: using the following formula: Sex RR = ASMR-female/ASMR-male, where ASMR represents the age-standardized mortality rate attributable to a given risk factor. This approach provides a pragmatic estimate of sex disparities when joint distributions and individual-level data are unavailable.<sup>31,32</sup> In cases where GBD 2021 estimates included negative values within the 95% uncertainty intervals (UIs), these were considered model artifacts, as negative mortality rates are not biologically plausible. For such instances, we reported only the point estimate of the RR and flagged the

result as unstable. Confidence bounds were omitted, and interpretation was limited to qualitative assessment.

#### 4. Z-Test for Comparing Sex Ratios Between Population

To assess statistical differences in sex ratios (either MPR or PAF-based) across populations (e.g., across states), we performed a Z-test for two independent ratios. The Z-score was calculated using the following formula:

$$Z = \frac{(RR_1 - RR_2)}{\sqrt{(SE_1^2 + SE_2^2)}}$$

Where:

- $RR_1$  and  $RR_2$  are the ratios from two different states.
- $SE_1$  and  $SE_2$  are the standard errors for the two estimates.

A Z-score greater than 1.96 or less than -1.96 was considered statistically significant, corresponding to a 95% confidence level.

#### Standard Error Calculation for Risk Ratios

The standard error (SE) for each risk ratio was calculated to account for the variability within each population's ratio:

$$SE = \frac{UI\ Upper - UI\ Lower}{1.96 \times 2}$$

Where: UI Upper and UI lower represent the upper and lower bounds of the 95% uncertainty interval provided by the GBD. This formula derives SE directly from the width of the 95% uncertainty interval.

This is an approximation assuming the UI represents a symmetric 95% interval. Although this method may slightly overestimate uncertainty, it remains appropriate given the aggregate-level data from GBD.

## **5. Using Hawaii as a Reference State:**

Hawaii was selected as the reference state due to its relatively low MPR and balanced sex-specific mortality burden. Comparisons were made as follows:

***Female-to-female comparison:*** Each state's female MPR or PAF was compared to that of females in Hawaii

***Male-to-male comparison:*** Each state's male MPR or PAF was compared to that of males in Hawaii

This benchmarking approach highlights states with disproportionately high or low sex disparities relative to a reference with balanced burden levels.

## **Ischemic heart disease (IHD) definition:**

For the GBD 2021 framework, IHD was modelled as the aggregate of discrete sequelae, including acute myocardial infarction and chronic ischemic heart disease.<sup>33</sup>

### **Case Definitions**

1. **Acute Myocardial Infarction (MI):** Defined according to the fourth universal definition of MI,<sup>34</sup> this condition includes:
  - Clinical evidence of myocardial necrosis in a setting consistent with ischemia.
  - Detection of rising or falling cardiac biomarkers, accompanied by at least one of the following: symptoms of ischemia, new electrocardiographic changes (e.g., ST-segment/T-wave alterations), development of pathological Q waves, imaging evidence of new loss of viable myocardium or regional wall motion abnormalities, or the identification of an intracoronary thrombus.

- Sudden unexplained cardiac death, involving cardiac arrest without evidence of a non-coronary cause.

Unstable angina was also included when reported separately as specified in the fourth universal definition.

## 2. **Chronic IHD:**

- **Stable Angina:** Diagnosed based on clinical symptoms, physician assessment, or the use of nitrates for chest pain relief.
- **Asymptomatic Ischemic Heart Disease:** Includes cases surviving 28 days post-MI but excludes ECG-based estimates due to their limited specificity and sensitivity.

These precise case definitions ensure consistency in modelling and robust estimation of IHD's burden within the GBD framework, enabling targeted interventions at regional and global level.

## **Terminology**

As sex and gender often interact, we consistently used the term "sex" throughout the manuscript to reflect biological differences under investigation.

## **Generalizable population**

The generalizable population for the GBD study is based on World Bank estimates, incorporating total population and age/sex distributions from the United Nations Population Division's World Population Prospects: 2022 Revision (**Supplementary Table 63**).

**Table S1: Categories classifying GDP per capita by state, 2022.**

<b>Very High (\$80k or more).</b>	<b>GDP per Capita, 2022</b>
District of Columbia	242,853
New York	104,660
Massachusetts	98,750
Washington	94,470
North Dakota	94,021
California	93,460
Connecticut	88,760
Alaska	86,722
Delaware	85,977
Colorado	83,580
Nebraska	82,207
Illinois	81,730
Wyoming	81,586
New Jersey	81,260
<b>High (\$70k - \$80k)</b>	<b>GDP per Capita, 2022</b>
Texas	78,750
Minnesota	78,080
Maryland	77,680
United States	77,190
Virginia	76,080
New Hampshire	75,565
South Dakota	74,268
Utah	73,424
Iowa	72,221
Kansas	71,729
Oregon	70,548
Pennsylvania	70,350
Ohio	70,080
<b>Middle (\$60k - \$70k)</b>	<b>GDP per Capita, 2022</b>
Georgia	69,570
Indiana	68,530
Hawaii	68,207
Wisconsin	68,192
Tennessee	68,140
Nevada	67,962
North Carolina	66,070
Rhode Island	65,362
Arizona	64,010
Florida	63,640
Missouri	63,126
Vermont	62,771
Michigan	62,020
Louisiana	61,313

Maine	61,008
Low (\$60k or less)	GDP per Capita, 2022
Oklahoma	59,894
Montana	57,945
New Mexico	57,792
Kentucky	57,653
Idaho	56,496
South Carolina	56,066
Alabama	54,753
Arkansas	54,259
West Virginia	53,852
Mississippi	47,190

\*GDP per capita is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship. The values reported are midyear estimates. These data were complemented by the economic classifications from the Bureau of Economic Analysis (BEA) and the United States Census Bureau (USCB). The BEA provided gross domestic product (GDP) per capita by state.

The World Bank classification from 2022 was used as it is the closest available to the 2021 data and served as a relevant baseline for the analysis.

**Table S2: Dietary risk factor exposure GBD definitions and optimal level of exposure as defined by GBD 2021.**

Dietary Risk Factor	Definition of Exposure	Optimal level or range of intake
<b>Diet low in fruit</b>	Average daily consumption (in grams per day) of fruit including fresh, frozen, cooked, canned, or dried fruit, excluding fruit juices and salted or pickled fruits	340–350 g/day
<b>Diet low in vegetables</b>	Average daily consumption (in grams per day) of vegetables, including fresh, frozen, cooked, canned, or dried vegetables and excluding legumes and salted or pickled vegetables, juices, nuts and seeds, and starchy vegetables such as potatoes or corn	306–372 g/day
<b>Diet low in whole grains</b>	Average daily consumption (in grams per day) of whole grains (bran, germ, and endosperm in their natural proportion) from breakfast cereals, bread, rice, pasta, biscuits, muffins, tortillas, pancakes, and other sources	160–210 g/day
<b>Diet low in nuts and seeds</b>	Average daily consumption (in grams per day) of nuts and seeds, including tree nuts and seeds and peanuts	19–24 g/day
<b>Diet low in fibre</b>	Average daily consumption (in grams per day) of fibre from all sources including fruits, vegetables, grains, legumes, and pulses	22–25 g/day
<b>Diet low in seafood omega-3 fatty acids</b>	Average daily consumption (in milligrams per day) of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA)	470–660 mg/day
<b>Diet low in omega-6 polyunsaturated fatty acids</b>	Average daily consumption (in % daily energy) from omega-6 polyunsaturated fatty acids (PUFA) (specifically linoleic acid, $\gamma$ -linolenic acid, eicosadienoic acid, dihomo- $\gamma$ -linolenic acid, arachidonic acid)	9–10% of total daily energy
<b>Diet low in legumes</b>	Average daily consumption (in grams per day) of legumes and pulses, including fresh, frozen, cooked, canned, or dried legumes	100–110 g/day
<b>Diet high in red meat</b>	Average daily consumption (in grams per day) of unprocessed red meat including pork and bovine meats such as beef, pork, lamb, and goat, but excluding all processed meats, poultry, fish, and eggs	0–200 g/day
<b>Diet high in processed meat</b>	Average daily consumption (in grams per day) of meat preserved by smoking, curing, salting, or addition of chemical preservatives	0 g/day
<b>Diet high in sugar-sweetened beverages (SSBs)</b>	Average daily consumption (in grams per day) of beverages with $\geq 50$ kcal per 226.8 gram serving, including carbonated beverages, sodas, energy drinks, and fruit drinks, but excluding	0 g/day

<b>Diet high in trans fatty acids</b>	Average daily consumption (in percent daily energy) of trans fat from all sources, mainly partially hydrogenated vegetable oils and ruminant products	0–1.1% of total daily energy
<b>Diet high in sodium</b>	Average 24-hour urinary sodium excretion (in grams per day)	1–5 g/day

Note that GBD dietary risk factor modelling is for adult populations only (ages 25+).

States	Table S3. Z-Values of MPR (95% UI) in 2011 in individuals of all ages, per 100,000 inhabitants.							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	5.80	9.46	5.31	7.98	0.68	0.93	2.52	3.73 <sup>†</sup>
Alaska	3.90	6.92	4.61	7.41	0.72	0.77	1.70	1.91
Arizona	4.63	8.10	4.58	7.17	0.66	0.88	1.71	2.74 <sup>†</sup>
Arkansas	5.02	8.00	5.11	7.61	0.64	0.76	2.28	3.15 <sup>†</sup>
California	4.50	7.99	4.49	6.90	0.62	0.89	1.56	2.61 <sup>†</sup>
Colorado	4.75	8.57	4.54	7.30	0.71	0.98	1.68	2.80 <sup>†</sup>
Connecticut	3.72	6.73	3.79	5.92	0.54	0.77	0.54	1.78
Delaware	4.67	8.12	4.59	7.17	0.66	0.88	1.70	2.77 <sup>†</sup>
District of Columbia	5.25	9.05	5.39	8.57	0.81	0.97	2.53	3.16 <sup>†</sup>
Florida	3.18	5.49	3.66	5.44	0.46	0.59	0.17	1.01
Georgia	4.82	8.23	4.58	6.96	0.61	0.87	1.61	2.87 <sup>†</sup>
Hawaii	2.49	4.64	3.43	5.51	0.53	0.55	0.00	0.00
Idaho	4.88	8.45	5.25	8.33	0.78	0.91	2.45	2.88 <sup>†</sup>
Illinois	4.61	8.05	4.72	7.13	0.61	0.88	1.80	2.73 <sup>†</sup>
Indiana	4.34	7.17	4.45	6.63	0.56	0.72	1.44	2.43 <sup>†</sup>
Iowa	5.08	8.88	5.14	7.90	0.70	0.97	2.33	3.06 <sup>†</sup>
Kansas	4.61	7.92	4.65	7.20	0.65	0.85	1.77	2.71 <sup>†</sup>
Kentucky	4.78	7.58	4.80	7.20	0.61	0.71	1.92	2.87 <sup>†</sup>
Louisiana	5.05	7.97	4.86	7.16	0.59	0.74	1.96	3.15 <sup>†</sup>
Maine	4.00	7.01	3.79	5.89	0.54	0.77	0.54	2.05
Maryland	4.48	7.80	4.49	6.89	0.61	0.85	1.54	2.60 <sup>†</sup>
Massachusetts	3.77	6.68	3.98	6.09	0.54	0.74	0.81	1.82
Michigan	4.60	7.74	4.78	7.17	0.61	0.80	1.92	2.72 <sup>†</sup>
Minnesota	3.18	5.78	3.58	5.62	0.52	0.66	0.19	1.05
Mississippi	6.06	9.90	5.55	8.29	0.70	0.98	2.79 <sup>†</sup>	3.95 <sup>†</sup>
Missouri	4.99	8.32	4.79	7.33	0.65	0.85	1.95	3.04 <sup>†</sup>
Montana	4.49	7.93	4.95	7.75	0.72	0.88	2.12	2.56
Nebraska	4.06	7.20	4.29	6.68	0.61	0.80	1.32	2.08
Nevada	4.99	8.37	4.93	7.68	0.70	0.86	2.13	3.05 <sup>†</sup>
New Hampshire	4.06	7.33	4.16	6.70	0.65	0.84	1.15	2.08
New Jersey	4.50	7.75	4.20	6.52	0.59	0.83	1.22	2.60 <sup>†</sup>
New Mexico	4.75	8.41	4.56	7.11	0.65	0.93	1.67	2.78 <sup>†</sup>
New York	4.83	8.39	4.70	7.05	0.60	0.91	1.87	2.95 <sup>†</sup>
North Carolina	4.66	7.87	4.52	6.99	0.63	0.82	1.59	2.73 <sup>†</sup>
North Dakota	3.76	6.67	4.55	7.10	0.65	0.74	1.62	1.76
Ohio	4.59	7.58	4.61	6.85	0.57	0.76	1.66	2.68 <sup>†</sup>
Oklahoma	5.72	9.10	5.44	8.04	0.66	0.86	2.69 <sup>†</sup>	3.79 <sup>††</sup>
Oregon	3.99	7.02	4.46	6.99	0.65	0.77	1.49	1.98
Pennsylvania	4.59	8.03	4.63	7.13	0.64	0.88	1.72	2.68 <sup>†</sup>
Rhode Island	4.92	8.67	4.60	7.30	0.69	0.96	1.64	2.90 <sup>†</sup>
South Carolina	5.13	8.57	5.14	7.77	0.67	0.88	2.29	3.15 <sup>†</sup>
South Dakota	4.73	8.44	4.80	7.61	0.72	0.95	1.92	2.74 <sup>†</sup>

<b>Tennessee</b>	5.58	8.94	5.25	7.77	0.64	0.86	2.46	3.62 <sup>†</sup>
<b>Texas</b>	4.43	7.31	4.37	6.55	0.55	0.74	1.31	2.55
<b>Utah</b>	5.27	9.14	4.41	6.90	0.64	0.99	1.44	3.19 <sup>†</sup>
<b>Vermont</b>	3.64	6.46	4.02	6.37	0.60	0.72	0.85	1.65
<b>Virginia</b>	4.38	7.48	4.24	6.41	0.55	0.79	1.14	2.47
<b>Washington</b>	4.34	7.85	4.54	7.00	0.63	0.90	1.64	2.39
<b>West Virginia</b>	4.94	7.93	5.01	7.49	0.63	0.76	2.17	3.02 <sup>†</sup>
<b>Wisconsin</b>	4.73	8.29	4.89	7.60	0.69	0.91	2.09	2.80 <sup>†</sup>
<b>Wyoming</b>	4.03	7.02	4.80	7.56	0.71	0.76	1.87	2.08

<sup>†</sup> Indicates values exceeding the 99% uncertainty interval (UI), corresponding to a z-score of 2.58.  
 MPR = Mortality to Prevalence Ratio

Table S4. Z-Values of MPR (95% UI) in 2021 in individuals of all ages, per 100,000 inhabitants.

States	Table S4. Z-Values of MPR (95% UI) in 2021 in individuals of all ages, per 100,000 inhabitants.							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	4.33	9.17	4.15	8.68	1.15	1.23	1.38	2.38
Alaska	2.74	5.57	3.43	7.06	0.93	0.72	0.66	0.84
Arizona	3.56	7.75	3.72	7.94	1.08	1.07	1.03	1.79
Arkansas	4.60	9.32	4.57	9.46	1.25	1.20	1.65	2.61 <sup>†</sup>
California	3.23	7.23	3.53	7.26	0.95	1.02	0.80	1.55
Colorado	3.14	7.28	3.30	7.36	1.04	1.06	0.69	1.48
Connecticut	3.20	7.12	3.04	6.74	0.94	1.00	0.44	1.46
Delaware	3.68	7.26	3.85	7.66	0.97	0.91	1.06	1.97
District of Columbia	3.85	8.17	3.73	8.46	1.21	1.10	1.10	1.98
Florida	2.73	5.74	3.12	6.37	0.83	0.77	0.35	0.92
Georgia	3.76	7.81	3.52	7.58	1.04	1.03	0.86	1.99
Hawaii	2.06	4.50	2.77	6.01	0.82	0.62	0.00	0.00
Idaho	3.67	7.50	3.74	8.07	1.10	0.98	1.10	1.90
Illinois	3.41	7.52	3.60	7.66	1.03	1.05	0.85	1.73
Indiana	3.68	7.60	3.67	7.75	1.04	1.00	0.98	1.94
Iowa	3.95	8.61	4.27	9.08	1.23	1.19	1.46	2.09
Kansas	4.10	8.88	4.17	8.99	1.23	1.22	1.40	2.17
Kentucky	4.05	8.44	3.97	8.27	1.10	1.12	1.25	2.15
Louisiana	4.16	8.60	4.15	8.60	1.13	1.13	1.34	2.26
Maine	3.28	7.08	3.42	7.38	1.01	0.97	0.74	1.61
Maryland	3.51	7.93	3.53	7.55	1.03	1.13	0.85	1.74
Massachusetts	2.58	5.91	2.86	6.08	0.82	0.85	0.07	0.90
Michigan	3.62	7.65	3.81	7.84	1.03	1.03	1.11	1.91
Minnesota	2.80	6.17	2.91	6.47	0.91	0.86	0.29	1.04
Mississippi	4.82	9.96	4.74	9.82	1.29	1.31	1.85	2.68 <sup>†</sup>
Missouri	3.85	8.07	3.96	8.25	1.10	1.08	1.19	2.06
Montana	3.67	7.49	3.86	8.65	1.22	0.98	1.24	2.01
Nebraska	3.39	7.16	3.57	7.72	1.06	0.96	0.95	1.69
Nevada	4.10	8.04	4.24	8.93	1.20	1.01	1.48	2.27
New Hampshire	3.49	7.52	3.46	7.64	1.06	1.03	0.79	1.76
New Jersey	3.28	7.20	3.23	6.94	0.95	1.00	0.56	1.59
New Mexico	4.10	9.31	4.38	9.31	1.26	1.33	1.58	2.25
New York	3.78	8.30	3.84	8.02	1.07	1.15	1.13	2.00
North Carolina	3.52	7.63	3.55	7.67	1.05	1.05	0.91	1.79
North Dakota	2.71	5.85	3.31	6.61	0.84	0.80	0.56	0.91
Ohio	3.85	8.02	3.86	7.94	1.04	1.07	1.13	2.07
Oklahoma	4.23	8.55	3.95	8.00	1.03	1.10	1.19	2.32
Oregon	2.74	6.36	3.26	7.19	1.00	0.92	0.55	1.02
Pennsylvania	3.88	8.47	3.79	8.01	1.08	1.17	1.02	2.07
Rhode Island	3.74	8.30	3.81	8.23	1.13	1.16	1.10	1.95
South Carolina	3.89	8.18	3.81	8.08	1.09	1.09	1.12	2.03

<b>South Dakota</b>	3.40	7.16	4.29	8.73	1.13	0.96	1.43	1.75
<b>Tennessee</b>	4.41	9.09	4.41	9.24	1.23	1.19	1.58	2.44
<b>Texas</b>	3.67	7.62	3.85	7.72	0.99	1.01	1.04	1.93
<b>Utah</b>	4.13	8.40	3.49	7.42	1.00	1.09	0.79	2.31
<b>Vermont</b>	3.37	6.85	3.64	7.48	0.98	0.89	0.93	1.63
<b>Virginia</b>	3.51	7.53	3.32	7.10	0.97	1.02	0.61	1.77
<b>Washington</b>	3.01	6.91	3.29	6.88	0.92	0.99	0.58	1.31
<b>West Virginia</b>	4.59	9.39	4.16	8.57	1.12	1.22	1.41	2.53
<b>Wisconsin</b>	3.76	8.00	3.80	8.29	1.15	1.08	1.10	1.97
<b>Wyoming</b>	3.20	6.52	3.83	7.83	1.02	0.85	1.03	1.49

† Indicates values exceeding the 99% uncertainty interval (UI), corresponding to a z-score of 2.58.  
 MPR = Mortality to Prevalence Ratio

**Table S5. Age-standardised mortality rates for IHD attributable to High LDL cholesterol. 2011 , 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	46.72	25.71	0.55 (0.27 - 1.11)	40.49	20.75	0.51 (0.23 - 1.1)
<b>LB</b>	31.52	17.07		26.26	13.33	
<b>UB</b>	62.79	35.12		57.76	28.96	
<b>Alaska</b>	32.61	13.67	0.42 (0.2 - 0.89)	26.51	10.57	0.40 (0.18 - 0.84)
<b>LB</b>	21.62	8.77		17.80	6.82	
<b>UB</b>	44.04	19.15		37.26	14.87	
<b>Arizona</b>	32.93	17.05	0.52 (0.24 - 1.09)	29.45	13.75	0.47 (0.21 - 1.03)
<b>LB</b>	21.98	10.78		18.98	8.84	
<b>UB</b>	45.19	23.86		41.18	19.49	
<b>Arkansas</b>	51.21	26.86	0.52 (0.26 - 1.04)	48.14	25.32	0.53 (0.24 - 1.13)
<b>LB</b>	34.91	17.86		32.38	16.39	
<b>UB</b>	67.67	36.39		67.21	36.75	
<b>California</b>	31.05	16.49	0.53 (0.25 - 1.12)	26.75	12.27	0.46 (0.19 - 1.03)
<b>LB</b>	20.62	10.58		17.09	7.54	
<b>UB</b>	42.12	23.15		39.02	17.66	
<b>Colorado</b>	26.36	13.24	0.50 (0.23 - 1.06)	22.15	9.97	0.45 (0.18 - 1.03)
<b>LB</b>	17.70	8.38		14.21	5.84	
<b>UB</b>	35.91	18.81		31.58	14.67	
<b>Connecticut</b>	28.52	14.61	0.51 (0.24 - 1.08)	24.44	11.94	0.49 (0.21 - 1.18)
<b>LB</b>	19.06	9.28		14.90	7.51	
<b>UB</b>	39.05	20.62		35.49	17.52	
<b>Delaware</b>	35.41	19.44	0.55 (0.26 - 1.13)	29.81	14.81	0.50 (0.22 - 1.12)
<b>LB</b>	23.93	12.33		19.24	9.14	
<b>UB</b>	47.93	26.94		40.99	21.51	
<b>District of Columbia</b>	37.19	21.70	0.58 (0.28 - 1.19)	32.83	17.14	0.52 (0.24 - 1.16)
<b>LB</b>	24.73	14.29		21.27	11.15	
<b>UB</b>	50.15	29.37		46.46	24.65	
<b>Florida</b>	33.15	17.51	0.53 (0.25 - 1.1)	30.03	14.49	0.48 (0.21 - 1.09)
<b>LB</b>	22.10	11.28		19.39	9.13	
<b>UB</b>	45.41	24.25		43.17	21.06	
<b>Georgia</b>	36.70	20.06	0.55 (0.27 - 1.11)	32.97	16.59	0.50 (0.22 - 1.06)
<b>LB</b>	24.95	13.25		21.77	10.35	
<b>UB</b>	49.95	27.58		46.46	23.16	
<b>Hawaii</b>	27.37	11.20	0.41 (0.19 - 0.85)	23.68	8.95	0.38 (0.17 - 0.85)
<b>LB</b>	18.23	7.24		15.07	5.71	
<b>UB</b>	37.18	15.57		33.56	12.77	
<b>Idaho</b>	32.23	14.94	0.46 (0.21 - 1)	26.68	12.15	0.46 (0.2 - 1.02)
<b>LB</b>	21.14	9.48		16.98	7.62	

<b>UB</b>	44.27	21.24		38.46	17.36	
<b>Illinois</b> <b>LB</b> <b>UB</b>	36.32	18.96	0.52 (0.25 - 1.07)	30.57	15.10	0.49 (0.23 - 1.11)
	24.27	12.47		19.84	9.86	
	48.93	26.04		42.56	22.01	
<b>Indiana</b> <b>LB</b> <b>UB</b>	41.51	21.42	0.52 (0.25 - 1.06)	35.81	18.06	0.50 (0.23 - 1.12)
	27.77	13.96		23.05	11.37	
	56.05	29.49		49.48	25.73	
<b>Iowa</b> <b>LB</b> <b>UB</b>	36.82	19.03	0.52 (0.25 - 1.09)	34.53	15.77	0.46 (0.2 - 1.02)
	24.43	12.44		22.05	9.98	
	49.91	26.51		49.57	22.55	
<b>Kansas</b> <b>LB</b> <b>UB</b>	34.84	17.74	0.51 (0.24 - 1.06)	34.28	16.65	0.49 (0.22 - 1.07)
	23.10	11.47		22.66	10.68	
	47.16	24.48		48.06	24.24	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	47.00	24.26	0.52 (0.26 - 1.02)	41.22	21.19	0.51 (0.24 - 1.12)
	31.85	16.20		27.20	14.22	
	62.87	32.63		58.89	30.34	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	44.82	25.33	0.57 (0.28 - 1.13)	41.66	22.08	0.53 (0.24 - 1.18)
	30.54	16.83		26.26	13.89	
	59.97	34.36		58.03	31.09	
<b>Maine</b> <b>LB</b> <b>UB</b>	30.72	15.09	0.49 (0.22 - 1.04)	28.18	12.78	0.45 (0.19 - 1.04)
	20.35	9.54		17.44	7.70	
	42.61	21.17		40.84	18.15	
<b>Maryland</b> <b>LB</b> <b>UB</b>	33.47	19.02	0.57 (0.27 - 1.17)	28.54	15.01	0.53 (0.23 - 1.18)
	22.48	12.37		18.92	9.38	
	45.81	26.20		40.81	22.25	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	30.30	14.48	0.48 (0.23 - 1.03)	22.37	10.44	0.47 (0.19 - 1.07)
	19.93	9.31		14.18	6.31	
	41.10	20.50		33.19	15.18	
<b>Michigan</b> <b>LB</b> <b>UB</b>	43.04	23.31	0.54 (0.26 - 1.12)	36.12	18.13	0.50 (0.22 - 1.12)
	28.75	15.07		23.73	11.13	
	58.31	32.16		50.58	26.66	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	25.54	10.70	0.42 (0.19 - 0.89)	22.56	9.72	0.43 (0.18 - 1.05)
	17.12	6.72		13.90	6.00	
	34.76	15.27		32.52	14.53	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	49.91	27.05	0.54 (0.28 - 1.09)	48.23	23.93	0.50 (0.23 - 1.05)
	34.08	18.43		31.88	15.59	
	66.00	37.13		67.75	33.61	
<b>Missouri</b> <b>LB</b> <b>UB</b>	43.61	23.79	0.55 (0.27 - 1.12)	38.51	19.05	0.49 (0.22 - 1.1)
	29.09	15.85		25.19	12.24	
	58.42	32.46		55.71	27.68	
<b>Montana</b> <b>LB</b> <b>UB</b>	32.82	14.68	0.45 (0.21 - 0.93)	30.60	13.16	0.43 (0.18 - 0.95)
	22.08	9.26		19.64	8.12	
	45.01	20.50		45.51	18.59	
<b>Nebraska</b>	30.30	14.23	0.47	27.87	12.65	0.45

<b>LB</b> <b>UB</b>	20.18	8.99	(0.22 - 0.99)	17.75	7.73	(0.2 - 1)
	41.70	19.96		39.48	17.83	
<b>Nevada</b> <b>LB</b> <b>UB</b>	37.21	19.68	0.53 (0.25 - 1.1)	35.54	16.50	0.46 (0.21 - 1.02)
	24.98	12.69		22.86	10.40	
	50.50	27.36		50.53	23.31	
<b>New Hampshire</b> <b>LB</b> <b>UB</b>	30.06	14.66	0.49 (0.22 - 1.08)	26.35	12.61	0.48 (0.2 - 1.1)
	19.39	9.23		16.74	7.53	
	41.58	20.91		38.44	18.40	
<b>New Jersey</b> <b>LB</b> <b>UB</b>	34.06	18.74	0.55 (0.26 - 1.17)	27.11	13.74	0.51 (0.22 - 1.17)
	22.77	11.97		17.20	8.38	
	46.94	26.60		38.75	20.19	
<b>New Mexico</b> <b>LB</b> <b>UB</b>	31.25	16.64	0.53 (0.25 - 1.11)	33.81	15.54	0.46 (0.21 - 1.06)
	20.83	10.70		21.68	9.88	
	42.17	23.05		48.06	23.05	
<b>New York</b> <b>LB</b> <b>UB</b>	38.03	21.88	0.58 (0.26 - 1.22)	32.36	16.61	0.51 (0.22 - 1.13)
	25.20	13.78		21.33	10.31	
	52.27	30.77		45.86	24.11	
<b>North Carolina</b> <b>LB</b> <b>UB</b>	37.36	19.22	0.51 (0.25 - 1.04)	31.73	15.54	0.49 (0.22 - 1.07)
	25.41	12.69		20.28	9.63	
	50.28	26.41		44.53	21.69	
<b>North Dakota</b> <b>LB</b> <b>UB</b>	33.82	14.87	0.44 (0.21 - 0.92)	27.44	11.21	0.41 (0.18 - 0.89)
	22.50	9.50		17.82	6.90	
	46.15	20.73		38.05	15.88	
<b>Ohio</b> <b>LB</b> <b>UB</b>	40.56	21.93	0.54 (0.27 - 1.12)	35.74	18.65	0.52 (0.22 - 1.17)
	27.18	14.58		23.18	11.59	
	54.89	30.39		51.64	27.14	
<b>Oklahoma</b> <b>LB</b> <b>UB</b>	51.07	28.96	0.57 (0.28 - 1.15)	39.73	21.79	0.55 (0.25 - 1.17)
	34.23	19.33		26.08	13.96	
	68.42	39.37		56.69	30.61	
<b>Oregon</b> <b>LB</b> <b>UB</b>	27.48	12.13	0.44 (0.21 - 0.93)	22.76	9.37	0.41 (0.17 - 0.92)
	18.34	7.73		14.74	5.72	
	37.69	17.03		33.04	13.59	
<b>Pennsylvania</b> <b>LB</b> <b>UB</b>	37.53	19.45	0.52 (0.25 - 1.08)	31.43	16.15	0.51 (0.23 - 1.14)
	25.05	12.64		20.59	10.18	
	50.68	27.02		45.07	23.49	
<b>Rhode Island</b> <b>LB</b> <b>UB</b>	35.16	19.35	0.55 (0.26 - 1.17)	29.83	14.67	0.49 (0.21 - 1.18)
	23.09	12.31		18.44	8.92	
	47.89	27.10		42.75	21.71	
<b>South Carolina</b> <b>LB</b> <b>UB</b>	42.70	20.82	0.49 (0.24 - 0.96)	35.58	16.74	0.47 (0.22 - 0.98)
	29.47	13.82		23.79	10.72	
	56.86	28.34		49.70	23.33	
<b>South Dakota</b> <b>LB</b> <b>UB</b>	35.23	16.03	0.45 (0.21 - 0.95)	33.68	13.08	0.39 (0.18 - 0.81)
	23.30	10.20		22.46	8.44	
	48.23	22.18		46.70	18.27	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	48.61	26.10	0.54 (0.26 - 1.06)	44.59	21.59	0.48 (0.23 - 1.03)
	33.51	17.20		28.99	14.11	
	65.37	35.61		61.46	29.80	
<b>Texas</b> <b>LB</b> <b>UB</b>	36.27	20.07	0.55 (0.27 - 1.15)	33.76	16.80	0.50 (0.21 - 1.08)
	24.35	13.13		22.10	10.03	
	49.25	27.90		48.52	23.84	
<b>Utah</b> <b>LB</b> <b>UB</b>	26.54	14.70	0.55 (0.25 - 1.2)	22.37	12.20	0.55 (0.23 - 1.29)
	17.45	9.18		13.60	7.57	
	36.38	20.86		32.70	17.60	
<b>Vermont</b> <b>LB</b> <b>UB</b>	30.94	14.07	0.45 (0.21 - 0.96)	29.21	12.86	0.44 (0.2 - 0.93)
	20.63	8.88		19.49	8.15	
	42.87	19.87		41.51	18.11	
<b>Virginia</b> <b>LB</b> <b>UB</b>	32.67	17.63	0.54 (0.26 - 1.12)	28.38	14.82	0.52 (0.23 - 1.17)
	21.96	11.57		18.33	9.25	
	44.26	24.50		39.66	21.44	
<b>Washington</b> <b>LB</b> <b>UB</b>	28.83	14.03	0.49 (0.23 - 1.04)	24.10	10.88	0.45 (0.2 - 1.04)
	18.87	8.91		15.48	6.71	
	39.25	19.65		33.87	16.17	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	48.14	26.57	0.55 (0.27 - 1.1)	41.84	24.12	0.58 (0.26 - 1.27)
	32.88	17.65		27.48	15.20	
	64.43	36.28		57.87	34.83	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	33.43	16.22	0.49 (0.23 - 1.02)	29.21	13.65	0.47 (0.21 - 1.02)
	22.15	10.49		19.16	8.75	
	45.60	22.69		42.13	19.61	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	34.07	15.69	0.46 (0.22 - 0.93)	28.89	12.60	0.44 (0.2 - 0.99)
	23.19	10.21		18.30	8.10	
	45.40	21.60		41.12	18.15	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	36.13	19.18	0.53 (0.26 - 1.11)	31.40	15.45	0.49 (0.23 - 1.02)
	24.09	12.55		21.02	10.00	
	49.06	26.72		42.68	21.46	

**Table S6. Age-standardised mortality rates for IHD attributable to High systolic blood pressure. 2011 , 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
Alabama LB UB	65.73	43.18	0.66 (0.4 - 1.04)	59.05	36.39	0.62 (0.31 - 1.1)
	50.79	32.29		42.69	24.43	
	80.00	52.94		78.36	47.06	
Alaska LB UB	48.41	24.61	0.51 (0.3 - 0.84)	40.74	18.41	0.45 (0.22 - 0.87)
	36.45	17.93		27.71	12.51	
	59.41	30.67		55.76	23.98	
Arizona LB UB	49.11	30.78	0.63 (0.36 - 1.04)	44.56	24.95	0.56 (0.28 - 1.08)
	36.90	21.97		30.26	17.20	
	60.50	38.34		60.83	32.73	
Arkansas LB UB	70.09	43.65	0.62 (0.38 - 1.01)	67.48	41.18	0.61 (0.32 - 1.18)
	52.88	32.29		46.17	29.02	
	85.76	53.53		89.40	54.39	
California LB UB	47.56	30.91	0.65 (0.37 - 1.09)	40.65	23.04	0.57 (0.28 - 1.14)
	35.16	21.89		27.60	15.64	
	58.75	38.42		55.72	31.43	
Colorado LB UB	40.46	24.62	0.61 (0.36 - 1.02)	34.99	19.75	0.56 (0.28 - 1.1)
	30.08	17.78		23.98	13.39	
	49.48	30.67		47.50	26.28	
Connecticut LB UB	43.97	27.43	0.62 (0.36 - 1.06)	38.74	23.41	0.60 (0.29 - 1.19)
	32.36	19.52		26.33	15.57	
	53.86	34.26		54.08	31.39	
Delaware LB UB	53.11	35.28	0.66 (0.39 - 1.11)	46.85	27.04	0.58 (0.31 - 1.07)
	39.39	25.49		33.39	18.70	
	64.78	43.58		60.55	35.74	
District of Columbia LB UB	52.34	34.23	0.65 (0.38 - 1.09)	44.91	27.48	0.61 (0.3 - 1.22)
	39.00	24.84		30.17	18.88	
	64.75	42.61		62.35	36.76	
Florida LB UB	49.40	31.15	0.63 (0.37 - 1.05)	45.33	26.07	0.58 (0.3 - 1.08)
	37.30	22.38		31.99	17.80	
	60.58	39.10		60.31	34.54	
Georgia LB UB	53.55	34.62	0.65 (0.39 - 1.05)	47.65	28.45	0.60 (0.31 - 1.16)
	40.19	25.88		31.95	20.01	
	65.78	42.31		64.16	36.98	
Hawaii LB UB	37.42	19.10	0.51 (0.29 - 0.86)	32.69	15.70	0.48 (0.23 - 0.96)
	27.89	13.38		21.77	10.42	
	46.82	23.95		44.56	20.80	
Idaho LB	49.27	28.42	0.58 (0.34 - 0.94)	42.54	22.89	0.54 (0.28 - 1.03)
	37.24	20.80		29.19	16.33	

<b>UB</b>	60.82	35.04		57.37	29.92		
<b>Illinois</b>	54.38	33.88	0.62 (0.37 - 1.05)	47.22	27.74	0.59 (0.3 - 1.15)	
	<b>LB</b>	40.25		24.75	31.39		18.95
	<b>UB</b>	66.31		42.11	64.06		36.14
<b>Indiana</b>	60.50	37.37	0.62 (0.37 - 1)	54.94	32.38	0.59 (0.3 - 1.11)	
	<b>LB</b>	46.03		27.67	37.48		22.43
	<b>UB</b>	74.16		45.86	73.96		41.46
<b>Iowa</b>	54.94	33.69	0.61 (0.36 - 1)	52.38	28.34	0.54 (0.28 - 1.07)	
	<b>LB</b>	41.36		24.43	35.88		19.50
	<b>UB</b>	67.81		41.50	70.88		38.42
<b>Kansas</b>	51.51	31.63	0.61 (0.37 - 1.02)	52.26	30.70	0.59 (0.31 - 1.1)	
	<b>LB</b>	38.17		23.21	35.96		21.63
	<b>UB</b>	63.51		38.97	70.56		39.69
<b>Kentucky</b>	66.51	40.54	0.61 (0.37 - 0.98)	60.03	35.65	0.59 (0.33 - 1.13)	
	<b>LB</b>	50.43		30.33	41.78		25.74
	<b>UB</b>	81.69		49.28	78.98		47.37
<b>Louisiana</b>	64.10	40.83	0.64 (0.39 - 1.02)	61.83	37.87	0.61 (0.32 - 1.13)	
	<b>LB</b>	49.25		30.41	43.83		26.08
	<b>UB</b>	78.13		50.21	80.25		49.39
<b>Maine</b>	45.49	28.47	0.63 (0.38 - 1.04)	43.22	24.82	0.57 (0.29 - 1.07)	
	<b>LB</b>	33.62		21.07	30.28		16.87
	<b>UB</b>	55.55		35.07	58.73		32.36
<b>Maryland</b>	50.25	33.97	0.68 (0.4 - 1.13)	43.44	27.22	0.63 (0.33 - 1.27)	
	<b>LB</b>	37.52		24.64	28.98		19.11
	<b>UB</b>	61.45		42.30	58.07		36.82
<b>Massachusetts</b>	46.43	27.10	0.58 (0.35 - 0.97)	35.83	20.12	0.56 (0.29 - 1.1)	
	<b>LB</b>	34.87		19.66	24.64		13.96
	<b>UB</b>	56.81		33.77	48.43		27.01
<b>Michigan</b>	63.41	40.29	0.64 (0.39 - 1.03)	54.77	31.56	0.58 (0.29 - 1.09)	
	<b>LB</b>	48.17		29.84	38.33		21.26
	<b>UB</b>	77.20		49.58	74.33		41.68
<b>Minnesota</b>	38.11	19.77	0.52 (0.3 - 0.88)	34.62	17.99	0.52 (0.25 - 1.05)	
	<b>LB</b>	28.33		14.12	22.80		12.02
	<b>UB</b>	46.79		24.83	47.85		23.87
<b>Mississippi</b>	68.97	44.32	0.64 (0.39 - 1.02)	67.62	38.16	0.56 (0.3 - 1.04)	
	<b>LB</b>	53.00		33.24	48.06		27.02
	<b>UB</b>	84.44		53.82	90.18		50.15
<b>Missouri</b>	62.34	39.61	0.64 (0.39 - 1.05)	56.31	32.51	0.58 (0.3 - 1.11)	
	<b>LB</b>	46.72		29.52	39.38		22.05
	<b>UB</b>	76.12		48.86	73.54		43.52
<b>Montana</b>	47.10	25.81	0.55 (0.32 - 0.91)	44.83	24.48	0.55 (0.27 - 1.04)	
	<b>LB</b>	35.24		18.49	30.26		16.69
	<b>UB</b>	58.46		32.11	61.70		31.50
<b>Nebraska</b>	45.56	26.82	0.59	43.30	24.16	0.56	

<b>LB</b>	34.38	19.52	(0.35 - 0.96)	29.61	16.28	(0.28 - 1.07)
<b>UB</b>	55.90	33.01		58.27	31.67	
<b>Nevada</b>	55.87	35.88	0.64 (0.39 - 1.07)	54.33	30.49	0.56 (0.29 - 1.07)
<b>LB</b>	41.12	26.66		36.78	21.43	
<b>UB</b>	68.08	43.98		73.65	39.38	
<b>New Hampshire</b>	47.10	28.75	0.61 (0.36 - 1.01)	41.84	25.36	0.61 (0.31 - 1.18)
<b>LB</b>	34.76	21.07		28.38	17.40	
<b>UB</b>	58.06	35.18		56.87	33.38	
<b>New Jersey</b>	53.01	34.60	0.65 (0.38 - 1.09)	42.60	26.13	0.61 (0.3 - 1.24)
<b>LB</b>	39.77	24.80		28.88	17.17	
<b>UB</b>	64.84	43.32		57.82	35.72	
<b>New Mexico</b>	46.19	30.41	0.66 (0.38 - 1.1)	48.82	28.12	0.58 (0.29 - 1.09)
<b>LB</b>	34.15	21.89		33.99	19.08	
<b>UB</b>	57.24	37.58		64.97	37.21	
<b>New York</b>	58.67	40.71	0.69 (0.4 - 1.16)	49.74	31.27	0.63 (0.32 - 1.25)
<b>LB</b>	43.05	28.98		33.80	21.24	
<b>UB</b>	72.04	49.87		66.31	42.27	
<b>North Carolina</b>	53.16	32.71	0.62 (0.37 - 1.03)	46.31	26.54	0.57 (0.3 - 1.09)
<b>LB</b>	39.46	24.22		32.19	18.57	
<b>UB</b>	65.30	40.62		61.45	35.21	
<b>North Dakota</b>	49.16	26.44	0.54 (0.32 - 0.92)	40.45	20.57	0.51 (0.25 - 1)
<b>LB</b>	36.16	19.19		28.17	13.71	
<b>UB</b>	60.41	33.19		54.00	28.18	
<b>Ohio</b>	60.23	38.84	0.64 (0.39 - 1.05)	54.66	33.47	0.61 (0.32 - 1.14)
<b>LB</b>	45.15	28.84		38.19	23.23	
<b>UB</b>	73.82	47.46		73.67	43.72	
<b>Oklahoma</b>	73.79	48.38	0.66 (0.4 - 1.03)	58.43	37.14	0.64 (0.33 - 1.19)
<b>LB</b>	56.58	35.93		41.80	25.45	
<b>UB</b>	90.24	58.45		78.26	49.81	
<b>Oregon</b>	42.48	22.90	0.54 (0.32 - 0.89)	36.08	17.83	0.49 (0.25 - 0.98)
<b>LB</b>	31.52	16.69		24.41	12.07	
<b>UB</b>	51.93	28.16		48.52	23.96	
<b>Pennsylvania</b>	56.76	34.97	0.62 (0.37 - 1)	48.70	28.67	0.59 (0.3 - 1.12)
<b>LB</b>	43.32	25.62		34.00	19.54	
<b>UB</b>	69.50	43.33		64.30	38.00	
<b>Rhode Island</b>	54.82	36.09	0.66 (0.39 - 1.09)	48.73	28.62	0.59 (0.29 - 1.13)
<b>LB</b>	40.77	26.34		33.47	19.05	
<b>UB</b>	67.21	44.45		66.58	37.76	
<b>South Carolina</b>	59.05	34.73	0.59 (0.36 - 0.96)	51.55	29.30	0.57 (0.3 - 1.08)
<b>LB</b>	44.76	25.69		35.93	20.63	
<b>UB</b>	72.12	42.78		69.00	38.72	
<b>South Dakota</b>	52.87	28.86	0.55 (0.32 - 0.93)	50.03	23.11	0.46 (0.23 - 0.86)
<b>LB</b>	38.73	20.90		35.12	15.76	
<b>UB</b>	64.61	35.90		67.16	30.28	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	68.66	44.02	0.64 (0.4 - 1.03)	63.94	36.92	0.58 (0.31 - 1.09)
	52.06	33.33		44.70	25.62	
	84.23	53.66		83.13	48.84	
<b>Texas</b> <b>LB</b> <b>UB</b>	53.58	34.84	0.65 (0.39 - 1.06)	50.62	29.51	0.58 (0.3 - 1.08)
	40.22	25.66		35.86	20.42	
	66.28	42.76		67.22	38.82	
<b>Utah</b> <b>LB</b> <b>UB</b>	42.49	29.37	0.69 (0.4 - 1.15)	36.99	24.75	0.67 (0.33 - 1.28)
	31.60	21.09		25.50	16.92	
	52.26	36.19		50.61	32.63	
<b>Vermont</b> <b>LB</b> <b>UB</b>	47.51	27.12	0.57 (0.33 - 0.96)	45.18	24.18	0.54 (0.27 - 0.98)
	35.25	19.46		31.73	16.13	
	58.21	33.77		60.14	31.19	
<b>Virginia</b> <b>LB</b> <b>UB</b>	48.77	31.04	0.64 (0.38 - 1.03)	41.96	26.24	0.63 (0.31 - 1.24)
	37.45	22.44		28.48	17.26	
	59.07	38.52		56.08	35.21	
<b>Washington</b> <b>LB</b> <b>UB</b>	45.08	26.16	0.58 (0.34 - 0.97)	38.05	20.54	0.54 (0.28 - 1.05)
	33.53	18.92		26.05	14.01	
	55.73	32.53		50.60	27.35	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	68.09	46.15	0.68 (0.41 - 1.1)	60.28	42.00	0.70 (0.37 - 1.35)
	51.16	34.19		41.62	29.35	
	83.55	56.11		80.30	56.38	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	51.69	29.64	0.57 (0.34 - 0.95)	46.17	24.99	0.54 (0.29 - 1.05)
	38.77	21.55		31.68	18.03	
	63.37	36.93		62.77	33.33	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	49.21	27.53	0.56 (0.33 - 0.93)	42.46	22.79	0.54 (0.28 - 1.02)
	36.32	20.04		28.95	15.67	
	60.91	33.94		55.78	29.67	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	53.75	34.11	0.63 (0.38 - 1.03)	47.45	27.83	0.59 (0.34 - 1)
	40.52	25.17		34.99	20.40	
	65.60	41.80		59.18	34.91	

**Table S7. Age-standardised mortality rates for IHD attributable to High fasting plasma glucose. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	32.40	16.24	0.50 (0.37 - 0.68)	30.69	14.08	0.46 (0.29 - 0.74)
<b>LB</b>	27.81	13.64		23.54	10.93	
<b>UB</b>	37.21	19.00		37.70	17.51	
<b>Alaska</b>	22.66	9.07	0.40 (0.27 - 0.57)	20.73	7.26	0.35 (0.22 - 0.55)
<b>LB</b>	19.13	7.29		16.30	5.68	
<b>UB</b>	26.52	10.86		25.67	8.94	
<b>Arizona</b>	23.11	10.57	0.46 (0.31 - 0.64)	23.08	9.50	0.41 (0.25 - 0.66)
<b>LB</b>	19.81	8.39		17.88	7.31	
<b>UB</b>	26.82	12.64		28.98	11.89	
<b>Arkansas</b>	32.97	15.30	0.46 (0.34 - 0.64)	34.69	15.76	0.45 (0.28 - 0.72)
<b>LB</b>	28.33	12.78		26.84	12.18	
<b>UB</b>	37.70	18.20		43.52	19.36	
<b>California</b>	21.95	10.37	0.47 (0.32 - 0.66)	20.90	8.61	0.41 (0.25 - 0.67)
<b>LB</b>	18.70	8.16		16.18	6.50	
<b>UB</b>	25.27	12.30		25.98	10.80	
<b>Colorado</b>	18.01	7.63	0.42 (0.29 - 0.59)	17.07	6.77	0.40 (0.23 - 0.64)
<b>LB</b>	15.33	5.97		13.41	5.01	
<b>UB</b>	20.86	9.10		21.55	8.59	
<b>Connecticut</b>	21.17	9.76	0.46 (0.31 - 0.65)	20.77	9.05	0.44 (0.25 - 0.72)
<b>LB</b>	17.94	7.54		16.00	6.69	
<b>UB</b>	24.61	11.61		26.51	11.53	
<b>Delaware</b>	27.27	13.55	0.50 (0.35 - 0.69)	26.37	11.09	0.42 (0.27 - 0.64)
<b>LB</b>	23.16	10.98		21.00	8.84	
<b>UB</b>	31.61	16.06		32.73	13.54	
<b>District of Columbia</b>	23.49	12.48	0.53 (0.37 - 0.75)	21.41	10.64	0.50 (0.3 - 0.83)
<b>LB</b>	19.84	10.21		16.12	8.18	
<b>UB</b>	27.32	14.82		27.06	13.32	
<b>Florida</b>	24.23	11.15	0.46 (0.32 - 0.64)	24.47	9.99	0.41 (0.25 - 0.67)
<b>LB</b>	20.69	8.91		18.88	7.52	
<b>UB</b>	27.83	13.31		29.99	12.65	
<b>Georgia</b>	26.70	13.11	0.49 (0.34 - 0.67)	25.74	11.50	0.45 (0.28 - 0.71)
<b>LB</b>	22.92	10.62		19.97	8.88	
<b>UB</b>	30.84	15.37		31.94	14.26	
<b>Hawaii</b>	17.36	7.16	0.41 (0.27 - 0.58)	16.27	6.29	0.39 (0.22 - 0.65)
<b>LB</b>	14.67	5.56		12.07	4.65	
<b>UB</b>	20.49	8.44		20.80	7.86	
<b>Idaho</b>	23.03	10.02	0.44 (0.3 - 0.6)	21.55	8.72	0.40 (0.24 - 0.66)
<b>LB</b>	19.58	7.98		16.66	6.69	

<b>UB</b>	26.67	11.84		27.31	10.92	
<b>Illinois</b> <b>LB</b> <b>UB</b>	25.58	12.15	0.48 (0.34 - 0.64)	24.28	10.52	0.43 (0.26 - 0.71)
	22.26	9.97		18.73	8.01	
	29.45	14.20		30.93	13.34	
<b>Indiana</b> <b>LB</b> <b>UB</b>	30.63	14.42	0.47 (0.33 - 0.66)	30.22	13.32	0.44 (0.28 - 0.71)
	25.74	11.83		23.45	10.33	
	35.36	16.98		37.43	16.54	
<b>Iowa</b> <b>LB</b> <b>UB</b>	26.37	11.81	0.45 (0.31 - 0.62)	27.78	10.82	0.39 (0.24 - 0.65)
	22.68	9.55		21.38	8.27	
	30.40	14.16		34.53	13.84	
<b>Kansas</b> <b>LB</b> <b>UB</b>	24.80	11.47	0.46 (0.33 - 0.63)	27.91	11.86	0.43 (0.26 - 0.69)
	21.43	9.29		21.62	8.95	
	28.49	13.45		35.00	14.96	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	33.49	15.54	0.46 (0.33 - 0.63)	32.12	14.36	0.45 (0.28 - 0.73)
	28.84	12.93		24.38	11.26	
	38.62	18.26		40.67	17.85	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	31.90	16.38	0.51 (0.37 - 0.69)	33.39	15.68	0.47 (0.3 - 0.73)
	27.45	13.62		26.41	12.29	
	36.90	18.99		41.29	19.40	
<b>Maine</b> <b>LB</b> <b>UB</b>	22.90	10.42	0.46 (0.31 - 0.64)	23.77	9.68	0.41 (0.24 - 0.68)
	19.35	8.25		18.07	7.27	
	26.61	12.47		30.52	12.33	
<b>Maryland</b> <b>LB</b> <b>UB</b>	25.12	12.81	0.51 (0.35 - 0.7)	23.90	11.02	0.46 (0.27 - 0.75)
	21.35	10.12		18.71	8.10	
	29.30	15.02		30.24	14.07	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	22.54	9.53	0.42 (0.29 - 0.59)	19.16	7.67	0.40 (0.23 - 0.67)
	19.47	7.51		14.72	5.57	
	26.25	11.40		24.39	9.84	
<b>Michigan</b> <b>LB</b> <b>UB</b>	31.93	15.84	0.50 (0.35 - 0.68)	30.67	13.77	0.45 (0.28 - 0.73)
	27.32	13.01		23.61	10.59	
	36.93	18.62		37.89	17.24	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	18.21	6.86	0.38 (0.25 - 0.54)	18.17	6.92	0.38 (0.23 - 0.63)
	15.38	5.25		13.80	5.24	
	21.03	8.23		23.10	8.66	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	32.98	16.68	0.51 (0.37 - 0.69)	34.74	15.22	0.44 (0.28 - 0.69)
	28.18	14.04		27.31	12.03	
	37.85	19.34		43.17	18.94	
<b>Missouri</b> <b>LB</b> <b>UB</b>	30.79	14.99	0.49 (0.35 - 0.66)	30.30	13.11	0.43 (0.27 - 0.7)
	26.43	12.33		23.48	10.16	
	35.27	17.55		38.10	16.37	
<b>Montana</b> <b>LB</b> <b>UB</b>	22.10	8.94	0.40 (0.28 - 0.56)	22.87	9.03	0.39 (0.24 - 0.61)
	18.82	7.10		17.85	7.03	
	25.78	10.55		29.09	10.91	
<b>Nebraska</b>	22.28	9.57	0.43	23.18	9.26	0.40

<b>LB</b>	18.96	7.65	(0.3 - 0.6)	17.83	7.20	(0.25 - 0.65)
<b>UB</b>	25.84	11.30		28.97	11.61	
<b>Nevada</b>	27.17	12.72	0.47 (0.33 - 0.65)	28.76	11.65	0.41 (0.25 - 0.66)
<b>LB</b>	23.25	10.31		21.84	9.00	
<b>UB</b>	31.28	15.04		35.42	14.41	
<b>New Hampshire</b>	23.92	10.23	0.43 (0.29 - 0.6)	23.53	9.75	0.41 (0.25 - 0.7)
<b>LB</b>	20.27	8.12		17.81	7.42	
<b>UB</b>	28.04	12.22		29.94	12.38	
<b>New Jersey</b>	25.53	12.44	0.49 (0.34 - 0.69)	23.17	10.27	0.44 (0.25 - 0.75)
<b>LB</b>	21.49	9.89		17.45	7.46	
<b>UB</b>	29.45	14.92		29.29	13.06	
<b>New Mexico</b>	22.30	11.14	0.50 (0.34 - 0.7)	25.97	11.22	0.43 (0.26 - 0.7)
<b>LB</b>	18.98	8.89		20.17	8.41	
<b>UB</b>	26.10	13.28		32.76	14.16	
<b>New York</b>	29.58	15.28	0.52 (0.35 - 0.72)	28.31	12.82	0.45 (0.25 - 0.74)
<b>LB</b>	25.18	12.15		21.77	9.05	
<b>UB</b>	34.25	18.09		36.21	16.20	
<b>North Carolina</b>	27.00	12.66	0.47 (0.33 - 0.64)	25.52	10.92	0.43 (0.26 - 0.7)
<b>LB</b>	23.34	10.14		19.59	8.29	
<b>UB</b>	31.20	15.05		31.96	13.76	
<b>North Dakota</b>	25.03	9.77	0.39 (0.26 - 0.56)	22.58	8.40	0.37 (0.22 - 0.58)
<b>LB</b>	20.80	7.63		18.16	6.22	
<b>UB</b>	28.94	11.63		27.70	10.50	
<b>Ohio</b>	30.77	15.16	0.49 (0.35 - 0.68)	30.45	13.91	0.46 (0.28 - 0.73)
<b>LB</b>	26.21	12.43		23.93	10.48	
<b>UB</b>	35.60	17.91		37.93	17.47	
<b>Oklahoma</b>	36.03	17.99	0.50 (0.36 - 0.68)	31.37	14.84	0.47 (0.29 - 0.76)
<b>LB</b>	31.04	14.74		24.58	11.42	
<b>UB</b>	41.40	21.00		39.18	18.69	
<b>Oregon</b>	19.42	7.53	0.39 (0.27 - 0.55)	18.10	6.51	0.36 (0.21 - 0.6)
<b>LB</b>	16.52	6.03		13.91	4.87	
<b>UB</b>	22.70	9.02		23.22	8.30	
<b>Pennsylvania</b>	27.29	12.94	0.47 (0.33 - 0.66)	25.84	11.62	0.45 (0.27 - 0.73)
<b>LB</b>	23.43	10.39		20.00	8.85	
<b>UB</b>	31.74	15.39		32.58	14.55	
<b>Rhode Island</b>	26.57	12.72	0.48 (0.33 - 0.67)	26.03	11.07	0.43 (0.24 - 0.7)
<b>LB</b>	22.49	10.13		19.82	8.34	
<b>UB</b>	30.79	15.17		34.18	13.81	
<b>South Carolina</b>	29.18	13.10	0.45 (0.32 - 0.62)	27.26	11.54	0.42 (0.26 - 0.68)
<b>LB</b>	25.01	10.74		21.27	8.95	
<b>UB</b>	33.67	15.40		34.01	14.48	
<b>South Dakota</b>	25.34	9.96	0.39 (0.26 - 0.55)	26.44	8.79	0.33 (0.2 - 0.53)
<b>LB</b>	21.58	7.80		20.44	6.74	
<b>UB</b>	29.56	11.95		33.41	10.82	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	33.80	16.40	0.49 (0.35 - 0.67)	34.39	14.63	0.43 (0.26 - 0.68)
	28.90	13.61		26.78	11.45	
	39.23	19.24		43.35	18.09	
<b>Texas</b> <b>LB</b> <b>UB</b>	26.02	12.91	0.50 (0.35 - 0.68)	26.85	11.83	0.44 (0.26 - 0.7)
	22.51	10.58		21.06	9.06	
	30.08	15.26		34.59	14.81	
<b>Utah</b> <b>LB</b> <b>UB</b>	20.12	10.32	0.51 (0.36 - 0.72)	19.19	9.40	0.49 (0.3 - 0.79)
	17.27	8.25		14.70	7.35	
	23.21	12.39		24.57	11.62	
<b>Vermont</b> <b>LB</b> <b>UB</b>	22.40	9.15	0.41 (0.28 - 0.59)	23.18	9.18	0.40 (0.26 - 0.61)
	18.79	7.27		18.60	7.17	
	25.91	11.01		28.11	11.37	
<b>Virginia</b> <b>LB</b> <b>UB</b>	24.02	11.82	0.49 (0.34 - 0.69)	22.85	10.61	0.46 (0.28 - 0.76)
	20.55	9.54		17.40	8.02	
	27.78	14.12		28.87	13.27	
<b>Washington</b> <b>LB</b> <b>UB</b>	20.78	8.64	0.42 (0.29 - 0.58)	19.22	7.64	0.40 (0.24 - 0.66)
	17.81	6.86		14.59	5.62	
	23.90	10.33		23.77	9.68	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	35.51	18.19	0.51 (0.37 - 0.71)	34.32	17.76	0.52 (0.33 - 0.82)
	30.01	15.14		26.70	14.00	
	41.15	21.22		43.05	21.93	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	24.36	10.65	0.44 (0.3 - 0.6)	23.60	9.74	0.41 (0.24 - 0.68)
	20.86	8.54		18.04	7.32	
	28.14	12.56		29.89	12.28	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	22.42	9.28	0.41 (0.28 - 0.59)	21.16	8.44	0.40 (0.25 - 0.61)
	18.98	7.42		16.87	6.54	
	26.33	11.15		26.53	10.37	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	26.16	12.49	0.48 (0.34 - 0.64)	25.36	11.00	0.43 (0.3 - 0.59)
	22.77	10.20		21.77	8.94	
	29.93	14.59		29.98	12.86	

**Table S8. Age-standardised mortality rates for IHD attributable to High body-mass index. 2011 , 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	28.15	14.67	0.52 (0.13 - 1.99)	26.68	13.32	0.50 (0.12 - 2.04)
<b>LB</b>	11.99	5.93		10.78	5.26	
<b>UB</b>	44.54	23.87		42.63	21.94	
<b>Alaska</b>	19.91	7.90	0.40 (0.1 - 1.54)	16.95	6.39	0.38 (0.09 - 1.48)
<b>LB</b>	8.28	3.11		6.95	2.56	
<b>UB</b>	31.99	12.71		28.36	10.28	
<b>Arizona</b>	18.60	8.77	0.47 (0.11 - 1.94)	17.73	8.05	0.45 (0.11 - 1.99)
<b>LB</b>	7.61	3.44		6.84	3.15	
<b>UB</b>	30.52	14.73		29.11	13.62	
<b>Arkansas</b>	30.60	14.97	0.49 (0.13 - 1.92)	31.60	15.97	0.51 (0.12 - 1.98)
<b>LB</b>	12.72	6.13		13.13	6.28	
<b>UB</b>	48.17	24.40		50.91	25.97	
<b>California</b>	17.16	8.60	0.50 (0.12 - 2.09)	15.88	7.10	0.45 (0.11 - 1.85)
<b>LB</b>	6.94	3.34		6.46	2.86	
<b>UB</b>	27.89	14.49		26.63	11.92	
<b>Colorado</b>	13.88	6.46	0.47 (0.11 - 1.91)	12.62	5.48	0.43 (0.09 - 1.94)
<b>LB</b>	5.59	2.48		4.87	2.02	
<b>UB</b>	22.96	10.68		21.78	9.47	
<b>Connecticut</b>	16.08	7.78	0.48 (0.11 - 1.99)	15.26	7.07	0.46 (0.11 - 1.97)
<b>LB</b>	6.56	2.97		5.88	2.76	
<b>UB</b>	26.08	13.07		25.13	11.56	
<b>Delaware</b>	21.85	11.01	0.50 (0.12 - 1.97)	19.87	9.43	0.47 (0.11 - 1.89)
<b>LB</b>	9.11	4.18		8.17	3.63	
<b>UB</b>	35.54	17.96		32.01	15.41	
<b>District of Columbia</b>	19.94	12.54	0.63 (0.16 - 2.48)	18.69	10.60	0.57 (0.13 - 2.3)
<b>LB</b>	8.07	5.11		7.56	4.15	
<b>UB</b>	32.50	20.04		31.27	17.36	
<b>Florida</b>	18.98	9.02	0.48 (0.11 - 1.84)	18.66	8.34	0.45 (0.11 - 1.86)
<b>LB</b>	7.98	3.49		7.39	3.24	
<b>UB</b>	30.45	14.70		30.59	13.73	
<b>Georgia</b>	21.52	11.14	0.52 (0.13 - 2.02)	20.80	10.27	0.49 (0.12 - 1.95)
<b>LB</b>	8.97	4.52		8.34	4.10	
<b>UB</b>	34.62	18.16		33.80	16.28	
<b>Hawaii</b>	14.02	5.18	0.37 (0.09 - 1.5)	13.38	4.65	0.35 (0.08 - 1.46)
<b>LB</b>	5.72	2.00		5.39	1.77	
<b>UB</b>	22.29	8.58		22.19	7.89	
<b>Idaho</b>	19.42	8.31	0.43 (0.1 - 1.73)	16.86	7.22	0.43 (0.1 - 1.86)
<b>LB</b>	7.92	3.26		6.52	2.82	
<b>UB</b>	31.05	13.69		27.97	12.13	

<b>Illinois</b> <b>LB</b> <b>UB</b>	21.84	10.76	0.49 (0.12 - 1.93)	20.11	9.52	0.47 (0.13 - 1.88)
	9.02	4.31		8.50	4.04	
	35.77	17.39		31.84	15.96	
<b>Indiana</b> <b>LB</b> <b>UB</b>	25.32	12.50	0.49 (0.13 - 1.93)	23.83	11.67	0.49 (0.12 - 1.9)
	10.56	5.08		10.00	4.80	
	40.46	20.39		39.13	19.00	
<b>Iowa</b> <b>LB</b> <b>UB</b>	23.49	10.92	0.47 (0.11 - 1.87)	23.82	9.95	0.42 (0.1 - 1.73)
	9.53	4.29		9.66	4.07	
	38.09	17.85		39.48	16.76	
<b>Kansas</b> <b>LB</b> <b>UB</b>	21.24	9.89	0.47 (0.11 - 1.78)	22.45	10.48	0.47 (0.12 - 1.82)
	8.98	3.96		9.22	4.34	
	34.52	16.00		36.44	16.75	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	28.98	13.83	0.48 (0.12 - 1.88)	27.64	13.30	0.48 (0.12 - 1.84)
	12.08	5.50		11.69	5.37	
	45.48	22.73		44.66	21.56	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	28.00	15.20	0.54 (0.14 - 2.03)	27.25	14.55	0.53 (0.14 - 2.22)
	11.83	6.14		10.72	5.90	
	44.17	24.02		43.57	23.85	
<b>Maine</b> <b>LB</b> <b>UB</b>	17.75	8.29	0.47 (0.12 - 1.85)	17.58	7.78	0.44 (0.1 - 1.74)
	7.34	3.33		7.39	2.97	
	28.61	13.57		29.12	12.86	
<b>Maryland</b> <b>LB</b> <b>UB</b>	19.70	11.02	0.56 (0.14 - 2.26)	17.93	9.42	0.53 (0.13 - 2.2)
	8.06	4.38		7.34	3.81	
	31.82	18.19		29.54	16.18	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	17.16	7.59	0.44 (0.1 - 1.83)	13.42	6.14	0.46 (0.11 - 1.91)
	6.96	2.91		5.43	2.43	
	27.73	12.76		22.66	10.39	
<b>Michigan</b> <b>LB</b> <b>UB</b>	26.36	13.87	0.53 (0.13 - 2.08)	24.12	11.78	0.49 (0.12 - 1.85)
	10.75	5.64		10.25	4.72	
	42.26	22.36		39.14	19.01	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	15.42	5.85	0.38 (0.09 - 1.55)	14.86	5.79	0.39 (0.09 - 1.76)
	6.32	2.27		5.61	2.20	
	25.27	9.81		25.05	9.86	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	30.42	16.20	0.53 (0.14 - 2.01)	31.45	15.70	0.50 (0.12 - 1.93)
	12.75	6.61		13.11	6.35	
	47.51	25.68		51.76	25.30	
<b>Missouri</b> <b>LB</b> <b>UB</b>	26.56	13.36	0.50 (0.13 - 1.91)	25.01	11.99	0.48 (0.12 - 1.91)
	11.24	5.41		10.21	4.97	
	42.44	21.46		41.41	19.48	
<b>Montana</b> <b>LB</b> <b>UB</b>	18.43	7.75	0.42 (0.1 - 1.73)	19.13	7.78	0.41 (0.1 - 1.61)
	7.49	3.08		7.92	3.03	
	30.59	12.96		31.66	12.77	
<b>Nebraska</b> <b>LB</b>	18.68	8.13	0.44 (0.11 - 1.74)	18.99	8.03	0.42 (0.1 - 1.62)
	7.67	3.20		8.01	3.07	

<b>UB</b>	29.95	13.31		30.80	13.01		
<b>Nevada</b>	21.37	10.22	0.48 (0.12 - 2.02)	22.14	9.60	0.43 (0.1 - 1.69)	
	<b>LB</b>	8.50		4.04	9.30		3.67
	<b>UB</b>	34.42		17.13	36.32		15.76
<b>New Hampshire</b>	17.54	7.95	0.45 (0.11 - 1.89)	16.49	7.48	0.45 (0.1 - 1.87)	
	<b>LB</b>	7.05		3.09	6.56		2.87
	<b>UB</b>	28.92		13.30	27.43		12.29
<b>New Jersey</b>	20.09	10.28	0.51 (0.13 - 2.06)	16.76	8.06	0.48 (0.12 - 2.05)	
	<b>LB</b>	8.32		4.09	6.60		3.18
	<b>UB</b>	32.72		17.16	27.04		13.50
<b>New Mexico</b>	16.68	8.64	0.52 (0.12 - 2.11)	20.09	9.10	0.45 (0.1 - 2)	
	<b>LB</b>	6.76		3.36	7.69		3.45
	<b>UB</b>	27.13		14.26	33.07		15.38
<b>New York</b>	22.00	12.00	0.55 (0.13 - 2.23)	19.69	9.72	0.49 (0.12 - 2.07)	
	<b>LB</b>	8.93		4.76	7.97		3.80
	<b>UB</b>	36.46		19.92	32.65		16.46
<b>North Carolina</b>	22.11	10.73	0.48 (0.12 - 1.88)	20.80	9.78	0.47 (0.11 - 1.83)	
	<b>LB</b>	9.27		4.30	8.54		3.82
	<b>UB</b>	35.49		17.46	33.57		15.59
<b>North Dakota</b>	21.39	8.45	0.39 (0.09 - 1.54)	18.50	7.05	0.38 (0.1 - 1.5)	
	<b>LB</b>	9.17		3.30	7.52		2.86
	<b>UB</b>	34.85		14.10	29.13		11.29
<b>Ohio</b>	25.04	12.72	0.51 (0.12 - 2.01)	24.11	12.03	0.50 (0.12 - 1.99)	
	<b>LB</b>	10.39		5.04	9.95		4.83
	<b>UB</b>	40.37		20.89	39.36		19.84
<b>Oklahoma</b>	30.71	16.35	0.53 (0.13 - 2.1)	26.05	13.75	0.53 (0.13 - 2.11)	
	<b>LB</b>	12.58		6.51	10.70		5.62
	<b>UB</b>	48.59		26.47	43.07		22.54
<b>Oregon</b>	15.93	6.68	0.42 (0.1 - 1.71)	14.16	5.56	0.39 (0.1 - 1.61)	
	<b>LB</b>	6.50		2.63	5.79		2.23
	<b>UB</b>	25.78		11.09	23.43		9.31
<b>Pennsylvania</b>	22.83	11.35	0.50 (0.12 - 2.01)	20.49	10.12	0.49 (0.12 - 2.16)	
	<b>LB</b>	9.26		4.54	7.64		3.98
	<b>UB</b>	36.86		18.62	34.08		16.47
<b>Rhode Island</b>	20.20	10.59	0.52 (0.12 - 2.17)	18.64	8.67	0.47 (0.11 - 1.92)	
	<b>LB</b>	8.11		4.09	7.51		3.51
	<b>UB</b>	33.46		17.60	30.69		14.41
<b>South Carolina</b>	24.78	11.81	0.48 (0.12 - 1.86)	22.76	10.66	0.47 (0.12 - 1.92)	
	<b>LB</b>	10.20		4.74	9.02		4.37
	<b>UB</b>	39.84		18.94	37.03		17.29
<b>South Dakota</b>	21.87	9.05	0.41 (0.1 - 1.65)	22.57	8.03	0.36 (0.09 - 1.37)	
	<b>LB</b>	8.93		3.65	9.44		3.13
	<b>UB</b>	35.55		14.76	36.28		12.92
<b>Tennessee</b>	28.77	14.54	0.51	28.53	13.23	0.46	

<b>LB</b>	11.86	5.77	(0.13 - 2.01)	11.55	5.23	(0.11 - 1.83)
<b>UB</b>	45.72	23.84		45.72	21.12	
<b>Texas</b>	21.57	11.43	0.53 (0.13 - 2.11)	22.12	10.73	0.48 (0.12 - 1.91)
<b>LB</b>	8.86	4.53		9.02	4.31	
<b>UB</b>	34.65	18.66		35.17	17.26	
<b>Utah</b>	15.63	7.86	0.50 (0.12 - 2.04)	14.14	7.17	0.51 (0.12 - 2.11)
<b>LB</b>	6.45	3.09		5.74	2.77	
<b>UB</b>	25.07	13.19		24.02	12.10	
<b>Vermont</b>	17.76	7.72	0.43 (0.1 - 1.75)	17.90	7.70	0.43 (0.1 - 1.7)
<b>LB</b>	7.35	2.91		7.40	2.92	
<b>UB</b>	29.01	12.86		30.07	12.58	
<b>Virginia</b>	18.93	9.81	0.52 (0.12 - 2.03)	17.92	9.32	0.52 (0.12 - 2.03)
<b>LB</b>	7.89	3.77		7.61	3.50	
<b>UB</b>	30.23	16.02		29.12	15.47	
<b>Washington</b>	16.91	7.67	0.45 (0.11 - 1.86)	15.24	6.55	0.43 (0.1 - 1.8)
<b>LB</b>	6.94	3.00		6.18	2.49	
<b>UB</b>	27.76	12.90		24.45	11.12	
<b>West Virginia</b>	29.17	15.44	0.53 (0.14 - 2)	28.40	15.72	0.55 (0.13 - 2.2)
<b>LB</b>	12.30	6.29		11.45	6.04	
<b>UB</b>	45.41	24.58		45.48	25.23	
<b>Wisconsin</b>	20.71	9.39	0.45 (0.11 - 1.8)	19.43	8.56	0.44 (0.11 - 1.77)
<b>LB</b>	8.48	3.76		7.90	3.59	
<b>UB</b>	33.77	15.24		32.10	13.98	
<b>Wyoming</b>	19.31	8.39	0.43 (0.11 - 1.74)	18.33	7.39	0.40 (0.1 - 1.69)
<b>LB</b>	7.89	3.30		7.32	2.90	
<b>UB</b>	31.22	13.76		30.51	12.35	
<b>USA Mean</b>	21.31	10.67	0.50 (0.12 - 2.01)	20.01	9.49	0.47 (0.12 - 1.85)
<b>LB</b>	8.71	4.23		8.28	3.82	
<b>UB</b>	34.36	17.54		32.24	15.30	

**Table S9. Age-standardised mortality rates for IHD attributable to Tobacco.  
2011 , 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	37.72	13.30	0.35 (0.25 - 0.52)	30.63	10.24	0.33 (0.18 - 0.58)
<b>LB</b>	31.42	10.98		22.78	7.34	
<b>UB</b>	43.97	16.42		39.88	13.18	
<b>Alaska</b>	25.26	7.90	0.31 (0.2 - 0.48)	19.37	5.83	0.30 (0.18 - 0.52)
<b>LB</b>	20.46	6.14		14.65	4.39	
<b>UB</b>	30.40	9.91		24.81	7.60	
<b>Arizona</b>	23.24	8.58	0.37 (0.24 - 0.56)	19.63	6.48	0.33 (0.18 - 0.59)
<b>LB</b>	18.92	6.65		14.67	4.63	
<b>UB</b>	27.77	10.64		25.38	8.69	
<b>Arkansas</b>	43.41	15.01	0.35 (0.23 - 0.5)	40.20	14.41	0.36 (0.2 - 0.62)
<b>LB</b>	36.49	12.05		29.66	10.49	
<b>UB</b>	51.43	18.28		51.58	18.47	
<b>California</b>	20.31	6.79	0.33 (0.21 - 0.53)	16.70	5.01	0.30 (0.16 - 0.56)
<b>LB</b>	16.33	5.18		12.15	3.49	
<b>UB</b>	24.88	8.64		21.42	6.77	
<b>Colorado</b>	16.93	5.93	0.35 (0.22 - 0.54)	13.39	4.21	0.31 (0.16 - 0.59)
<b>LB</b>	13.73	4.52		9.73	2.85	
<b>UB</b>	20.46	7.44		17.50	5.70	
<b>Connecticut</b>	18.95	6.59	0.35 (0.21 - 0.54)	15.37	5.07	0.33 (0.18 - 0.63)
<b>LB</b>	15.33	5.02		10.85	3.56	
<b>UB</b>	23.40	8.32		20.34	6.81	
<b>Delaware</b>	26.18	10.41	0.40 (0.25 - 0.61)	21.01	7.62	0.36 (0.22 - 0.62)
<b>LB</b>	21.31	8.05		16.24	5.75	
<b>UB</b>	31.58	13.00		26.50	10.10	
<b>District of Columbia</b>	26.57	11.35	0.43 (0.28 - 0.64)	23.24	9.01	0.39 (0.21 - 0.72)
<b>LB</b>	21.88	9.08		16.65	6.61	
<b>UB</b>	31.96	13.94		31.01	12.01	
<b>Florida</b>	23.22	8.55	0.37 (0.24 - 0.56)	20.12	6.93	0.34 (0.19 - 0.62)
<b>LB</b>	19.08	6.58		15.19	4.84	
<b>UB</b>	27.75	10.72		25.78	9.43	
<b>Georgia</b>	27.68	9.94	0.36 (0.24 - 0.54)	23.91	8.04	0.34 (0.19 - 0.59)
<b>LB</b>	22.95	7.77		17.64	5.77	
<b>UB</b>	32.90	12.34		30.93	10.45	
<b>Hawaii</b>	19.53	5.12	0.26 (0.17 - 0.4)	15.74	3.69	0.23 (0.13 - 0.43)
<b>LB</b>	16.16	4.00		11.46	2.65	
<b>UB</b>	23.42	6.51		20.81	4.88	
<b>Idaho</b>	21.77	7.05	0.32 (0.2 - 0.51)	16.41	5.63	0.34 (0.19 - 0.64)
<b>LB</b>	17.80	5.39		11.75	4.01	

<b>UB</b>	26.42	9.05		21.47	7.54	
<b>Illinois</b> <b>LB</b> <b>UB</b>	25.76	9.36	0.36 (0.24 - 0.56)	20.43	7.04	0.34 (0.19 - 0.63)
	21.24	7.41		15.15	5.01	
	30.99	11.82		27.04	9.48	
<b>Indiana</b> <b>LB</b> <b>UB</b>	33.50	11.36	0.34 (0.23 - 0.48)	27.35	9.08	0.33 (0.19 - 0.61)
	28.03	9.02		19.91	6.69	
	39.69	13.57		34.64	12.11	
<b>Iowa</b> <b>LB</b> <b>UB</b>	26.80	8.33	0.31 (0.21 - 0.45)	23.95	6.91	0.29 (0.15 - 0.51)
	22.21	6.66		17.76	4.97	
	31.98	10.04		32.57	9.11	
<b>Kansas</b> <b>LB</b> <b>UB</b>	25.32	8.08	0.32 (0.21 - 0.47)	24.00	7.62	0.32 (0.17 - 0.55)
	20.91	6.36		18.11	5.48	
	30.06	9.79		32.41	9.96	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	42.38	14.54	0.34 (0.24 - 0.49)	35.47	12.64	0.36 (0.2 - 0.61)
	35.60	11.83		27.12	9.46	
	49.72	17.52		47.07	16.67	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	37.34	14.70	0.39 (0.27 - 0.57)	32.96	12.54	0.38 (0.21 - 0.67)
	31.38	11.92		24.88	9.13	
	43.75	17.92		42.87	16.63	
<b>Maine</b> <b>LB</b> <b>UB</b>	22.46	7.12	0.32 (0.2 - 0.48)	19.55	5.91	0.30 (0.16 - 0.54)
	18.44	5.47		14.28	4.19	
	26.91	8.84		25.92	7.74	
<b>Maryland</b> <b>LB</b> <b>UB</b>	22.93	9.14	0.40 (0.26 - 0.6)	18.58	6.93	0.37 (0.21 - 0.71)
	18.84	7.19		13.72	5.00	
	27.68	11.27		24.10	9.68	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	20.27	7.28	0.36 (0.22 - 0.56)	13.84	5.00	0.36 (0.18 - 0.67)
	16.66	5.49		10.28	3.44	
	24.46	9.37		18.88	6.92	
<b>Michigan</b> <b>LB</b> <b>UB</b>	32.01	11.95	0.37 (0.25 - 0.55)	26.20	9.30	0.36 (0.2 - 0.64)
	26.61	9.55		19.39	6.71	
	37.75	14.53		33.53	12.44	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	17.24	4.78	0.28 (0.18 - 0.43)	14.00	4.18	0.30 (0.15 - 0.56)
	14.12	3.70		9.91	2.80	
	20.83	6.01		18.58	5.53	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	42.97	14.64	0.34 (0.23 - 0.49)	39.67	12.67	0.32 (0.18 - 0.54)
	36.04	11.76		30.39	9.31	
	50.48	17.50		51.47	16.50	
<b>Missouri</b> <b>LB</b> <b>UB</b>	35.65	13.42	0.38 (0.25 - 0.55)	29.91	10.39	0.35 (0.19 - 0.61)
	29.60	10.71		22.28	7.47	
	43.14	16.35		38.56	13.60	
<b>Montana</b> <b>LB</b> <b>UB</b>	23.83	7.50	0.31 (0.2 - 0.47)	21.23	6.43	0.30 (0.17 - 0.55)
	19.62	5.88		15.72	4.78	
	29.01	9.19		27.60	8.64	
<b>Nebraska</b>	20.31	5.72	0.28	17.71	5.03	0.28

<b>LB</b>	16.82	4.44	(0.18 - 0.43)	13.01	3.70	(0.16 - 0.51)
<b>UB</b>	24.69	7.17		23.08	6.63	
<b>Nevada</b>	30.58	13.07	0.43 (0.28 - 0.65)	26.86	10.09	0.38 (0.21 - 0.68)
<b>LB</b>	25.08	10.14		20.01	7.34	
<b>UB</b>	36.73	16.32		34.79	13.64	
<b>New Hampshire</b>	20.60	7.11	0.35 (0.22 - 0.56)	16.87	5.64	0.33 (0.17 - 0.64)
<b>LB</b>	16.51	5.49		12.04	3.89	
<b>UB</b>	25.08	9.27		22.41	7.68	
<b>New Jersey</b>	21.47	8.51	0.40 (0.25 - 0.62)	16.18	6.08	0.38 (0.19 - 0.71)
<b>LB</b>	17.23	6.68		11.69	4.18	
<b>UB</b>	26.33	10.65		21.64	8.27	
<b>New Mexico</b>	22.87	7.86	0.34 (0.22 - 0.52)	23.60	7.16	0.30 (0.16 - 0.56)
<b>LB</b>	18.59	6.07		17.14	5.11	
<b>UB</b>	27.48	9.73		31.70	9.66	
<b>New York</b>	24.58	10.42	0.42 (0.27 - 0.66)	19.77	7.48	0.38 (0.2 - 0.69)
<b>LB</b>	19.99	8.05		14.68	5.16	
<b>UB</b>	29.96	13.21		26.32	10.13	
<b>North Carolina</b>	29.63	9.74	0.33 (0.22 - 0.48)	23.61	7.39	0.31 (0.18 - 0.58)
<b>LB</b>	24.84	7.83		17.35	5.43	
<b>UB</b>	35.43	11.94		30.83	10.01	
<b>North Dakota</b>	24.00	6.71	0.28 (0.19 - 0.42)	18.58	4.70	0.25 (0.14 - 0.46)
<b>LB</b>	19.82	5.35		13.72	3.44	
<b>UB</b>	28.68	8.24		24.21	6.36	
<b>Ohio</b>	30.15	11.25	0.37 (0.25 - 0.55)	25.48	9.44	0.37 (0.21 - 0.66)
<b>LB</b>	24.99	9.04		18.78	6.98	
<b>UB</b>	36.02	13.69		33.11	12.36	
<b>Oklahoma</b>	42.33	16.10	0.38 (0.26 - 0.56)	29.91	11.05	0.37 (0.21 - 0.63)
<b>LB</b>	34.83	13.07		22.72	8.04	
<b>UB</b>	49.94	19.42		38.93	14.31	
<b>Oregon</b>	18.86	6.18	0.33 (0.21 - 0.5)	14.89	4.57	0.31 (0.16 - 0.57)
<b>LB</b>	15.35	4.79		10.78	3.24	
<b>UB</b>	22.43	7.71		19.70	6.16	
<b>Pennsylvania</b>	27.31	9.43	0.35 (0.23 - 0.51)	21.47	7.57	0.35 (0.19 - 0.63)
<b>LB</b>	22.67	7.50		16.05	5.41	
<b>UB</b>	32.45	11.49		28.74	10.07	
<b>Rhode Island</b>	24.62	9.67	0.39 (0.25 - 0.61)	19.27	6.72	0.35 (0.18 - 0.66)
<b>LB</b>	19.84	7.43		14.08	4.71	
<b>UB</b>	29.67	12.03		25.72	9.33	
<b>South Carolina</b>	33.23	10.22	0.31 (0.21 - 0.44)	26.23	7.76	0.30 (0.16 - 0.52)
<b>LB</b>	27.83	8.28		19.54	5.66	
<b>UB</b>	39.48	12.34		34.83	10.12	
<b>South Dakota</b>	26.53	6.89	0.26 (0.17 - 0.39)	24.72	5.88	0.24 (0.14 - 0.42)
<b>LB</b>	21.84	5.47		18.51	4.40	
<b>UB</b>	32.16	8.58		31.53	7.75	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	40.33	14.77	0.37 (0.25 - 0.52)	35.56	12.24	0.34 (0.2 - 0.62)
	33.76	11.87		26.18	9.08	
	47.51	17.66		44.87	16.35	
<b>Texas</b> <b>LB</b> <b>UB</b>	25.35	9.36	0.37 (0.24 - 0.55)	21.99	7.28	0.33 (0.18 - 0.58)
	20.95	7.34		16.73	5.18	
	30.05	11.55		28.48	9.73	
<b>Utah</b> <b>LB</b> <b>UB</b>	12.89	3.79	0.29 (0.18 - 0.48)	9.93	2.89	0.29 (0.15 - 0.55)
	10.29	2.85		7.20	2.06	
	16.01	4.94		13.50	3.94	
<b>Vermont</b> <b>LB</b> <b>UB</b>	20.74	6.24	0.30 (0.19 - 0.48)	18.44	5.67	0.31 (0.18 - 0.55)
	16.64	4.84		13.75	4.27	
	25.72	7.92		23.51	7.50	
<b>Virginia</b> <b>LB</b> <b>UB</b>	24.59	8.63	0.35 (0.23 - 0.53)	20.05	6.93	0.35 (0.19 - 0.62)
	20.18	6.85		15.06	5.02	
	29.18	10.77		26.27	9.27	
<b>Washington</b> <b>LB</b> <b>UB</b>	18.37	6.21	0.34 (0.21 - 0.52)	14.68	4.58	0.31 (0.17 - 0.61)
	14.88	4.74		10.29	3.34	
	22.36	7.74		19.21	6.29	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	42.02	15.67	0.37 (0.25 - 0.54)	34.86	13.62	0.39 (0.22 - 0.71)
	35.36	12.52		25.60	9.70	
	49.23	18.94		44.36	18.29	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	22.98	7.24	0.32 (0.2 - 0.49)	18.48	5.81	0.31 (0.17 - 0.61)
	18.74	5.65		13.02	4.15	
	27.77	9.10		24.33	7.88	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	25.86	8.29	0.32 (0.21 - 0.49)	20.60	6.26	0.30 (0.17 - 0.52)
	21.18	6.51		15.78	4.59	
	31.55	10.38		26.59	8.23	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	26.17	9.40	0.36 (0.24 - 0.53)	21.56	7.31	0.34 (0.23 - 0.51)
	21.63	7.53		17.65	5.87	
	31.13	11.42		25.78	8.97	

**Table S10. Age-standardised mortality rates for IHD attributable to Air pollution. 2011, , 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	13.90	7.95	0.57 (0.25 - 1.29)	7.55	4.02	0.53 (0.15 - 1.74)
<b>LB</b>	8.72	4.93		3.82	1.87	
<b>UB</b>	19.65	11.27		12.65	6.63	
<b>Alaska</b>	4.80	2.15	0.45 (0.12 - 1.71)	4.92	1.99	0.40 (0.12 - 1.35)
<b>LB</b>	2.15	0.95		2.44	0.96	
<b>UB</b>	8.17	3.68		8.15	3.29	
<b>Arizona</b>	6.39	3.52	0.55 (0.17 - 1.76)	3.69	1.83	0.50 (0.08 - 2.64)
<b>LB</b>	3.20	1.76		1.26	0.57	
<b>UB</b>	10.09	5.63		6.91	3.33	
<b>Arkansas</b>	13.44	7.38	0.55 (0.23 - 1.33)	8.03	4.36	0.54 (0.14 - 2.13)
<b>LB</b>	8.14	4.51		3.49	1.84	
<b>UB</b>	19.23	10.84		13.47	7.45	
<b>California</b>	9.87	5.53	0.56 (0.24 - 1.27)	6.11	2.98	0.49 (0.16 - 1.38)
<b>LB</b>	6.30	3.37		3.41	1.56	
<b>UB</b>	14.01	7.99		9.57	4.69	
<b>Colorado</b>	3.24	1.70	0.53 (0.1 - 2.87)	1.30	0.62	0.47 (0.02 - 10.27)
<b>LB</b>	1.11	0.57		0.15	0.07	
<b>UB</b>	5.88	3.19		3.31	1.54	
<b>Connecticut</b>	5.89	3.17	0.54 (0.17 - 1.73)	3.29	1.70	0.52 (0.08 - 3.27)
<b>LB</b>	2.98	1.60		0.96	0.48	
<b>UB</b>	9.32	5.16		6.05	3.14	
<b>Delaware</b>	9.58	5.60	0.58 (0.24 - 1.44)	5.31	2.72	0.51 (0.13 - 2.04)
<b>LB</b>	5.78	3.32		2.27	1.15	
<b>UB</b>	13.92	8.32		9.12	4.64	
<b>District of Columbia</b>	11.88	7.00	0.59 (0.26 - 1.29)	6.62	3.58	0.54 (0.17 - 1.69)
<b>LB</b>	7.66	4.32		3.29	1.80	
<b>UB</b>	16.82	9.89		10.62	5.56	
<b>Florida</b>	6.15	3.40	0.55 (0.16 - 1.88)	2.77	1.39	0.50 (0.03 - 8.66)
<b>LB</b>	2.94	1.61		0.35	0.19	
<b>UB</b>	9.80	5.54		5.66	3.03	
<b>Georgia</b>	11.77	6.69	0.57 (0.25 - 1.28)	6.73	3.54	0.53 (0.17 - 1.66)
<b>LB</b>	7.41	4.25		3.32	1.77	
<b>UB</b>	16.74	9.45		10.72	5.50	
<b>Hawaii</b>	1.27	0.56	0.44 (0.01 - 12.58)	0.49	0.20	0.40 (0.01 - 37)
<b>LB</b>	0.12	0.05		0.02	0.01	
<b>UB</b>	3.40	1.51		1.90	0.74	
<b>Idaho</b>	3.89	1.92	0.49 (0.08 - 2.96)	1.75	0.83	0.47 (0.01 - 16.42)
<b>LB</b>	1.23	0.59		0.12	0.06	
<b>UB</b>	7.21	3.64		4.29	1.97	

<b>Illinois</b> LB UB	11.75	6.40	0.54 (0.25 - 1.17)	7.47	3.80	0.51 (0.18 - 1.47)
	7.71	4.04		4.01	2.09	
	16.44	9.04		11.71	5.91	
<b>Indiana</b> LB UB	12.70	6.90	0.54 (0.24 - 1.22)	7.83	4.08	0.52 (0.18 - 1.59)
	8.00	4.34		4.13	2.18	
	17.89	9.75		12.24	6.56	
<b>Iowa</b> LB UB	8.78	4.69	0.53 (0.2 - 1.43)	5.86	2.76	0.47 (0.11 - 1.9)
	5.05	2.66		2.52	1.10	
	13.30	7.23		9.85	4.78	
<b>Kansas</b> LB UB	7.80	4.13	0.53 (0.19 - 1.49)	5.13	2.58	0.50 (0.1 - 2.43)
	4.32	2.26		1.85	0.92	
	12.21	6.42		9.03	4.50	
<b>Kentucky</b> LB UB	13.37	7.20	0.54 (0.23 - 1.24)	7.67	4.07	0.53 (0.16 - 1.8)
	8.38	4.47		3.69	1.96	
	19.18	10.36		12.59	6.64	
<b>Louisiana</b> LB UB	10.96	6.38	0.58 (0.23 - 1.48)	6.83	3.72	0.54 (0.13 - 2.25)
	6.38	3.73		2.79	1.50	
	16.25	9.45		11.61	6.27	
<b>Maine</b> LB UB	2.09	1.11	0.53 (0.03 - 9.07)	0.78	0.38	0.49 (0.01 - 32.5)
	0.29	0.15		0.04	0.02	
	4.86	2.63		2.73	1.30	
<b>Maryland</b> LB UB	9.57	5.61	0.59 (0.24 - 1.4)	5.11	2.75	0.54 (0.14 - 2.13)
	5.90	3.32		2.16	1.22	
	13.85	8.27		8.60	4.61	
<b>Massachusetts</b> LB UB	5.45	2.75	0.50 (0.13 - 1.87)	2.22	1.07	0.48 (0.03 - 6.46)
	2.46	1.20		0.35	0.16	
	8.95	4.60		4.72	2.26	
<b>Michigan</b> LB UB	10.07	5.69	0.57 (0.21 - 1.52)	6.72	3.52	0.52 (0.15 - 1.9)
	5.68	3.12		3.08	1.61	
	15.04	8.64		11.06	5.84	
<b>Minnesota</b> LB UB	4.60	2.06	0.45 (0.13 - 1.56)	2.71	1.22	0.45 (0.06 - 3.16)
	2.19	0.96		0.75	0.34	
	7.62	3.42		5.25	2.37	
<b>Mississippi</b> LB UB	12.23	6.95	0.57 (0.22 - 1.41)	7.51	3.81	0.51 (0.12 - 2.2)
	7.26	4.08		2.93	1.51	
	18.19	10.25		13.06	6.44	
<b>Missouri</b> LB UB	11.96	6.75	0.56 (0.23 - 1.4)	6.93	3.54	0.51 (0.14 - 1.89)
	7.11	4.04		3.10	1.65	
	17.43	9.96		11.60	5.85	
<b>Montana</b> LB UB	2.79	1.33	0.48 (0.07 - 3.05)	1.53	0.71	0.46 (0.03 - 7.82)
	0.87	0.41		0.22	0.11	
	5.47	2.65		3.70	1.72	
<b>Nebraska</b> LB	6.07	3.03	0.50 (0.15 - 1.61)	3.45	1.64	0.47 (0.08 - 2.67)
	3.06	1.45		1.14	0.54	

<b>UB</b>	9.70	4.93		6.68	3.04		
<b>Nevada</b>	5.29	2.94	0.55 (0.12 - 2.66)	3.36	1.63	0.49 (0.05 - 4.79)	
	<b>LB</b>	1.95		1.07	0.72		0.33
	<b>UB</b>	9.27		5.19	7.28		3.45
<b>New Hampshire</b>	3.98	2.05	0.51 (0.09 - 3.07)	1.62	0.82	0.51 (0.01 - 21.4)	
	<b>LB</b>	1.24		0.65	0.10		0.05
	<b>UB</b>	7.27		3.81	4.25		2.14
<b>New Jersey</b>	8.95	5.10	0.57 (0.22 - 1.49)	4.87	2.56	0.53 (0.13 - 2.24)	
	<b>LB</b>	5.19		2.86	2.03		1.13
	<b>UB</b>	13.16		7.72	8.46		4.54
<b>New Mexico</b>	3.13	1.78	0.57 (0.1 - 3.32)	1.72	0.86	0.50 (0.04 - 5.68)	
	<b>LB</b>	1.06		0.58	0.37		0.18
	<b>UB</b>	6.02		3.52	4.20		2.10
<b>New York</b>	8.85	5.28	0.60 (0.21 - 1.7)	4.89	2.60	0.53 (0.11 - 2.49)	
	<b>LB</b>	4.87		2.86	1.90		0.98
	<b>UB</b>	13.70		8.28	8.83		4.74
<b>North Carolina</b>	9.34	5.04	0.54 (0.21 - 1.35)	4.61	2.32	0.50 (0.1 - 2.48)	
	<b>LB</b>	5.52		2.89	1.69		0.83
	<b>UB</b>	13.67		7.47	8.66		4.19
<b>North Dakota</b>	3.74	1.73	0.46 (0.06 - 3.51)	1.66	0.73	0.44 (0.01 - 13.79)	
	<b>LB</b>	0.97		0.44	0.14		0.06
	<b>UB</b>	7.26		3.40	4.19		1.93
<b>Ohio</b>	12.30	6.89	0.56 (0.24 - 1.28)	7.61	4.04	0.53 (0.17 - 1.65)	
	<b>LB</b>	7.77		4.22	3.90		2.06
	<b>UB</b>	17.41		9.95	12.34		6.45
<b>Oklahoma</b>	12.65	7.38	0.58 (0.23 - 1.47)	6.11	3.44	0.56 (0.12 - 2.49)	
	<b>LB</b>	7.45		4.30	2.45		1.29
	<b>UB</b>	18.95		10.96	10.51		6.09
<b>Oregon</b>	3.37	1.58	0.47 (0.08 - 2.85)	1.56	0.67	0.43 (0.02 - 11.64)	
	<b>LB</b>	1.06		0.49	0.14		0.07
	<b>UB</b>	6.29		3.02	3.85		1.63
<b>Pennsylvania</b>	11.15	6.03	0.54 (0.22 - 1.25)	6.37	3.37	0.53 (0.15 - 1.76)	
	<b>LB</b>	6.94		3.61	3.08		1.64
	<b>UB</b>	16.12		8.68	10.64		5.41
<b>Rhode Island</b>	7.25	4.15	0.57 (0.18 - 1.84)	3.73	1.91	0.51 (0.07 - 3.79)	
	<b>LB</b>	3.67		2.09	1.00		0.52
	<b>UB</b>	11.76		6.76	7.53		3.79
<b>South Carolina</b>	10.70	5.55	0.52 (0.21 - 1.29)	5.35	2.67	0.50 (0.11 - 2.23)	
	<b>LB</b>	6.34		3.30	2.08		1.06
	<b>UB</b>	15.54		8.17	9.44		4.64
<b>South Dakota</b>	4.77	2.28	0.48 (0.11 - 2.14)	3.11	1.26	0.41 (0.05 - 3.45)	
	<b>LB</b>	1.89		0.88	0.77		0.32
	<b>UB</b>	8.29		4.05	6.63		2.66
<b>Tennessee</b>	12.77	7.17	0.56	7.04	3.54	0.50	

<b>LB</b>	7.72	4.28	(0.23 - 1.36)	2.91	1.42	(0.12 - 2.09)
<b>UB</b>	18.53	10.53		12.16	6.09	
<b>Texas</b>	9.75	5.59	0.57 (0.23 - 1.41)	5.87	3.04	0.52 (0.14 - 1.91)
<b>LB</b>	5.82	3.28		2.65	1.35	
<b>UB</b>	14.20	8.22		9.76	5.06	
<b>Utah</b>	5.67	3.35	0.59 (0.2 - 1.72)	3.13	1.80	0.57 (0.11 - 2.77)
<b>LB</b>	3.05	1.77		1.18	0.66	
<b>UB</b>	8.77	5.25		5.77	3.27	
<b>Vermont</b>	4.04	1.97	0.49 (0.07 - 3.16)	1.64	0.77	0.47 (0.01 - 41.4)
<b>LB</b>	1.18	0.55		0.05	0.03	
<b>UB</b>	7.69	3.73		4.37	2.07	
<b>Virginia</b>	7.79	4.38	0.56 (0.2 - 1.52)	3.82	2.07	0.54 (0.09 - 3.09)
<b>LB</b>	4.36	2.41		1.27	0.67	
<b>UB</b>	11.77	6.63		7.17	3.92	
<b>Washington</b>	4.27	2.16	0.51 (0.11 - 2.29)	2.01	0.95	0.47 (0.04 - 5.45)
<b>LB</b>	1.68	0.85		0.38	0.19	
<b>UB</b>	7.45	3.85		4.44	2.07	
<b>West Virginia</b>	11.59	6.74	0.58 (0.22 - 1.54)	5.89	3.53	0.60 (0.12 - 3.04)
<b>LB</b>	6.66	3.78		2.09	1.26	
<b>UB</b>	17.58	10.27		10.56	6.36	
<b>Wisconsin</b>	7.60	3.83	0.50 (0.17 - 1.43)	5.29	2.54	0.48 (0.12 - 1.87)
<b>LB</b>	4.17	2.03		2.34	1.08	
<b>UB</b>	11.63	5.97		9.20	4.38	
<b>Wyoming</b>	1.61	0.78	0.48 (0.02 - 13.06)	0.58	0.26	0.46 (0 - 100)
<b>LB</b>	0.16	0.08		0.01	0.00	
<b>UB</b>	4.20	2.09		2.19	1.00	
<b>USA Mean</b>	9.00	5.04	0.56 (0.22 - 1.41)	5.12	2.64	0.52 (0.15 - 1.86)
<b>LB</b>	5.34	2.96		2.36	1.24	
<b>UB</b>	13.27	7.53		8.43	4.40	

**Table S11. Age-standardised mortality rates for IHD attributable to Low physical activity. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	1.48	2.64	1.78 (0.27 – 12.04)	1.62	2.44	1.51 (0.19 - 13.62)
<b>LB</b>	0.45	0.94		0.37	0.76	
<b>UB</b>	3.50	5.42		3.96	5.04	
<b>Alaska</b>	0.87	1.39	1.60 (0.23 – 11.71)	0.92	1.16	1.26 (0.15 - 11.86)
<b>LB</b>	0.24	0.50		0.21	0.36	
<b>UB</b>	2.19	2.81		2.36	2.49	
<b>Arizona</b>	1.01	1.72	1.71 (0.23 – 13.27)	1.11	1.63	1.47 (0.17 - 14.75)
<b>LB</b>	0.26	0.58		0.24	0.51	
<b>UB</b>	2.55	3.45		2.96	3.54	
<b>Arkansas</b>	1.25	2.60	2.08 (0.35 – 13.86)	1.58	2.75	1.74 (0.21 - 13.98)
<b>LB</b>	0.35	1.02		0.41	0.88	
<b>UB</b>	2.95	4.85		4.11	5.73	
<b>California</b>	0.78	1.45	1.88 (0.26 – 13.13)	0.85	1.27	1.50 (0.17 - 13.38)
<b>LB</b>	0.23	0.49		0.21	0.38	
<b>UB</b>	1.85	3.02		2.29	2.81	
<b>Colorado</b>	0.82	1.35	1.65 (0.22 – 13.60)	0.92	1.23	1.35 (0.13 - 16.24)
<b>LB</b>	0.20	0.46		0.17	0.34	
<b>UB</b>	2.13	2.72		2.65	2.76	
<b>Connecticut</b>	0.91	1.60	1.76 (0.25 – 12.31)	0.98	1.52	1.55 (0.16 - 17.4)
<b>LB</b>	0.25	0.54		0.20	0.45	
<b>UB</b>	2.13	3.15		2.79	3.48	
<b>Delaware</b>	1.28	2.19	1.72 (0.25 – 12.31)	1.40	1.95	1.39 (0.14 - 13.97)
<b>LB</b>	0.35	0.75		0.32	0.54	
<b>UB</b>	2.99	4.31		3.95	4.47	
<b>District of Columbia</b>	1.17	1.95	1.67 (0.27- 10.11)	1.14	1.77	1.56 (0.17 - 11.38)
<b>LB</b>	0.36	0.75		0.32	0.51	
<b>UB</b>	2.74	3.64		2.93	3.64	
<b>Florida</b>	0.96	1.68	1.75 (0.22 – 12.70)	1.12	1.62	1.45 (0.14 - 15.35)
<b>LB</b>	0.27	0.53		0.23	0.44	
<b>UB</b>	2.38	3.43		3.08	3.53	
<b>Georgia</b>	1.04	1.98	1.90 (0.28 – 12.73)	1.11	1.83	1.64 (0.19 - 14.41)
<b>LB</b>	0.30	0.72		0.27	0.54	
<b>UB</b>	2.56	3.82		2.89	3.89	
<b>Hawaii</b>	0.66	0.93	1.40 (0.20 – 11.29)	0.72	0.91	1.26 (0.13 - 11.39)
<b>LB</b>	0.17	0.32		0.18	0.25	
<b>UB</b>	1.58	1.92		1.99	2.05	
<b>Idaho</b>	0.89	1.52	1.71 (0.22 – 13.52)	1.03	1.45	1.41 (0.11 - 14.09)
<b>LB</b>	0.23	0.49		0.22	0.35	
<b>UB</b>	2.27	3.11		3.20	3.10	

<b>Illinois</b> <b>LB</b> <b>UB</b>	0.95	1.67	1.75 (0.22 - 14.50)	1.13	1.66	1.47 (0.15 - 15.44)
	0.24	0.54		0.25	0.46	
	2.42	3.48		3.17	3.86	
<b>Indiana</b> <b>LB</b> <b>UB</b>	1.24	2.24	1.80 (0.27 - 11.44)	1.45	2.18	1.51 (0.17 - 13.29)
	0.36	0.76		0.34	0.64	
	2.84	4.12		3.84	4.52	
<b>Iowa</b> <b>LB</b> <b>UB</b>	1.25	2.09	1.68 (0.25 - 10.59)	1.45	2.00	1.38 (0.14 - 12.29)
	0.37	0.70		0.35	0.57	
	2.85	3.92		4.01	4.30	
<b>Kansas</b> <b>LB</b> <b>UB</b>	1.30	1.98	1.53 (0.24 - 10.69)	1.59	2.13	1.33 (0.14 - 13.29)
	0.36	0.73		0.35	0.64	
	3.02	3.85		4.53	4.65	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	1.47	2.43	1.66 (0.29 - 10.51)	1.60	2.39	1.49 (0.19 - 13.75)
	0.45	0.93		0.36	0.75	
	3.26	4.73		4.03	4.95	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	1.66	2.65	1.60 (0.25 - 9.24)	1.92	2.65	1.38 (0.16 - 11.63)
	0.54	0.93		0.48	0.80	
	3.69	4.99		4.88	5.58	
<b>Maine</b> <b>LB</b> <b>UB</b>	0.91	1.60	1.76 (0.22 - 13.12)	1.09	1.59	1.47 (0.13 - 18.14)
	0.25	0.52		0.21	0.41	
	2.41	3.28		3.17	3.81	
<b>Maryland</b> <b>LB</b> <b>UB</b>	1.19	2.02	1.69 (0.27 - 12.77)	1.28	1.82	1.42 (0.17 - 13.03)
	0.30	0.74		0.29	0.54	
	2.77	3.83		3.26	3.78	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	0.91	1.53	1.68 (0.23 - 13.26)	0.92	1.32	1.43 (0.13 - 16.05)
	0.23	0.52		0.19	0.35	
	2.28	3.05		2.75	3.05	
<b>Michigan</b> <b>LB</b> <b>UB</b>	1.21	2.25	1.86 (0.28 - 12.29)	1.31	2.06	1.57 (0.18 - 14.06)
	0.34	0.82		0.33	0.63	
	2.95	4.18		3.55	4.64	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	0.90	1.22	1.36 (0.19 - 10.87)	1.00	1.28	1.29 (0.12 - 13.86)
	0.23	0.42		0.21	0.35	
	2.22	2.50		2.89	2.91	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	1.57	2.97	1.89 (0.33 - 11.25)	1.86	2.78	1.49 (0.21 - 10.96)
	0.48	1.16		0.51	0.93	
	3.51	5.40		4.53	5.59	
<b>Missouri</b> <b>LB</b> <b>UB</b>	1.40	2.35	1.68 (0.24 - 11.07)	1.49	2.15	1.44 (0.17 - 12.11)
	0.41	0.80		0.37	0.69	
	3.29	4.54		4.11	4.48	
<b>Montana</b> <b>LB</b> <b>UB</b>	0.88	1.38	1.58 (0.22 - 11.08)	1.15	1.56	1.36 (0.14 - 13.84)
	0.24	0.50		0.25	0.44	
	2.24	2.66		3.18	3.46	
<b>Nebraska</b> <b>LB</b>	1.08	1.61	1.48 (0.21 - 10.5)	1.24	1.63	1.31 (0.13 - 11.63)
	0.30	0.54		0.30	0.46	

<b>UB</b>	2.53	3.15		3.52	3.49	
<b>Nevada</b>	1.27	2.05	1.61 (0.23 - 11.91)	1.56	1.99	1.28 (0.14 - 10.6)
<b>LB</b>	0.35	0.71		0.40	0.59	
<b>UB</b>	3.09	4.17		4.15	4.24	
<b>New Hampshire</b>	0.93	1.56	1.69 (0.23 - 13.13)	1.05	1.62	1.54 (0.13 - 15)
<b>LB</b>	0.24	0.53		0.24	0.43	
<b>UB</b>	2.29	3.15		3.24	3.60	
<b>New Jersey</b>	1.13	2.06	1.82 (0.25 - 13)	1.09	1.74	1.61 (0.16 - 17.08)
<b>LB</b>	0.33	0.68		0.24	0.47	
<b>UB</b>	2.71	4.29		2.97	4.10	
<b>New Mexico</b>	0.93	1.66	1.79 (0.25 - 13.8)	1.17	1.74	1.48 (0.15 - 14.5)
<b>LB</b>	0.25	0.54		0.26	0.46	
<b>UB</b>	2.14	3.45		3.08	3.77	
<b>New York</b>	1.27	2.45	1.94 (0.29 - 14.21)	1.33	2.14	1.60 (0.2 - 12.6)
<b>LB</b>	0.34	0.87		0.35	0.66	
<b>UB</b>	3.01	4.83		3.34	4.41	
<b>North Carolina</b>	1.25	2.13	1.70 (0.28 - 10.59)	1.30	1.88	1.45 (0.17 - 11.52)
<b>LB</b>	0.37	0.79		0.33	0.59	
<b>UB</b>	2.79	3.92		3.45	3.80	
<b>North Dakota</b>	1.25	1.69	1.35 (0.2 - 9.76)	1.32	1.50	1.13 (0.15 - 10.68)
<b>LB</b>	0.34	0.56		0.31	0.48	
<b>UB</b>	2.87	3.32		3.20	3.31	
<b>Ohio</b>	1.33	2.29	1.71 (0.27 - 11.41)	1.50	2.21	1.48 (0.17 - 13.91)
<b>LB</b>	0.39	0.80		0.35	0.69	
<b>UB</b>	2.98	4.45		4.15	4.87	
<b>Oklahoma</b>	1.67	2.92	1.75 (0.28 - 11.21)	1.60	2.48	1.55 (0.2 - 13.51)
<b>LB</b>	0.48	1.05		0.39	0.79	
<b>UB</b>	3.76	5.38		3.98	5.27	
<b>Oregon</b>	0.78	1.17	1.51 (0.22 - 10.13)	0.86	1.09	1.26 (0.13 - 12.05)
<b>LB</b>	0.23	0.39		0.21	0.30	
<b>UB</b>	1.77	2.33		2.31	2.53	
<b>Pennsylvania</b>	1.25	1.98	1.59 (0.22 - 10.46)	1.32	1.90	1.44 (0.15 - 12.69)
<b>LB</b>	0.37	0.64		0.32	0.55	
<b>UB</b>	2.94	3.87		3.64	4.06	
<b>Rhode Island</b>	1.23	2.15	1.75 (0.24 - 13.97)	1.42	1.99	1.41 (0.16 - 14.52)
<b>LB</b>	0.31	0.71		0.31	0.62	
<b>UB</b>	2.90	4.33		3.88	4.50	
<b>South Carolina</b>	1.12	2.10	1.87 (0.33 - 11.34)	1.21	1.99	1.65 (0.22 - 13.84)
<b>LB</b>	0.35	0.81		0.31	0.66	
<b>UB</b>	2.48	3.97		2.95	4.29	
<b>South Dakota</b>	1.31	1.77	1.35 (0.18 - 9.35)	1.50	1.59	1.06 (0.12 - 9.79)
<b>LB</b>	0.37	0.58		0.34	0.47	
<b>UB</b>	3.19	3.46		3.89	3.33	
<b>Tennessee</b>	1.95	3.05	1.56	2.06	2.75	1.33

<b>LB</b>	0.62	1.13	(0.26 - 9.13)	0.55	0.89	(0.18 - 10.35)
<b>UB</b>	4.29	5.66		4.98	5.69	
<b>Texas</b>	1.14	2.13	1.87 (0.28 - 13.42)	1.33	2.02	1.52 (0.18 - 14.68)
<b>LB</b>	0.31	0.75		0.31	0.65	
<b>UB</b>	2.68	4.16		3.52	4.55	
<b>Utah</b>	0.87	1.64	1.88 (0.26 - 14.48)	0.99	1.60	1.61 (0.14 - 18.55)
<b>LB</b>	0.23	0.58		0.20	0.40	
<b>UB</b>	2.23	3.33		2.88	3.71	
<b>Vermont</b>	0.78	1.50	1.93 (0.27 - 15.05)	0.97	1.53	1.58 (0.15 - 15.67)
<b>LB</b>	0.20	0.50		0.21	0.42	
<b>UB</b>	1.86	3.01		2.80	3.29	
<b>Virginia</b>	0.96	1.82	1.88 (0.29 - 13.42)	1.03	1.70	1.65 (0.18 - 14.24)
<b>LB</b>	0.26	0.66		0.25	0.50	
<b>UB</b>	2.31	3.49		2.85	3.56	
<b>Washington</b>	0.89	1.34	1.51 (0.19 - 11.29)	0.94	1.25	1.33 (0.13 - 13.57)
<b>LB</b>	0.24	0.43		0.21	0.35	
<b>UB</b>	2.23	2.71		2.67	2.85	
<b>West Virginia</b>	1.61	2.98	1.85 (0.28 - 12.56)	1.72	2.98	1.73 (0.2 - 13.66)
<b>LB</b>	0.45	1.07		0.44	0.91	
<b>UB</b>	3.83	5.65		4.45	6.01	
<b>Wisconsin</b>	0.88	1.59	1.81 (0.26 - 13.08)	1.08	1.61	1.49 (0.13 - 16.14)
<b>LB</b>	0.24	0.55		0.22	0.42	
<b>UB</b>	2.15	3.14		3.25	3.55	
<b>Wyoming</b>	1.01	1.51	1.49 (0.21 - 10.34)	1.11	1.45	1.30 (0.15 - 12.35)
<b>LB</b>	0.29	0.49		0.26	0.43	
<b>UB</b>	2.34	3.00		2.85	3.21	
<b>USA Mean</b>	1.11	1.96	1.77 (0.31 - 9.94)	1.22	1.82	1.49 (0.25 - 9.64)
<b>LB</b>	0.35	0.74		0.36	0.65	
<b>UB</b>	2.38	3.48		2.61	3.47	

**Table S12. Age-standardised mortality rates for IHD attributable to Diet high in processed meat. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	10.95	5.70	0.52 (0.13 - 2.04)	9.66	4.44	0.46 (0.09 - 2.04)
<b>LB</b>	4.42	2.34		3.61	1.63	
<b>UB</b>	17.37	9.02		17.55	7.38	
<b>Alaska</b>	5.68	2.21	0.39 (0.09 - 1.71)	4.74	1.73	0.37 (0.08 - 1.74)
<b>LB</b>	2.17	0.83		1.69	0.65	
<b>UB</b>	9.00	3.71		8.17	2.94	
<b>Arizona</b>	5.83	2.27	0.39 (0.1 - 1.63)	5.34	1.79	0.34 (0.07 - 1.44)
<b>LB</b>	2.29	0.90		2.11	0.63	
<b>UB</b>	9.39	3.73		8.89	3.04	
<b>Arkansas</b>	12.07	5.96	0.49 (0.13 - 2.02)	11.56	5.50	0.48 (0.11 - 2.3)
<b>LB</b>	4.63	2.44		4.10	2.16	
<b>UB</b>	18.97	9.36		19.46	9.43	
<b>California</b>	7.03	3.36	0.48 (0.11 - 1.86)	6.26	2.51	0.40 (0.09 - 1.76)
<b>LB</b>	2.85	1.30		2.38	0.98	
<b>UB</b>	11.46	5.30		10.64	4.18	
<b>Colorado</b>	6.04	2.38	0.39 (0.1 - 1.66)	5.17	1.72	0.33 (0.07 - 1.7)
<b>LB</b>	2.28	0.93		1.72	0.63	
<b>UB</b>	9.70	3.79		8.82	2.93	
<b>Connecticut</b>	6.68	3.12	0.47 (0.12 - 1.83)	5.74	2.42	0.42 (0.1 - 1.81)
<b>LB</b>	2.71	1.26		2.27	0.92	
<b>UB</b>	10.61	4.96		9.63	4.10	
<b>Delaware</b>	8.23	4.01	0.49 (0.12 - 1.97)	6.87	2.90	0.42 (0.1 - 1.81)
<b>LB</b>	3.22	1.59		2.59	1.10	
<b>UB</b>	13.19	6.33		11.44	4.69	
<b>District of Columbia</b>	9.59	5.47	0.57 (0.13 - 2.47)	8.86	4.30	0.49 (0.11 - 2.27)
<b>LB</b>	3.53	2.05		3.21	1.61	
<b>UB</b>	15.92	8.73		14.86	7.28	
<b>Florida</b>	7.59	3.62	0.48 (0.12 - 1.94)	7.00	2.97	0.42 (0.1 - 1.85)
<b>LB</b>	2.98	1.50		2.68	1.15	
<b>UB</b>	12.34	5.78		11.67	4.97	
<b>Georgia</b>	8.38	4.29	0.51 (0.12 - 2.06)	7.78	3.50	0.45 (0.1 - 2)
<b>LB</b>	3.41	1.64		2.88	1.30	
<b>UB</b>	13.92	7.04		12.54	5.75	
<b>Hawaii</b>	4.78	1.56	0.33 (0.08 - 1.38)	4.24	1.19	0.28 (0.06 - 1.42)
<b>LB</b>	1.86	0.62		1.47	0.43	
<b>UB</b>	7.69	2.57		7.12	2.09	
<b>Idaho</b>	6.43	2.30	0.36 (0.09 - 1.54)	5.33	1.84	0.35 (0.08 - 1.62)
<b>LB</b>	2.54	0.92		2.00	0.70	

<b>UB</b>	10.12	3.90		9.17	3.24	
<b>Illinois</b> <b>LB</b> <b>UB</b>	7.86	3.64	0.46 (0.12 - 1.96)	6.70	2.82	0.42 (0.09 - 1.86)
	3.05	1.48		2.59	0.99	
	12.60	5.99		11.53	4.83	
<b>Indiana</b> <b>LB</b> <b>UB</b>	9.12	4.36	0.48 (0.12 - 1.86)	7.83	3.54	0.45 (0.1 - 1.93)
	3.81	1.76		2.97	1.30	
	14.64	7.07		13.10	5.74	
<b>Iowa</b> <b>LB</b> <b>UB</b>	8.83	4.09	0.46 (0.12 - 1.84)	8.40	3.31	0.39 (0.08 - 1.72)
	3.52	1.66		3.22	1.17	
	13.97	6.49		13.85	5.55	
<b>Kansas</b> <b>LB</b> <b>UB</b>	7.93	3.68	0.46 (0.11 - 1.86)	7.89	3.35	0.42 (0.1 - 1.89)
	3.12	1.46		2.94	1.30	
	12.88	5.80		12.81	5.56	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	13.10	5.82	0.44 (0.11 - 1.69)	11.56	5.01	0.43 (0.09 - 1.82)
	5.27	2.29		4.57	1.75	
	19.98	8.91		18.73	8.31	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	10.23	6.01	0.59 (0.15 - 2.31)	9.59	4.97	0.52 (0.12 - 2.37)
	4.17	2.47		3.55	2.00	
	16.84	9.62		16.38	8.40	
<b>Maine</b> <b>LB</b> <b>UB</b>	6.83	2.94	0.43 (0.11 - 1.7)	6.27	2.42	0.39 (0.09 - 1.57)
	2.81	1.19		2.54	0.90	
	10.91	4.77		10.31	4.00	
<b>Maryland</b> <b>LB</b> <b>UB</b>	5.63	2.86	0.51 (0.12 - 2.03)	4.88	2.21	0.45 (0.11 - 2.02)
	2.30	1.12		1.88	0.87	
	9.21	4.66		7.91	3.79	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	5.71	2.27	0.40 (0.09 - 1.71)	4.21	1.58	0.38 (0.08 - 1.88)
	2.25	0.87		1.49	0.58	
	9.49	3.85		7.39	2.80	
<b>Michigan</b> <b>LB</b> <b>UB</b>	9.72	4.93	0.51 (0.13 - 2.05)	8.23	3.66	0.45 (0.1 - 1.87)
	3.81	2.01		3.27	1.36	
	15.85	7.81		13.91	6.12	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	5.08	1.83	0.36 (0.09 - 1.53)	4.48	1.64	0.37 (0.07 - 1.65)
	1.98	0.73		1.72	0.55	
	8.36	3.02		7.54	2.84	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	12.61	7.18	0.57 (0.15 - 2.21)	12.28	6.24	0.51 (0.14 - 2.21)
	5.06	3.05		4.56	2.70	
	19.83	11.17		19.75	10.10	
<b>Missouri</b> <b>LB</b> <b>UB</b>	11.67	5.91	0.51 (0.13 - 1.93)	10.35	4.53	0.44 (0.11 - 1.81)
	4.89	2.36		4.23	1.74	
	17.98	9.44		16.37	7.65	
<b>Montana</b> <b>LB</b> <b>UB</b>	7.25	2.87	0.40 (0.1 - 1.6)	6.90	2.44	0.35 (0.08 - 1.44)
	2.89	1.12		2.84	0.95	
	11.38	4.63		11.93	4.09	
<b>Nebraska</b>	7.69	2.89	0.38	7.19	2.55	0.35

<b>LB</b> <b>UB</b>	3.02	1.15	(0.09 - 1.52)	2.48	0.94	(0.08 - 1.71)
	12.50	4.59		12.37	4.23	
<b>Nevada</b> <b>LB</b> <b>UB</b>	8.15	3.85	0.47 (0.13 - 2.19)	7.93	3.17	0.40 (0.09 - 2.06)
	2.91	1.64		2.62	1.18	
	13.11	6.38		13.55	5.40	
<b>New Hampshire</b> <b>LB</b> <b>UB</b>	5.42	2.00	0.37 (0.09 - 1.57)	4.83	1.64	0.34 (0.07 - 1.6)
	2.15	0.78		1.77	0.61	
	8.75	3.38		8.58	2.83	
<b>New Jersey</b> <b>LB</b> <b>UB</b>	5.79	2.44	0.42 (0.1 - 1.7)	4.69	1.71	0.36 (0.08 - 1.65)
	2.32	0.90		1.78	0.64	
	9.36	3.95		7.91	2.93	
<b>New Mexico</b> <b>LB</b> <b>UB</b>	6.91	3.28	0.47 (0.11 - 2.04)	7.77	3.05	0.39 (0.09 - 1.69)
	2.62	1.26		2.99	1.15	
	11.03	5.35		13.33	5.05	
<b>New York</b> <b>LB</b> <b>UB</b>	6.58	3.86	0.59 (0.15 - 2.5)	5.83	2.90	0.50 (0.11 - 2.27)
	2.55	1.56		2.13	1.07	
	10.48	6.38		9.71	4.84	
<b>North Carolina</b> <b>LB</b> <b>UB</b>	7.88	3.75	0.48 (0.11 - 2.07)	6.82	3.00	0.44 (0.1 - 2.04)
	2.97	1.45		2.48	1.14	
	13.17	6.14		11.66	5.06	
<b>North Dakota</b> <b>LB</b> <b>UB</b>	7.77	3.00	0.39 (0.1 - 1.64)	6.52	2.22	0.34 (0.08 - 1.39)
	2.98	1.17		2.64	0.83	
	12.16	4.89		10.61	3.68	
<b>Ohio</b> <b>LB</b> <b>UB</b>	10.93	5.10	0.47 (0.12 - 1.87)	9.66	4.23	0.44 (0.1 - 1.86)
	4.31	2.09		3.58	1.62	
	17.17	8.07		15.67	6.65	
<b>Oklahoma</b> <b>LB</b> <b>UB</b>	13.51	7.85	0.58 (0.15 - 2.32)	10.64	5.71	0.54 (0.13 - 2.2)
	5.35	3.26		4.18	2.24	
	21.15	12.43		17.49	9.18	
<b>Oregon</b> <b>LB</b> <b>UB</b>	6.07	2.38	0.39 (0.09 - 1.61)	5.13	1.83	0.36 (0.08 - 1.55)
	2.38	0.92		1.96	0.70	
	9.69	3.84		8.77	3.04	
<b>Pennsylvania</b> <b>LB</b> <b>UB</b>	7.95	3.45	0.43 (0.11 - 1.85)	6.74	2.83	0.42 (0.09 - 1.96)
	3.03	1.37		2.40	1.02	
	12.86	5.60		11.54	4.70	
<b>Rhode Island</b> <b>LB</b> <b>UB</b>	7.81	3.86	0.49 (0.11 - 2)	6.50	2.70	0.42 (0.09 - 1.83)
	3.03	1.48		2.48	1.00	
	12.93	6.06		11.53	4.53	
<b>South Carolina</b> <b>LB</b> <b>UB</b>	10.03	4.33	0.43 (0.12 - 1.59)	8.39	3.31	0.39 (0.09 - 1.73)
	4.35	1.88		3.16	1.26	
	15.76	6.92		13.97	5.47	
<b>South Dakota</b> <b>LB</b> <b>UB</b>	6.94	2.80	0.40 (0.1 - 1.64)	7.05	2.36	0.33 (0.08 - 1.49)
	2.74	1.15		2.61	0.89	
	11.44	4.49		11.61	3.88	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	11.65	7.11	0.61 (0.15 - 2.46)	10.85	5.72	0.53 (0.11 - 2.08)
	4.52	2.83		4.36	2.07	
	18.94	11.12		18.64	9.06	
<b>Texas</b> <b>LB</b> <b>UB</b>	8.16	4.08	0.50 (0.13 - 2.04)	7.79	3.33	0.43 (0.09 - 1.86)
	3.18	1.69		2.89	1.23	
	13.17	6.48		13.32	5.37	
<b>Utah</b> <b>LB</b> <b>UB</b>	4.91	1.98	0.40 (0.1 - 1.73)	4.16	1.61	0.39 (0.08 - 1.98)
	1.97	0.80		1.40	0.56	
	8.16	3.40		7.00	2.77	
<b>Vermont</b> <b>LB</b> <b>UB</b>	6.86	2.75	0.40 (0.1 - 1.59)	6.64	2.56	0.38 (0.09 - 1.67)
	2.82	1.05		2.59	0.97	
	11.00	4.48		11.10	4.32	
<b>Virginia</b> <b>LB</b> <b>UB</b>	7.09	3.22	0.45 (0.11 - 1.86)	6.30	2.65	0.42 (0.09 - 1.81)
	2.79	1.29		2.53	0.99	
	11.24	5.20		10.75	4.57	
<b>Washington</b> <b>LB</b> <b>UB</b>	6.49	2.85	0.44 (0.1 - 1.88)	5.55	2.17	0.39 (0.09 - 1.84)
	2.51	1.06		2.01	0.83	
	10.66	4.71		9.06	3.69	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	13.00	5.78	0.44 (0.11 - 1.74)	11.31	5.08	0.45 (0.1 - 1.86)
	5.34	2.37		4.58	1.92	
	20.95	9.27		19.04	8.51	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	7.46	3.30	0.44 (0.11 - 1.78)	6.57	2.70	0.41 (0.09 - 1.82)
	3.03	1.33		2.47	1.02	
	11.84	5.40		11.19	4.50	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	8.03	3.42	0.43 (0.1 - 1.75)	6.90	2.65	0.38 (0.08 - 1.64)
	3.23	1.33		2.66	0.90	
	13.05	5.64		11.56	4.36	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	8.01	3.87	0.48 (0.13 - 1.79)	7.09	3.05	0.43 (0.11 - 1.63)
	3.32	1.60		2.90	1.19	
	12.51	5.93		11.19	4.73	

**Table S13. Age-standardised mortality rates for IHD attributable to Diet high in red meat. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	7.30	3.46	0.47	6.42	2.85	0.44
<b>LB</b>	-0.38	-0.18		-0.35	-0.15	
<b>UB</b>	15.61	7.47		14.46	6.21	
<b>Alaska</b>	5.41	2.01	0.37	4.48	1.61	0.36
<b>LB</b>	-0.28	-0.09		-0.26	-0.09	
<b>UB</b>	11.23	4.35		9.40	3.56	
<b>Arizona</b>	5.66	1.89	0.33	5.09	1.60	0.31
<b>LB</b>	-0.30	-0.08		-0.23	-0.07	
<b>UB</b>	11.83	4.16		11.12	3.64	
<b>Arkansas</b>	7.94	3.59	0.45	7.61	3.53	0.46
<b>LB</b>	-0.44	-0.19		-0.34	-0.17	
<b>UB</b>	16.64	7.84		16.88	7.69	
<b>California</b>	4.98	2.24	0.45	4.38	1.75	0.40
<b>LB</b>	-0.24	-0.12		-0.22	-0.10	
<b>UB</b>	10.60	4.83		9.63	4.02	
<b>Colorado</b>	4.70	1.82	0.39	4.01	1.41	0.35
<b>LB</b>	-0.28	-0.09		-0.21	-0.07	
<b>UB</b>	9.80	4.00		8.49	3.13	
<b>Connecticut</b>	4.68	2.04	0.44	4.04	1.70	0.42
<b>LB</b>	-0.27	-0.11		-0.21	-0.09	
<b>UB</b>	9.82	4.42		8.50	3.75	
<b>Delaware</b>	5.63	2.58	0.46	4.77	2.00	0.42
<b>LB</b>	-0.29	-0.13		-0.23	-0.13	
<b>UB</b>	12.10	5.93		10.41	4.54	
<b>District of Columbia</b>	6.68	3.23	0.48	5.99	2.64	0.44
<b>LB</b>	-0.33	-0.18		-0.26	-0.14	
<b>UB</b>	13.60	6.72		12.83	5.69	
<b>Florida</b>	5.21	2.32	0.45	4.78	2.00	0.42
<b>LB</b>	-0.30	-0.12		-0.23	-0.10	
<b>UB</b>	10.78	4.96		10.47	4.47	
<b>Georgia</b>	5.71	2.67	0.47	5.24	2.29	0.44
<b>LB</b>	-0.24	-0.14		-0.22	-0.11	
<b>UB</b>	11.77	5.86		11.26	4.98	
<b>Hawaii</b>	4.85	1.63	0.34	4.25	1.34	0.31
<b>LB</b>	-0.26	-0.09		-0.22	-0.08	
<b>UB</b>	10.06	3.63		9.19	2.95	
<b>Idaho</b>	5.56	2.19	0.39	4.65	1.81	0.39
<b>LB</b>	-0.28	-0.11		-0.23	-0.08	
<b>UB</b>	11.54	4.90		9.98	4.01	

<b>Illinois</b> <b>LB</b> <b>UB</b>	6.36	2.51	0.39	5.41	2.07	0.38
	-0.36	-0.12		-0.33	-0.10	
	13.32	5.36		11.78	4.70	
<b>Indiana</b> <b>LB</b> <b>UB</b>	6.39	2.82	0.44	5.60	2.46	0.44
	-0.31	-0.14		-0.25	-0.12	
	13.73	6.15		12.15	5.57	
<b>Iowa</b> <b>LB</b> <b>UB</b>	7.14	3.14	0.44	6.74	2.64	0.39
	-0.40	-0.16		-0.33	-0.12	
	14.56	6.78		14.31	5.60	
<b>Kansas</b> <b>LB</b> <b>UB</b>	6.03	2.66	0.44	6.01	2.54	0.42
	-0.30	-0.15		-0.33	-0.15	
	12.33	5.47		13.02	5.50	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	7.94	3.41	0.43	7.05	3.09	0.44
	-0.39	-0.17		-0.40	-0.17	
	16.86	7.21		15.20	6.85	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	7.81	3.82	0.49	7.33	3.39	0.46
	-0.38	-0.18		-0.39	-0.17	
	15.97	7.96		15.55	7.14	
<b>Maine</b> <b>LB</b> <b>UB</b>	4.71	1.92	0.41	4.38	1.69	0.39
	-0.24	-0.09		-0.23	-0.09	
	10.32	4.10		9.55	3.78	
<b>Maryland</b> <b>LB</b> <b>UB</b>	5.33	2.18	0.41	4.58	1.80	0.39
	-0.30	-0.10		-0.29	-0.10	
	11.30	4.72		9.60	3.90	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	4.96	1.72	0.35	3.75	1.30	0.35
	-0.26	-0.09		-0.20	-0.06	
	10.72	3.78		8.71	2.97	
<b>Michigan</b> <b>LB</b> <b>UB</b>	6.69	3.12	0.47	5.69	2.50	0.44
	-0.36	-0.16		-0.28	-0.14	
	13.90	6.85		12.65	5.73	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	4.00	1.40	0.35	3.58	1.32	0.37
	-0.19	-0.06		-0.19	-0.07	
	8.74	3.08		7.95	3.10	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	7.78	4.16	0.53	7.63	3.77	0.49
	-0.44	-0.20		-0.43	-0.22	
	16.12	8.79		16.25	8.01	
<b>Missouri</b> <b>LB</b> <b>UB</b>	7.74	3.70	0.48	6.84	3.00	0.44
	-0.40	-0.17		-0.39	-0.16	
	16.05	7.61		14.56	6.28	
<b>Montana</b> <b>LB</b> <b>UB</b>	5.66	2.41	0.43	5.35	2.19	0.41
	-0.27	-0.13		-0.28	-0.12	
	11.59	5.04		11.26	4.56	
<b>Nebraska</b> <b>LB</b>	5.66	2.33	0.41	5.25	2.12	0.40
	-0.32	-0.11		-0.25	-0.11	

<b>UB</b>	11.44	4.98		10.86	4.66	
<b>Nevada</b>	5.79	2.61	0.45	5.60	2.24	0.40
<b>LB</b>	-0.28	-0.13		-0.22	-0.11	
<b>UB</b>	12.39	5.56		12.64	5.09	
<b>New Hampshire</b>	4.67	1.59	0.34	4.16	1.42	0.34
<b>LB</b>	-0.22	-0.07		-0.20	-0.07	
<b>UB</b>	10.00	3.54		8.93	3.27	
<b>New Jersey</b>	5.18	1.76	0.34	4.16	1.36	0.33
<b>LB</b>	-0.23	-0.08		-0.19	-0.05	
<b>UB</b>	10.80	3.93		8.91	3.19	
<b>New Mexico</b>	4.76	2.11	0.44	5.26	2.04	0.39
<b>LB</b>	-0.23	-0.11		-0.26	-0.13	
<b>UB</b>	10.08	4.66		11.71	4.41	
<b>New York</b>	5.53	2.77	0.50	4.89	2.21	0.45
<b>LB</b>	-0.27	-0.13		-0.26	-0.09	
<b>UB</b>	11.53	6.26		10.44	4.96	
<b>North Carolina</b>	6.17	2.70	0.44	5.30	2.27	0.43
<b>LB</b>	-0.30	-0.14		-0.25	-0.12	
<b>UB</b>	12.72	5.62		11.45	4.97	
<b>North Dakota</b>	6.14	2.41	0.39	5.10	1.87	0.37
<b>LB</b>	-0.30	-0.14		-0.25	-0.10	
<b>UB</b>	12.47	5.17		11.03	4.07	
<b>Ohio</b>	6.75	3.45	0.51	6.00	2.98	0.50
<b>LB</b>	-0.35	-0.16		-0.32	-0.17	
<b>UB</b>	13.85	7.44		12.86	6.30	
<b>Oklahoma</b>	8.84	4.13	0.47	6.93	3.19	0.46
<b>LB</b>	-0.43	-0.24		-0.35	-0.21	
<b>UB</b>	18.34	8.81		14.66	7.18	
<b>Oregon</b>	4.20	1.56	0.37	3.55	1.25	0.35
<b>LB</b>	-0.18	-0.08		-0.17	-0.06	
<b>UB</b>	9.07	3.30		8.18	2.84	
<b>Pennsylvania</b>	5.96	2.53	0.42	5.08	2.17	0.43
<b>LB</b>	-0.32	-0.12		-0.24	-0.11	
<b>UB</b>	12.55	5.37		11.10	4.88	
<b>Rhode Island</b>	5.47	2.54	0.46	4.68	1.94	0.41
<b>LB</b>	-0.25	-0.14		-0.22	-0.10	
<b>UB</b>	11.74	5.69		10.37	4.36	
<b>South Carolina</b>	7.20	2.55	0.35	6.06	2.10	0.35
<b>LB</b>	-0.34	-0.13		-0.30	-0.11	
<b>UB</b>	15.12	5.27		13.13	4.59	
<b>South Dakota</b>	5.52	2.11	0.38	5.43	1.82	0.34
<b>LB</b>	-0.25	-0.08		-0.24	-0.09	
<b>UB</b>	11.67	4.51		11.50	3.94	
<b>Tennessee</b>	8.56	3.96	0.46	7.90	3.36	0.43

<b>LB</b>	-0.47	-0.18		-0.44	-0.18	
<b>UB</b>	18.21	8.31		17.18	7.27	
<b>Texas</b>	6.26	3.11	0.50	5.94	2.66	0.45
<b>LB</b>	-0.36	-0.15		-0.30	-0.12	
<b>UB</b>	13.11	6.54		12.65	5.77	
<b>Utah</b>	4.10	1.92	0.47	3.51	1.65	0.47
<b>LB</b>	-0.20	-0.06		-0.16	-0.07	
<b>UB</b>	8.85	4.15		7.48	3.79	
<b>Vermont</b>	4.79	1.84	0.38	4.65	1.77	0.38
<b>LB</b>	-0.25	-0.09		-0.22	-0.07	
<b>UB</b>	10.32	3.79		9.96	3.72	
<b>Virginia</b>	5.17	2.05	0.40	4.57	1.80	0.39
<b>LB</b>	-0.27	-0.10		-0.21	-0.09	
<b>UB</b>	10.80	4.44		9.74	3.88	
<b>Washington</b>	4.54	1.85	0.41	3.88	1.49	0.38
<b>LB</b>	-0.22	-0.09		-0.21	-0.07	
<b>UB</b>	9.55	4.00		8.39	3.42	
<b>West Virginia</b>	8.24	3.56	0.43	7.16	3.28	0.46
<b>LB</b>	-0.43	-0.17		-0.30	-0.18	
<b>UB</b>	17.21	7.59		15.14	7.08	
<b>Wisconsin</b>	5.19	2.14	0.41	4.62	1.86	0.40
<b>LB</b>	-0.28	-0.09		-0.21	-0.09	
<b>UB</b>	11.18	4.57		10.01	4.17	
<b>Wyoming</b>	5.42	2.13	0.39	4.70	1.76	0.38
<b>LB</b>	-0.28	-0.12		-0.21	-0.09	
<b>UB</b>	11.42	4.70		10.20	3.81	
<b>USA Mean</b>	5.87	2.60	0.44	5.19	2.17	0.42
<b>LB</b>	-0.30	-0.13		-0.26	-0.11	
<b>UB</b>	12.05	5.42		10.93	4.67	

The 95% uncertainty intervals for the ratio were not reported due to model instability and lack of reliable estimation.

**Table S14. Age-standardised mortality rates for IHD attributable to Diet high in sodium. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	8.17	2.55	0.31 (0 - 52.84)	7.26	2.12	0.29 (0 - 48.47)
<b>LB</b>	0.19	0.00		0.17	0.00	
<b>UB</b>	23.75	10.04		21.58	8.24	
<b>Alaska</b>	5.85	1.44	0.25 (0 - 44.69)	4.92	1.11	0.23 (0 - 47.44)
<b>LB</b>	0.13	0.00		0.09	0.00	
<b>UB</b>	17.70	5.81		14.79	4.27	
<b>Arizona</b>	5.91	1.80	0.30 (0 - 56.31)	5.46	1.48	0.27 (0 - 73.63)
<b>LB</b>	0.13	0.00		0.08	0.00	
<b>UB</b>	17.81	7.32		16.24	5.89	
<b>Arkansas</b>	8.89	2.64	0.30 (0 - 47)	8.59	2.55	0.30 (0 - 51.63)
<b>LB</b>	0.22	0.00		0.19	0.00	
<b>UB</b>	26.04	10.34		25.06	9.81	
<b>California</b>	5.65	1.76	0.31 (0 - 78.89)	5.00	1.34	0.27 (0 - 80.43)
<b>LB</b>	0.09	0.00		0.07	0.00	
<b>UB</b>	17.26	7.10		15.09	5.63	
<b>Colorado</b>	4.80	1.42	0.29 (0 - 73.88)	4.16	1.12	0.27 (0 - 64.57)
<b>LB</b>	0.08	0.00		0.07	0.00	
<b>UB</b>	14.54	5.91		12.44	4.52	
<b>Connecticut</b>	5.18	1.55	0.30 (0 - 56.91)	4.56	1.33	0.29 (0 - 66.5)
<b>LB</b>	0.11	0.00		0.08	0.00	
<b>UB</b>	15.33	6.26		13.98	5.32	
<b>Delaware</b>	6.39	2.02	0.32 (0 - 66.42)	5.68	1.59	0.28 (0 - 69.89)
<b>LB</b>	0.12	0.00		0.09	0.00	
<b>UB</b>	18.35	7.97		16.51	6.29	
<b>District of Columbia</b>	6.74	2.19	0.32 (0 - 59.2)	5.93	1.80	0.30 (0 - 65.73)
<b>LB</b>	0.15	0.00		0.11	0.00	
<b>UB</b>	19.92	8.88		17.56	7.23	
<b>Florida</b>	5.89	1.79	0.30 (0 - 51.36)	5.47	1.52	0.28 (0 - 55.73)
<b>LB</b>	0.14	0.00		0.11	0.00	
<b>UB</b>	17.90	7.19		17.42	6.13	
<b>Georgia</b>	6.54	2.06	0.31 (0 - 54.07)	5.93	1.73	0.29 (0 - 55.58)
<b>LB</b>	0.15	0.00		0.12	0.00	
<b>UB</b>	19.97	8.11		17.82	6.67	
<b>Hawaii</b>	5.14	1.16	0.23 (0 - 27.12)	4.60	0.96	0.21 (0 - 34)
<b>LB</b>	0.17	0.00		0.11	0.00	
<b>UB</b>	14.71	4.61		13.32	3.74	
<b>Idaho</b>	5.89	1.61	0.27 (0 - 52.92)	5.07	1.34	0.26 (0 - 88.33)
<b>LB</b>	0.12	0.00		0.06	0.00	

<b>UB</b>	17.52	6.35		15.17	5.30		
<b>Illinois</b>	6.74	1.88	0.28 (0 - 44.71)	5.89	1.52	0.26 (0 - 49.77)	
	<b>LB</b>	0.17		0.00	0.13		0.00
	<b>UB</b>	19.78		7.60	17.97		6.47
<b>Indiana</b>	7.33	2.20	0.30 (0 - 57.75)	6.57	1.92	0.29 (0 - 68.73)	
	<b>LB</b>	0.16		0.00	0.11		0.00
	<b>UB</b>	21.71		9.24	19.72		7.56
<b>Iowa</b>	6.63	1.97	0.30 (0 - 65.58)	6.39	1.66	0.26 (0 - 80.25)	
	<b>LB</b>	0.12		0.00	0.08		0.00
	<b>UB</b>	19.75		7.87	19.16		6.42
<b>Kansas</b>	6.25	1.86	0.30 (0 - 56.62)	6.37	1.79	0.28 (0 - 67.3)	
	<b>LB</b>	0.13		0.00	0.10		0.00
	<b>UB</b>	18.63		7.36	18.95		6.73
<b>Kentucky</b>	8.29	2.44	0.29 (0 - 54.28)	7.41	2.18	0.29 (0 - 58.4)	
	<b>LB</b>	0.18		0.00	0.15		0.00
	<b>UB</b>	24.60		9.77	21.91		8.76
<b>Louisiana</b>	7.84	2.52	0.32 (0 - 58.65)	7.45	2.29	0.31 (0 - 58.27)	
	<b>LB</b>	0.17		0.00	0.15		0.00
	<b>UB</b>	23.58		9.97	23.22		8.74
<b>Maine</b>	5.50	1.61	0.29 (0 - 54.17)	5.25	1.40	0.27 (0 - 56.1)	
	<b>LB</b>	0.12		0.00	0.10		0.00
	<b>UB</b>	16.41		6.50	16.76		5.61
<b>Maryland</b>	6.10	1.99	0.33 (0 - 56)	5.28	1.61	0.30 (0 - 61.3)	
	<b>LB</b>	0.14		0.00	0.10		0.00
	<b>UB</b>	18.47		7.84	15.44		6.13
<b>Massachusetts</b>	5.52	1.56	0.28 (0 - 47.62)	4.23	1.17	0.28 (0 - 56.63)	
	<b>LB</b>	0.13		0.00	0.08		0.00
	<b>UB</b>	16.54		6.19	12.97		4.53
<b>Michigan</b>	7.70	2.41	0.31 (0 - 64.47)	6.64	1.92	0.29 (0 - 74.4)	
	<b>LB</b>	0.15		0.00	0.10		0.00
	<b>UB</b>	22.27		9.67	19.91		7.44
<b>Minnesota</b>	4.57	1.14	0.25 (0 - 46.7)	4.17	1.05	0.25 (0 - 59.57)	
	<b>LB</b>	0.10		0.00	0.07		0.00
	<b>UB</b>	13.73		4.67	13.11		4.17
<b>Mississippi</b>	8.67	2.67	0.31 (0 - 55)	8.47	2.37	0.28 (0 - 59.87)	
	<b>LB</b>	0.19		0.00	0.15		0.00
	<b>UB</b>	25.22		10.45	24.92		8.98
<b>Missouri</b>	7.68	2.40	0.31 (0 - 50.83)	6.97	1.99	0.29 (0 - 50.47)	
	<b>LB</b>	0.18		0.00	0.15		0.00
	<b>UB</b>	21.88		9.15	20.27		7.57
<b>Montana</b>	5.81	1.55	0.27 (0 - 46.85)	5.54	1.43	0.26 (0 - 55.9)	
	<b>LB</b>	0.13		0.00	0.10		0.00
	<b>UB</b>	17.46		6.09	17.31		5.59
<b>Nebraska</b>	5.41	1.51	0.28	5.19	1.37	0.26	

<b>LB</b>	0.12	0.00	(0 - 49.5)	0.08	0.00	(0 - 67.13)
<b>UB</b>	16.54	5.94		16.30	5.37	
<b>Nevada</b>	6.84	2.06		6.83	1.80	
<b>LB</b>	0.14	0.00	0.30 (0 - 58.64)	0.13	0.00	0.26 (0 - 53)
<b>UB</b>	20.59	8.21		20.47	6.89	
<b>New Hampshire</b>	5.50	1.60		4.91	1.41	
<b>LB</b>	0.11	0.00	0.29 (0 - 58.82)	0.07	0.00	0.29 (0 - 84)
<b>UB</b>	16.70	6.47		15.30	5.88	
<b>New Jersey</b>	6.27	1.99		5.14	1.52	
<b>LB</b>	0.10	0.00	0.32 (0 - 78.4)	0.10	0.00	0.30 (0 - 64)
<b>UB</b>	18.86	7.84		15.49	6.40	
<b>New Mexico</b>	5.64	1.76		6.17	1.69	
<b>LB</b>	0.10	0.00	0.31 (0 - 71.6)	0.10	0.00	0.27 (0 - 65.9)
<b>UB</b>	17.21	7.16		18.39	6.59	
<b>New York</b>	6.96	2.33		6.09	1.82	
<b>LB</b>	0.14	0.00	0.33 (0 - 64.79)	0.11	0.00	0.30 (0 - 65.18)
<b>UB</b>	20.40	9.07		17.50	7.17	
<b>North Carolina</b>	6.63	1.95		5.75	1.63	
<b>LB</b>	0.16	0.00	0.29 (0 - 49.69)	0.11	0.00	0.28 (0 - 60)
<b>UB</b>	19.55	7.95		17.37	6.60	
<b>North Dakota</b>	6.08	1.55		4.94	1.22	
<b>LB</b>	0.11	0.00	0.25 (0 - 56.09)	0.08	0.00	0.25 (0 - 61.38)
<b>UB</b>	17.96	6.17		14.90	4.91	
<b>Ohio</b>	7.26	2.25		6.66	1.96	
<b>LB</b>	0.14	0.00	0.31 (0 - 64)	0.12	0.00	0.29 (0 - 64)
<b>UB</b>	21.74	8.96		20.68	7.68	
<b>Oklahoma</b>	8.96	2.94		7.14	2.27	
<b>LB</b>	0.18	0.00	0.33 (0 - 64.17)	0.11	0.00	0.32 (0 - 77.45)
<b>UB</b>	25.74	11.55		21.13	8.52	
<b>Oregon</b>	5.03	1.30		4.28	1.02	
<b>LB</b>	0.10	0.00	0.26 (0 - 52.4)	0.08	0.00	0.24 (0 - 49.88)
<b>UB</b>	14.88	5.24		12.98	3.99	
<b>Pennsylvania</b>	6.78	2.04		5.80	1.74	
<b>LB</b>	0.13	0.00	0.30 (0 - 64)	0.10	0.00	0.30 (0 - 69.4)
<b>UB</b>	20.10	8.32		17.46	6.94	
<b>Rhode Island</b>	6.46	2.06		5.66	1.64	
<b>LB</b>	0.10	0.00	0.32 (0 - 84.9)	0.09	0.00	0.29 (0 - 73.67)
<b>UB</b>	20.21	8.49		17.84	6.63	
<b>South Carolina</b>	7.32	2.07		6.36	1.72	
<b>LB</b>	0.19	0.00	0.28 (0 - 43.42)	0.16	0.00	0.27 (0 - 42)
<b>UB</b>	21.00	8.25		18.71	6.72	
<b>South Dakota</b>	6.41	1.68		6.16	1.38	
<b>LB</b>	0.13	0.00	0.26 (0 - 52.54)	0.12	0.00	0.22 (0 - 45.17)
<b>UB</b>	19.20	6.83		17.74	5.42	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	8.48	2.63	0.31 (0 - 47.09)	8.06	2.23	0.28 (0 - 54.69)
	0.22	0.00		0.16	0.00	
	25.22	10.36		23.88	8.75	
<b>Texas</b> <b>LB</b> <b>UB</b>	6.56	2.08	0.32 (0 - 64.15)	6.18	1.79	0.29 (0 - 57.92)
	0.13	0.00		0.12	0.00	
	19.58	8.34		18.70	6.95	
<b>Utah</b> <b>LB</b> <b>UB</b>	4.92	1.63	0.33 (0 - 83.38)	4.30	1.40	0.33 (0 - 79)
	0.08	0.00		0.07	0.00	
	14.86	6.67		13.51	5.53	
<b>Vermont</b> <b>LB</b> <b>UB</b>	5.65	1.55	0.27 (0 - 64.1)	5.40	1.42	0.26 (0 - 58)
	0.10	0.00		0.10	0.00	
	17.07	6.41		16.14	5.80	
<b>Virginia</b> <b>LB</b> <b>UB</b>	5.89	1.83	0.31 (0 - 64.91)	5.23	1.56	0.30 (0 - 55.73)
	0.11	0.00		0.11	0.00	
	17.39	7.14		16.28	6.13	
<b>Washington</b> <b>LB</b> <b>UB</b>	5.37	1.50	0.28 (0 - 77.75)	4.56	1.19	0.26 (0 - 67.86)
	0.08	0.00		0.07	0.00	
	16.07	6.22		13.78	4.75	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	8.41	2.71	0.32 (0 - 55.05)	7.49	2.52	0.34 (0 - 62.88)
	0.20	0.00		0.16	0.00	
	24.59	11.01		21.67	10.06	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	6.13	1.71	0.28 (0 - 62.64)	5.46	1.47	0.27 (0 - 65.11)
	0.11	0.00		0.09	0.00	
	18.42	6.89		16.00	5.86	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	6.08	1.63	0.27 (0 - 55)	5.33	1.36	0.26 (0 - 49.73)
	0.12	0.00		0.11	0.00	
	18.42	6.60		16.18	5.47	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	6.50	1.99	0.31 (0 - 44.11)	5.80	1.64	0.28 (0 - 40.25)
	0.18	0.00		0.16	0.00	
	19.51	7.94		17.37	6.44	

**Table S15. Age-standardised mortality rates for IHD attributable to Diet high in sugar-sweetened beverages. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
Alabama LB UB	0.36	0.20	0.55	0.33	0.16	0.50
	-0.09	-0.04		-0.07	-0.03	
	0.94	0.48		0.81	0.41	
Alaska LB UB	0.28	0.11	0.41	0.24	0.10	0.41
	-0.06	-0.03		-0.05	-0.02	
	0.65	0.26		0.59	0.26	
Arizona LB UB	0.23	0.11	0.49	0.21	0.09	0.44
	-0.05	-0.03		-0.05	-0.02	
	0.54	0.25		0.51	0.24	
Arkansas LB UB	0.39	0.20	0.51	0.39	0.21	0.53
	-0.09	-0.05		-0.07	-0.05	
	0.93	0.49		0.98	0.55	
California LB UB	0.24	0.11	0.48	0.23	0.09	0.42
	-0.05	-0.02		-0.05	-0.02	
	0.56	0.25		0.57	0.23	
Colorado LB UB	0.20	0.09	0.45	0.19	0.07	0.39
	-0.04	-0.03		-0.04	-0.02	
	0.48	0.21		0.45	0.18	
Connecticut LB UB	0.28	0.13	0.47	0.24	0.11	0.44
	-0.06	-0.03		-0.06	-0.02	
	0.68	0.33		0.61	0.26	
Delaware LB UB	0.30	0.15	0.50	0.24	0.11	0.46
	-0.07	-0.03		-0.06	-0.02	
	0.71	0.36		0.58	0.28	
District of Columbia LB UB	0.37	0.22	0.61	0.37	0.19	0.50
	-0.08	-0.05		-0.08	-0.04	
	0.98	0.52		1.02	0.49	
Florida LB UB	0.25	0.13	0.50	0.24	0.11	0.47
	-0.07	-0.03		-0.06	-0.03	
	0.58	0.30		0.55	0.28	
Georgia LB UB	0.27	0.15	0.53	0.27	0.13	0.48
	-0.06	-0.03		-0.06	-0.03	
	0.63	0.35		0.63	0.33	
Hawaii LB UB	0.23	0.09	0.38	0.21	0.07	0.35
	-0.07	-0.02		-0.05	-0.02	
	0.56	0.20		0.49	0.18	
Idaho LB	0.21	0.09	0.43	0.18	0.08	0.43
	-0.05	-0.02		-0.04	-0.02	

<b>UB</b>	0.50	0.21		0.44	0.20	
<b>Illinois</b> <b>LB</b> <b>UB</b>	0.29	0.15	0.50	0.26	0.12	0.47
	-0.07	-0.04		-0.05	-0.03	
	0.69	0.34		0.64	0.31	
<b>Indiana</b> <b>LB</b> <b>UB</b>	0.32	0.16	0.48	0.28	0.14	0.49
	-0.07	-0.04		-0.07	-0.03	
	0.76	0.36		0.73	0.35	
<b>Iowa</b> <b>LB</b> <b>UB</b>	0.28	0.13	0.48	0.28	0.12	0.45
	-0.06	-0.03		-0.06	-0.03	
	0.70	0.32		0.70	0.32	
<b>Kansas</b> <b>LB</b> <b>UB</b>	0.27	0.13	0.49	0.28	0.13	0.47
	-0.06	-0.03		-0.06	-0.03	
	0.66	0.31		0.72	0.32	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	0.36	0.18	0.51	0.33	0.17	0.51
	-0.09	-0.04		-0.07	-0.03	
	0.82	0.43		0.77	0.45	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	0.35	0.20	0.57	0.34	0.18	0.54
	-0.08	-0.04		-0.08	-0.04	
	0.83	0.47		0.83	0.45	
<b>Maine</b> <b>LB</b> <b>UB</b>	0.23	0.10	0.44	0.22	0.09	0.41
	-0.05	-0.02		-0.05	-0.02	
	0.56	0.24		0.54	0.22	
<b>Maryland</b> <b>LB</b> <b>UB</b>	0.29	0.16	0.54	0.26	0.13	0.51
	-0.07	-0.03		-0.06	-0.03	
	0.67	0.38		0.64	0.33	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	0.27	0.11	0.43	0.21	0.09	0.42
	-0.06	-0.03		-0.05	-0.02	
	0.67	0.27		0.52	0.22	
<b>Michigan</b> <b>LB</b> <b>UB</b>	0.32	0.17	0.53	0.29	0.14	0.48
	-0.08	-0.03		-0.06	-0.03	
	0.76	0.40		0.71	0.35	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	0.20	0.08	0.38	0.19	0.08	0.40
	-0.06	-0.02		-0.04	-0.02	
	0.50	0.18		0.51	0.19	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	0.37	0.20	0.53	0.38	0.19	0.51
	-0.09	-0.04		-0.09	-0.04	
	0.94	0.47		0.96	0.48	
<b>Missouri</b> <b>LB</b> <b>UB</b>	0.34	0.18	0.54	0.31	0.15	0.47
	-0.07	-0.05		-0.07	-0.04	
	0.79	0.43		0.74	0.35	
<b>Montana</b> <b>LB</b> <b>UB</b>	0.23	0.10	0.41	0.24	0.09	0.39
	-0.06	-0.02		-0.05	-0.02	
	0.53	0.23		0.59	0.25	
<b>Nebraska</b>	0.24	0.10	0.42	0.23	0.10	0.41

<b>LB</b>	-0.05	-0.02		-0.05	-0.02	
<b>UB</b>	0.59	0.24		0.59	0.25	
<b>Nevada</b>	0.28	0.14	0.49	0.26	0.11	0.44
<b>LB</b>	-0.06	-0.03		-0.05	-0.02	
<b>UB</b>	0.69	0.33		0.66	0.30	
<b>New Hampshire</b>	0.24	0.10	0.43	0.22	0.09	0.43
<b>LB</b>	-0.06	-0.02		-0.05	-0.02	
<b>UB</b>	0.54	0.25		0.52	0.24	
<b>New Jersey</b>	0.29	0.15	0.51	0.24	0.11	0.46
<b>LB</b>	-0.07	-0.03		-0.06	-0.02	
<b>UB</b>	0.67	0.33		0.59	0.29	
<b>New Mexico</b>	0.21	0.10	0.49	0.25	0.10	0.41
<b>LB</b>	-0.05	-0.02		-0.07	-0.03	
<b>UB</b>	0.49	0.23		0.62	0.25	
<b>New York</b>	0.30	0.16	0.53	0.28	0.13	0.48
<b>LB</b>	-0.07	-0.04		-0.06	-0.03	
<b>UB</b>	0.70	0.37		0.69	0.32	
<b>North Carolina</b>	0.28	0.14	0.49	0.25	0.12	0.48
<b>LB</b>	-0.07	-0.03		-0.05	-0.03	
<b>UB</b>	0.67	0.31		0.62	0.30	
<b>North Dakota</b>	0.27	0.11	0.42	0.27	0.10	0.35
<b>LB</b>	-0.06	-0.03		-0.06	-0.02	
<b>UB</b>	0.64	0.27		0.70	0.24	
<b>Ohio</b>	0.31	0.16	0.51	0.28	0.15	0.51
<b>LB</b>	-0.08	-0.04		-0.07	-0.03	
<b>UB</b>	0.79	0.39		0.71	0.36	
<b>Oklahoma</b>	0.39	0.22	0.57	0.32	0.17	0.54
<b>LB</b>	-0.10	-0.05		-0.06	-0.04	
<b>UB</b>	0.91	0.55		0.74	0.47	
<b>Oregon</b>	0.20	0.08	0.40	0.17	0.07	0.38
<b>LB</b>	-0.05	-0.01		-0.04	-0.01	
<b>UB</b>	0.46	0.18		0.44	0.17	
<b>Pennsylvania</b>	0.29	0.14	0.48	0.26	0.13	0.50
<b>LB</b>	-0.07	-0.03		-0.06	-0.03	
<b>UB</b>	0.67	0.33		0.62	0.32	
<b>Rhode Island</b>	0.27	0.14	0.51	0.23	0.11	0.45
<b>LB</b>	-0.05	-0.04		-0.05	-0.03	
<b>UB</b>	0.61	0.33		0.57	0.28	
<b>South Carolina</b>	0.33	0.15	0.47	0.28	0.13	0.45
<b>LB</b>	-0.06	-0.04		-0.06	-0.03	
<b>UB</b>	0.80	0.37		0.67	0.33	
<b>South Dakota</b>	0.27	0.12	0.43	0.30	0.11	0.37
<b>LB</b>	-0.06	-0.03		-0.06	-0.02	
<b>UB</b>	0.64	0.29		0.72	0.27	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	0.38	0.20	0.52	0.37	0.17	0.47
	-0.10	-0.04		-0.08	-0.04	
	0.88	0.46		0.91	0.44	
<b>Texas</b> <b>LB</b> <b>UB</b>	0.27	0.14	0.54	0.28	0.13	0.46
	-0.07	-0.04		-0.07	-0.03	
	0.65	0.33		0.68	0.32	
<b>Utah</b> <b>LB</b> <b>UB</b>	0.17	0.08	0.48	0.15	0.07	0.49
	-0.04	-0.02		-0.03	-0.02	
	0.37	0.19		0.33	0.18	
<b>Vermont</b> <b>LB</b> <b>UB</b>	0.23	0.09	0.41	0.25	0.10	0.40
	-0.05	-0.02		-0.06	-0.02	
	0.56	0.23		0.60	0.24	
<b>Virginia</b> <b>LB</b> <b>UB</b>	0.27	0.14	0.51	0.25	0.13	0.50
	-0.07	-0.03		-0.06	-0.03	
	0.66	0.33		0.62	0.30	
<b>Washington</b> <b>LB</b> <b>UB</b>	0.22	0.10	0.44	0.20	0.08	0.41
	-0.05	-0.02		-0.04	-0.02	
	0.51	0.22		0.48	0.20	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	0.36	0.19	0.51	0.32	0.17	0.54
	-0.08	-0.05		-0.06	-0.04	
	0.83	0.42		0.79	0.45	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	0.25	0.11	0.45	0.23	0.10	0.44
	-0.05	-0.03		-0.05	-0.03	
	0.59	0.27		0.56	0.25	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	0.29	0.12	0.43	0.26	0.11	0.40
	-0.06	-0.03		-0.06	-0.02	
	0.67	0.30		0.65	0.26	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	0.28	0.14	0.50	0.26	0.12	0.46
	-0.07	-0.03		-0.06	-0.03	
	0.60	0.31		0.58	0.27	

The 95% uncertainty intervals for the ratio were not reported due to model instability and lack of reliable estimation.

**Table S16. Age-standardised mortality rates for IHD attributable to Diet low in fiber. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	9.68	6.41	0.66 (0.22 - 2.05)	7.98	4.78	0.60 (0.17 - 2.02)
<b>LB</b>	4.91	3.30		3.76	2.34	
<b>UB</b>	15.05	10.05		13.50	7.61	
<b>Alaska</b>	6.43	3.42	0.53 (0.16 - 1.66)	5.00	2.44	0.49 (0.15 - 1.66)
<b>LB</b>	3.14	1.68		2.30	1.21	
<b>UB</b>	10.22	5.22		8.26	3.81	
<b>Arizona</b>	6.68	4.33	0.65 (0.19 - 2.21)	5.81	3.26	0.56 (0.16 - 2.05)
<b>LB</b>	3.18	2.07		2.62	1.58	
<b>UB</b>	10.71	7.03		9.82	5.36	
<b>Arkansas</b>	10.69	6.82	0.64 (0.2 - 2.15)	9.26	5.75	0.62 (0.18 - 2.25)
<b>LB</b>	5.07	3.38		4.21	2.82	
<b>UB</b>	17.01	10.91		15.29	9.46	
<b>California</b>	5.50	3.77	0.68 (0.21 - 2.36)	4.30	2.50	0.58 (0.16 - 2.15)
<b>LB</b>	2.49	1.78		1.93	1.17	
<b>UB</b>	8.63	5.88		7.20	4.14	
<b>Colorado</b>	4.91	3.14	0.64 (0.17 - 2.27)	3.82	2.13	0.56 (0.14 - 2.2)
<b>LB</b>	2.26	1.42		1.66	0.92	
<b>UB</b>	8.20	5.13		6.52	3.65	
<b>Connecticut</b>	4.21	2.86	0.68 (0.17 - 2.45)	3.55	2.21	0.62 (0.15 - 2.51)
<b>LB</b>	2.00	1.28		1.49	0.97	
<b>UB</b>	7.33	4.90		6.62	3.74	
<b>Delaware</b>	6.45	4.46	0.69 (0.2 - 2.31)	5.38	3.23	0.60 (0.17 - 2.4)
<b>LB</b>	3.09	2.15		2.21	1.48	
<b>UB</b>	10.52	7.13		8.88	5.30	
<b>District of Columbia</b>	4.98	3.74	0.75 (0.2 - 2.63)	3.78	2.46	0.65 (0.15 - 2.56)
<b>LB</b>	2.29	1.72		1.62	1.06	
<b>UB</b>	8.66	6.03		6.98	4.15	
<b>Florida</b>	6.35	4.18	0.66 (0.19 - 2.18)	5.46	3.20	0.59 (0.17 - 2.01)
<b>LB</b>	3.05	2.00		2.60	1.51	
<b>UB</b>	10.35	6.64		9.08	5.23	
<b>Georgia</b>	7.28	4.87	0.67 (0.2 - 2.11)	6.20	3.75	0.60 (0.17 - 2.32)
<b>LB</b>	3.63	2.30		2.66	1.72	
<b>UB</b>	11.64	7.65		10.26	6.16	
<b>Hawaii</b>	4.98	2.55	0.51 (0.15 - 1.66)	4.02	1.86	0.46 (0.13 - 1.84)
<b>LB</b>	2.43	1.18		1.66	0.90	
<b>UB</b>	7.83	4.03		6.76	3.05	
<b>Idaho</b>	6.94	3.98	0.57 (0.18 - 1.95)	5.49	2.98	0.54 (0.16 - 1.99)
<b>LB</b>	3.23	1.92		2.39	1.43	

<b>UB</b>	10.74	6.31		9.11	4.76		
<b>Illinois</b>	6.45	4.23	0.66 (0.21 - 2.19)	5.15	3.07	0.60 (0.16 - 2.2)	
	<b>LB</b>	3.03		2.11	2.33		1.43
	<b>UB</b>	10.06		6.65	8.89		5.12
<b>Indiana</b>	8.32	5.26	0.63 (0.19 - 2.1)	6.82	4.08	0.60 (0.17 - 2.22)	
	<b>LB</b>	4.00		2.54	2.98		1.94
	<b>UB</b>	13.23		8.39	11.28		6.61
<b>Iowa</b>	7.21	4.53	0.63 (0.18 - 2.01)	6.30	3.40	0.54 (0.14 - 1.89)	
	<b>LB</b>	3.54		2.13	3.02		1.61
	<b>UB</b>	11.63		7.12	11.11		5.70
<b>Kansas</b>	6.63	4.20	0.63 (0.2 - 2.02)	6.19	3.57	0.58 (0.16 - 2.03)	
	<b>LB</b>	3.30		2.07	2.85		1.82
	<b>UB</b>	10.61		6.66	11.08		5.78
<b>Kentucky</b>	9.66	6.02	0.62 (0.2 - 1.91)	8.03	4.81	0.60 (0.17 - 2.12)	
	<b>LB</b>	4.96		2.99	3.71		2.20
	<b>UB</b>	14.73		9.45	13.17		7.87
<b>Louisiana</b>	8.79	6.04	0.69 (0.21 - 2.18)	7.59	4.78	0.63 (0.18 - 2.16)	
	<b>LB</b>	4.32		2.89	3.58		2.24
	<b>UB</b>	13.94		9.40	12.37		7.72
<b>Maine</b>	6.12	3.81	0.62 (0.2 - 1.95)	5.41	3.01	0.56 (0.16 - 1.85)	
	<b>LB</b>	3.05		1.89	2.62		1.43
	<b>UB</b>	9.66		5.96	8.98		4.84
<b>Maryland</b>	5.46	3.99	0.73 (0.21 - 2.45)	4.46	2.88	0.65 (0.17 - 2.25)	
	<b>LB</b>	2.60		1.90	2.05		1.30
	<b>UB</b>	9.17		6.38	7.70		4.61
<b>Massachusetts</b>	5.30	3.13	0.59 (0.17 - 2.03)	3.68	2.04	0.55 (0.14 - 2.16)	
	<b>LB</b>	2.40		1.49	1.58		0.93
	<b>UB</b>	8.67		4.88	6.57		3.42
<b>Michigan</b>	8.52	5.69	0.67 (0.2 - 2.17)	6.70	4.04	0.60 (0.17 - 2.2)	
	<b>LB</b>	4.13		2.68	3.08		1.92
	<b>UB</b>	13.38		8.98	11.42		6.78
<b>Minnesota</b>	4.70	2.53	0.54 (0.15 - 1.85)	3.99	2.10	0.53 (0.13 - 2.09)	
	<b>LB</b>	2.13		1.18	1.63		0.89
	<b>UB</b>	7.64		3.95	6.80		3.41
<b>Mississippi</b>	10.62	6.90	0.65 (0.21 - 1.96)	9.68	5.55	0.57 (0.17 - 1.99)	
	<b>LB</b>	5.48		3.54	4.51		2.76
	<b>UB</b>	16.69		10.73	16.04		8.99
<b>Missouri</b>	8.48	5.65	0.67 (0.21 - 2.12)	7.17	4.17	0.58 (0.17 - 2.01)	
	<b>LB</b>	4.29		2.74	3.42		2.04
	<b>UB</b>	13.05		9.10	11.85		6.86
<b>Montana</b>	6.65	3.68	0.55 (0.17 - 1.82)	5.59	3.00	0.54 (0.14 - 2.04)	
	<b>LB</b>	3.25		1.74	2.41		1.41
	<b>UB</b>	10.47		5.93	9.88		4.92
<b>Nebraska</b>	5.87	3.45	0.59	4.96	2.75	0.55	

<b>LB</b>	2.67	1.68	(0.18 - 2.11)	2.16	1.24	(0.15 - 2.1)
<b>UB</b>	9.41	5.63		8.24	4.54	
<b>Nevada</b>	7.06	4.64	0.66 (0.2 - 2.14)	6.78	3.74	0.55 (0.15 - 1.81)
<b>LB</b>	3.45	2.22		3.26	1.73	
<b>UB</b>	11.26	7.39		11.30	5.91	
<b>New Hampshire</b>	5.27	3.31	0.63 (0.18 - 2.16)	4.47	2.70	0.60 (0.15 - 2.39)
<b>LB</b>	2.44	1.58		1.84	1.23	
<b>UB</b>	8.89	5.27		7.99	4.39	
<b>New Jersey</b>	5.63	3.92	0.70 (0.21 - 2.53)	4.30	2.68	0.62 (0.17 - 2.51)
<b>LB</b>	2.55	1.87		1.79	1.25	
<b>UB</b>	9.07	6.45		7.44	4.49	
<b>New Mexico</b>	6.65	4.39	0.66 (0.2 - 2.11)	6.80	3.78	0.56 (0.15 - 1.9)
<b>LB</b>	3.27	2.10		3.31	1.80	
<b>UB</b>	10.44	6.90		11.67	6.28	
<b>New York</b>	6.52	4.80	0.74 (0.22 - 2.55)	5.07	3.24	0.64 (0.16 - 2.44)
<b>LB</b>	2.99	2.40		2.20	1.46	
<b>UB</b>	10.86	7.62		9.03	5.37	
<b>North Carolina</b>	8.27	5.00	0.61 (0.18 - 2.02)	6.82	3.77	0.55 (0.16 - 2.02)
<b>LB</b>	3.83	2.50		3.13	1.85	
<b>UB</b>	13.61	7.75		11.37	6.31	
<b>North Dakota</b>	6.24	3.53	0.57 (0.18 - 1.82)	4.29	2.21	0.52 (0.14 - 2.04)
<b>LB</b>	3.00	1.78		1.82	1.03	
<b>UB</b>	10.17	5.47		7.32	3.71	
<b>Ohio</b>	8.02	5.29	0.66 (0.2 - 2.07)	6.58	4.08	0.62 (0.18 - 2.23)
<b>LB</b>	4.06	2.61		3.05	1.97	
<b>UB</b>	12.75	8.41		10.78	6.80	
<b>Oklahoma</b>	9.98	6.89	0.69 (0.21 - 2.27)	7.19	4.67	0.65 (0.19 - 2.27)
<b>LB</b>	4.83	3.36		3.32	2.26	
<b>UB</b>	16.36	10.95		12.08	7.53	
<b>Oregon</b>	5.48	3.02	0.55 (0.16 - 1.81)	4.20	2.10	0.50 (0.13 - 1.83)
<b>LB</b>	2.65	1.40		1.83	0.96	
<b>UB</b>	8.77	4.79		7.33	3.35	
<b>Pennsylvania</b>	6.90	4.48	0.65 (0.2 - 2.21)	5.43	3.37	0.62 (0.17 - 2.35)
<b>LB</b>	3.24	2.20		2.36	1.56	
<b>UB</b>	10.96	7.16		9.21	5.54	
<b>Rhode Island</b>	6.53	4.52	0.69 (0.21 - 2.31)	5.37	3.21	0.60 (0.16 - 2.31)
<b>LB</b>	3.15	2.23		2.35	1.41	
<b>UB</b>	10.51	7.28		8.85	5.42	
<b>South Carolina</b>	8.77	5.24	0.60 (0.19 - 1.87)	6.87	3.87	0.56 (0.17 - 1.79)
<b>LB</b>	4.42	2.59		3.46	1.98	
<b>UB</b>	13.67	8.25		11.51	6.20	
<b>South Dakota</b>	6.73	3.85	0.57 (0.17 - 1.9)	5.87	2.75	0.47 (0.14 - 1.66)
<b>LB</b>	3.22	1.81		2.77	1.33	
<b>UB</b>	10.73	6.12		9.69	4.60	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	9.61	6.31	0.66 (0.21 - 2.09)	8.14	4.70	0.58 (0.16 - 1.98)
	4.55	3.24		3.76	2.21	
	15.13	9.50		13.79	7.43	
<b>Texas</b> <b>LB</b> <b>UB</b>	6.93	4.74	0.68 (0.21 - 2.25)	5.98	3.55	0.59 (0.16 - 2.08)
	3.37	2.34		2.75	1.65	
	10.90	7.58		10.08	5.73	
<b>Utah</b> <b>LB</b> <b>UB</b>	5.49	3.65	0.66 (0.2 - 2.2)	4.39	2.74	0.62 (0.17 - 2.34)
	2.67	1.75		1.95	1.26	
	8.72	5.87		7.29	4.57	
<b>Vermont</b> <b>LB</b> <b>UB</b>	5.88	3.41	0.58 (0.17 - 1.97)	5.17	2.78	0.54 (0.15 - 1.96)
	2.76	1.62		2.30	1.29	
	9.39	5.45		8.65	4.50	
<b>Virginia</b> <b>LB</b> <b>UB</b>	5.72	3.88	0.68 (0.2 - 2.26)	4.75	2.98	0.63 (0.17 - 2.29)
	2.73	1.86		2.20	1.32	
	9.13	6.16		7.74	5.04	
<b>Washington</b> <b>LB</b> <b>UB</b>	5.30	3.22	0.61 (0.17 - 2.2)	4.05	2.23	0.55 (0.16 - 2.18)
	2.36	1.52		1.70	1.07	
	8.77	5.19		6.62	3.71	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	10.35	6.87	0.66 (0.21 - 2.15)	8.47	5.67	0.67 (0.19 - 2.46)
	5.01	3.48		3.82	2.71	
	16.42	10.79		14.10	9.38	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	6.49	3.90	0.60 (0.19 - 1.87)	5.37	3.00	0.56 (0.17 - 1.94)
	3.20	1.94		2.55	1.54	
	10.43	5.99		9.08	4.94	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	5.92	3.43	0.58 (0.18 - 1.91)	4.63	2.50	0.54 (0.15 - 1.86)
	2.89	1.72		2.22	1.18	
	9.82	5.52		7.84	4.12	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	6.84	4.51	0.66 (0.22 - 1.97)	5.59	3.31	0.59 (0.19 - 1.83)
	3.46	2.27		2.77	1.69	
	10.41	6.83		8.67	5.08	

**Table S17. Age-standardised mortality rates for IHD attributable to Diet low in fruits. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	9.37	4.63	0.49 (0.06 - 4.52)	8.10	3.83	0.47 (0.05 - 4.18)
<b>LB</b>	1.83	0.97		1.69	0.79	
<b>UB</b>	16.08	8.28		15.19	7.06	
<b>Alaska</b>	4.51	1.97	0.44 (0.05 - 3.8)	3.55	1.57	0.44 (0.05 - 4.39)
<b>LB</b>	0.96	0.40		0.66	0.35	
<b>UB</b>	8.06	3.65		6.75	2.90	
<b>Arizona</b>	4.41	1.90	0.43 (0.05 - 4.13)	4.32	1.78	0.41 (0.04 - 3.96)
<b>LB</b>	0.88	0.38		0.90	0.35	
<b>UB</b>	8.03	3.63		8.16	3.56	
<b>Arkansas</b>	8.76	4.92	0.56 (0.06 - 4.98)	7.83	4.48	0.57 (0.06 - 4.76)
<b>LB</b>	1.75	0.99		1.70	0.93	
<b>UB</b>	15.50	8.72		14.65	8.09	
<b>California</b>	2.75	1.59	0.58 (0.07 - 5.71)	2.48	1.22	0.49 (0.05 - 4.87)
<b>LB</b>	0.56	0.33		0.52	0.22	
<b>UB</b>	4.91	3.20		4.78	2.53	
<b>Colorado</b>	3.51	1.47	0.42 (0.05 - 3.86)	2.87	1.12	0.39 (0.04 - 3.59)
<b>LB</b>	0.71	0.29		0.59	0.22	
<b>UB</b>	6.29	2.74		5.44	2.12	
<b>Connecticut</b>	2.98	1.51	0.50 (0.05 - 5.28)	2.67	1.34	0.50 (0.05 - 5.94)
<b>LB</b>	0.57	0.29		0.47	0.26	
<b>UB</b>	5.40	3.01		5.22	2.79	
<b>Delaware</b>	6.14	3.20	0.52 (0.06 - 4.69)	5.33	2.51	0.47 (0.05 - 4.38)
<b>LB</b>	1.24	0.63		1.10	0.52	
<b>UB</b>	10.90	5.81		10.00	4.82	
<b>District of Columbia</b>	4.00	2.00	0.50 (0.05 - 4.87)	3.67	1.67	0.46 (0.05 - 4.77)
<b>LB</b>	0.75	0.40		0.66	0.34	
<b>UB</b>	7.51	3.65		7.40	3.15	
<b>Florida</b>	3.81	2.28	0.60 (0.07 - 5.35)	3.66	1.99	0.54 (0.06 - 5.15)
<b>LB</b>	0.77	0.45		0.74	0.38	
<b>UB</b>	6.87	4.12		6.86	3.81	
<b>Georgia</b>	5.33	2.76	0.52 (0.06 - 4.66)	4.95	2.43	0.49 (0.05 - 4.59)
<b>LB</b>	1.05	0.55		1.01	0.46	
<b>UB</b>	9.52	4.89		8.83	4.64	
<b>Hawaii</b>	3.70	1.34	0.36 (0.04 - 3.51)	3.54	1.24	0.35 (0.04 - 3.51)
<b>LB</b>	0.71	0.27		0.67	0.28	
<b>UB</b>	6.65	2.49		6.50	2.35	
<b>Idaho</b>	5.34	2.45	0.46 (0.05 - 4.05)	4.62	2.05	0.44 (0.05 - 3.47)
<b>LB</b>	1.11	0.48		1.06	0.40	

<b>UB</b>	9.45	4.50		8.38	3.68	
<b>Illinois</b> <b>LB</b> <b>UB</b>	5.31	2.94	0.55 (0.06 - 5.01)	5.13	2.64	0.51 (0.05 - 4.86)
	1.09	0.57		1.00	0.53	
	9.52	5.46		10.06	4.86	
<b>Indiana</b> <b>LB</b> <b>UB</b>	6.65	3.21	0.48 (0.05 - 4.37)	5.92	2.83	0.48 (0.05 - 3.97)
	1.36	0.62		1.37	0.53	
	11.32	5.94		11.02	5.44	
<b>Iowa</b> <b>LB</b> <b>UB</b>	5.69	2.72	0.48 (0.05 - 4.53)	5.41	2.27	0.42 (0.05 - 3.9)
	1.06	0.54		1.13	0.47	
	10.06	4.80		10.13	4.41	
<b>Kansas</b> <b>LB</b> <b>UB</b>	6.20	2.99	0.48 (0.05 - 4.61)	6.07	2.77	0.46 (0.05 - 4.5)
	1.17	0.56		1.17	0.54	
	10.72	5.39		11.09	5.27	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	8.62	4.84	0.56 (0.07 - 4.73)	7.46	4.10	0.55 (0.06 - 5.09)
	1.80	0.98		1.50	0.82	
	14.93	8.52		13.63	7.64	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	7.38	3.87	0.52 (0.06 - 4.94)	6.98	3.44	0.49 (0.05 - 4.26)
	1.41	0.78		1.52	0.69	
	13.00	6.96		12.89	6.48	
<b>Maine</b> <b>LB</b> <b>UB</b>	3.48	1.61	0.46 (0.05 - 4.22)	3.41	1.53	0.45 (0.04 - 4.1)
	0.72	0.31		0.73	0.28	
	6.48	3.04		6.54	2.99	
<b>Maryland</b> <b>LB</b> <b>UB</b>	3.82	1.86	0.49 (0.06 - 4.42)	3.55	1.58	0.45 (0.06 - 4.29)
	0.79	0.39		0.72	0.37	
	6.91	3.49		6.46	3.09	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	3.15	1.62	0.51 (0.06 - 5.13)	2.42	1.20	0.49 (0.05 - 5.6)
	0.60	0.33		0.43	0.23	
	5.76	3.08		5.01	2.41	
<b>Michigan</b> <b>LB</b> <b>UB</b>	5.04	2.85	0.57 (0.07 - 5.12)	4.42	2.30	0.52 (0.05 - 5.09)
	1.03	0.59		0.86	0.45	
	8.98	5.27		8.22	4.38	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	4.02	1.47	0.37 (0.04 - 3.81)	3.55	1.36	0.38 (0.04 - 3.64)
	0.75	0.31		0.74	0.27	
	7.13	2.86		6.54	2.69	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	9.51	5.02	0.53 (0.06 - 5.04)	9.18	4.49	0.49 (0.06 - 4.12)
	1.80	1.06		1.97	0.99	
	16.79	9.07		16.23	8.11	
<b>Missouri</b> <b>LB</b> <b>UB</b>	6.19	3.69	0.60 (0.08 - 5.3)	5.53	2.98	0.54 (0.06 - 4.41)
	1.25	0.81		1.26	0.61	
	10.74	6.63		10.02	5.56	
<b>Montana</b> <b>LB</b> <b>UB</b>	4.57	1.99	0.44 (0.05 - 3.85)	4.39	1.85	0.42 (0.05 - 3.48)
	0.95	0.41		1.01	0.40	
	8.08	3.66		8.33	3.51	
<b>Nebraska</b>	3.54	2.02	0.57	3.31	1.83	0.55

<b>LB</b>	0.73	0.41	(0.07 - 5.16)	0.66	0.37	(0.06 - 5.09)	
	<b>UB</b>	6.27		3.77	6.40		3.36
<b>Nevada</b>	4.77	2.18	0.46 (0.05 - 4.2)	5.06	2.13	0.42 (0.05 - 3.75)	
	<b>LB</b>	0.96		0.46	1.09		0.47
	<b>UB</b>	8.68		4.03	9.39		4.09
<b>New Hampshire</b>	3.35	1.54	0.46 (0.05 - 4.16)	3.13	1.42	0.45 (0.05 - 4.7)	
	<b>LB</b>	0.68		0.31	0.60		0.29
	<b>UB</b>	6.06		2.83	5.97		2.82
<b>New Jersey</b>	3.99	2.25	0.56 (0.06 - 5.22)	3.31	1.69	0.51 (0.05 - 4.46)	
	<b>LB</b>	0.81		0.46	0.72		0.34
	<b>UB</b>	7.31		4.23	6.28		3.21
<b>New Mexico</b>	4.08	2.23	0.55 (0.06 - 5.15)	4.61	2.16	0.47 (0.05 - 4.58)	
	<b>LB</b>	0.81		0.45	0.90		0.44
	<b>UB</b>	7.13		4.17	8.43		4.12
<b>New York</b>	4.71	2.45	0.52 (0.06 - 4.77)	3.98	1.99	0.50 (0.06 - 4.64)	
	<b>LB</b>	0.97		0.49	0.85		0.42
	<b>UB</b>	8.49		4.63	7.62		3.94
<b>North Carolina</b>	6.38	3.00	0.47 (0.05 - 4.35)	5.47	2.49	0.45 (0.05 - 4.31)	
	<b>LB</b>	1.23		0.60	1.08		0.50
	<b>UB</b>	11.01		5.35	10.23		4.65
<b>North Dakota</b>	4.92	2.03	0.41 (0.05 - 4.03)	3.82	1.47	0.38 (0.04 - 3.39)	
	<b>LB</b>	0.92		0.45	0.80		0.30
	<b>UB</b>	8.60		3.71	7.16		2.71
<b>Ohio</b>	5.27	3.29	0.62 (0.07 - 5.83)	4.75	2.82	0.59 (0.06 - 5.59)	
	<b>LB</b>	1.03		0.65	0.95		0.58
	<b>UB</b>	9.22		6.00	9.06		5.31
<b>Oklahoma</b>	9.29	4.96	0.53 (0.06 - 4.67)	6.97	3.63	0.52 (0.06 - 4.51)	
	<b>LB</b>	1.87		1.01	1.47		0.74
	<b>UB</b>	15.94		8.74	12.89		6.63
<b>Oregon</b>	3.68	1.51	0.41 (0.05 - 3.47)	3.20	1.21	0.38 (0.04 - 3.48)	
	<b>LB</b>	0.77		0.30	0.67		0.23
	<b>UB</b>	6.33		2.67	6.03		2.33
<b>Pennsylvania</b>	4.44	2.34	0.53 (0.06 - 4.99)	3.81	1.95	0.51 (0.06 - 4.67)	
	<b>LB</b>	0.84		0.51	0.78		0.42
	<b>UB</b>	7.92		4.19	7.46		3.64
<b>Rhode Island</b>	6.12	2.62	0.43 (0.05 - 3.94)	5.12	1.94	0.38 (0.04 - 3.41)	
	<b>LB</b>	1.22		0.51	1.09		0.41
	<b>UB</b>	10.71		4.81	9.75		3.72
<b>South Carolina</b>	6.01	3.01	0.50 (0.06 - 4.75)	5.14	2.47	0.48 (0.06 - 4.68)	
	<b>LB</b>	1.15		0.63	1.02		0.54
	<b>UB</b>	10.33		5.46	9.55		4.77
<b>South Dakota</b>	5.48	2.69	0.49 (0.06 - 4.29)	5.38	2.15	0.40 (0.05 - 3.77)	
	<b>LB</b>	1.13		0.54	1.07		0.46
	<b>UB</b>	9.71		4.85	9.65		4.03

<b>Tennessee</b> <b>LB</b> <b>UB</b>	6.97	3.49	0.50 (0.06 - 4.96)	6.77	3.09	0.46 (0.05 - 4.09)
	1.31	0.69		1.41	0.65	
	12.49	6.50		12.93	5.77	
<b>Texas</b> <b>LB</b> <b>UB</b>	4.72	2.77	0.59 (0.06 - 5.08)	4.59	2.33	0.51 (0.06 - 4.26)
	0.97	0.53		1.01	0.53	
	8.37	4.93		8.68	4.30	
<b>Utah</b> <b>LB</b> <b>UB</b>	3.63	1.68	0.46 (0.05 - 4.19)	3.26	1.55	0.47 (0.05 - 4.3)
	0.77	0.36		0.71	0.33	
	6.64	3.23		6.16	3.05	
<b>Vermont</b> <b>LB</b> <b>UB</b>	4.65	1.81	0.39 (0.04 - 3.53)	4.44	1.76	0.40 (0.04 - 3.61)
	0.93	0.35		0.93	0.32	
	8.30	3.28		8.34	3.36	
<b>Virginia</b> <b>LB</b> <b>UB</b>	4.39	2.51	0.57 (0.06 - 5.83)	4.10	2.20	0.54 (0.06 - 4.69)
	0.81	0.47		0.87	0.46	
	7.87	4.72		7.58	4.08	
<b>Washington</b> <b>LB</b> <b>UB</b>	4.16	1.86	0.45 (0.05 - 4.09)	3.39	1.45	0.43 (0.05 - 4.28)
	0.82	0.38		0.67	0.33	
	7.66	3.35		6.28	2.87	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	6.89	3.23	0.47 (0.05 - 4.23)	6.34	3.11	0.49 (0.06 - 4.61)
	1.41	0.62		1.30	0.68	
	12.00	5.96		12.00	5.99	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	4.35	2.19	0.50 (0.06 - 4.66)	3.97	1.95	0.49 (0.06 - 4.24)
	0.87	0.44		0.85	0.43	
	7.80	4.05		7.49	3.60	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	4.23	1.77	0.42 (0.05 - 3.81)	3.97	1.59	0.40 (0.04 - 3.64)
	0.86	0.35		0.86	0.32	
	7.57	3.28		7.60	3.13	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	4.81	2.55	0.53 (0.06 - 4.94)	4.33	2.14	0.49 (0.06 - 4.34)
	0.94	0.51		0.89	0.44	
	8.35	4.64		7.72	3.86	

**Table S18. Age-standardised mortality rates for IHD attributable to Diet low in legumes. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	8.86	4.73	0.53	7.78	3.89	0.50
<b>LB</b>	-7.47	-3.69		-6.07	-2.95	
<b>UB</b>	23.29	12.39		20.68	10.17	
<b>Alaska</b>	5.85	2.43	0.42	4.85	1.86	0.38
<b>LB</b>	-4.81	-1.88		-4.07	-1.54	
<b>UB</b>	15.44	6.50		12.94	5.02	
<b>Arizona</b>	6.29	3.21	0.51	5.71	2.64	0.46
<b>LB</b>	-5.12	-2.45		-4.31	-2.13	
<b>UB</b>	16.51	8.56		15.36	6.94	
<b>Arkansas</b>	9.69	4.95	0.51	9.06	4.66	0.51
<b>LB</b>	-8.07	-3.89		-7.46	-3.84	
<b>UB</b>	24.77	13.20		23.51	12.67	
<b>California</b>	5.78	3.01	0.52	4.92	2.26	0.46
<b>LB</b>	-4.72	-2.41		-4.07	-1.79	
<b>UB</b>	15.45	8.14		13.27	6.04	
<b>Colorado</b>	4.96	2.44	0.49	4.18	1.86	0.45
<b>LB</b>	-4.07	-1.88		-3.34	-1.37	
<b>UB</b>	13.19	6.65		11.29	4.88	
<b>Connecticut</b>	5.00	2.53	0.50	4.34	2.13	0.49
<b>LB</b>	-3.98	-1.93		-3.66	-1.60	
<b>UB</b>	13.35	6.98		11.47	5.66	
<b>Delaware</b>	6.53	3.52	0.54	5.68	2.77	0.49
<b>LB</b>	-5.28	-2.77		-4.68	-2.21	
<b>UB</b>	16.96	9.36		14.95	7.46	
<b>District of Columbia</b>	6.30	3.49	0.55	5.42	2.74	0.51
<b>LB</b>	-5.06	-2.83		-4.30	-2.07	
<b>UB</b>	16.18	9.59		14.16	7.43	
<b>Florida</b>	6.18	3.19	0.52	5.66	2.69	0.47
<b>LB</b>	-5.12	-2.52		-4.44	-1.97	
<b>UB</b>	16.26	8.60		15.29	7.13	
<b>Georgia</b>	6.93	3.67	0.53	6.23	3.09	0.50
<b>LB</b>	-5.68	-2.94		-4.99	-2.25	
<b>UB</b>	18.46	9.66		15.71	8.27	
<b>Hawaii</b>	5.02	2.02	0.40	4.35	1.65	0.38
<b>LB</b>	-3.98	-1.60		-3.42	-1.30	
<b>UB</b>	13.02	5.37		11.47	4.50	
<b>Idaho</b>	6.27	2.90	0.46	5.27	2.37	0.45
<b>LB</b>	-5.16	-2.24		-4.17	-1.83	

<b>UB</b>	16.31	7.75		14.17	6.50	
<b>Illinois</b> <b>LB</b> <b>UB</b>	6.65	3.38	0.51	5.68	2.73	0.48
	-5.43	-2.69		-4.27	-2.10	
	17.58	9.13		15.47	7.54	
<b>Indiana</b> <b>LB</b> <b>UB</b>	7.84	3.93	0.50	6.87	3.38	0.49
	-6.61	-3.11		-5.56	-2.64	
	20.71	10.47		18.33	9.02	
<b>Iowa</b> <b>LB</b> <b>UB</b>	6.98	3.46	0.50	6.57	2.90	0.44
	-5.64	-2.80		-5.11	-2.26	
	18.51	9.15		17.73	7.67	
<b>Kansas</b> <b>LB</b> <b>UB</b>	6.52	3.23	0.50	6.50	3.05	0.47
	-5.25	-2.67		-5.27	-2.47	
	17.03	8.75		17.42	8.22	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	8.90	4.44	0.50	7.86	3.94	0.50
	-7.39	-3.64		-6.87	-3.05	
	23.25	11.85		21.26	10.61	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	8.36	4.53	0.54	7.82	4.01	0.51
	-6.85	-3.58		-6.18	-3.26	
	21.99	12.06		21.15	11.02	
<b>Maine</b> <b>LB</b> <b>UB</b>	5.83	2.85	0.49	5.41	2.48	0.46
	-4.89	-2.23		-4.37	-1.82	
	15.31	7.75		14.32	6.52	
<b>Maryland</b> <b>LB</b> <b>UB</b>	6.04	3.33	0.55	5.15	2.66	0.52
	-5.00	-2.59		-4.26	-2.11	
	15.59	9.02		13.23	7.20	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	5.49	2.58	0.47	4.13	1.88	0.46
	-4.40	-2.10		-3.38	-1.59	
	14.56	6.98		11.41	5.28	
<b>Michigan</b> <b>LB</b> <b>UB</b>	8.11	4.26	0.53	6.87	3.39	0.49
	-6.74	-3.50		-5.23	-2.74	
	21.43	11.32		18.43	9.53	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	4.75	1.98	0.42	4.26	1.83	0.43
	-4.02	-1.60		-3.38	-1.43	
	12.40	5.33		11.36	4.95	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	9.51	4.98	0.52	9.18	4.42	0.48
	-8.25	-4.15		-8.04	-3.84	
	24.77	13.16		24.05	11.66	
<b>Missouri</b> <b>LB</b> <b>UB</b>	8.15	4.29	0.53	7.24	3.49	0.48
	-6.61	-3.50		-5.62	-2.67	
	21.60	11.49		19.23	9.33	
<b>Montana</b> <b>LB</b> <b>UB</b>	6.21	2.75	0.44	5.74	2.49	0.43
	-5.18	-2.18		-4.82	-2.01	
	15.91	7.27		15.52	6.71	
<b>Nebraska</b>	5.71	2.64	0.46	5.26	2.36	0.45

<b>LB</b>	-4.76	-2.14		-4.20	-1.85	
<b>UB</b>	14.90	6.97		14.24	6.57	
<b>Nevada</b>	6.96	3.61	0.52	6.85	3.12	0.46
<b>LB</b>	-5.51	-2.90		-5.77	-2.55	
<b>UB</b>	18.21	9.77		18.55	8.49	
<b>New Hampshire</b>	5.52	2.66	0.48	4.92	2.35	0.48
<b>LB</b>	-4.48	-2.16		-3.79	-1.77	
<b>UB</b>	14.41	7.25		12.89	6.39	
<b>New Jersey</b>	6.17	3.32	0.54	4.97	2.49	0.50
<b>LB</b>	-5.04	-2.60		-4.20	-1.89	
<b>UB</b>	16.28	8.75		12.93	6.74	
<b>New Mexico</b>	6.08	3.20	0.53	6.57	3.00	0.46
<b>LB</b>	-5.01	-2.60		-5.32	-2.48	
<b>UB</b>	15.72	8.42		17.25	7.92	
<b>New York</b>	6.98	3.92	0.56	5.89	2.99	0.51
<b>LB</b>	-5.62	-2.99		-4.75	-2.27	
<b>UB</b>	18.63	10.67		15.21	8.19	
<b>North Carolina</b>	7.02	3.52	0.50	6.06	2.90	0.48
<b>LB</b>	-5.70	-2.90		-4.98	-2.29	
<b>UB</b>	19.10	9.38		16.03	7.80	
<b>North Dakota</b>	6.27	2.72	0.43	4.93	2.02	0.41
<b>LB</b>	-4.91	-2.23		-4.13	-1.57	
<b>UB</b>	16.70	7.19		13.45	5.53	
<b>Ohio</b>	7.69	4.01	0.52	6.81	3.44	0.51
<b>LB</b>	-6.38	-3.18		-5.67	-2.61	
<b>UB</b>	20.39	10.66		17.67	9.24	
<b>Oklahoma</b>	9.56	5.23	0.55	7.43	3.97	0.53
<b>LB</b>	-7.75	-4.15		-6.01	-3.04	
<b>UB</b>	25.04	14.01		19.20	10.16	
<b>Oregon</b>	5.25	2.28	0.43	4.35	1.77	0.41
<b>LB</b>	-4.24	-1.82		-3.42	-1.36	
<b>UB</b>	13.96	6.06		12.53	4.71	
<b>Pennsylvania</b>	6.97	3.52	0.50	5.88	2.95	0.50
<b>LB</b>	-5.79	-2.77		-4.35	-2.33	
<b>UB</b>	18.31	9.58		15.74	8.00	
<b>Rhode Island</b>	6.58	3.55	0.54	5.70	2.78	0.49
<b>LB</b>	-5.21	-2.84		-4.37	-2.20	
<b>UB</b>	17.39	9.59		15.65	7.49	
<b>South Carolina</b>	8.04	3.82	0.48	6.74	3.13	0.46
<b>LB</b>	-6.65	-3.24		-5.48	-2.42	
<b>UB</b>	20.08	10.16		17.40	8.10	
<b>South Dakota</b>	6.62	2.95	0.45	6.26	2.38	0.38
<b>LB</b>	-5.46	-2.39		-4.88	-1.98	
<b>UB</b>	17.22	7.95		16.20	6.25	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	9.17	4.74	0.52	8.37	3.95	0.47
	-7.08	-3.73		-6.93	-3.49	
	23.75	12.47		22.27	10.02	
<b>Texas</b> <b>LB</b> <b>UB</b>	6.82	3.65	0.53	6.33	3.09	0.49
	-5.46	-2.91		-5.25	-2.40	
	17.65	9.55		17.50	8.11	
<b>Utah</b> <b>LB</b> <b>UB</b>	5.31	2.92	0.55	4.51	2.45	0.54
	-4.20	-2.26		-3.54	-1.96	
	13.85	7.83		12.14	6.79	
<b>Vermont</b> <b>LB</b> <b>UB</b>	5.82	2.64	0.45	5.49	2.40	0.44
	-4.79	-2.10		-4.77	-1.94	
	14.99	7.17		15.06	6.79	
<b>Virginia</b> <b>LB</b> <b>UB</b>	5.97	3.13	0.52	5.18	2.66	0.51
	-4.78	-2.56		-4.47	-2.06	
	15.69	8.28		13.53	7.10	
<b>Washington</b> <b>LB</b> <b>UB</b>	5.39	2.56	0.48	4.48	2.00	0.45
	-4.34	-2.03		-3.46	-1.63	
	13.99	7.01		11.78	5.56	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	9.27	4.98	0.54	8.09	4.53	0.56
	-7.80	-4.09		-6.55	-4.01	
	24.30	13.11		21.44	11.79	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	6.34	2.99	0.47	5.60	2.55	0.46
	-5.10	-2.51		-4.49	-2.17	
	16.61	8.03		15.07	6.76	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	6.18	2.77	0.45	5.28	2.26	0.43
	-4.95	-2.32		-4.30	-1.78	
	16.10	7.31		14.02	5.97	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	6.75	3.48	0.52	5.89	2.85	0.48
	-5.53	-2.82		-4.81	-2.31	
	17.84	9.38		15.60	7.62	

The 95% uncertainty intervals for the ratio were not reported due to model instability and lack of reliable estimation.

**Table S19. Age-standardised mortality rates for IHD attributable to Diet low in nuts and seeds. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	2.89	1.78	0.62 (0.08 - 4.64)	2.74	1.47	0.54 (0.06 - 4.07)
<b>LB</b>	0.76	0.40		0.73	0.31	
<b>UB</b>	5.26	3.53		5.29	2.97	
<b>Alaska</b>	1.41	0.70	0.49 (0.06 - 4.82)	1.27	0.52	0.41 (0.04 - 3.77)
<b>LB</b>	0.33	0.16		0.30	0.12	
<b>UB</b>	2.90	1.59		2.68	1.13	
<b>Arizona</b>	2.04	1.25	0.61 (0.07 - 5.29)	2.03	1.03	0.51 (0.06 - 3.87)
<b>LB</b>	0.51	0.26		0.55	0.25	
<b>UB</b>	4.00	2.70		4.00	2.13	
<b>Arkansas</b>	3.30	1.94	0.59 (0.08 - 4.62)	3.16	1.73	0.55 (0.07 - 4.2)
<b>LB</b>	0.89	0.53		0.87	0.43	
<b>UB</b>	6.63	4.11		6.27	3.65	
<b>California</b>	1.44	0.90	0.63 (0.06 - 5.94)	1.25	0.65	0.52 (0.05 - 4.97)
<b>LB</b>	0.34	0.18		0.30	0.13	
<b>UB</b>	2.84	2.02		2.76	1.49	
<b>Colorado</b>	1.41	0.82	0.58 (0.07 - 4.89)	1.22	0.61	0.50 (0.04 - 4.55)
<b>LB</b>	0.36	0.21		0.29	0.11	
<b>UB</b>	2.97	1.76		2.52	1.32	
<b>Connecticut</b>	0.97	0.59	0.61 (0.05 - 6.9)	0.97	0.54	0.55 (0.04 - 7.15)
<b>LB</b>	0.20	0.12		0.20	0.09	
<b>UB</b>	2.29	1.38		2.27	1.43	
<b>Delaware</b>	1.77	1.13	0.64 (0.07 - 6.46)	1.74	0.95	0.55 (0.06 - 5.16)
<b>LB</b>	0.39	0.27		0.38	0.24	
<b>UB</b>	3.65	2.52		3.72	1.96	
<b>District of Columbia</b>	0.99	0.65	0.66 (0.06 - 6.96)	0.81	0.45	0.56 (0.04 - 6.44)
<b>LB</b>	0.23	0.13		0.18	0.08	
<b>UB</b>	2.14	1.60		1.90	1.16	
<b>Florida</b>	1.81	1.09	0.60 (0.07 - 5.33)	1.79	0.92	0.52 (0.05 - 4.7)
<b>LB</b>	0.46	0.25		0.43	0.19	
<b>UB</b>	3.66	2.45		3.63	2.02	
<b>Georgia</b>	2.14	1.32	0.62 (0.07 - 4.96)	2.09	1.11	0.53 (0.06 - 4.29)
<b>LB</b>	0.57	0.28		0.55	0.24	
<b>UB</b>	4.15	2.83		4.05	2.36	
<b>Hawaii</b>	1.34	0.64	0.48 (0.05 - 3.86)	1.21	0.51	0.43 (0.04 - 3.27)
<b>LB</b>	0.36	0.14		0.33	0.11	
<b>UB</b>	2.70	1.39		2.53	1.08	
<b>Idaho</b>	2.23	1.21	0.54 (0.07 - 4.24)	2.03	0.98	0.48 (0.06 - 3.9)
<b>LB</b>	0.59	0.29		0.51	0.25	

<b>UB</b>	4.44	2.50		4.09	1.99		
<b>Illinois</b>	1.75	1.03	0.59 (0.07 - 4.83)	1.62	0.83	0.51 (0.06 - 4.26)	
	<b>LB</b>	0.46		0.24	0.39		0.20
	<b>UB</b>	3.45		2.22	3.15		1.66
<b>Indiana</b>	2.45	1.41	0.58 (0.07 - 4.79)	2.32	1.21	0.52 (0.06 - 4.03)	
	<b>LB</b>	0.61		0.37	0.61		0.29
	<b>UB</b>	4.95		2.92	4.65		2.46
<b>Iowa</b>	2.15	1.22	0.57 (0.07 - 4.53)	2.13	0.99	0.47 (0.05 - 4.18)	
	<b>LB</b>	0.60		0.30	0.51		0.23
	<b>UB</b>	4.28		2.72	4.30		2.13
<b>Kansas</b>	1.90	1.09	0.58 (0.07 - 4.89)	2.01	1.02	0.51 (0.05 - 4.51)	
	<b>LB</b>	0.47		0.26	0.49		0.23
	<b>UB</b>	3.71		2.30	4.40		2.21
<b>Kentucky</b>	2.91	1.66	0.57 (0.07 - 4.55)	2.77	1.45	0.52 (0.06 - 3.67)	
	<b>LB</b>	0.76		0.40	0.79		0.32
	<b>UB</b>	5.72		3.46	5.54		2.90
<b>Louisiana</b>	2.53	1.59	0.63 (0.08 - 5.52)	2.51	1.37	0.55 (0.07 - 5.24)	
	<b>LB</b>	0.60		0.40	0.54		0.34
	<b>UB</b>	5.03		3.31	5.16		2.83
<b>Maine</b>	1.83	1.07	0.58 (0.07 - 4.88)	1.86	0.94	0.51 (0.05 - 4.14)	
	<b>LB</b>	0.49		0.27	0.49		0.21
	<b>UB</b>	3.68		2.39	3.93		2.03
<b>Maryland</b>	1.37	0.87	0.64 (0.07 - 5.61)	1.29	0.72	0.56 (0.05 - 4.69)	
	<b>LB</b>	0.36		0.18	0.35		0.14
	<b>UB</b>	2.76		2.02	2.74		1.64
<b>Massachusetts</b>	1.23	0.70	0.57 (0.06 - 5.26)	1.01	0.50	0.50 (0.04 - 4.81)	
	<b>LB</b>	0.31		0.16	0.26		0.10
	<b>UB</b>	2.60		1.63	2.27		1.25
<b>Michigan</b>	2.49	1.51	0.60 (0.08 - 4.95)	2.23	1.19	0.53 (0.06 - 4.71)	
	<b>LB</b>	0.66		0.40	0.56		0.27
	<b>UB</b>	5.04		3.27	4.58		2.64
<b>Minnesota</b>	1.33	0.65	0.49 (0.06 - 4.41)	1.32	0.60	0.45 (0.05 - 4.22)	
	<b>LB</b>	0.34		0.16	0.32		0.13
	<b>UB</b>	2.67		1.50	2.84		1.35
<b>Mississippi</b>	3.31	2.02	0.61 (0.07 - 4.46)	3.50	1.74	0.50 (0.07 - 3.94)	
	<b>LB</b>	0.93		0.46	0.87		0.46
	<b>UB</b>	6.21		4.15	6.77		3.43
<b>Missouri</b>	2.42	1.47	0.61 (0.08 - 4.8)	2.36	1.22	0.52 (0.06 - 4.32)	
	<b>LB</b>	0.64		0.38	0.59		0.27
	<b>UB</b>	4.72		3.07	4.80		2.55
<b>Montana</b>	2.02	1.04	0.51 (0.06 - 4.22)	1.86	0.91	0.49 (0.05 - 3.83)	
	<b>LB</b>	0.54		0.25	0.52		0.20
	<b>UB</b>	4.20		2.28	4.07		1.99
<b>Nebraska</b>	1.71	0.94	0.55	1.63	0.80	0.49	

<b>LB</b>	0.49	0.21	(0.06 - 4.29)	0.39	0.17	(0.05 - 4.62)
<b>UB</b>	3.40	2.10		3.33	1.80	
<b>Nevada</b>	2.01	1.21	0.60 (0.08 - 5.2)	2.23	1.13	0.51 (0.06 - 4.39)
<b>LB</b>	0.49	0.30		0.54	0.28	
<b>UB</b>	3.81	2.55		4.61	2.37	
<b>New Hampshire</b>	1.44	0.80	0.56 (0.06 - 5.55)	1.41	0.75	0.53 (0.05 - 6.77)
<b>LB</b>	0.33	0.17		0.26	0.16	
<b>UB</b>	3.07	1.83		3.10	1.76	
<b>New Jersey</b>	1.42	0.89	0.63 (0.06 - 6.33)	1.28	0.70	0.54 (0.05 - 4.91)
<b>LB</b>	0.33	0.19		0.32	0.14	
<b>UB</b>	3.04	2.09		2.83	1.57	
<b>New Mexico</b>	2.11	1.30	0.61 (0.08 - 5.09)	2.42	1.23	0.51 (0.06 - 4.13)
<b>LB</b>	0.55	0.33		0.64	0.28	
<b>UB</b>	4.34	2.80		4.94	2.64	
<b>New York</b>	1.71	1.10	0.64 (0.06 - 5.67)	1.47	0.80	0.54 (0.05 - 5.03)
<b>LB</b>	0.43	0.23		0.36	0.15	
<b>UB</b>	3.65	2.44		3.13	1.81	
<b>North Carolina</b>	2.12	1.25	0.59 (0.07 - 5.15)	2.03	1.04	0.51 (0.06 - 3.94)
<b>LB</b>	0.53	0.30		0.54	0.23	
<b>UB</b>	4.09	2.73		4.05	2.13	
<b>North Dakota</b>	1.75	0.93	0.53 (0.07 - 4.86)	1.28	0.58	0.45 (0.05 - 4.19)
<b>LB</b>	0.43	0.24		0.31	0.13	
<b>UB</b>	3.54	2.09		2.69	1.30	
<b>Ohio</b>	2.34	1.41	0.60 (0.08 - 5.03)	2.17	1.19	0.55 (0.07 - 4.63)
<b>LB</b>	0.58	0.36		0.52	0.29	
<b>UB</b>	4.65	2.92		4.32	2.41	
<b>Oklahoma</b>	2.92	1.83	0.63 (0.07 - 5.08)	2.37	1.34	0.57 (0.07 - 4.58)
<b>LB</b>	0.77	0.43		0.59	0.33	
<b>UB</b>	5.86	3.91		4.95	2.70	
<b>Oregon</b>	1.66	0.84	0.51 (0.06 - 3.93)	1.40	0.62	0.45 (0.05 - 3.57)
<b>LB</b>	0.45	0.20		0.37	0.15	
<b>UB</b>	3.30	1.77		2.96	1.32	
<b>Pennsylvania</b>	1.93	1.13	0.59 (0.06 - 5.53)	1.72	0.94	0.54 (0.06 - 5.2)
<b>LB</b>	0.45	0.24		0.40	0.19	
<b>UB</b>	3.85	2.49		3.40	2.08	
<b>Rhode Island</b>	1.86	1.19	0.64 (0.07 - 5.93)	1.82	0.94	0.52 (0.05 - 5.05)
<b>LB</b>	0.43	0.27		0.41	0.20	
<b>UB</b>	3.69	2.55		3.84	2.07	
<b>South Carolina</b>	2.64	1.48	0.56 (0.07 - 4.31)	2.36	1.19	0.50 (0.07 - 3.85)
<b>LB</b>	0.71	0.37		0.62	0.31	
<b>UB</b>	5.14	3.06		4.73	2.39	
<b>South Dakota</b>	1.93	1.02	0.53 (0.06 - 5.08)	1.84	0.77	0.42 (0.05 - 4.41)
<b>LB</b>	0.49	0.25		0.39	0.17	
<b>UB</b>	3.99	2.49		3.69	1.72	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	2.80	1.69	0.60 (0.07 - 4.34)	2.65	1.37	0.52 (0.06 - 3.96)
	0.83	0.38		0.73	0.33	
	5.48	3.60		5.32	2.89	
<b>Texas</b> <b>LB</b> <b>UB</b>	1.95	1.22	0.63 (0.07 - 4.73)	1.88	0.99	0.53 (0.06 - 4.6)
	0.56	0.26		0.47	0.23	
	3.80	2.65		3.89	2.16	
<b>Utah</b> <b>LB</b> <b>UB</b>	1.98	1.29	0.65 (0.08 - 5.41)	1.81	1.04	0.58 (0.07 - 4.84)
	0.49	0.32		0.45	0.24	
	3.92	2.65		3.50	2.18	
<b>Vermont</b> <b>LB</b> <b>UB</b>	1.72	0.94	0.54 (0.06 - 4.7)	1.70	0.80	0.47 (0.05 - 3.66)
	0.44	0.20		0.47	0.16	
	3.46	2.07		3.53	1.72	
<b>Virginia</b> <b>LB</b> <b>UB</b>	1.51	0.91	0.61 (0.08 - 5.74)	1.42	0.78	0.55 (0.06 - 5.06)
	0.35	0.24		0.35	0.17	
	3.06	2.01		3.02	1.77	
<b>Washington</b> <b>LB</b> <b>UB</b>	1.46	0.82	0.57 (0.06 - 5.58)	1.25	0.62	0.49 (0.05 - 4.69)
	0.33	0.18		0.29	0.14	
	3.05	1.84		2.61	1.36	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	3.27	2.01	0.62 (0.07 - 4.67)	3.00	1.81	0.60 (0.08 - 4.58)
	0.87	0.49		0.80	0.48	
	6.65	4.06		5.98	3.66	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	1.89	1.03	0.55 (0.07 - 4.17)	1.84	0.89	0.48 (0.06 - 3.71)
	0.53	0.26		0.52	0.21	
	3.82	2.21		3.59	1.93	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	1.55	0.83	0.53 (0.07 - 4.92)	1.36	0.66	0.48 (0.05 - 4.97)
	0.37	0.22		0.30	0.15	
	3.27	1.82		2.99	1.49	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	1.92	1.15	0.60 (0.09 - 4.3)	1.79	0.93	0.52 (0.07 - 3.83)
	0.53	0.30		0.47	0.23	
	3.48	2.28		3.30	1.80	

**Table S20. Age-standardised mortality rates for IHD attributable to Diet low in omega-6 polyunsaturated fatty acids. 2011, 2021.**

States	2011			2021			
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio	
<b>Alabama</b>	2.28	1.32	0.58	1.84	0.98	0.53	
	<b>LB</b>	-4.52		-2.45	-3.39		-1.91
	<b>UB</b>	9.14		5.34	7.98		4.09
<b>Alaska</b>	1.02	0.59	0.58	0.76	0.43	0.56	
	<b>LB</b>	-1.91		-1.24	-1.54		-0.91
	<b>UB</b>	4.29		2.43	3.25		1.88
<b>Arizona</b>	1.57	0.87	0.55	1.32	0.66	0.50	
	<b>LB</b>	-2.95		-1.74	-2.38		-1.24
	<b>UB</b>	6.45		3.76	5.38		2.90
<b>Arkansas</b>	2.55	1.44	0.57	2.02	1.15	0.57	
	<b>LB</b>	-5.39		-2.86	-4.62		-2.53
	<b>UB</b>	10.25		5.85	8.96		4.74
<b>California</b>	1.05	0.60	0.57	0.72	0.37	0.51	
	<b>LB</b>	-2.07		-1.19	-1.29		-0.84
	<b>UB</b>	4.42		2.69	3.21		1.71
<b>Colorado</b>	0.99	0.53	0.54	0.68	0.34	0.51	
	<b>LB</b>	-1.82		-1.08	-1.26		-0.64
	<b>UB</b>	3.95		2.22	2.86		1.54
<b>Connecticut</b>	0.67	0.37	0.56	0.54	0.30	0.55	
	<b>LB</b>	-1.27		-0.79	-1.01		-0.60
	<b>UB</b>	3.07		1.71	2.32		1.31
<b>Delaware</b>	1.26	0.75	0.60	1.06	0.58	0.55	
	<b>LB</b>	-2.30		-1.60	-2.01		-1.22
	<b>UB</b>	5.28		3.21	4.68		2.53
<b>District of Columbia</b>	0.76	0.45	0.60	0.50	0.27	0.54	
	<b>LB</b>	-1.38		-0.78	-0.90		-0.47
	<b>UB</b>	3.05		1.88	2.13		1.08
<b>Florida</b>	1.31	0.75	0.57	1.10	0.57	0.52	
	<b>LB</b>	-2.69		-1.42	-2.13		-1.10
	<b>UB</b>	5.62		3.11	4.68		2.34
<b>Georgia</b>	1.65	0.94	0.57	1.34	0.72	0.54	
	<b>LB</b>	-2.99		-1.86	-2.49		-1.47
	<b>UB</b>	6.88		4.01	5.59		3.22
<b>Hawaii</b>	1.01	0.43	0.43	0.75	0.32	0.42	
	<b>LB</b>	-1.79		-0.86	-1.53		-0.65
	<b>UB</b>	4.06		1.94	3.19		1.38
<b>Idaho</b>	1.69	0.85	0.50	1.28	0.62	0.48	
	<b>LB</b>	-3.38		-1.65	-2.40		-1.30

<b>UB</b>	7.01	3.61		5.50	2.54	
<b>Illinois</b> <b>LB</b> <b>UB</b>	1.28	0.71	0.55	0.95	0.51	0.53
	-2.44	-1.44		-1.87	-0.97	
	5.62	3.04		4.19	2.23	
<b>Indiana</b> <b>LB</b> <b>UB</b>	1.87	0.99	0.53	1.45	0.76	0.52
	-3.59	-1.79		-2.87	-1.62	
	7.87	4.15		6.06	3.30	
<b>Iowa</b> <b>LB</b> <b>UB</b>	1.58	0.85	0.54	1.30	0.62	0.48
	-2.95	-1.93		-2.34	-1.35	
	6.38	3.56		5.46	2.79	
<b>Kansas</b> <b>LB</b> <b>UB</b>	1.42	0.74	0.52	1.25	0.62	0.50
	-2.82	-1.55		-2.46	-1.40	
	5.86	3.15		5.27	2.83	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	2.35	1.23	0.52	1.86	0.98	0.53
	-4.26	-2.59		-3.62	-2.02	
	9.34	4.93		7.79	4.06	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	1.99	1.14	0.57	1.62	0.87	0.54
	-3.61	-2.22		-2.87	-1.81	
	7.48	4.73		6.98	3.55	
<b>Maine</b> <b>LB</b> <b>UB</b>	1.37	0.71	0.52	1.15	0.57	0.49
	-2.37	-1.54		-2.29	-1.19	
	5.79	3.12		4.95	2.49	
<b>Maryland</b> <b>LB</b> <b>UB</b>	0.99	0.58	0.59	0.75	0.42	0.55
	-1.82	-1.06		-1.50	-0.86	
	4.19	2.46		3.33	1.83	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	1.93	0.72	0.37	1.24	0.46	0.37
	-4.38	-1.52		-2.90	-1.02	
	7.60	2.95		4.94	1.84	
<b>Michigan</b> <b>LB</b> <b>UB</b>	1.87	1.08	0.57	1.37	0.75	0.55
	-3.64	-1.98		-2.60	-1.42	
	7.57	4.62		5.64	3.34	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	0.93	0.42	0.45	0.75	0.35	0.46
	-1.71	-0.82		-1.42	-0.75	
	4.01	1.81		3.27	1.54	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	2.70	1.51	0.56	2.36	1.21	0.51
	-4.84	-3.16		-4.26	-2.35	
	11.51	6.19		9.68	5.07	
<b>Missouri</b> <b>LB</b> <b>UB</b>	1.86	1.06	0.57	1.52	0.79	0.52
	-3.27	-1.87		-2.80	-1.51	
	7.77	4.45		6.64	3.46	
<b>Montana</b> <b>LB</b> <b>UB</b>	1.53	0.73	0.47	1.17	0.57	0.48
	-2.91	-1.41		-2.56	-1.14	
	6.26	3.14		4.85	2.51	
<b>Nebraska</b>	1.21	0.62	0.51	0.95	0.49	0.51

<b>LB</b>	-2.48	-1.30		-1.83	-0.91		
	<b>UB</b>	4.99		2.67	4.18		2.07
<b>Nevada</b>	<b>LB</b>	1.48	0.57	1.44	0.71	0.50	
	<b>LB</b>	-2.93		-1.70	-2.62		-1.50
	<b>UB</b>	6.33		3.71	6.38		3.09
<b>New Hampshire</b>	<b>LB</b>	1.00	0.53	0.80	0.44	0.54	
	<b>LB</b>	-1.94		-1.07	-1.52		-0.84
	<b>UB</b>	4.09		2.24	3.45		1.97
<b>New Jersey</b>	<b>LB</b>	0.96	0.59	0.69	0.39	0.56	
	<b>LB</b>	-1.74		-1.20	-1.31		-0.74
	<b>UB</b>	4.05		2.40	3.18		1.71
<b>New Mexico</b>	<b>LB</b>	1.62	0.58	1.60	0.80	0.50	
	<b>LB</b>	-3.28		-1.74	-3.23		-1.70
	<b>UB</b>	6.90		4.05	7.04		3.15
<b>New York</b>	<b>LB</b>	1.18	0.61	0.82	0.46	0.57	
	<b>LB</b>	-1.99		-1.54	-1.48		-0.98
	<b>UB</b>	4.83		3.19	3.34		2.12
<b>North Carolina</b>	<b>LB</b>	1.65	0.54	1.30	0.68	0.52	
	<b>LB</b>	-3.20		-1.77	-2.40		-1.33
	<b>UB</b>	6.67		3.69	5.62		2.67
<b>North Dakota</b>	<b>LB</b>	1.30	0.48	0.74	0.34	0.45	
	<b>LB</b>	-2.69		-1.32	-1.44		-0.65
	<b>UB</b>	5.78		2.56	3.38		1.39
<b>Ohio</b>	<b>LB</b>	1.79	0.55	1.38	0.74	0.53	
	<b>LB</b>	-3.43		-1.90	-2.69		-1.31
	<b>UB</b>	7.60		4.33	5.97		3.20
<b>Oklahoma</b>	<b>LB</b>	2.28	0.57	1.53	0.87	0.57	
	<b>LB</b>	-4.60		-2.73	-3.25		-1.67
	<b>UB</b>	9.86		5.32	6.69		3.69
<b>Oregon</b>	<b>LB</b>	1.25	0.47	0.86	0.38	0.44	
	<b>LB</b>	-2.27		-1.18	-1.71		-0.77
	<b>UB</b>	5.01		2.45	3.73		1.64
<b>Pennsylvania</b>	<b>LB</b>	1.39	0.55	1.03	0.56	0.54	
	<b>LB</b>	-2.91		-1.51	-1.94		-1.23
	<b>UB</b>	5.60		3.23	4.42		2.32
<b>Rhode Island</b>	<b>LB</b>	1.33	0.58	1.05	0.56	0.53	
	<b>LB</b>	-2.45		-1.68	-2.01		-1.19
	<b>UB</b>	5.43		3.34	4.61		2.37
<b>South Carolina</b>	<b>LB</b>	2.13	0.50	1.56	0.77	0.50	
	<b>LB</b>	-4.06		-2.26	-3.05		-1.59
	<b>UB</b>	8.56		4.40	6.34		3.26
<b>South Dakota</b>	<b>LB</b>	1.43	0.50	1.16	0.49	0.42	
	<b>LB</b>	-3.00		-1.36	-2.15		-0.97
	<b>UB</b>	5.88		3.03	4.85		2.08

<b>Tennessee</b> <b>LB</b> <b>UB</b>	2.19	1.21	0.55	1.74	0.87	0.50
	-3.93	-2.18		-3.33	-1.62	
	9.22	4.93		7.23	3.64	
<b>Texas</b> <b>LB</b> <b>UB</b>	1.46	0.86	0.59	1.17	0.63	0.54
	-2.73	-1.63		-2.38	-1.32	
	5.88	3.56		4.66	2.65	
<b>Utah</b> <b>LB</b> <b>UB</b>	1.42	0.85	0.60	1.05	0.61	0.59
	-2.79	-1.72		-2.11	-1.42	
	5.86	3.66		4.39	2.63	
<b>Vermont</b> <b>LB</b> <b>UB</b>	1.23	0.61	0.50	1.02	0.49	0.48
	-1.99	-1.32		-1.82	-0.95	
	4.98	2.58		4.39	2.19	
<b>Virginia</b> <b>LB</b> <b>UB</b>	1.09	0.63	0.58	0.87	0.49	0.56
	-2.10	-1.23		-1.82	-0.96	
	4.76	2.71		3.80	2.04	
<b>Washington</b> <b>LB</b> <b>UB</b>	1.05	0.54	0.51	0.72	0.35	0.48
	-2.16	-0.95		-1.25	-0.60	
	4.45	2.33		3.20	1.58	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	2.59	1.51	0.58	2.02	1.25	0.62
	-5.33	-2.63		-4.24	-2.41	
	10.50	6.32		8.16	5.23	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	1.41	0.70	0.50	1.12	0.54	0.48
	-2.49	-1.37		-1.94	-1.01	
	5.86	2.92		4.81	2.36	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	1.15	0.56	0.48	0.84	0.40	0.48
	-2.22	-1.07		-1.63	-0.75	
	4.94	2.46		3.71	1.68	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	1.45	0.81	0.56	1.11	0.58	0.52
	-2.85	-1.50		-2.20	-1.14	
	5.98	3.14		4.48	2.39	

The 95% uncertainty intervals for the ratio were not reported due to model instability and lack of reliable estimation.

**Table S21. Age-standardised mortality rates for IHD attributable to Diet low in seafood omega-3 fatty acids. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	13.54	8.57	0.63 (0.07 - 5.46)	10.80	6.60	0.61 (0.06 - 6.04)
<b>LB</b>	2.76	1.65		1.98	1.24	
<b>UB</b>	23.36	15.08		19.73	11.95	
<b>Alaska</b>	8.13	4.09	0.50 (0.06 - 4.49)	6.09	2.98	0.49 (0.05 - 4.56)
<b>LB</b>	1.62	0.79		1.17	0.60	
<b>UB</b>	14.30	7.28		11.34	5.34	
<b>Arizona</b>	9.34	5.62	0.60 (0.06 - 5.67)	7.75	4.37	0.56 (0.06 - 5.81)
<b>LB</b>	1.81	1.02		1.40	0.83	
<b>UB</b>	16.33	10.27		14.02	8.13	
<b>Arkansas</b>	18.72	10.63	0.57 (0.06 - 5.08)	16.23	9.59	0.59 (0.07 - 5.43)
<b>LB</b>	3.67	2.08		3.15	2.09	
<b>UB</b>	32.44	18.66		29.51	17.10	
<b>California</b>	8.18	5.08	0.62 (0.06 - 6.07)	5.99	3.45	0.58 (0.06 - 4.74)
<b>LB</b>	1.50	0.94		1.32	0.65	
<b>UB</b>	14.73	9.11		11.64	6.26	
<b>Colorado</b>	9.07	5.01	0.55 (0.06 - 5.08)	6.86	3.55	0.52 (0.06 - 4.68)
<b>LB</b>	1.75	0.94		1.36	0.67	
<b>UB</b>	15.73	8.89		12.16	6.37	
<b>Connecticut</b>	6.39	3.97	0.62 (0.06 - 6.18)	4.98	3.11	0.62 (0.06 - 6.16)
<b>LB</b>	1.17	0.71		0.93	0.60	
<b>UB</b>	11.46	7.23		9.41	5.73	
<b>Delaware</b>	9.27	5.99	0.65 (0.07 - 6.01)	7.33	4.40	0.60 (0.06 - 5.98)
<b>LB</b>	1.75	1.16		1.36	0.85	
<b>UB</b>	16.69	10.52		13.61	8.13	
<b>District of Columbia</b>	8.11	5.74	0.71 (0.07 - 6.89)	5.67	3.95	0.70 (0.07 - 7.15)
<b>LB</b>	1.50	1.05		1.00	0.73	
<b>UB</b>	14.79	10.34		10.79	7.15	
<b>Florida</b>	8.98	5.50	0.61 (0.06 - 5.34)	7.43	4.34	0.58 (0.06 - 5.71)
<b>LB</b>	1.82	1.00		1.36	0.82	
<b>UB</b>	16.02	9.71		13.96	7.77	
<b>Georgia</b>	10.34	6.51	0.63 (0.07 - 5.68)	8.45	5.12	0.61 (0.06 - 5.68)
<b>LB</b>	2.00	1.30		1.63	0.92	
<b>UB</b>	18.12	11.36		15.12	9.26	
<b>Hawaii</b>	7.22	3.48	0.48 (0.05 - 4.56)	5.62	2.63	0.47 (0.05 - 4.62)
<b>LB</b>	1.37	0.65		1.06	0.49	
<b>UB</b>	12.67	6.25		10.64	4.90	
<b>Idaho</b>	11.83	5.98	0.51 (0.05 - 4.43)	9.16	4.67	0.51 (0.05 - 4.57)
<b>LB</b>	2.35	1.12		1.81	0.91	

<b>UB</b>	20.41	10.41		16.72	8.27	
<b>Illinois</b> <b>LB</b> <b>UB</b>	9.52	5.82	0.61 (0.07 - 5.85)	7.14	4.33	0.61 (0.06 - 6.54)
	1.77	1.12		1.19	0.82	
	16.84	10.36		13.58	7.78	
<b>Indiana</b> <b>LB</b> <b>UB</b>	11.71	7.01	0.60 (0.06 - 5.33)	9.11	5.56	0.61 (0.06 - 5.4)
	2.35	1.32		1.83	1.06	
	20.33	12.52		16.67	9.88	
<b>Iowa</b> <b>LB</b> <b>UB</b>	12.98	7.28	0.56 (0.06 - 5)	11.28	5.81	0.51 (0.05 - 4.84)
	2.53	1.43		2.17	1.09	
	22.62	12.64		19.86	10.51	
<b>Kansas</b> <b>LB</b> <b>UB</b>	12.10	6.79	0.56 (0.06 - 5.25)	11.13	6.14	0.55 (0.06 - 5.34)
	2.26	1.34		2.06	1.15	
	21.41	11.86		20.64	11.01	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	13.64	8.10	0.59 (0.07 - 5.33)	10.93	6.71	0.61 (0.06 - 5.63)
	2.71	1.55		2.18	1.24	
	23.26	14.44		19.92	12.27	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	12.58	8.17	0.65 (0.07 - 5.87)	10.53	6.67	0.63 (0.06 - 5.93)
	2.45	1.55		2.05	1.25	
	22.16	14.38		19.41	12.15	
<b>Maine</b> <b>LB</b> <b>UB</b>	8.54	4.90	0.57 (0.06 - 5.28)	7.17	3.98	0.56 (0.06 - 4.73)
	1.66	0.89		1.51	0.72	
	15.25	8.77		12.92	7.14	
<b>Maryland</b> <b>LB</b> <b>UB</b>	8.27	5.54	0.67 (0.07 - 6.56)	6.30	4.12	0.65 (0.08 - 5.56)
	1.50	1.05		1.33	0.86	
	14.88	9.84		11.23	7.40	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	7.33	4.18	0.57 (0.06 - 5.53)	4.67	2.75	0.59 (0.06 - 5.76)
	1.35	0.78		0.91	0.58	
	13.20	7.46		9.13	5.24	
<b>Michigan</b> <b>LB</b> <b>UB</b>	12.11	7.60	0.63 (0.07 - 5.66)	9.05	5.51	0.61 (0.06 - 6.63)
	2.34	1.43		1.56	1.02	
	21.19	13.25		16.75	10.35	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	6.74	3.31	0.49 (0.05 - 4.53)	5.30	2.81	0.53 (0.06 - 5.19)
	1.30	0.62		0.98	0.56	
	11.94	5.89		10.08	5.09	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	14.93	9.27	0.62 (0.07 - 5.42)	13.12	7.75	0.59 (0.07 - 5.13)
	2.95	1.77		2.58	1.63	
	25.35	15.98		23.03	13.23	
<b>Missouri</b> <b>LB</b> <b>UB</b>	15.32	9.13	0.60 (0.07 - 5.28)	12.71	7.09	0.56 (0.06 - 4.83)
	3.01	1.78		2.61	1.44	
	26.09	15.88		22.48	12.61	
<b>Montana</b> <b>LB</b> <b>UB</b>	9.31	4.84	0.52 (0.05 - 4.7)	7.64	4.03	0.53 (0.06 - 4.95)
	1.82	0.89		1.52	0.79	
	16.43	8.55		13.84	7.53	
<b>Nebraska</b> <b>LB</b>	10.51	5.44	0.52 (0.06 - 4.59)	8.90	4.62	0.52 (0.05 - 5.13)
	2.08	1.03		1.64	0.87	

<b>UB</b>	17.77	9.54		16.05	8.42	
<b>Nevada</b>	10.06	6.20	0.62 (0.07 - 5.54)	9.19	5.14	0.56 (0.06 - 5.14)
<b>LB</b>	1.96	1.18		1.81	1.02	
<b>UB</b>	17.68	10.85		17.10	9.31	
<b>New Hampshire</b>	7.62	4.38	0.57 (0.06 - 5.62)	5.98	3.55	0.59 (0.06 - 6.19)
<b>LB</b>	1.41	0.81		1.09	0.69	
<b>UB</b>	13.70	7.92		11.10	6.75	
<b>New Jersey</b>	8.30	5.38	0.65 (0.06 - 6.25)	5.86	3.71	0.63 (0.06 - 5.77)
<b>LB</b>	1.58	1.00		1.23	0.67	
<b>UB</b>	15.49	9.88		11.05	7.10	
<b>New Mexico</b>	11.51	6.65	0.58 (0.06 - 5.19)	11.75	6.08	0.52 (0.05 - 4.53)
<b>LB</b>	2.26	1.27		2.32	1.17	
<b>UB</b>	20.04	11.74		21.81	10.52	
<b>New York</b>	9.60	6.50	0.68 (0.07 - 6.7)	6.99	4.51	0.64 (0.07 - 6.36)
<b>LB</b>	1.75	1.19		1.29	0.86	
<b>UB</b>	17.22	11.72		13.10	8.20	
<b>North Carolina</b>	10.48	6.26	0.60 (0.06 - 5.46)	8.20	4.83	0.59 (0.06 - 5.67)
<b>LB</b>	2.06	1.13		1.53	0.89	
<b>UB</b>	18.76	11.25		15.47	8.68	
<b>North Dakota</b>	9.09	4.69	0.52 (0.06 - 4.6)	6.06	3.13	0.52 (0.06 - 4.4)
<b>LB</b>	1.81	0.88		1.32	0.61	
<b>UB</b>	15.73	8.33		11.03	5.81	
<b>Ohio</b>	11.39	7.08	0.62 (0.07 - 5.75)	9.00	5.61	0.62 (0.06 - 5.93)
<b>LB</b>	2.18	1.35		1.74	0.99	
<b>UB</b>	20.28	12.53		17.08	10.31	
<b>Oklahoma</b>	18.04	11.16	0.62 (0.07 - 5.57)	13.01	8.07	0.62 (0.07 - 5.83)
<b>LB</b>	3.45	2.15		2.39	1.63	
<b>UB</b>	30.76	19.20		22.99	13.93	
<b>Oregon</b>	7.75	3.98	0.51 (0.05 - 5.01)	5.64	2.82	0.50 (0.05 - 4.66)
<b>LB</b>	1.44	0.72		1.10	0.51	
<b>UB</b>	13.38	7.21		11.01	5.13	
<b>Pennsylvania</b>	10.00	6.04	0.60 (0.07 - 5.58)	7.48	4.67	0.63 (0.07 - 5.75)
<b>LB</b>	1.90	1.15		1.41	0.93	
<b>UB</b>	17.58	10.60		14.12	8.11	
<b>Rhode Island</b>	9.38	6.01	0.64 (0.07 - 5.88)	7.20	4.32	0.60 (0.06 - 5.79)
<b>LB</b>	1.80	1.14		1.35	0.86	
<b>UB</b>	16.41	10.59		13.52	7.82	
<b>South Carolina</b>	12.39	6.97	0.56 (0.06 - 5.11)	9.27	5.25	0.57 (0.06 - 5.74)
<b>LB</b>	2.40	1.36		1.65	1.02	
<b>UB</b>	21.33	12.27		16.65	9.47	
<b>South Dakota</b>	9.63	5.09	0.53 (0.06 - 4.94)	8.19	3.87	0.47 (0.05 - 4.55)
<b>LB</b>	1.86	0.97		1.51	0.69	
<b>UB</b>	17.25	9.19		15.01	6.87	
<b>Tennessee</b>	13.72	8.52	0.62 (0.07 - 5.77)	11.17	6.55	0.59 (0.06 - 4.96)
<b>LB</b>	2.59	1.64		2.29	1.26	

<b>UB</b>	24.42	14.94		21.07	11.36	
<b>Texas</b>	10.06	6.44	0.64 (0.07 - 5.83)	8.30	5.01	0.60 (0.07 - 5.33)
<b>LB</b>	1.96	1.21		1.68	1.01	
<b>UB</b>	17.38	11.42		15.52	8.95	
<b>Utah</b>	8.00	5.06	0.63 (0.07 - 6.09)	6.01	3.92	0.65 (0.07 - 6.27)
<b>LB</b>	1.50	1.01		1.13	0.77	
<b>UB</b>	14.25	9.13		11.17	7.08	
<b>Vermont</b>	8.38	4.48	0.53 (0.06 - 5.07)	7.04	3.80	0.54 (0.06 - 5.19)
<b>LB</b>	1.61	0.86		1.36	0.80	
<b>UB</b>	14.85	8.16		13.17	7.06	
<b>Virginia</b>	8.38	5.31	0.63 (0.07 - 5.83)	6.57	4.22	0.64 (0.07 - 5.93)
<b>LB</b>	1.63	1.01		1.32	0.87	
<b>UB</b>	14.63	9.51		12.21	7.83	
<b>Washington</b>	7.67	4.33	0.56 (0.05 - 5.39)	5.47	3.04	0.56 (0.05 - 5.19)
<b>LB</b>	1.44	0.78		1.08	0.57	
<b>UB</b>	14.25	7.76		10.38	5.60	
<b>West Virginia</b>	17.80	10.59	0.59 (0.07 - 5.38)	14.60	9.30	0.64 (0.08 - 5.81)
<b>LB</b>	3.42	2.19		2.77	1.94	
<b>UB</b>	30.52	18.41		25.75	16.10	
<b>Wisconsin</b>	9.20	5.17	0.56 (0.06 - 5.44)	7.28	4.10	0.56 (0.06 - 5.54)
<b>LB</b>	1.69	0.94		1.33	0.81	
<b>UB</b>	16.34	9.19		13.33	7.37	
<b>Wyoming</b>	11.23	5.78	0.51 (0.06 - 4.72)	8.86	4.45	0.50 (0.05 - 4.75)
<b>LB</b>	2.17	1.13		1.69	0.85	
<b>UB</b>	20.11	10.24		16.07	8.03	
<b>USA Mean</b>	10.10	6.18	0.61 (0.07 - 5.67)	7.87	4.68	0.59 (0.06 - 5.52)
<b>LB</b>	1.92	1.16		1.49	0.89	
<b>UB</b>	17.73	10.89		14.08	8.23	

**Table S22. Age-standardised mortality rates for IHD attributable to Diet low in vegetables. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
<b>Alabama</b>	6.38	3.33	0.52 (0.15 - 1.69)	5.45	2.67	0.49 (0.13 - 1.7)
<b>LB</b>	3.09	1.51		2.53	1.19	
<b>UB</b>	10.04	5.21		8.85	4.30	
<b>Alaska</b>	3.33	1.42	0.43 (0.12 - 1.59)	2.50	1.04	0.42 (0.11 - 1.47)
<b>LB</b>	1.47	0.66		1.14	0.47	
<b>UB</b>	5.33	2.33		4.30	1.68	
<b>Arizona</b>	2.03	0.72	0.35 (0.09 - 1.44)	1.75	0.58	0.33 (0.08 - 1.46)
<b>LB</b>	0.88	0.29		0.70	0.23	
<b>UB</b>	3.40	1.27		2.93	1.02	
<b>Arkansas</b>	6.00	3.17	0.53 (0.15 - 1.89)	5.40	2.90	0.54 (0.15 - 1.93)
<b>LB</b>	2.70	1.42		2.50	1.34	
<b>UB</b>	9.45	5.10		9.00	4.83	
<b>California</b>	2.12	1.21	0.57 (0.13 - 2.43)	1.57	0.82	0.52 (0.12 - 2.35)
<b>LB</b>	0.84	0.48		0.62	0.33	
<b>UB</b>	3.64	2.04		2.85	1.46	
<b>Colorado</b>	2.80	1.33	0.47 (0.13 - 1.72)	2.19	0.96	0.44 (0.12 - 1.65)
<b>LB</b>	1.28	0.58		0.92	0.42	
<b>UB</b>	4.47	2.20		3.49	1.52	
<b>Connecticut</b>	2.82	1.33	0.47 (0.13 - 1.8)	2.30	1.05	0.46 (0.12 - 1.7)
<b>LB</b>	1.24	0.59		1.04	0.46	
<b>UB</b>	4.64	2.23		3.92	1.77	
<b>Delaware</b>	4.70	2.45	0.52 (0.14 - 1.81)	3.95	1.85	0.47 (0.12 - 1.76)
<b>LB</b>	2.18	1.05		1.72	0.81	
<b>UB</b>	7.39	3.94		6.52	3.03	
<b>District of Columbia</b>	4.58	2.62	0.57 (0.17 - 2.03)	3.96	2.04	0.51 (0.14 - 1.96)
<b>LB</b>	2.04	1.20		1.64	0.89	
<b>UB</b>	7.23	4.15		6.57	3.22	
<b>Florida</b>	3.34	1.71	0.51 (0.14 - 1.87)	2.88	1.45	0.50 (0.13 - 1.98)
<b>LB</b>	1.48	0.76		1.25	0.66	
<b>UB</b>	5.32	2.77		5.00	2.48	
<b>Georgia</b>	3.30	1.12	0.34 (0.09 - 1.25)	2.87	0.90	0.31 (0.08 - 1.27)
<b>LB</b>	1.53	0.47		1.23	0.38	
<b>UB</b>	5.27	1.91		4.73	1.56	
<b>Hawaii</b>	3.49	1.27	0.36 (0.1 - 1.27)	2.99	1.01	0.34 (0.09 - 1.27)
<b>LB</b>	1.61	0.56		1.31	0.44	
<b>UB</b>	5.38	2.04		4.97	1.66	
<b>Idaho</b>	4.13	1.71	0.41 (0.12 - 1.37)	3.38	1.37	0.41 (0.11 - 1.49)
<b>LB</b>	1.97	0.75		1.48	0.59	
<b>UB</b>	6.36	2.70		5.54	2.20	

<b>Illinois</b> <b>LB</b> <b>UB</b>	4.73	2.44	0.52 (0.15 - 1.75)	3.95	1.93	0.49 (0.13 - 1.79)
	2.22	1.08		1.71	0.82	
	7.38	3.89		6.40	3.06	
<b>Indiana</b> <b>LB</b> <b>UB</b>	5.19	2.50	0.48 (0.13 - 1.64)	4.41	2.04	0.46 (0.12 - 1.7)
	2.44	1.08		1.99	0.87	
	8.12	4.00		7.07	3.38	
<b>Iowa</b> <b>LB</b> <b>UB</b>	3.83	2.02	0.53 (0.14 - 1.91)	3.40	1.62	0.48 (0.12 - 1.79)
	1.71	0.87		1.50	0.67	
	6.20	3.27		5.66	2.69	
<b>Kansas</b> <b>LB</b> <b>UB</b>	3.87	1.87	0.48 (0.14 - 1.72)	3.60	1.70	0.47 (0.13 - 1.76)
	1.79	0.83		1.59	0.76	
	6.13	3.07		5.95	2.80	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	5.45	2.88	0.53 (0.15 - 1.85)	4.64	2.43	0.52 (0.14 - 1.96)
	2.52	1.28		2.02	1.05	
	8.47	4.67		7.58	3.95	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	5.61	2.91	0.52 (0.14 - 1.71)	5.10	2.47	0.48 (0.13 - 1.7)
	2.68	1.27		2.36	1.08	
	8.85	4.58		8.32	4.01	
<b>Maine</b> <b>LB</b> <b>UB</b>	2.66	1.33	0.50 (0.13 - 1.92)	2.32	1.12	0.48 (0.12 - 1.86)
	1.17	0.56		1.02	0.45	
	4.31	2.25		3.77	1.90	
<b>Maryland</b> <b>LB</b> <b>UB</b>	1.78	1.07	0.60 (0.15 - 2.42)	1.48	0.81	0.55 (0.13 - 2.13)
	0.74	0.44		0.63	0.34	
	3.03	1.79		2.53	1.34	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	3.34	1.48	0.44 (0.12 - 1.63)	2.36	1.03	0.44 (0.11 - 1.79)
	1.50	0.65		0.99	0.45	
	5.38	2.44		3.95	1.77	
<b>Michigan</b> <b>LB</b> <b>UB</b>	4.33	2.26	0.52 (0.14 - 1.92)	3.49	1.73	0.50 (0.13 - 2.02)
	1.89	0.97		1.49	0.72	
	6.90	3.62		5.74	3.01	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	2.91	1.03	0.35 (0.1 - 1.26)	2.46	0.90	0.37 (0.1 - 1.38)
	1.35	0.44		1.09	0.39	
	4.61	1.70		4.08	1.50	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	6.72	3.29	0.49 (0.15 - 1.68)	6.16	2.83	0.46 (0.13 - 1.62)
	3.11	1.54		2.81	1.29	
	10.51	5.22		9.82	4.55	
<b>Missouri</b> <b>LB</b> <b>UB</b>	4.95	2.67	0.54 (0.15 - 1.99)	4.21	2.07	0.49 (0.14 - 1.91)
	2.21	1.17		1.75	0.96	
	7.80	4.39		6.71	3.35	
<b>Montana</b> <b>LB</b> <b>UB</b>	3.77	1.47	0.39 (0.11 - 1.42)	3.36	1.30	0.39 (0.1 - 1.5)
	1.69	0.64		1.50	0.56	
	6.02	2.40		5.50	2.25	
<b>Nebraska</b> <b>LB</b>	3.13	1.42	0.46 (0.12 - 1.68)	2.71	1.20	0.44 (0.12 - 1.72)
	1.40	0.61		1.19	0.52	

<b>UB</b>	4.97	2.35		4.34	2.05		
<b>Nevada</b>	4.17	2.02	0.48 (0.13 - 1.7)	4.02	1.74	0.43 (0.12 - 1.63)	
	<b>LB</b>	1.91		0.86	1.75		0.75
	<b>UB</b>	6.58		3.25	6.49		2.86
<b>New Hampshire</b>	3.20	1.43	0.45 (0.11 - 1.69)	2.71	1.19	0.44 (0.11 - 1.7)	
	<b>LB</b>	1.39		0.60	1.17		0.49
	<b>UB</b>	5.23		2.35	4.43		1.99
<b>New Jersey</b>	3.50	1.79	0.51 (0.13 - 1.96)	2.69	1.29	0.48 (0.12 - 1.93)	
	<b>LB</b>	1.53		0.75	1.11		0.54
	<b>UB</b>	5.59		3.00	4.38		2.14
<b>New Mexico</b>	3.59	1.75	0.49 (0.13 - 1.8)	3.71	1.60	0.43 (0.11 - 1.69)	
	<b>LB</b>	1.61		0.74	1.57		0.69
	<b>UB</b>	5.71		2.90	6.06		2.65
<b>New York</b>	4.07	2.22	0.55 (0.15 - 1.98)	3.27	1.61	0.49 (0.12 - 1.88)	
	<b>LB</b>	1.86		0.95	1.49		0.67
	<b>UB</b>	6.51		3.68	5.40		2.80
<b>North Carolina</b>	4.26	2.11	0.50 (0.14 - 1.81)	3.70	1.75	0.47 (0.13 - 1.73)	
	<b>LB</b>	1.88		0.93	1.65		0.80
	<b>UB</b>	6.69		3.40	6.04		2.85
<b>North Dakota</b>	3.31	0.95	0.29 (0.08 - 1.12)	2.42	0.67	0.28 (0.07 - 1.1)	
	<b>LB</b>	1.47		0.41	1.05		0.27
	<b>UB</b>	5.36		1.64	3.89		1.15
<b>Ohio</b>	2.15	1.05	0.49 (0.11 - 2.24)	1.74	0.85	0.49 (0.1 - 2.18)	
	<b>LB</b>	0.85		0.41	0.73		0.32
	<b>UB</b>	3.72		1.90	3.11		1.59
<b>Oklahoma</b>	5.66	3.09	0.55 (0.16 - 1.86)	4.22	2.26	0.54 (0.15 - 1.98)	
	<b>LB</b>	2.64		1.41	1.87		1.01
	<b>UB</b>	8.88		4.90	6.90		3.71
<b>Oregon</b>	3.05	1.33	0.44 (0.12 - 1.57)	2.43	0.99	0.41 (0.1 - 1.6)	
	<b>LB</b>	1.38		0.56	1.03		0.42
	<b>UB</b>	4.83		2.17	4.03		1.65
<b>Pennsylvania</b>	4.13	1.83	0.44 (0.12 - 1.64)	3.24	1.35	0.42 (0.11 - 1.68)	
	<b>LB</b>	1.84		0.80	1.36		0.59
	<b>UB</b>	6.56		3.02	5.46		2.28
<b>Rhode Island</b>	4.19	2.20	0.53 (0.15 - 1.81)	3.49	1.66	0.48 (0.13 - 1.76)	
	<b>LB</b>	1.95		0.95	1.56		0.70
	<b>UB</b>	6.54		3.52	5.56		2.75
<b>South Carolina</b>	5.06	2.34	0.46 (0.13 - 1.53)	4.13	1.85	0.45 (0.12 - 1.65)	
	<b>LB</b>	2.44		1.06	1.85		0.81
	<b>UB</b>	7.90		3.73	6.83		3.06
<b>South Dakota</b>	1.84	0.44	0.24 (0.05 - 1.15)	1.59	0.35	0.22 (0.04 - 1.15)	
	<b>LB</b>	0.73		0.14	0.60		0.11
	<b>UB</b>	3.09		0.84	2.82		0.69
<b>Tennessee</b>	5.54	2.72	0.49	4.92	2.13	0.43	

<b>LB</b>	2.62	1.24	(0.15 - 1.65)	2.23	0.88	(0.11 - 1.58)
<b>UB</b>	8.47	4.33		7.97	3.53	
<b>Texas</b>	3.90	1.97	0.50 (0.14 - 1.83)	3.41	1.53	0.45 (0.12 - 1.63)
<b>LB</b>	1.73	0.86		1.54	0.66	
<b>UB</b>	6.19	3.16		5.57	2.51	
<b>Utah</b>	3.11	1.60	0.51 (0.14 - 1.9)	2.55	1.32	0.52 (0.13 - 2.03)
<b>LB</b>	1.42	0.69		1.07	0.56	
<b>UB</b>	4.93	2.70		4.28	2.17	
<b>Vermont</b>	3.63	1.40	0.39 (0.11 - 1.43)	3.28	1.26	0.39 (0.11 - 1.51)
<b>LB</b>	1.64	0.62		1.39	0.58	
<b>UB</b>	5.67	2.34		5.36	2.10	
<b>Virginia</b>	3.27	1.53	0.47 (0.12 - 1.77)	2.72	1.24	0.46 (0.12 - 1.74)
<b>LB</b>	1.45	0.65		1.24	0.51	
<b>UB</b>	5.29	2.56		4.42	2.16	
<b>Washington</b>	3.28	1.43	0.44 (0.12 - 1.62)	2.56	1.05	0.41 (0.1 - 1.47)
<b>LB</b>	1.48	0.62		1.18	0.45	
<b>UB</b>	5.28	2.40		4.33	1.74	
<b>West Virginia</b>	5.92	2.82	0.48 (0.13 - 1.67)	5.02	2.46	0.49 (0.13 - 1.77)
<b>LB</b>	2.71	1.24		2.27	1.05	
<b>UB</b>	9.27	4.53		8.03	4.01	
<b>Wisconsin</b>	3.69	1.66	0.45 (0.12 - 1.58)	3.19	1.36	0.43 (0.11 - 1.68)
<b>LB</b>	1.70	0.72		1.37	0.59	
<b>UB</b>	5.84	2.69		5.15	2.30	
<b>Wyoming</b>	3.98	1.69	0.42 (0.11 - 1.48)	3.25	1.32	0.41 (0.11 - 1.52)
<b>LB</b>	1.86	0.74		1.42	0.57	
<b>UB</b>	6.46	2.76		5.25	2.16	
<b>USA Mean</b>	3.69	1.83	0.50 (0.13 - 1.78)	3.06	1.43	0.47 (0.13 - 1.68)
<b>LB</b>	1.66	0.79		1.38	0.63	
<b>UB</b>	5.87	2.96		4.96	2.32	

**Table S23. Age-standardised mortality rates for IHD attributable to Diet low in whole grains. 2011, 2021.**

States	2011			2021		
	Male	Female	Female-to-Male ratio	Male	Female	Female-to-Male ratio
Alabama LB UB	19.23	9.72	0.51 (0.21 - 1.19)	16.94	7.87	0.46 (0.18 - 1.19)
	11.43	5.73		9.61	4.37	
	26.72	13.57		24.62	11.47	
Alaska LB UB	13.00	5.09	0.39 (0.16 - 0.95)	10.75	3.92	0.36 (0.15 - 0.91)
	7.87	2.89		6.33	2.29	
	18.09	7.46		15.78	5.76	
Arizona LB UB	13.51	6.49	0.48 (0.2 - 1.13)	12.26	5.28	0.43 (0.17 - 1.1)
	8.22	3.66		7.10	3.01	
	18.41	9.26		18.11	7.82	
Arkansas LB UB	21.02	10.19	0.48 (0.21 - 1.18)	19.92	9.56	0.48 (0.19 - 1.18)
	12.29	5.96		11.91	5.51	
	29.04	14.54		29.01	14.00	
California LB UB	12.72	6.23	0.49 (0.2 - 1.21)	10.98	4.64	0.42 (0.16 - 1.06)
	7.41	3.50		6.44	2.60	
	17.94	9.00		16.52	6.83	
Colorado LB UB	10.78	4.97	0.46 (0.18 - 1.09)	9.15	3.75	0.41 (0.15 - 1.08)
	6.54	2.74		5.11	2.03	
	15.22	7.15		13.59	5.52	
Connecticut LB UB	11.28	5.33	0.47 (0.2 - 1.19)	9.83	4.41	0.45 (0.16 - 1.2)
	6.65	3.10		5.59	2.36	
	15.67	7.89		14.45	6.70	
Delaware LB UB	14.30	7.26	0.51 (0.21 - 1.22)	12.39	5.58	0.45 (0.18 - 1.14)
	8.62	4.21		7.12	3.18	
	19.73	10.53		18.12	8.14	
District of Columbia LB UB	14.42	7.70	0.53 (0.22 - 1.32)	12.74	6.01	0.47 (0.17 - 1.31)
	8.36	4.42		6.85	3.37	
	20.51	11.02		19.34	8.95	
Florida LB UB	13.53	6.54	0.48 (0.2 - 1.16)	12.42	5.46	0.44 (0.17 - 1.14)
	8.10	3.77		7.03	3.06	
	18.62	9.40		18.42	8.00	
Georgia LB UB	15.01	7.55	0.50 (0.21 - 1.22)	13.64	6.28	0.46 (0.18 - 1.2)
	8.79	4.42		7.74	3.61	
	20.87	10.76		19.88	9.31	
Hawaii LB UB	11.08	4.21	0.38 (0.15 - 0.92)	9.69	3.38	0.35 (0.13 - 0.94)
	6.65	2.40		5.30	1.83	
	15.66	6.11		14.29	5.00	
Idaho LB	13.34	5.75	0.43 (0.18 - 1.03)	11.20	4.69	0.42 (0.16 - 1.06)
	8.08	3.28		6.37	2.64	

<b>UB</b>	18.73	8.31		16.76	6.77	
<b>Illinois</b> <b>LB</b> <b>UB</b>	14.60	7.04	0.48 (0.2 - 1.14)	12.48	5.63	0.45 (0.17 - 1.15)
	8.87	4.11		7.29	3.04	
	20.36	10.11		18.33	8.37	
<b>Indiana</b> <b>LB</b> <b>UB</b>	16.96	8.08	0.48 (0.19 - 1.09)	14.84	6.85	0.46 (0.17 - 1.16)
	10.44	4.54		8.44	3.79	
	23.67	11.38		21.84	9.80	
<b>Iowa</b> <b>LB</b> <b>UB</b>	15.11	7.14	0.47 (0.2 - 1.12)	14.28	5.93	0.42 (0.16 - 1.04)
	9.20	4.17		8.54	3.45	
	21.25	10.33		20.94	8.91	
<b>Kansas</b> <b>LB</b> <b>UB</b>	14.18	6.67	0.47 (0.2 - 1.12)	14.15	6.26	0.44 (0.17 - 1.16)
	8.43	3.85		7.92	3.55	
	19.57	9.48		20.81	9.21	
<b>Kentucky</b> <b>LB</b> <b>UB</b>	19.25	9.16	0.48 (0.2 - 1.11)	17.12	8.02	0.47 (0.18 - 1.22)
	11.62	5.31		9.91	4.42	
	26.63	12.94		25.08	12.13	
<b>Louisiana</b> <b>LB</b> <b>UB</b>	18.20	9.43	0.52 (0.22 - 1.19)	17.11	8.25	0.48 (0.19 - 1.21)
	11.17	5.46		9.90	4.73	
	25.30	13.30		25.17	12.01	
<b>Maine</b> <b>LB</b> <b>UB</b>	12.53	5.74	0.46 (0.19 - 1.1)	11.67	4.90	0.42 (0.15 - 1.12)
	7.48	3.27		6.52	2.62	
	17.61	8.23		17.15	7.27	
<b>Maryland</b> <b>LB</b> <b>UB</b>	13.45	7.01	0.52 (0.22 - 1.25)	11.58	5.55	0.48 (0.19 - 1.23)
	7.99	4.12		6.65	3.21	
	19.02	10.00		17.03	8.15	
<b>Massachusetts</b> <b>LB</b> <b>UB</b>	12.15	5.34	0.44 (0.18 - 1.08)	9.13	3.88	0.43 (0.15 - 1.19)
	7.18	3.01		5.08	2.09	
	17.03	7.79		14.20	6.03	
<b>Michigan</b> <b>LB</b> <b>UB</b>	17.59	8.84	0.50 (0.2 - 1.24)	14.97	6.91	0.46 (0.18 - 1.25)
	10.19	4.98		8.11	3.83	
	24.71	12.68		21.84	10.15	
<b>Minnesota</b> <b>LB</b> <b>UB</b>	10.35	4.03	0.39 (0.16 - 0.98)	9.28	3.68	0.40 (0.15 - 1.09)
	6.03	2.25		5.19	1.99	
	14.49	5.88		13.68	5.66	
<b>Mississippi</b> <b>LB</b> <b>UB</b>	20.45	10.27	0.50 (0.21 - 1.17)	19.91	9.06	0.45 (0.18 - 1.14)
	12.30	5.99		11.50	5.25	
	28.13	14.35		28.52	13.10	
<b>Missouri</b> <b>LB</b> <b>UB</b>	17.78	8.92	0.50 (0.2 - 1.18)	15.91	7.15	0.45 (0.18 - 1.15)
	10.86	5.08		9.16	4.11	
	24.84	12.81		23.22	10.53	
<b>Montana</b> <b>LB</b> <b>UB</b>	13.40	5.58	0.42 (0.17 - 1.03)	12.51	5.01	0.40 (0.15 - 0.98)
	7.89	3.13		7.45	2.74	
	18.69	8.11		18.55	7.31	
<b>Nebraska</b>	12.38	5.40	0.44	11.49	4.77	0.42

<b>LB</b>	7.38	3.06	(0.18 - 1.05)	6.44	2.65	(0.16 - 1.12)
<b>UB</b>	17.32	7.75		17.08	7.20	
<b>Nevada</b>	15.19	7.38	0.49 (0.2 - 1.17)	14.91	6.31	0.42 (0.16 - 1.11)
<b>LB</b>	9.04	4.25		8.54	3.41	
<b>UB</b>	21.29	10.57		21.79	9.45	
<b>New Hampshire</b>	12.18	5.48	0.45 (0.18 - 1.12)	10.80	4.75	0.44 (0.16 - 1.19)
<b>LB</b>	7.12	3.05		6.00	2.54	
<b>UB</b>	16.87	8.00		16.20	7.11	
<b>New Jersey</b>	13.70	6.90	0.50 (0.2 - 1.23)	11.06	5.11	0.46 (0.18 - 1.21)
<b>LB</b>	8.16	3.88		6.38	2.80	
<b>UB</b>	19.32	10.07		15.95	7.71	
<b>New Mexico</b>	13.00	6.42	0.49 (0.2 - 1.2)	14.17	6.01	0.42 (0.16 - 1.08)
<b>LB</b>	7.71	3.62		8.18	3.32	
<b>UB</b>	18.26	9.27		21.08	8.80	
<b>New York</b>	15.37	8.13	0.53 (0.21 - 1.29)	13.16	6.18	0.47 (0.18 - 1.2)
<b>LB</b>	9.15	4.56		7.68	3.45	
<b>UB</b>	21.70	11.84		19.18	9.18	
<b>North Carolina</b>	15.27	7.25	0.47 (0.2 - 1.15)	13.20	5.88	0.45 (0.17 - 1.11)
<b>LB</b>	9.06	4.22		7.82	3.30	
<b>UB</b>	21.31	10.45		19.24	8.70	
<b>North Dakota</b>	13.70	5.61	0.41 (0.17 - 0.98)	11.05	4.17	0.38 (0.15 - 0.93)
<b>LB</b>	8.36	3.34		6.50	2.38	
<b>UB</b>	19.10	8.18		15.81	6.07	
<b>Ohio</b>	16.69	8.27	0.50 (0.21 - 1.19)	14.85	7.04	0.47 (0.18 - 1.24)
<b>LB</b>	9.90	4.94		8.42	3.85	
<b>UB</b>	23.31	11.80		21.67	10.42	
<b>Oklahoma</b>	20.72	10.85	0.52 (0.22 - 1.26)	16.24	8.16	0.50 (0.2 - 1.23)
<b>LB</b>	12.15	6.45		9.51	4.67	
<b>UB</b>	29.13	15.36		23.02	11.65	
<b>Oregon</b>	11.29	4.63	0.41 (0.17 - 1)	9.44	3.57	0.38 (0.14 - 0.98)
<b>LB</b>	6.64	2.63		5.43	2.03	
<b>UB</b>	15.80	6.64		14.21	5.30	
<b>Pennsylvania</b>	15.25	7.28	0.48 (0.19 - 1.11)	12.91	6.05	0.47 (0.18 - 1.2)
<b>LB</b>	9.26	4.27		7.48	3.45	
<b>UB</b>	21.92	10.29		19.26	8.95	
<b>Rhode Island</b>	14.34	7.27	0.51 (0.21 - 1.23)	12.42	5.59	0.45 (0.17 - 1.13)
<b>LB</b>	8.39	4.23		7.13	3.13	
<b>UB</b>	19.83	10.36		18.43	8.06	
<b>South Carolina</b>	17.40	7.89	0.45 (0.19 - 1.08)	14.70	6.37	0.43 (0.17 - 1.05)
<b>LB</b>	10.25	4.58		8.86	3.65	
<b>UB</b>	24.06	11.05		21.50	9.33	
<b>South Dakota</b>	14.42	6.07	0.42 (0.17 - 1.01)	13.83	4.90	0.35 (0.14 - 0.91)
<b>LB</b>	8.45	3.44		7.86	2.83	
<b>UB</b>	19.99	8.56		19.91	7.18	

<b>Tennessee</b> <b>LB</b> <b>UB</b>	19.87	9.83	0.49 (0.2 - 1.12)	18.38	8.11	0.44 (0.17 - 1.05)
	12.23	5.54		11.01	4.59	
	27.49	13.75		26.93	11.59	
<b>Texas</b> <b>LB</b> <b>UB</b>	14.88	7.55	0.51 (0.2 - 1.25)	13.96	6.34	0.45 (0.18 - 1.17)
	8.62	4.32		8.07	3.59	
	21.10	10.79		20.33	9.45	
<b>Utah</b> <b>LB</b> <b>UB</b>	11.15	5.73	0.51 (0.2 - 1.25)	9.50	4.78	0.50 (0.19 - 1.31)
	6.57	3.21		5.34	2.66	
	15.67	8.20		14.10	7.02	
<b>Vermont</b> <b>LB</b> <b>UB</b>	12.61	5.36	0.42 (0.17 - 1.04)	12.00	4.87	0.41 (0.16 - 1.01)
	7.40	3.06		7.15	2.72	
	17.57	7.73		17.33	7.20	
<b>Virginia</b> <b>LB</b> <b>UB</b>	13.22	6.55	0.50 (0.2 - 1.19)	11.58	5.52	0.48 (0.18 - 1.22)
	7.89	3.72		6.78	3.06	
	18.48	9.40		16.75	8.30	
<b>Washington</b> <b>LB</b> <b>UB</b>	11.77	5.25	0.45 (0.19 - 1.07)	9.89	4.08	0.41 (0.16 - 1.05)
	7.05	3.03		5.75	2.33	
	16.23	7.52		14.25	6.02	
<b>West Virginia</b> <b>LB</b> <b>UB</b>	19.93	10.12	0.51 (0.21 - 1.2)	17.45	9.17	0.53 (0.2 - 1.38)
	11.98	5.84		9.82	5.11	
	27.28	14.33		25.18	13.60	
<b>Wisconsin</b> <b>LB</b> <b>UB</b>	13.68	6.13	0.45 (0.19 - 1.12)	12.13	5.18	0.43 (0.16 - 1.16)
	7.84	3.58		6.80	2.93	
	19.10	8.81		17.85	7.89	
<b>Wyoming</b> <b>LB</b> <b>UB</b>	13.71	5.82	0.42 (0.17 - 1.02)	11.76	4.68	0.40 (0.15 - 1.01)
	8.23	3.23		6.75	2.59	
	19.21	8.39		17.23	6.85	
<b>USA Mean</b> <b>LB</b> <b>UB</b>	14.73	7.20	0.49 (0.21 - 1.16)	12.94	5.82	0.45 (0.19 - 1.07)
	8.81	4.18		7.74	3.34	
	20.22	10.19		17.89	8.29	

**Table S24. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High LDL cholesterol. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	17.07	35.12	31.52	62.79	7.98	4.60	2.08	2.86
Alaska	8.77	19.15	21.62	44.04	5.72	2.65	0.70	0.73
Arizona	10.78	23.86	21.98	45.19	5.92	3.34	0.73	1.48
Arkansas	17.86	36.39	34.91	67.67	8.36	4.73	2.47	3.02
California	10.58	23.15	20.62	42.12	5.48	3.21	0.50	1.38
Colorado	8.38	18.81	17.70	35.91	4.65	2.66	-0.15	0.6
Connecticut	9.28	20.62	19.06	39.05	5.10	2.89	0.16	0.95
Delaware	12.33	26.94	23.93	47.93	6.12	3.73	1.03	1.92
District of Columbia	14.29	29.37	24.73	50.15	6.49	3.85	1.21	2.39
Florida	11.28	24.25	22.10	45.41	5.95	3.31	0.75	1.60
Georgia	13.25	27.58	24.95	49.95	6.38	3.66	1.17	2.09
Hawaii	7.24	15.57	18.23	37.18	4.83	2.12	0.00	0.00
Idaho	9.48	21.24	21.14	44.27	5.90	3.00	0.64	1.02
Illinois	12.47	26.04	24.27	48.93	6.29	3.46	1.13	1.91
Indiana	13.96	29.49	27.77	56.05	7.21	3.96	1.63	2.27
Iowa	12.44	26.51	24.43	49.91	6.50	3.59	1.17	1.88
Kansas	11.47	24.48	23.10	47.16	6.14	3.32	0.96	1.66
Kentucky	16.20	32.63	31.85	62.87	7.91	4.19	2.12	2.78
Louisiana	16.83	34.36	30.54	59.97	7.51	4.47	1.95	2.85
Maine	9.54	21.17	20.35	42.61	5.68	2.97	0.45	1.07
Maryland	12.37	26.20	22.48	45.81	5.95	3.53	0.80	1.90
Massachusetts	9.31	20.50	19.93	41.1	5.40	2.86	0.40	0.92
Michigan	15.07	32.16	28.75	58.31	7.54	4.36	1.75	2.50
Minnesota	6.72	15.27	17.12	34.76	4.50	2.18	-0.28	-0.16
Mississippi	18.43	37.13	34.08	66.00	8.14	4.77	2.38	3.03
Missouri	15.85	32.46	29.09	58.42	7.48	4.24	1.82	2.66
Montana	9.26	20.50	22.08	45.01	5.85	2.87	0.72	0.98
Nebraska	8.99	19.96	20.18	41.70	5.49	2.80	0.40	0.86
Nevada	12.69	27.36	24.98	50.50	6.51	3.74	1.21	1.97
New Hampshire	9.23	20.91	19.39	41.58	5.66	2.98	0.36	0.94
New Jersey	11.97	26.60	22.77	46.94	6.17	3.73	0.85	1.76
New Mexico	10.70	23.05	20.83	42.17	5.44	3.15	0.53	1.43
New York	13.78	30.77	25.20	52.27	6.91	4.33	1.27	2.21
North Carolina	12.69	26.41	25.41	50.28	6.35	3.50	1.25	1.96
North Dakota	9.50	20.73	22.50	46.15	6.03	2.87	0.83	1.03

<b>Ohio</b>	14.58	30.39	27.18	54.89	7.07	4.03	1.54	2.35
<b>Oklahoma</b>	19.33	39.37	34.23	68.42	8.72	5.11	2.38	3.21
<b>Oregon</b>	7.73	17.03	18.34	37.69	4.94	2.37	0.02	0.29
<b>Pennsylvania</b>	12.64	27.02	25.05	50.68	6.54	3.67	1.25	1.95
<b>Rhode Island</b>	12.31	27.10	23.09	47.89	6.33	3.77	0.98	1.88
<b>South Carolina</b>	13.82	28.34	29.47	56.86	6.99	3.70	1.80	2.25
<b>South Dakota</b>	10.20	22.18	23.30	48.23	6.36	3.06	0.98	1.30
<b>Tennessee</b>	17.20	35.61	33.51	65.37	8.13	4.70	2.25	2.89
<b>Texas</b>	13.13	27.90	24.35	49.25	6.35	3.77	1.12	2.05
<b>Utah</b>	9.18	20.86	17.45	36.38	4.83	2.98	-0.12	0.96
<b>Vermont</b>	8.88	19.87	20.63	42.87	5.67	2.80	0.48	0.82
<b>Virginia</b>	11.57	24.50	21.96	44.26	5.69	3.30	0.71	1.64
<b>Washington</b>	8.91	19.65	18.87	39.25	5.20	2.74	0.21	0.82
<b>West Virginia</b>	17.65	36.28	32.88	64.43	8.05	4.75	2.21	2.95
<b>Wisconsin</b>	10.49	22.69	22.15	45.60	5.98	3.11	0.79	1.33
<b>Wyoming</b>	10.21	21.60	23.19	45.40	5.67	2.91	0.90	1.25

**Table S25. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High LDL cholesterol. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	13.33	28.96	26.26	57.76	8.04	3.99	1.80	2.70
Alaska	6.82	14.87	17.80	37.26	4.97	2.05	0.41	0.59
Arizona	8.84	19.49	18.98	41.18	5.66	2.72	0.78	1.47
Arkansas	16.39	36.75	32.38	67.21	8.89	5.20	2.43	2.98
California	7.54	17.66	17.09	39.02	5.59	2.58	0.42	1.06
Colorado	5.84	14.67	14.21	31.58	4.43	2.25	-0.24	0.36
Connecticut	7.51	17.52	14.90	35.49	5.25	2.55	0.11	0.96
Delaware	9.14	21.51	19.24	40.99	5.55	3.16	0.84	1.61
District of Columbia	11.15	24.65	21.27	46.46	6.42	3.44	1.15	2.11
Florida	9.13	21.06	19.39	43.17	6.07	3.05	0.83	1.57
Georgia	10.35	23.16	21.77	46.46	6.30	3.27	1.18	2.05
Hawaii	5.71	12.77	15.07	33.56	4.72	1.80	0.00	0.00
Idaho	7.62	17.36	16.98	38.46	5.48	2.48	0.41	1.04
Illinois	9.86	22.01	19.84	42.56	5.80	3.10	0.92	1.72
Indiana	11.37	25.73	23.05	49.48	6.74	3.66	1.47	2.23
Iowa	9.98	22.55	22.05	49.57	7.02	3.21	1.28	1.86
Kansas	10.68	24.24	22.66	48.06	6.48	3.46	1.32	1.98
Kentucky	14.22	30.34	27.20	58.89	8.08	4.11	1.87	2.73
Louisiana	13.89	31.09	26.26	58.03	8.10	4.39	1.92	2.77
Maine	7.70	18.15	17.44	40.84	5.97	2.66	0.59	1.19
Maryland	9.38	22.25	18.92	40.81	5.59	3.28	0.66	1.62
Massachusetts	6.31	15.18	14.18	33.19	4.85	2.26	-0.19	0.52
Michigan	11.13	26.66	23.73	50.58	6.85	3.96	1.49	2.11
Minnesota	6.00	14.53	13.90	32.52	4.75	2.18	-0.17	0.27
Mississippi	15.59	33.61	31.88	67.75	9.15	4.60	2.38	3.03
Missouri	12.24	27.68	25.19	55.71	7.79	3.94	1.63	2.33
Montana	8.12	18.59	19.64	45.51	6.60	2.67	0.85	1.31
Nebraska	7.73	17.83	17.75	39.48	5.54	2.58	0.58	1.18
Nevada	10.40	23.31	22.86	50.53	7.06	3.29	1.40	2.01
New Hampshire	7.53	18.40	16.74	38.44	5.54	2.77	0.37	1.11
New Jersey	8.38	20.19	17.20	38.75	5.500	3.01	0.47	1.36
New Mexico	9.88	23.05	21.68	48.06	6.73	3.36	1.23	1.73
New York	10.31	24.11	21.33	45.86	6.26	3.52	1.11	1.94
North Carolina	9.63	21.69	20.28	44.53	6.19	3.08	1.03	1.85
North Dakota	6.90	15.88	17.82	38.05	5.16	2.29	0.54	0.78

<b>Ohio</b>	11.59	27.14	23.18	51.64	7.26	3.97	1.39	2.23
<b>Oklahoma</b>	13.96	30.61	26.08	56.69	7.81	4.25	1.76	2.78
<b>Oregon</b>	5.72	13.59	14.74	33.04	4.67	2.01	-0.14	0.16
<b>Pennsylvania</b>	10.18	23.49	20.59	45.07	6.25	3.40	0.99	1.87
<b>Rhode Island</b>	8.92	21.71	18.44	42.75	6.20	3.26	0.79	1.53
<b>South Carolina</b>	10.72	23.33	23.79	49.70	6.61	3.22	1.47	2.11
<b>South Dakota</b>	8.44	18.27	22.46	46.70	6.18	2.51	1.28	1.34
<b>Tennessee</b>	14.11	29.80	28.99	61.46	8.28	4.00	2.19	2.88
<b>Texas</b>	10.03	23.84	22.10	48.52	6.74	3.52	1.22	1.98
<b>Utah</b>	7.57	17.60	13.60	32.70	4.87	2.56	-0.19	1.04
<b>Vermont</b>	8.15	18.11	19.49	41.51	5.62	2.54	0.75	1.26
<b>Virginia</b>	9.25	21.44	18.33	39.66	5.44	3.11	0.65	1.64
<b>Washington</b>	6.71	16.17	15.48	33.87	4.69	2.41	0.06	0.64
<b>West Virginia</b>	15.20	34.83	27.48	57.87	7.75	5.01	2.00	2.85
<b>Wisconsin</b>	8.75	19.61	19.16	42.13	5.86	2.77	0.74	1.42
<b>Wyoming</b>	8.10	18.15	18.30	41.12	5.82	2.56	0.70	1.17

**Table S26. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High systolic blood pressure. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	32.29	52.94	50.79	80.00	7.45	5.27	3.19	4.07
Alaska	17.93	30.67	36.45	59.41	5.86	3.25	1.45	1.30
Arizona	21.97	38.34	36.90	60.50	6.02	4.17	1.51	2.35
Arkansas	32.29	53.53	52.88	85.76	8.39	5.42	3.37	4.06
California	21.89	38.42	35.16	58.75	6.02	4.22	1.31	2.36
Colorado	17.78	30.67	30.08	49.48	4.95	3.29	0.44	1.30
Connecticut	19.52	34.26	32.36	53.86	5.49	3.76	0.90	1.80
Delaware	25.49	43.58	39.39	64.78	6.48	4.62	1.94	3.03
District of Columbia	24.84	42.61	39.00	64.75	6.57	4.53	1.83	2.87
Florida	22.38	39.10	37.30	60.58	5.94	4.27	1.56	2.39
Georgia	25.88	42.31	40.19	65.78	6.53	4.19	1.99	3.12
Hawaii	13.38	23.95	27.89	46.82	4.83	2.70	0.00	0.00
Idaho	20.80	35.04	37.24	60.82	6.01	3.63	1.54	2.06
Illinois	24.75	42.11	40.25	66.31	6.65	4.43	2.06	2.85
Indiana	27.67	45.86	46.03	74.16	7.18	4.64	2.67	3.41
Iowa	24.43	41.50	41.36	67.81	6.75	4.36	2.11	2.85
Kansas	23.21	38.97	38.17	63.51	6.47	4.02	1.75	2.59
Kentucky	30.33	49.28	50.43	81.69	7.98	4.83	3.12	3.88
Louisiana	30.41	50.21	49.25	78.13	7.37	5.05	3.03	3.80
Maine	21.07	35.07	33.62	55.55	5.59	3.57	1.09	2.09
Maryland	24.64	42.30	37.52	61.45	6.11	4.51	1.65	2.83
Massachusetts	19.66	33.77	34.87	56.81	5.60	3.60	1.22	1.78
Michigan	29.84	49.58	48.17	77.20	7.41	5.04	2.94	3.71
Minnesota	14.12	24.83	28.33	46.79	4.71	2.73	0.10	0.18
Mississippi	33.24	53.82	53.00	84.44	8.02	5.25	3.37	4.27
Missouri	29.52	48.86	46.72	76.12	7.50	4.93	2.79	3.65
Montana	18.49	32.11	35.24	58.46	5.92	3.47	1.27	1.53
Nebraska	19.52	33.01	34.38	55.90	5.49	3.44	1.11	1.77
Nevada	26.66	43.98	41.12	68.08	6.88	4.42	2.19	3.24
New Hampshire	21.07	35.18	34.76	58.06	5.94	3.60	1.26	2.15
New Jersey	24.80	43.32	39.77	64.84	6.40	4.73	1.94	2.85
New Mexico	21.89	37.58	34.15	57.24	5.89	4.00	1.15	2.34
New York	28.98	49.87	43.05	72.04	7.39	5.33	2.41	3.62
North Carolina	24.22	40.62	39.46	65.30	6.59	4.18	1.92	2.74
North Dakota	19.19	33.19	36.16	60.41	6.19	3.57	1.49	1.64

<b>Ohio</b>	28.84	47.46	45.15	73.82	7.31	4.75	2.60	3.61
<b>Oklahoma</b>	35.93	58.45	56.58	90.24	8.58	5.75	3.69	4.61
<b>Oregon</b>	16.69	28.16	31.52	51.93	5.21	2.93	0.71	0.96
<b>Pennsylvania</b>	25.62	43.33	43.32	69.50	6.68	4.52	2.35	3.02
<b>Rhode Island</b>	26.34	44.45	40.77	67.21	6.75	4.62	2.10	3.18
<b>South Carolina</b>	25.69	42.78	44.76	72.12	6.98	4.36	2.55	3.05
<b>South Dakota</b>	20.90	35.90	38.73	64.61	6.60	3.83	1.89	2.09
<b>Tennessee</b>	33.33	53.66	52.06	84.23	8.21	5.18	3.28	4.26
<b>Texas</b>	25.66	42.76	40.22	66.28	6.65	4.36	1.97	3.07
<b>Utah</b>	21.09	36.19	31.60	52.26	5.27	3.85	0.71	2.18
<b>Vermont</b>	19.46	33.77	35.25	58.21	5.86	3.65	1.33	1.77
<b>Virginia</b>	22.44	38.52	37.45	59.07	5.51	4.10	1.55	2.43
<b>Washington</b>	18.92	32.53	33.53	55.73	5.66	3.47	1.03	1.61
<b>West Virginia</b>	34.19	56.11	51.16	83.55	8.26	5.59	3.20	4.36
<b>Wisconsin</b>	21.55	36.93	38.77	63.37	6.27	3.92	1.80	2.22
<b>Wyoming</b>	20.04	33.94	36.32	60.91	6.27	3.54	1.49	1.89

**Table S27. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High systolic blood pressure, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	24.43	47.06	42.69	78.36	9.10	5.77	2.44	3.26
Alaska	12.51	23.98	27.71	55.76	7.16	2.93	0.87	0.69
Arizona	17.20	32.73	30.26	60.83	7.80	3.96	1.22	1.94
Arkansas	29.02	54.39	46.17	89.40	11.03	6.47	2.79	3.64
California	15.64	31.43	27.6	55.72	7.17	4.03	0.86	1.52
Colorado	13.39	26.28	23.98	47.50	6.00	3.29	0.28	0.96
Connecticut	15.57	31.39	26.33	54.08	7.08	4.03	0.66	1.60
Delaware	18.70	35.74	33.39	60.55	6.93	4.35	1.57	2.23
District of Columbia	18.88	36.76	30.17	62.35	8.21	4.56	1.22	2.23
Florida	17.80	34.54	31.99	60.31	7.22	4.27	1.36	2.07
Georgia	20.01	36.98	31.95	64.16	8.22	4.33	1.49	2.51
Hawaii	10.42	20.80	21.77	44.56	5.81	2.65	0.00	0.00
Idaho	16.33	29.92	29.19	57.37	7.19	3.47	1.07	1.65
Illinois	18.95	36.14	31.39	64.06	8.33	4.38	1.43	2.35
Indiana	22.43	41.46	37.48	73.96	9.31	4.86	2.03	3.02
Iowa	19.50	38.42	35.88	70.88	8.93	4.83	1.85	2.30
Kansas	21.63	39.69	35.96	70.56	8.83	4.61	1.85	2.82
Kentucky	25.74	47.37	41.78	78.98	9.49	5.52	2.46	3.26
Louisiana	26.08	49.39	43.83	80.25	9.29	5.95	2.66	3.41
Maine	16.87	32.36	30.28	58.73	7.26	3.95	1.13	1.92
Maryland	19.11	36.82	28.98	58.07	7.42	4.52	1.14	2.20
Massachusetts	13.96	27.01	24.64	48.43	6.07	3.33	0.37	1.04
Michigan	21.26	41.68	38.33	74.33	9.18	5.21	2.03	2.71
Minnesota	12.02	23.87	22.80	47.85	6.39	3.02	0.22	0.57
Mississippi	27.02	50.15	48.06	90.18	10.74	5.90	2.86	3.47
Missouri	22.05	43.52	39.38	73.54	8.72	5.48	2.25	2.76
Montana	16.69	31.50	30.26	61.70	8.02	3.78	1.23	1.90
Nebraska	16.28	31.67	29.61	58.27	7.31	3.93	1.14	1.79
Nevada	21.43	39.38	36.78	73.65	9.40	4.58	1.96	2.79
New Hampshire	17.40	33.38	28.38	56.87	7.27	4.08	0.98	1.99
New Jersey	17.17	35.72	28.88	57.82	7.38	4.73	1.05	1.92
New Mexico	19.08	37.21	33.99	64.97	7.90	4.63	1.64	2.33
New York	21.24	42.27	33.80	66.31	8.29	5.37	1.68	2.60
North Carolina	18.57	35.21	32.19	61.45	7.47	4.24	1.44	2.17
North Dakota	13.71	28.18	28.17	54.00	6.59	3.69	0.88	1.07

<b>Ohio</b>	23.23	43.72	38.19	73.67	9.05	5.22	2.04	3.03
<b>Oklahoma</b>	25.45	49.81	41.80	78.26	9.30	6.21	2.35	3.17
<b>Oregon</b>	12.07	23.96	24.41	48.52	6.15	3.03	0.40	0.53
<b>Pennsylvania</b>	19.54	38.00	34.00	64.30	7.73	4.71	1.66	2.40
<b>Rhode Island</b>	19.05	37.76	33.47	66.58	8.45	4.77	1.56	2.37
<b>South Carolina</b>	20.63	38.72	35.93	69.00	8.44	4.61	1.84	2.56
<b>South Dakota</b>	15.76	30.28	35.12	67.16	8.17	3.70	1.73	1.63
<b>Tennessee</b>	25.62	48.84	44.70	83.13	9.80	5.92	2.74	3.27
<b>Texas</b>	20.42	38.82	35.86	67.22	8.00	4.69	1.81	2.56
<b>Utah</b>	16.92	32.63	25.50	50.61	6.41	4.01	0.50	1.89
<b>Vermont</b>	16.13	31.19	31.73	60.14	7.25	3.84	1.35	1.82
<b>Virginia</b>	17.26	35.21	28.48	56.08	7.04	4.58	1.02	1.99
<b>Washington</b>	14.01	27.35	26.05	50.60	6.26	3.40	0.63	1.12
<b>West Virginia</b>	29.35	56.38	41.62	80.30	9.87	6.90	2.41	3.56
<b>Wisconsin</b>	18.03	33.33	31.68	62.77	7.93	3.90	1.37	1.97
<b>Wyoming</b>	15.67	29.67	28.95	55.78	6.85	3.57	1.09	1.59

**Table S28. : Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High body-mass index. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	5.93	23.87	11.99	44.54	8.30	4.58	1.52	1.95
Alaska	3.11	12.71	8.28	31.99	6.05	2.45	0.80	0.92
Arizona	3.44	14.73	7.61	30.52	5.84	2.88	0.63	1.08
Arkansas	6.13	24.40	12.72	48.17	9.04	4.66	1.66	1.98
California	3.34	14.49	6.94	27.89	5.34	2.84	0.46	1.04
Colorado	2.48	10.68	5.59	22.96	4.43	2.09	-0.02	0.48
Connecticut	2.97	13.07	6.56	26.08	4.98	2.58	0.32	0.85
Delaware	4.18	17.96	9.11	35.54	6.74	3.52	0.98	1.50
District of Columbia	5.11	20.04	8.07	32.50	6.23	3.81	0.79	1.77
Florida	3.49	14.70	7.98	30.45	5.73	2.86	0.70	1.16
Georgia	4.52	18.16	8.97	34.62	6.54	3.48	0.96	1.54
Hawaii	2.00	8.58	5.72	22.29	4.23	1.68	0.00	0.00
Idaho	3.26	13.69	7.92	31.05	5.90	2.66	0.74	1.00
Illinois	4.31	17.39	9.02	35.77	6.82	3.34	0.97	1.49
Indiana	5.08	20.39	10.56	40.46	7.63	3.91	1.30	1.72
Iowa	4.29	17.85	9.53	38.09	7.29	3.46	1.12	1.49
Kansas	3.96	16.00	8.98	34.52	6.51	3.07	0.93	1.34
Kentucky	5.50	22.73	12.08	45.48	8.52	4.39	1.57	1.84
Louisiana	6.14	24.02	11.83	44.17	8.25	4.56	1.51	2.06
Maine	3.33	13.57	7.34	28.61	5.43	2.61	0.54	1.00
Maryland	4.38	18.19	8.06	31.82	6.06	3.52	0.77	1.50
Massachusetts	2.91	12.76	6.96	27.73	5.30	2.51	0.46	0.80
Michigan	5.64	22.36	10.75	42.26	8.04	4.27	1.36	1.90
Minnesota	2.27	9.81	6.32	25.27	4.84	1.92	0.22	0.26
Mississippi	6.61	25.68	12.75	47.51	8.87	4.87	1.67	2.14
Missouri	5.41	21.46	11.24	42.44	7.96	4.09	1.39	1.85
Montana	3.08	12.96	7.49	30.59	5.90	2.52	0.61	0.85
Nebraska	3.20	13.31	7.67	29.95	5.69	2.58	0.66	0.96
Nevada	4.04	17.13	8.50	34.42	6.61	3.34	0.94	1.35
New Hampshire	3.09	13.30	7.05	28.92	5.58	2.61	0.50	0.89
New Jersey	4.09	17.16	8.32	32.72	6.22	3.34	0.81	1.37
New Mexico	3.36	14.26	6.76	27.13	5.20	2.78	0.40	1.07
New York	4.76	19.92	8.93	36.46	7.02	3.87	0.97	1.62
North Carolina	4.30	17.46	9.27	35.49	6.69	3.36	1.02	1.48
North Dakota	3.30	14.10	9.17	34.85	6.55	2.76	0.95	1.01

<b>Ohio</b>	5.04	20.89	10.39	40.37	7.65	4.04	1.26	1.72
<b>Oklahoma</b>	6.51	26.47	12.58	48.59	9.19	5.09	1.65	2.08
<b>Oregon</b>	2.63	11.09	6.50	25.78	4.92	2.16	0.29	0.55
<b>Pennsylvania</b>	4.54	18.62	9.26	36.86	7.04	3.59	1.07	1.56
<b>Rhode Island</b>	4.09	17.60	8.11	33.46	6.47	3.45	0.80	1.41
<b>South Carolina</b>	4.74	18.94	10.20	39.84	7.56	3.62	1.24	1.66
<b>South Dakota</b>	3.65	14.76	8.93	35.55	6.79	2.84	0.98	1.17
<b>Tennessee</b>	5.77	23.84	11.86	45.72	8.64	4.61	1.53	1.91
<b>Texas</b>	4.53	18.66	8.86	34.65	6.58	3.60	0.97	1.57
<b>Utah</b>	3.09	13.19	6.45	25.07	4.75	2.58	0.25	0.87
<b>Vermont</b>	2.91	12.86	7.35	29.01	5.52	2.54	0.54	0.83
<b>Virginia</b>	3.77	16.02	7.89	30.23	5.70	3.12	0.69	1.31
<b>Washington</b>	3.00	12.90	6.94	27.76	5.31	2.53	0.43	0.82
<b>West Virginia</b>	6.29	24.58	12.30	45.41	8.44	4.66	1.60	2.07
<b>Wisconsin</b>	3.76	15.24	8.48	33.77	6.45	2.93	0.87	1.25
<b>Wyoming</b>	3.30	13.76	7.89	31.22	5.95	2.67	0.72	1.02

**Table S29. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High body-mass index. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	5.26	21.94	10.78	42.63	8.13	4.25	1.45	1.91
Alaska	2.56	10.28	6.95	28.36	5.46	1.97	0.51	0.69
Arizona	3.15	13.62	6.84	29.11	5.68	2.67	0.61	1.10
Arkansas	6.28	25.97	13.13	50.91	9.64	5.02	1.73	2.15
California	2.86	11.92	6.46	26.63	5.15	2.31	0.37	0.88
Colorado	2.02	9.47	4.87	21.78	4.31	1.90	-0.13	0.34
Connecticut	2.76	11.56	5.88	25.13	4.91	2.24	0.29	0.89
Delaware	3.63	15.41	8.17	32.01	6.08	3.01	0.87	1.41
District of Columbia	4.15	17.36	7.56	31.27	6.05	3.37	0.72	1.60
Florida	3.24	13.73	7.39	30.59	5.92	2.68	0.72	1.19
Georgia	4.10	16.28	8.34	33.80	6.50	3.11	0.95	1.62
Hawaii	1.77	7.89	5.39	22.19	4.28	1.56	0.00	0.00
Idaho	2.82	12.13	6.52	27.97	5.47	2.38	0.50	0.91
Illinois	4.04	15.96	8.50	31.84	5.95	3.04	0.92	1.43
Indiana	4.80	19.00	10.00	39.13	7.43	3.62	1.22	1.78
Iowa	4.07	16.76	9.66	39.48	7.61	3.24	1.20	1.48
Kansas	4.34	16.75	9.22	36.44	6.95	3.17	1.11	1.65
Kentucky	5.37	21.56	11.69	44.66	8.41	4.13	1.51	1.96
Louisiana	5.90	23.85	10.72	43.57	8.38	4.58	1.47	2.05
Maine	2.97	12.86	7.39	29.12	5.54	2.52	0.60	1.06
Maryland	3.81	16.18	7.34	29.54	5.66	3.16	0.64	1.36
Massachusetts	2.43	10.39	5.43	22.66	4.40	2.03	0.01	0.58
Michigan	4.72	19.01	10.25	39.14	7.37	3.65	1.26	1.80
Minnesota	2.20	9.86	5.61	25.05	4.96	1.95	0.23	0.46
Mississippi	6.35	25.30	13.11	51.76	9.86	4.83	1.68	2.18
Missouri	4.97	19.48	10.21	41.41	7.96	3.70	1.29	1.83
Montana	3.03	12.77	7.92	31.66	6.06	2.49	0.78	1.07
Nebraska	3.07	13.01	8.01	30.80	5.81	2.54	0.78	1.14
Nevada	3.67	15.76	9.30	36.32	6.89	3.08	1.08	1.43
New Hampshire	2.87	12.29	6.56	27.43	5.32	2.40	0.45	0.99
New Jersey	3.18	13.50	6.60	27.04	5.21	2.63	0.50	1.11
New Mexico	3.45	15.38	7.69	33.07	6.47	3.04	0.86	1.30
New York	3.80	16.46	7.97	32.65	6.30	3.23	0.83	1.41
North Carolina	3.82	15.59	8.54	33.57	6.39	3.00	0.96	1.52
North Dakota	2.86	11.29	7.52	29.13	5.51	2.15	0.73	0.90

<b>Ohio</b>	4.83	19.84	9.95	39.36	7.50	3.83	1.24	1.79
<b>Oklahoma</b>	5.62	22.54	10.70	43.07	8.26	4.32	1.36	1.98
<b>Oregon</b>	2.23	9.31	5.79	23.43	4.50	1.80	0.13	0.38
<b>Pennsylvania</b>	3.98	16.47	7.64	34.08	6.74	3.19	0.89	1.54
<b>Rhode Island</b>	3.51	14.41	7.51	30.69	5.91	2.78	0.72	1.26
<b>South Carolina</b>	4.37	17.29	9.02	37.03	7.14	3.30	1.13	1.65
<b>South Dakota</b>	3.13	12.92	9.44	36.28	6.85	2.50	1.14	1.15
<b>Tennessee</b>	5.23	21.12	11.55	45.72	8.72	4.05	1.56	1.98
<b>Texas</b>	4.31	17.26	9.02	35.17	6.67	3.31	1.10	1.66
<b>Utah</b>	2.77	12.10	5.74	24.02	4.66	2.38	0.12	0.88
<b>Vermont</b>	2.92	12.58	7.40	30.07	5.78	2.47	0.63	1.05
<b>Virginia</b>	3.50	15.47	7.61	29.12	5.49	3.05	0.65	1.36
<b>Washington</b>	2.49	11.12	6.18	24.45	4.66	2.20	0.29	0.70
<b>West Virginia</b>	6.04	25.23	11.45	45.48	8.68	4.90	1.55	2.16
<b>Wisconsin</b>	3.59	13.98	7.90	32.10	6.17	2.65	0.81	1.27
<b>Wyoming</b>	2.90	12.35	7.32	30.51	5.92	2.41	0.68	0.95

**Table S30. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High fasting plasma glucose. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	13.64	19.00	27.81	37.21	2.40	1.37	5.33	5.85
Alaska	7.29	10.86	19.13	26.52	1.89	0.91	2.21	1.63
Arizona	8.39	12.64	19.81	26.82	1.79	1.08	2.47	2.60
Arkansas	12.78	18.2	28.33	37.7	2.39	1.38	5.55	5.20
California	8.16	12.30	18.70	25.27	1.68	1.06	2.05	2.49
Colorado	5.97	9.10	15.33	20.86	1.41	0.80	0.31	0.43
Connecticut	7.54	11.61	17.94	24.61	1.70	1.04	1.69	2.05
Delaware	10.98	16.06	23.16	31.61	2.16	1.30	3.78	4.29
District of Columbia	10.21	14.82	19.84	27.32	1.91	1.17	2.53	3.84
Florida	8.91	13.31	20.69	27.83	1.82	1.12	2.92	2.97
Georgia	10.62	15.37	22.92	30.84	2.02	1.21	3.73	4.20
Hawaii	5.56	8.44	14.67	20.49	1.48	0.73	0.00	0.00
Idaho	7.98	11.84	19.58	26.67	1.81	0.98	2.42	2.33
Illinois	9.97	14.20	22.26	29.45	1.83	1.08	3.48	3.82
Indiana	11.83	16.98	25.74	35.36	2.45	1.31	4.63	4.83
Iowa	9.55	14.16	22.68	30.40	1.97	1.18	3.65	3.36
Kansas	9.29	13.45	21.43	28.49	1.80	1.06	3.19	3.34
Kentucky	12.93	18.26	28.84	38.62	2.50	1.36	5.56	5.42
Louisiana	13.62	18.99	27.45	36.90	2.41	1.37	5.14	5.94
Maine	8.25	12.47	19.35	26.61	1.85	1.08	2.33	2.51
Maryland	10.12	15.02	21.35	29.30	2.03	1.25	3.09	3.90
Massachusetts	7.51	11.40	19.47	26.25	1.73	0.99	2.27	1.92
Michigan	13.01	18.62	27.32	36.93	2.45	1.43	5.08	5.40
Minnesota	5.25	8.23	15.38	21.03	1.44	0.76	0.41	-0.29
Mississippi	14.04	19.34	28.18	37.85	2.47	1.35	5.42	6.19
Missouri	12.33	17.55	26.43	35.27	2.25	1.33	4.97	5.15
Montana	7.10	10.55	18.82	25.78	1.77	0.88	2.05	1.55
Nebraska	7.65	11.30	18.96	25.84	1.76	0.93	2.14	2.03
Nevada	10.31	15.04	23.25	31.28	2.05	1.20	3.88	3.94
New Hampshire	8.12	12.22	20.27	28.04	1.98	1.05	2.65	2.40
New Jersey	9.89	14.92	21.49	29.45	2.03	1.28	3.24	3.57
New Mexico	8.89	13.28	18.98	26.10	1.82	1.12	2.11	2.98
New York	12.15	18.09	25.18	34.25	2.31	1.52	4.45	4.82
North Carolina	10.14	15.05	23.34	31.20	2.01	1.25	3.86	3.79
North Dakota	7.63	11.63	20.80	28.94	2.08	1.02	3.01	2.08

<b>Ohio</b>	12.43	17.91	26.21	35.60	2.40	1.40	4.76	5.07
<b>Oklahoma</b>	14.74	21.00	31.04	41.40	2.64	1.60	6.16	6.17
<b>Oregon</b>	6.03	9.02	16.52	22.7	1.58	0.76	0.95	0.34
<b>Pennsylvania</b>	10.39	15.39	23.43	31.74	2.12	1.28	3.84	3.93
<b>Rhode Island</b>	10.13	15.17	22.49	30.79	2.12	1.29	3.56	3.76
<b>South Carolina</b>	10.74	15.4	25.01	33.67	2.21	1.19	4.44	4.25
<b>South Dakota</b>	7.80	11.95	21.58	29.56	2.04	1.06	3.17	2.17
<b>Tennessee</b>	13.61	19.24	28.90	39.23	2.63	1.44	5.44	5.72
<b>Texas</b>	10.58	15.26	22.51	30.08	1.93	1.20	3.55	4.09
<b>Utah</b>	8.25	12.39	17.27	23.21	1.51	1.05	1.30	2.45
<b>Vermont</b>	7.27	11.01	18.79	25.91	1.82	0.95	2.15	1.65
<b>Virginia</b>	9.54	14.12	20.55	27.78	1.85	1.17	2.81	3.38
<b>Washington</b>	6.86	10.33	17.81	23.90	1.55	0.89	1.59	1.29
<b>West Virginia</b>	15.14	21.22	30.01	41.15	2.84	1.55	5.66	6.43
<b>Wisconsin</b>	8.54	12.56	20.86	28.14	1.86	1.03	2.94	2.76
<b>Wyoming</b>	7.42	11.15	18.98	26.33	1.87	0.95	2.12	1.77

**Table S31. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to High fasting plasma glucose. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	10.93	17.51	23.54	37.70	3.61	1.68	3.40	4.17
Alaska	5.68	8.94	16.30	25.67	2.39	0.83	1.37	0.84
Arizona	7.31	11.89	17.88	28.98	2.83	1.17	1.89	2.25
Arkansas	12.18	19.36	26.84	43.52	4.26	1.83	3.83	4.72
California	6.50	10.8	16.18	25.98	2.50	1.10	1.38	1.69
Colorado	5.01	8.59	13.41	21.55	2.08	0.91	0.26	0.40
Connecticut	6.69	11.53	16.00	26.51	2.68	1.24	1.29	1.86
Delaware	8.84	13.54	21.00	32.73	2.99	1.20	2.71	3.31
District of Columbia	8.18	13.32	16.12	27.06	2.79	1.31	1.44	2.82
Florida	7.52	12.65	18.88	29.99	2.83	1.31	2.27	2.40
Georgia	8.88	14.26	19.97	31.94	3.05	1.37	2.50	3.26
Hawaii	4.65	7.86	12.07	20.80	2.23	0.82	0.00	0.00
Idaho	6.69	10.92	16.66	27.31	2.72	1.08	1.50	1.79
Illinois	8.01	13.34	18.73	30.93	3.11	1.36	2.09	2.67
Indiana	10.33	16.54	23.45	37.43	3.57	1.58	3.32	3.95
Iowa	8.27	13.84	21.38	34.53	3.35	1.42	2.86	2.77
Kansas	8.95	14.96	21.62	35.00	3.41	1.53	2.85	3.21
Kentucky	11.26	17.85	24.38	40.67	4.16	1.68	3.36	4.32
Louisiana	12.29	19.40	26.41	41.29	3.80	1.81	3.89	4.73
Maine	7.27	12.33	18.07	30.52	3.18	1.29	1.93	2.22
Maryland	8.10	14.07	18.71	30.24	2.94	1.52	2.07	2.74
Massachusetts	5.57	9.84	14.72	24.39	2.47	1.09	0.87	1.01
Michigan	10.59	17.24	23.61	37.89	3.64	1.70	3.37	3.97
Minnesota	5.24	8.66	13.80	23.10	2.37	0.87	0.58	0.53
Mississippi	12.03	18.94	27.31	43.17	4.04	1.76	4.00	4.60
Missouri	10.16	16.37	23.48	38.10	3.73	1.58	3.23	3.83
Montana	7.03	10.91	17.85	29.09	2.87	0.99	1.82	2.13
Nebraska	7.20	11.61	17.83	28.97	2.84	1.13	1.91	2.14
Nevada	9.00	14.41	21.84	35.42	3.46	1.38	3.03	3.34
New Hampshire	7.42	12.38	17.81	29.94	3.10	1.26	1.90	2.30
New Jersey	7.46	13.06	17.45	29.29	3.02	1.43	1.84	2.42
New Mexico	8.41	14.16	20.17	32.76	3.21	1.47	2.48	2.94
New York	9.05	16.20	21.77	36.21	3.68	1.82	2.80	3.27
North Carolina	8.29	13.76	19.59	31.96	3.15	1.39	2.39	2.87
North Dakota	6.22	10.50	18.16	27.70	2.44	1.09	1.91	1.55

<b>Ohio</b>	10.48	17.47	23.93	37.93	3.57	1.78	3.37	3.88
<b>Oklahoma</b>	11.42	18.69	24.58	39.18	3.72	1.85	3.48	4.22
<b>Oregon</b>	4.87	8.30	13.91	23.22	2.38	0.88	0.56	0.18
<b>Pennsylvania</b>	8.85	14.55	20.00	32.58	3.21	1.45	2.45	3.20
<b>Rhode Island</b>	8.34	13.81	19.82	34.18	3.66	1.39	2.28	2.96
<b>South Carolina</b>	8.95	14.48	21.27	34.01	3.25	1.41	2.79	3.22
<b>South Dakota</b>	6.74	10.82	20.44	33.41	3.31	1.04	2.55	1.89
<b>Tennessee</b>	11.45	18.09	26.78	43.35	4.23	1.69	3.79	4.44
<b>Texas</b>	9.06	14.81	21.06	34.59	3.45	1.47	2.57	3.30
<b>Utah</b>	7.35	11.62	14.70	24.57	2.52	1.09	0.87	2.29
<b>Vermont</b>	7.17	11.37	18.60	28.11	2.43	1.07	2.10	2.15
<b>Virginia</b>	8.02	13.27	17.40	28.87	2.93	1.34	1.79	2.75
<b>Washington</b>	5.62	9.68	14.59	23.77	2.34	1.04	0.91	1.02
<b>West Virginia</b>	14.00	21.93	26.70	43.05	4.17	2.02	3.82	5.26
<b>Wisconsin</b>	7.32	12.28	18.04	29.89	3.03	1.27	1.95	2.29
<b>Wyoming</b>	6.54	10.37	16.87	26.53	2.46	0.98	1.47	1.69

**Table S32. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Tobacco. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	10.98	16.42	31.42	43.97	3.20	1.39	4.92	5.34
Alaska	6.14	9.91	20.46	30.40	2.54	0.96	1.82	2.40
Arizona	6.65	10.64	18.92	27.77	2.26	1.02	1.27	2.87
Arkansas	12.05	18.28	36.49	51.43	3.81	1.59	5.64	5.77
California	5.18	8.64	16.33	24.88	2.18	0.88	0.27	1.52
Colorado	4.52	7.44	13.73	20.46	1.72	0.75	-1.03	0.82
Connecticut	5.02	8.32	15.33	23.40	2.06	0.84	-0.21	1.38
Delaware	8.05	13.00	21.31	31.58	2.62	1.26	2.07	3.73
District of Columbia	9.08	13.94	21.88	31.96	2.57	1.24	2.22	4.46
Florida	6.58	10.72	19.08	27.75	2.21	1.06	1.28	2.77
Georgia	7.77	12.34	22.95	32.90	2.54	1.16	2.59	3.62
Hawaii	4.00	6.51	16.16	23.42	1.85	0.64	0.00	0.00
Idaho	5.39	9.05	17.80	26.42	2.20	0.94	0.78	1.69
Illinois	7.41	11.82	21.24	30.99	2.49	1.12	2.01	3.27
Indiana	9.02	13.57	28.03	39.69	2.98	1.16	3.99	4.70
Iowa	6.66	10.04	22.21	31.98	2.49	0.86	2.34	2.98
Kansas	6.36	9.79	20.91	30.06	2.33	0.87	1.94	2.73
Kentucky	11.83	17.52	35.60	49.72	3.60	1.45	5.64	5.93
Louisiana	11.92	17.92	31.38	43.75	3.16	1.53	4.87	5.77
Maine	5.47	8.84	18.44	26.91	2.16	0.86	1.03	1.86
Maryland	7.19	11.27	18.84	27.68	2.25	1.04	1.16	3.29
Massachusetts	5.49	9.37	16.66	24.46	1.99	0.99	0.27	1.82
Michigan	9.55	14.53	26.61	37.75	2.84	1.27	3.68	4.79
Minnesota	3.70	6.01	14.12	20.83	1.71	0.59	-0.91	-0.39
Mississippi	11.76	17.50	36.04	50.48	3.68	1.46	5.69	5.95
Missouri	10.71	16.35	29.60	43.14	3.45	1.44	4.11	5.26
Montana	5.88	9.19	19.62	29.01	2.39	0.85	1.42	2.24
Nebraska	4.44	7.17	16.82	24.69	2.01	0.70	0.28	0.63
Nevada	10.14	16.32	25.08	36.73	2.97	1.58	3.15	4.67
New Hampshire	5.49	9.27	16.51	25.08	2.19	0.96	0.37	1.71
New Jersey	6.68	10.65	17.23	26.33	2.32	1.01	0.65	2.83
New Mexico	6.07	9.73	18.59	27.48	2.27	0.93	1.14	2.41
New York	8.05	13.21	19.99	29.96	2.54	1.32	1.60	3.61
North Carolina	7.83	11.94	24.84	35.43	2.70	1.05	3.08	3.76
North Dakota	5.35	8.24	19.82	28.68	2.26	0.74	1.53	1.63

<b>Ohio</b>	9.04	13.69	24.99	36.02	2.81	1.19	3.15	4.53
<b>Oklahoma</b>	13.07	19.42	34.83	49.94	3.85	1.62	5.33	6.29
<b>Oregon</b>	4.79	7.71	15.35	22.43	1.81	0.75	-0.26	1.08
<b>Pennsylvania</b>	7.50	11.49	22.67	32.45	2.50	1.02	2.50	3.58
<b>Rhode Island</b>	7.43	12.03	19.84	29.67	2.51	1.17	1.63	3.40
<b>South Carolina</b>	8.28	12.34	27.83	39.48	2.97	1.03	3.91	4.18
<b>South Dakota</b>	5.47	8.58	21.84	32.16	2.63	0.79	2.18	1.73
<b>Tennessee</b>	11.87	17.66	33.76	47.51	3.51	1.48	5.24	5.98
<b>Texas</b>	7.34	11.55	20.95	30.05	2.32	1.07	1.96	3.38
<b>Utah</b>	2.85	4.94	10.29	16.01	1.46	0.53	-2.82	-1.60
<b>Vermont</b>	4.84	7.92	16.64	25.72	2.32	0.79	0.41	1.10
<b>Virginia</b>	6.85	10.77	20.18	29.18	2.30	1.00	1.72	2.95
<b>Washington</b>	4.74	7.74	14.88	22.36	1.91	0.77	-0.44	1.08
<b>West Virginia</b>	12.52	18.94	35.36	49.23	3.54	1.64	5.63	5.99
<b>Wisconsin</b>	5.65	9.10	18.74	27.77	2.30	0.88	1.17	1.95
<b>Wyoming</b>	6.51	10.38	21.18	31.55	2.64	0.99	1.96	2.69

**Table S33. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Tobacco, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	7.34	13.18	22.78	39.88	4.36	1.49	2.99	4.10
Alaska	4.39	7.60	14.65	24.81	2.59	0.82	1.03	2.14
Arizona	4.63	8.69	14.67	25.38	2.73	1.04	1.07	2.36
Arkansas	10.49	18.47	29.66	51.58	5.59	2.04	4.02	5.07
California	3.49	6.77	12.15	21.42	2.37	0.84	0.28	1.31
Colorado	2.85	5.70	9.73	17.50	1.98	0.73	-0.76	0.56
Connecticut	3.56	6.81	10.85	20.34	2.42	0.83	-0.11	1.37
Delaware	5.75	10.10	16.24	26.50	2.62	1.11	1.49	3.15
District of Columbia	6.61	12.01	16.65	31.01	3.66	1.38	1.72	3.57
Florida	4.84	9.43	15.19	25.78	2.70	1.17	1.21	2.49
Georgia	5.77	10.45	17.64	30.93	3.39	1.19	1.97	3.28
Hawaii	2.65	4.88	11.46	20.81	2.39	0.57	0.00	0.00
Idaho	4.01	7.54	11.75	21.47	2.48	0.90	0.19	1.82
Illinois	5.01	9.48	15.15	27.04	3.03	1.14	1.21	2.63
Indiana	6.69	12.11	19.91	34.64	3.76	1.38	2.61	3.60
Iowa	4.97	9.11	17.76	32.57	3.78	1.06	1.84	2.68
Kansas	5.48	9.96	18.11	32.41	3.65	1.14	1.89	3.08
Kentucky	9.46	16.67	27.12	47.07	5.09	1.84	3.51	4.65
Louisiana	9.13	16.63	24.88	42.87	4.59	1.91	3.33	4.43
Maine	4.19	7.74	14.28	25.92	2.97	0.91	1.00	2.07
Maryland	5.00	9.68	13.72	24.10	2.65	1.19	0.80	2.45
Massachusetts	3.44	6.92	10.28	18.88	2.19	0.89	-0.59	1.24
Michigan	6.71	12.44	19.39	33.53	3.60	1.46	2.42	3.58
Minnesota	2.80	5.53	9.91	18.58	2.21	0.69	-0.54	0.55
Mississippi	9.31	16.50	30.39	51.47	5.38	1.83	4.07	4.68
Missouri	7.47	13.60	22.28	38.56	4.15	1.56	2.96	4.03
Montana	4.78	8.64	15.72	27.6	3.03	0.98	1.42	2.41
Nebraska	3.70	6.63	13.01	23.08	2.57	0.75	0.56	1.43
Nevada	7.34	13.64	20.01	34.79	3.77	1.61	2.49	3.75
New Hampshire	3.89	7.68	12.04	22.41	2.65	0.97	0.32	1.73
New Jersey	4.18	8.27	11.69	21.64	2.54	1.04	0.12	2.00
New Mexico	5.11	9.66	17.14	31.7	3.71	1.16	1.78	2.68
New York	5.16	10.13	14.68	26.32	2.97	1.27	1.06	2.72
North Carolina	5.43	10.01	17.35	30.83	3.44	1.17	1.88	2.84
North Dakota	3.44	6.36	13.72	24.21	2.68	0.75	0.79	1.07
Ohio	6.98	12.36	18.78	33.11	3.66	1.37	2.23	3.87

<b>Oklahoma</b>	8.04	14.31	22.72	38.93	4.13	1.60	2.97	4.33
<b>Oregon</b>	3.24	6.16	10.78	19.70	2.28	0.74	-0.26	0.94
<b>Pennsylvania</b>	5.41	10.07	16.05	28.74	3.24	1.19	1.42	2.94
<b>Rhode Island</b>	4.71	9.33	14.08	25.72	2.97	1.18	0.92	2.32
<b>South Carolina</b>	5.66	10.12	19.54	34.83	3.90	1.14	2.29	3.19
<b>South Dakota</b>	4.40	7.75	18.51	31.53	3.32	0.86	2.20	2.13
<b>Tennessee</b>	9.08	16.35	26.18	44.87	4.77	1.85	3.72	4.40
<b>Texas</b>	5.18	9.73	16.73	28.48	3.00	1.16	1.63	2.77
<b>Utah</b>	2.06	3.94	7.20	13.50	1.61	0.48	-2.02	-1.07
<b>Vermont</b>	4.27	7.50	13.75	23.51	2.49	0.82	0.78	1.98
<b>Virginia</b>	5.02	9.27	15.06	26.27	2.86	1.08	1.16	2.65
<b>Washington</b>	3.34	6.29	10.29	19.21	2.28	0.75	-0.32	0.94
<b>West Virginia</b>	9.70	18.29	25.60	44.36	4.79	2.19	3.57	4.39
<b>Wisconsin</b>	4.15	7.88	13.02	24.33	2.89	0.95	0.73	1.91
<b>Wyoming</b>	4.59	8.23	15.78	26.59	2.76	0.93	1.33	2.36

**Table S34. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Low physical activity, 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.94	5.42	0.45	3.50	0.78	1.14	0.95	1.41
Alaska	0.50	2.81	0.24	2.19	0.50	0.59	0.34	0.65
Arizona	0.58	3.45	0.26	2.55	0.58	0.73	0.50	0.95
Arkansas	1.02	4.85	0.35	2.95	0.66	0.98	0.78	1.58
California	0.49	3.02	0.23	1.85	0.41	0.65	0.20	0.69
Colorado	0.46	2.72	0.20	2.13	0.49	0.58	0.25	0.59
Connecticut	0.54	3.15	0.25	2.13	0.48	0.66	0.40	0.86
Delaware	0.75	4.31	0.35	2.99	0.67	0.91	0.80	1.27
District of Columbia	0.75	3.64	0.36	2.74	0.61	0.74	0.72	1.22
Florida	0.53	3.43	0.27	2.38	0.54	0.74	0.46	0.89
Georgia	0.72	3.82	0.30	2.56	0.58	0.79	0.56	1.19
Hawaii	0.32	1.92	0.17	1.58	0.36	0.41	0.00	0.00
Idaho	0.49	3.11	0.23	2.27	0.52	0.67	0.36	0.75
Illinois	0.54	3.48	0.24	2.42	0.56	0.75	0.44	0.87
Indiana	0.76	4.12	0.36	2.84	0.63	0.86	0.80	1.38
Iowa	0.70	3.92	0.37	2.85	0.63	0.82	0.80	1.27
Kansas	0.73	3.85	0.36	3.02	0.68	0.79	0.82	1.18
Kentucky	0.93	4.73	0.45	3.26	0.72	0.97	1.01	1.43
Louisiana	0.93	4.99	0.54	3.69	0.80	1.04	1.13	1.55
Maine	0.52	3.28	0.25	2.41	0.55	0.71	0.37	0.83
Maryland	0.74	3.83	0.30	2.77	0.63	0.79	0.73	1.23
Massachusetts	0.52	3.05	0.23	2.28	0.52	0.65	0.39	0.78
Michigan	0.82	4.18	0.34	2.95	0.67	0.86	0.72	1.39
Minnesota	0.42	2.50	0.23	2.22	0.51	0.53	0.37	0.43
Mississippi	1.16	5.40	0.48	3.51	0.77	1.08	1.06	1.77
Missouri	0.80	4.54	0.41	3.29	0.73	0.95	0.90	1.37
Montana	0.50	2.66	0.24	2.24	0.51	0.55	0.34	0.66
Nebraska	0.54	3.15	0.30	2.53	0.57	0.66	0.62	0.87
Nevada	0.71	4.17	0.35	3.09	0.70	0.88	0.77	1.15
New Hampshire	0.53	3.15	0.24	2.29	0.52	0.67	0.41	0.81
New Jersey	0.68	4.29	0.33	2.71	0.61	0.92	0.66	1.12
New Mexico	0.54	3.45	0.25	2.14	0.48	0.74	0.44	0.87
New York	0.87	4.83	0.34	3.01	0.68	1.01	0.78	1.40
North Carolina	0.79	3.92	0.37	2.79	0.62	0.80	0.83	1.34
North Dakota	0.56	3.32	0.34	2.87	0.64	0.70	0.80	0.93

<b>Ohio</b>	0.80	4.45	0.39	2.98	0.66	0.93	0.89	1.34
<b>Oklahoma</b>	1.05	5.38	0.48	3.76	0.84	1.11	1.10	1.69
<b>Oregon</b>	0.39	2.33	0.23	1.77	0.39	0.50	0.21	0.38
<b>Pennsylvania</b>	0.64	3.87	0.37	2.94	0.65	0.82	0.78	1.15
<b>Rhode Island</b>	0.71	4.33	0.31	2.90	0.66	0.92	0.75	1.21
<b>South Carolina</b>	0.81	3.97	0.35	2.48	0.54	0.81	0.70	1.30
<b>South Dakota</b>	0.58	3.46	0.37	3.19	0.72	0.73	0.80	1.00
<b>Tennessee</b>	1.13	5.66	0.62	4.29	0.93	1.16	1.28	1.73
<b>Texas</b>	0.75	4.16	0.31	2.68	0.60	0.87	0.67	1.25
<b>Utah</b>	0.58	3.33	0.23	2.23	0.51	0.70	0.34	0.87
<b>Vermont</b>	0.50	3.01	0.20	1.86	0.43	0.64	0.20	0.75
<b>Virginia</b>	0.66	3.49	0.26	2.31	0.52	0.72	0.47	1.07
<b>Washington</b>	0.43	2.71	0.24	2.23	0.51	0.58	0.36	0.58
<b>West Virginia</b>	1.07	5.65	0.45	3.83	0.86	1.17	1.02	1.66
<b>Wisconsin</b>	0.55	3.14	0.24	2.15	0.49	0.66	0.36	0.85
<b>Wyoming</b>	0.49	3.00	0.29	2.34	0.52	0.64	0.55	0.76

**Table S35. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Low physical activity, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.76	5.04	0.37	3.96	0.92	1.09	0.88	1.29
Alaska	0.36	2.49	0.21	2.36	0.55	0.55	0.27	0.35
Arizona	0.51	3.54	0.24	2.96	0.69	0.77	0.47	0.81
Arkansas	0.88	5.73	0.41	4.11	0.94	1.24	0.82	1.40
California	0.38	2.81	0.21	2.29	0.53	0.62	0.18	0.47
Colorado	0.34	2.76	0.17	2.65	0.63	0.62	0.25	0.43
Connecticut	0.45	3.48	0.20	2.79	0.66	0.77	0.33	0.68
Delaware	0.54	4.47	0.32	3.95	0.92	1.00	0.66	0.95
District of Columbia	0.51	3.64	0.32	2.93	0.67	0.80	0.51	0.94
Florida	0.44	3.53	0.23	3.08	0.73	0.79	0.46	0.78
Georgia	0.54	3.89	0.27	2.89	0.67	0.86	0.48	0.95
Hawaii	0.25	2.05	0.18	1.99	0.46	0.46	0.00	0.00
Idaho	0.35	3.10	0.22	3.20	0.76	0.70	0.35	0.65
Illinois	0.46	3.86	0.25	3.17	0.74	0.87	0.47	0.77
Indiana	0.64	4.52	0.34	3.84	0.89	0.99	0.72	1.17
Iowa	0.57	4.30	0.35	4.01	0.93	0.95	0.70	1.03
Kansas	0.64	4.65	0.35	4.53	1.07	1.02	0.75	1.09
Kentucky	0.75	4.95	0.36	4.03	0.94	1.07	0.84	1.27
Louisiana	0.8	5.58	0.48	4.88	1.12	1.22	0.99	1.34
Maine	0.41	3.81	0.21	3.17	0.75	0.87	0.41	0.70
Maryland	0.54	3.78	0.29	3.26	0.76	0.83	0.63	0.96
Massachusetts	0.35	3.05	0.19	2.75	0.65	0.69	0.25	0.50
Michigan	0.63	4.64	0.33	3.55	0.82	1.02	0.63	1.03
Minnesota	0.35	2.91	0.21	2.89	0.68	0.65	0.33	0.47
Mississippi	0.93	5.59	0.51	4.53	1.03	1.19	1.01	1.47
Missouri	0.69	4.48	0.37	4.11	0.96	0.97	0.73	1.16
Montana	0.44	3.46	0.25	3.18	0.75	0.77	0.49	0.73
Nebraska	0.46	3.49	0.30	3.52	0.82	0.77	0.55	0.80
Nevada	0.59	4.24	0.40	4.15	0.96	0.93	0.79	1.05
New Hampshire	0.43	3.60	0.24	3.24	0.77	0.81	0.37	0.77
New Jersey	0.47	4.10	0.24	2.97	0.7	0.92	0.44	0.81
New Mexico	0.46	3.77	0.26	3.08	0.72	0.84	0.53	0.86
New York	0.66	4.41	0.35	3.34	0.76	0.96	0.69	1.16
North Carolina	0.59	3.80	0.33	3.45	0.79	0.82	0.63	1.04
North Dakota	0.48	3.31	0.31	3.20	0.74	0.72	0.69	0.69

<b>Ohio</b>	0.69	4.87	0.35	4.15	0.97	1.07	0.72	1.12
<b>Oklahoma</b>	0.79	5.27	0.39	3.98	0.92	1.14	0.86	1.28
<b>Oregon</b>	0.3	2.53	0.21	2.31	0.53	0.57	0.20	0.25
<b>Pennsylvania</b>	0.55	4.06	0.32	3.64	0.85	0.89	0.62	0.99
<b>Rhode Island</b>	0.62	4.50	0.31	3.88	0.91	0.99	0.68	1.00
<b>South Carolina</b>	0.66	4.29	0.31	2.95	0.67	0.93	0.59	1.04
<b>South Dakota</b>	0.47	3.33	0.34	3.89	0.91	0.73	0.76	0.79
<b>Tennessee</b>	0.89	5.69	0.55	4.98	1.13	1.23	1.10	1.41
<b>Texas</b>	0.65	4.55	0.31	3.52	0.82	1.00	0.64	1.01
<b>Utah</b>	0.40	3.71	0.20	2.88	0.68	0.84	0.32	0.72
<b>Vermont</b>	0.42	3.29	0.21	2.80	0.66	0.73	0.31	0.73
<b>Virginia</b>	0.50	3.56	0.25	2.85	0.66	0.78	0.38	0.88
<b>Washington</b>	0.35	2.85	0.21	2.67	0.63	0.64	0.28	0.44
<b>West Virginia</b>	0.91	6.01	0.44	4.45	1.02	1.30	0.89	1.50
<b>Wisconsin</b>	0.42	3.55	0.22	3.25	0.77	0.80	0.40	0.76
<b>Wyoming</b>	0.43	3.21	0.26	2.85	0.66	0.71	0.49	0.64

**Table S36. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Air pollution, 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	4.93	11.27	8.72	19.65	2.79	1.62	4.34	4.46
Alaska	0.95	3.68	2.15	8.17	1.53	0.70	2.02	2.02
Arizona	1.76	5.63	3.20	10.09	1.76	0.99	2.63	2.81
Arkansas	4.51	10.84	8.14	19.23	2.83	1.61	4.12	4.12
California	3.37	7.99	6.30	14.01	1.97	1.18	4.02	4.03
Colorado	0.57	3.19	1.11	5.88	1.22	0.67	1.33	1.50
Connecticut	1.60	5.16	2.98	9.32	1.62	0.91	2.53	2.67
Delaware	3.32	8.32	5.78	13.92	2.08	1.28	3.71	3.80
District of Columbia	4.32	9.89	7.66	16.82	2.34	1.42	4.27	4.39
Florida	1.61	5.54	2.94	9.80	1.75	1.00	2.51	2.66
Georgia	4.25	9.45	7.41	16.74	2.38	1.33	4.16	4.46
Hawaii	0.05	1.51	0.12	3.40	0.84	0.37	0.00	0.00
Idaho	0.59	3.64	1.23	7.21	1.53	0.78	1.50	1.59
Illinois	4.04	9.04	7.71	16.44	2.23	1.27	4.40	4.40
Indiana	4.34	9.75	8.00	17.89	2.52	1.38	4.30	4.44
Iowa	2.66	7.23	5.05	13.3	2.10	1.16	3.32	3.39
Kansas	2.26	6.42	4.32	12.21	2.01	1.06	3.00	3.19
Kentucky	4.47	10.36	8.38	19.18	2.76	1.50	4.20	4.30
Louisiana	3.73	9.45	6.38	16.25	2.52	1.46	3.65	3.86
Maine	0.15	2.63	0.29	4.86	1.17	0.63	0.57	0.76
Maryland	3.32	8.27	5.90	13.85	2.03	1.26	3.79	3.84
Massachusetts	1.20	4.60	2.46	8.95	1.65	0.87	2.25	2.32
Michigan	3.12	8.64	5.68	15.04	2.39	1.41	3.48	3.53
Minnesota	0.96	3.42	2.19	7.62	1.38	0.63	2.05	2.06
Mississippi	4.08	10.25	7.26	18.19	2.79	1.58	3.77	3.95
Missouri	4.04	9.96	7.11	17.43	2.63	1.51	3.87	3.99
Montana	0.41	2.65	0.87	5.47	1.17	0.57	1.05	1.13
Nebraska	1.45	4.93	3.06	9.70	1.70	0.89	2.54	2.57
Nevada	1.07	5.19	1.95	9.27	1.87	1.05	1.96	2.13
New Hampshire	0.65	3.81	1.24	7.27	1.54	0.81	1.55	1.68
New Jersey	2.86	7.72	5.19	13.16	2.03	1.24	3.49	3.52
New Mexico	0.58	3.52	1.06	6.02	1.27	0.75	1.22	1.46
New York	2.86	8.28	4.87	13.70	2.25	1.38	3.15	3.30
North Carolina	2.89	7.47	5.52	13.67	2.08	1.17	3.60	3.66
North Dakota	0.44	3.40	0.97	7.26	1.60	0.76	1.36	1.39
Ohio	4.22	9.95	7.77	17.41	2.46	1.46	4.25	4.20

<b>Oklahoma</b>	4.30	10.96	7.45	18.95	2.93	1.70	3.73	3.92
<b>Oregon</b>	0.49	3.02	1.06	6.29	1.33	0.64	1.33	1.38
<b>Pennsylvania</b>	3.61	8.68	6.94	16.12	2.34	1.30	3.97	4.06
<b>Rhode Island</b>	2.09	6.76	3.67	11.76	2.06	1.19	2.68	2.88
<b>South Carolina</b>	3.30	8.17	6.34	15.54	2.35	1.24	3.78	3.85
<b>South Dakota</b>	0.88	4.05	1.89	8.29	1.63	0.81	1.91	1.94
<b>Tennessee</b>	4.28	10.53	7.72	18.53	2.76	1.59	3.99	4.04
<b>Texas</b>	3.28	8.22	5.82	14.20	2.14	1.26	3.69	3.83
<b>Utah</b>	1.77	5.25	3.05	8.77	1.46	0.89	2.61	2.90
<b>Vermont</b>	0.55	3.73	1.18	7.69	1.66	0.81	1.49	1.59
<b>Virginia</b>	2.41	6.63	4.36	11.77	1.89	1.08	3.15	3.36
<b>Washington</b>	0.85	3.85	1.68	7.45	1.47	0.77	1.77	1.88
<b>West Virginia</b>	3.78	10.27	6.66	17.58	2.79	1.66	3.55	3.65
<b>Wisconsin</b>	2.03	5.97	4.17	11.63	1.91	1.00	3.04	3.06
<b>Wyoming</b>	0.08	2.09	0.16	4.20	1.03	0.51	0.26	0.36

**Table S37. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Air pollution, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.87	6.63	3.82	12.65	2.25	1.22	3.06	3.10
Alaska	0.96	3.29	2.44	8.15	1.46	0.59	2.89	2.88
Arizona	0.57	3.33	1.26	6.91	1.44	0.70	2.10	2.25
Arkansas	1.84	7.45	3.49	13.47	2.55	1.43	2.91	2.88
California	1.56	4.69	3.41	9.57	1.57	0.8	3.42	3.39
Colorado	0.07	1.54	0.15	3.31	0.81	0.38	0.86	0.99
Connecticut	0.48	3.14	0.96	6.05	1.30	0.68	2.02	2.13
Delaware	1.15	4.64	2.27	9.12	1.75	0.89	2.66	2.78
District of Columbia	1.80	5.56	3.29	10.62	1.87	0.96	3.17	3.46
Florida	0.19	3.03	0.35	5.66	1.35	0.73	1.58	1.59
Georgia	1.77	5.50	3.32	10.72	1.89	0.95	3.20	3.45
Hawaii	0.01	0.74	0.02	1.90	0.48	0.19	0.00	0.00
Idaho	0.06	1.97	0.12	4.29	1.06	0.49	1.08	1.21
Illinois	2.09	5.91	4.01	11.71	1.96	0.97	3.45	3.62
Indiana	2.18	6.56	4.13	12.24	2.07	1.12	3.45	3.43
Iowa	1.10	4.78	2.52	9.85	1.87	0.94	2.77	2.67
Kansas	0.92	4.50	1.85	9.03	1.83	0.91	2.45	2.55
Kentucky	1.96	6.64	3.69	12.59	2.27	1.19	3.09	3.20
Louisiana	1.50	6.27	2.79	11.61	2.25	1.21	2.75	2.87
Maine	0.02	1.30	0.04	2.73	0.69	0.33	0.35	0.49
Maryland	1.22	4.61	2.16	8.60	1.64	0.86	2.70	2.89
Massachusetts	0.16	2.26	0.35	4.72	1.12	0.54	1.42	1.54
Michigan	1.61	5.84	3.08	11.06	2.04	1.08	2.98	3.04
Minnesota	0.34	2.37	0.75	5.25	1.15	0.52	1.78	1.86
Mississippi	1.51	6.44	2.93	13.06	2.59	1.26	2.67	2.84
Missouri	1.65	5.85	3.10	11.6	2.17	1.07	2.90	3.07
Montana	0.11	1.72	0.22	3.70	0.89	0.41	1.02	1.13
Nebraska	0.54	3.04	1.14	6.68	1.41	0.64	1.98	2.17
Nevada	0.33	3.45	0.72	7.28	1.67	0.79	1.64	1.76
New Hampshire	0.05	2.14	0.10	4.25	1.06	0.53	0.97	1.11
New Jersey	1.13	4.54	2.03	8.46	1.64	0.87	2.56	2.66
New Mexico	0.18	2.10	0.37	4.20	0.98	0.49	1.13	1.26
New York	0.98	4.74	1.90	8.83	1.77	0.96	2.40	2.46
North Carolina	0.83	4.19	1.69	8.66	1.78	0.86	2.23	2.42
North Dakota	0.06	1.93	0.14	4.19	1.03	0.48	1.02	1.04
Ohio	2.06	6.45	3.90	12.34	2.15	1.12	3.22	3.38

<b>Oklahoma</b>	1.29	6.09	2.45	10.51	2.06	1.23	2.66	2.61
<b>Oregon</b>	0.07	1.63	0.14	3.85	0.95	0.40	1.00	1.06
<b>Pennsylvania</b>	1.64	5.41	3.08	10.64	1.93	0.96	2.95	3.23
<b>Rhode Island</b>	0.52	3.79	1.00	7.53	1.67	0.84	1.86	2.00
<b>South Carolina</b>	1.06	4.64	2.08	9.44	1.88	0.91	2.50	2.65
<b>South Dakota</b>	0.32	2.66	0.77	6.63	1.50	0.60	1.66	1.69
<b>Tennessee</b>	1.42	6.09	2.91	12.16	2.36	1.19	2.72	2.77
<b>Texas</b>	1.35	5.06	2.65	9.76	1.81	0.95	2.87	2.94
<b>Utah</b>	0.66	3.27	1.18	5.77	1.17	0.66	2.08	2.31
<b>Vermont</b>	0.03	2.07	0.05	4.37	1.10	0.52	0.96	1.02
<b>Virginia</b>	0.67	3.92	1.27	7.17	1.51	0.83	2.11	2.21
<b>Washington</b>	0.19	2.07	0.38	4.44	1.04	0.48	1.33	1.45
<b>West Virginia</b>	1.26	6.36	2.09	10.56	2.16	1.30	2.44	2.53
<b>Wisconsin</b>	1.08	4.38	2.34	9.20	1.75	0.84	2.65	2.72
<b>Wyoming</b>	0.00	1.00	0.01	2.19	0.56	0.25	0.11	0.20

**Table S38. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in processed meat. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	2.34	9.02	4.42	17.37	3.30	1.70	1.70	2.33
Alaska	0.83	3.71	2.17	9.00	1.74	0.73	0.39	0.73
Arizona	0.90	3.73	2.29	9.39	1.81	0.72	0.45	0.81
Arkansas	2.44	9.36	4.63	18.97	3.66	1.77	1.85	2.40
California	1.30	5.30	2.85	11.46	2.20	1.02	0.85	1.59
Colorado	0.93	3.79	2.28	9.70	1.89	0.73	0.52	0.93
Connecticut	1.26	4.96	2.71	10.61	2.02	0.94	0.76	1.46
Delaware	1.59	6.33	3.22	13.19	2.54	1.21	1.17	1.87
District of Columbia	2.05	8.73	3.53	15.92	3.16	1.70	1.38	2.20
Florida	1.50	5.78	2.98	12.34	2.39	1.09	1.00	1.71
Georgia	1.64	7.04	3.41	13.92	2.68	1.38	1.17	1.86
Hawaii	0.62	2.57	1.86	7.69	1.49	0.50	0.00	0.00
Idaho	0.92	3.90	2.54	10.12	1.93	0.76	0.67	0.81
Illinois	1.48	5.99	3.05	12.60	2.44	1.15	1.08	1.66
Indiana	1.76	7.07	3.81	14.64	2.76	1.35	1.38	1.94
Iowa	1.66	6.49	3.52	13.97	2.67	1.23	1.33	1.90
Kansas	1.46	5.80	3.12	12.88	2.49	1.11	1.09	1.75
Kentucky	2.29	8.91	5.27	19.98	3.75	1.69	2.06	2.42
Louisiana	2.47	9.62	4.17	16.84	3.23	1.82	1.53	2.35
Maine	1.19	4.77	2.81	10.91	2.07	0.91	0.80	1.33
Maryland	1.12	4.66	2.30	9.21	1.76	0.90	0.37	1.26
Massachusetts	0.87	3.85	2.25	9.49	1.85	0.76	0.39	0.77
Michigan	2.01	7.81	3.81	15.85	3.07	1.48	1.45	2.16
Minnesota	0.73	3.02	1.98	8.36	1.63	0.58	0.14	0.35
Mississippi	3.05	11.17	5.06	19.83	3.77	2.07	1.93	2.64
Missouri	2.36	9.44	4.89	17.98	3.34	1.80	1.88	2.32
Montana	1.12	4.63	2.89	11.38	2.17	0.90	0.94	1.28
Nebraska	1.15	4.59	3.02	12.50	2.42	0.88	1.02	1.31
Nevada	1.64	6.38	2.91	13.11	2.60	1.21	1.13	1.75
New Hampshire	0.78	3.38	2.15	8.75	1.68	0.66	0.28	0.53
New Jersey	0.90	3.95	2.32	9.36	1.80	0.78	0.43	0.95
New Mexico	1.26	5.35	2.62	11.03	2.15	1.04	0.81	1.49
New York	1.56	6.38	2.55	10.48	2.02	1.23	0.72	1.73
North Carolina	1.45	6.14	2.97	13.17	2.60	1.20	1.03	1.69
North Dakota	1.17	4.89	2.98	12.16	2.34	0.95	1.08	1.34

<b>Ohio</b>	2.09	8.07	4.31	17.17	3.28	1.53	1.71	2.20
<b>Oklahoma</b>	3.26	12.43	5.35	21.15	4.03	2.34	2.03	2.63
<b>Oregon</b>	0.92	3.84	2.38	9.69	1.86	0.75	0.54	0.91
<b>Pennsylvania</b>	1.37	5.60	3.03	12.86	2.51	1.08	1.09	1.59
<b>Rhode Island</b>	1.48	6.06	3.03	12.93	2.52	1.17	1.03	1.81
<b>South Carolina</b>	1.88	6.92	4.35	15.76	2.91	1.29	1.61	2.00
<b>South Dakota</b>	1.15	4.49	2.74	11.44	2.22	0.85	0.81	1.25
<b>Tennessee</b>	2.83	11.12	4.52	18.94	3.68	2.11	1.73	2.56
<b>Texas</b>	1.69	6.48	3.18	13.17	2.55	1.22	1.15	1.91
<b>Utah</b>	0.80	3.40	1.97	8.16	1.58	0.66	0.06	0.51
<b>Vermont</b>	1.05	4.48	2.82	11.00	2.09	0.88	0.81	1.18
<b>Virginia</b>	1.29	5.20	2.79	11.24	2.15	1.00	0.88	1.49
<b>Washington</b>	1.06	4.71	2.51	10.66	2.08	0.93	0.67	1.22
<b>West Virginia</b>	2.37	9.27	5.34	20.95	3.98	1.76	1.93	2.31
<b>Wisconsin</b>	1.33	5.40	3.03	11.84	2.25	1.04	0.99	1.50
<b>Wyoming</b>	1.33	5.64	3.23	13.05	2.51	1.10	1.12	1.54

**Table S39. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in processed meat. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.63	7.38	3.61	17.55	3.56	1.47	1.41	2.13*
Alaska	0.65	2.94	1.69	8.17	1.65	0.59	0.23	0.75
Arizona	0.63	3.04	2.11	8.89	1.73	0.61	0.49	0.81
Arkansas	2.16	9.43	4.10	19.46	3.92	1.86	1.75	2.27*
California	0.98	4.18	2.38	10.64	2.11	0.81	0.79	1.44
Colorado	0.63	2.93	1.72	8.82	1.81	0.59	0.40	0.74
Connecticut	0.92	4.10	2.27	9.63	1.88	0.81	0.63	1.35
Delaware	1.10	4.69	2.59	11.44	2.26	0.92	0.98	1.69
District of Columbia	1.61	7.28	3.21	14.86	2.97	1.45	1.40	2.06*
Florida	1.15	4.97	2.68	11.67	2.29	0.98	1.02	1.68
Georgia	1.30	5.75	2.88	12.54	2.46	1.13	1.24	1.91
Hawaii	0.43	2.09	1.47	7.12	1.44	0.42	0.00	0.00
Idaho	0.70	3.24	2.00	9.17	1.83	0.65	0.47	0.85
Illinois	0.99	4.83	2.59	11.53	2.28	0.98	0.91	1.53
Indiana	1.30	5.74	2.97	13.10	2.58	1.13	1.22	1.94
Iowa	1.17	5.55	3.22	13.85	2.71	1.12	1.36	1.78
Kansas	1.30	5.56	2.94	12.81	2.52	1.09	1.26	1.85
Kentucky	1.75	8.31	4.57	18.73	3.61	1.67	1.88	2.21*
Louisiana	2.00	8.40	3.55	16.38	3.27	1.63	1.50	2.24*
Maine	0.90	4.00	2.54	10.31	1.98	0.79	0.83	1.37
Maryland	0.87	3.79	1.88	7.91	1.54	0.75	0.30	1.18
Massachusetts	0.58	2.80	1.49	7.39	1.50	0.56	-0.01	0.56
Michigan	1.36	6.12	3.27	13.91	2.72	1.21	1.30	1.92
Minnesota	0.55	2.84	1.72	7.54	1.49	0.58	0.12	0.63
Mississippi	2.70	10.10	4.56	19.75	3.87	1.89	1.95	2.61*†
Missouri	1.74	7.65	4.23	16.37	3.10	1.51	1.79	2.13*
Montana	0.95	4.09	2.84	11.93	2.32	0.80	0.98	1.39
Nebraska	0.94	4.23	2.48	12.37	2.52	0.84	1.02	1.44
Nevada	1.18	5.40	2.62	13.55	2.79	1.08	1.18	1.72
New Hampshire	0.61	2.83	1.77	8.58	1.74	0.57	0.26	0.64
New Jersey	0.64	2.93	1.78	7.91	1.56	0.59	0.21	0.72
New Mexico	1.15	5.05	2.99	13.33	2.64	1.00	1.18	1.72
New York	1.07	4.84	2.13	9.71	1.93	0.96	0.66	1.63
North Carolina	1.14	5.06	2.48	11.66	2.34	1.00	0.94	1.66
North Dakota	0.83	3.68	2.64	10.61	2.03	0.73	0.92	1.23

<b>Ohio</b>	1.62	6.65	3.58	15.67	3.08	1.28	1.59	2.25*
<b>Oklahoma</b>	2.24	9.18	4.18	17.49	3.40	1.77	1.74	2.48*
<b>Oregon</b>	0.70	3.04	1.96	8.77	1.74	0.60	0.39	0.87
<b>Pennsylvania</b>	1.02	4.70	2.40	11.54	2.33	0.94	0.91	1.59
<b>Rhode Island</b>	1.00	4.53	2.48	11.53	2.31	0.90	0.83	1.52
<b>South Carolina</b>	1.26	5.47	3.16	13.97	2.76	1.07	1.33	1.84
<b>South Dakota</b>	0.89	3.88	2.61	11.61	2.30	0.76	1.04	1.34
<b>Tennessee</b>	2.07	9.06	4.36	18.64	3.64	1.78	1.69	2.47*
<b>Texas</b>	1.23	5.37	2.89	13.32	2.66	1.05	1.17	1.89
<b>Utah</b>	0.56	2.77	1.40	7.00	1.43	0.56	-0.04	0.59
<b>Vermont</b>	0.97	4.32	2.59	11.10	2.17	0.85	0.92	1.43
<b>Virginia</b>	0.99	4.57	2.53	10.75	2.10	0.91	0.81	1.45
<b>Washington</b>	0.83	3.69	2.01	9.06	1.80	0.73	0.57	1.16
<b>West Virginia</b>	1.92	8.51	4.58	19.04	3.69	1.68	1.79	2.24*
<b>Wisconsin</b>	1.02	4.50	2.47	11.19	2.22	0.89	0.88	1.53
<b>Wyoming</b>	0.90	4.36	2.66	11.56	2.27	0.88	0.99	1.49

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S40. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in red meat. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-0.18	7.47	-0.38	15.61	4.08	1.95	0.50	0.85
Alaska	-0.09	4.35	-0.28	11.23	2.94	1.13	0.14	0.26
Arizona	-0.08	4.16	-0.30	11.83	3.10	1.08	0.20	0.18
Arkansas	-0.19	7.84	-0.44	16.64	4.36	2.05	0.61	0.87
California	-0.12	4.83	-0.24	10.60	2.76	1.26	0.03	0.39
Colorado	-0.09	4.00	-0.28	9.80	2.57	1.04	-0.04	0.14
Connecticut	-0.11	4.42	-0.27	9.82	2.57	1.15	-0.05	0.28
Delaware	-0.13	5.93	-0.29	12.10	3.16	1.55	0.19	0.53
District of Columbia	-0.18	6.72	-0.33	13.60	3.55	1.76	0.41	0.80
Florida	-0.12	4.96	-0.30	10.78	2.83	1.30	0.09	0.43
Georgia	-0.14	5.86	-0.24	11.77	3.07	1.53	0.21	0.58
Hawaii	-0.09	3.63	-0.26	10.06	2.63	0.95	0.00	0.00
Idaho	-0.11	4.90	-0.28	11.54	3.01	1.28	0.18	0.35
Illinois	-0.12	5.36	-0.36	13.32	3.49	1.40	0.35	0.52
Indiana	-0.14	6.15	-0.31	13.73	3.58	1.61	0.34	0.64
Iowa	-0.16	6.78	-0.40	14.56	3.82	1.77	0.49	0.76
Kansas	-0.15	5.47	-0.30	12.33	3.22	1.43	0.28	0.60
Kentucky	-0.17	7.21	-0.39	16.86	4.4	1.88	0.60	0.84
Louisiana	-0.18	7.96	-0.38	15.97	4.17	2.08	0.60	0.96
Maine	-0.09	4.10	-0.24	10.32	2.69	1.07	-0.04	0.21
Maryland	-0.10	4.72	-0.30	11.30	2.96	1.23	0.12	0.36
Massachusetts	-0.09	3.78	-0.26	10.72	2.8	0.99	0.03	0.07
Michigan	-0.16	6.85	-0.36	13.90	3.64	1.79	0.41	0.74
Minnesota	-0.06	3.08	-0.19	8.74	2.28	0.80	-0.25	-0.18
Mississippi	-0.2	8.79	-0.44	16.12	4.22	2.29	0.59	1.02
Missouri	-0.17	7.61	-0.40	16.05	4.2	1.98	0.58	0.94
Montana	-0.13	5.04	-0.27	11.59	3.02	1.32	0.20	0.48
Nebraska	-0.11	4.98	-0.32	11.44	3	1.30	0.20	0.44
Nevada	-0.13	5.56	-0.28	12.39	3.23	1.45	0.23	0.57
New Hampshire	-0.07	3.54	-0.22	10.00	2.61	0.92	-0.05	-0.03
New Jersey	-0.08	3.93	-0.23	10.80	2.81	1.02	0.08	0.10
New Mexico	-0.11	4.66	-0.23	10.08	2.63	1.22	-0.02	0.31
New York	-0.13	6.26	-0.27	11.53	3.01	1.63	0.17	0.60
North Carolina	-0.14	5.62	-0.30	12.72	3.32	1.47	0.31	0.62
North Dakota	-0.14	5.17	-0.30	12.47	3.26	1.35	0.31	0.47
Ohio	-0.16	7.44	-0.35	13.85	3.62	1.94	0.42	0.84

<b>Oklahoma</b>	-0.24	8.81	-0.43	18.34	4.79	2.31	0.73	1.00
<b>Oregon</b>	-0.08	3.30	-0.18	9.07	2.36	0.86	-0.18	-0.06
<b>Pennsylvania</b>	-0.12	5.37	-0.32	12.55	3.28	1.40	0.26	0.54
<b>Rhode Island</b>	-0.14	5.69	-0.25	11.74	3.06	1.49	0.15	0.52
<b>South Carolina</b>	-0.13	5.27	-0.34	15.12	3.94	1.38	0.50	0.55
<b>South Dakota</b>	-0.08	4.51	-0.25	11.67	3.04	1.17	0.17	0.32
<b>Tennessee</b>	-0.18	8.31	-0.47	18.21	4.77	2.17	0.68	0.99
<b>Texas</b>	-0.15	6.54	-0.36	13.11	3.44	1.71	0.33	0.76
<b>Utah</b>	-0.06	4.15	-0.20	8.85	2.31	1.08	-0.22	0.20
<b>Vermont</b>	-0.09	3.79	-0.25	10.32	2.69	0.99	-0.02	0.15
<b>Virginia</b>	-0.1	4.44	-0.27	10.80	2.83	1.16	0.08	0.28
<b>Washington</b>	-0.09	4.00	-0.22	9.55	2.49	1.04	-0.09	0.15
<b>West Virginia</b>	-0.17	7.59	-0.43	17.21	4.5	1.98	0.65	0.88
<b>Wisconsin</b>	-0.09	4.57	-0.28	11.18	2.92	1.19	0.09	0.34
<b>Wyoming</b>	-0.12	4.70	-0.28	11.42	2.98	1.23	0.14	0.33

**Table S41. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in red meat. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-0.15	6.21	-0.35	14.46	3.78	1.62	0.48	0.84
Alaska	-0.09	3.56	-0.26	9.40	2.46	0.93	0.06	0.22
Arizona	-0.07	3.64	-0.23	11.12	2.90	0.95	0.22	0.21
Arkansas	-0.17	7.69	-0.34	16.88	4.39	2.01	0.67	1.02
California	-0.10	4.02	-0.22	9.63	2.51	1.05	0.04	0.32
Colorado	-0.07	3.13	-0.21	8.49	2.22	0.82	-0.07	0.06
Connecticut	-0.09	3.75	-0.21	8.50	2.22	0.98	-0.07	0.29
Delaware	-0.13	4.54	-0.23	10.41	2.72	1.19	0.14	0.47
District of Columbia	-0.14	5.69	-0.26	12.83	3.34	1.49	0.42	0.78
Florida	-0.10	4.47	-0.23	10.47	2.73	1.17	0.15	0.48
Georgia	-0.11	4.98	-0.22	11.26	2.93	1.30	0.26	0.63
Hawaii	-0.08	2.95	-0.22	9.19	2.40	0.77	0.00	0.00
Idaho	-0.08	4.01	-0.23	9.98	2.60	1.04	0.11	0.37
Illinois	-0.10	4.70	-0.33	11.78	3.09	1.23	0.29	0.51
Indiana	-0.12	5.57	-0.25	12.15	3.16	1.45	0.34	0.69
Iowa	-0.12	5.60	-0.33	14.31	3.74	1.46	0.56	0.79
Kansas	-0.15	5.50	-0.33	13.02	3.41	1.44	0.42	0.74
Kentucky	-0.17	6.85	-0.4	15.20	3.98	1.79	0.60	0.90
Louisiana	-0.17	7.14	-0.39	15.55	4.07	1.87	0.65	1.02
Maine	-0.09	3.78	-0.23	9.55	2.50	0.99	0.04	0.28
Maryland	-0.10	3.9	-0.29	9.60	2.52	1.02	0.09	0.37
Massachusetts	-0.06	2.97	-0.20	8.71	2.27	0.77	-0.15	-0.04
Michigan	-0.14	5.73	-0.28	12.65	3.30	1.50	0.35	0.69
Minnesota	-0.07	3.10	-0.19	7.95	2.07	0.81	-0.21	-0.01
Mississippi	-0.22	8.01	-0.43	16.25	4.26	2.10	0.69	1.09
Missouri	-0.16	6.28	-0.39	14.56	3.81	1.64	0.57	0.91
Montana	-0.12	4.56	-0.28	11.26	2.94	1.19	0.29	0.60
Nebraska	-0.11	4.66	-0.25	10.86	2.83	1.22	0.27	0.55
Nevada	-0.11	5.09	-0.22	12.64	3.28	1.33	0.33	0.59
New Hampshire	-0.07	3.27	-0.20	8.93	2.33	0.85	-0.03	0.07
New Jersey	-0.05	3.19	-0.19	8.91	2.32	0.83	-0.03	0.02
New Mexico	-0.13	4.41	-0.26	11.71	3.05	1.16	0.26	0.51
New York	-0.09	4.96	-0.26	10.44	2.73	1.29	0.17	0.58
North Carolina	-0.12	4.97	-0.25	11.45	2.98	1.30	0.27	0.62
North Dakota	-0.10	4.07	-0.25	11.03	2.88	1.06	0.22	0.40
Ohio	-0.17	6.30	-0.32	12.86	3.36	1.65	0.42	0.90

<b>Oklahoma</b>	-0.21	7.18	-0.35	14.66	3.83	1.89	0.59	0.91
<b>Oregon</b>	-0.06	2.84	-0.17	8.18	2.13	0.74	-0.22	-0.08
<b>Pennsylvania</b>	-0.11	4.88	-0.24	11.10	2.89	1.27	0.22	0.56
<b>Rhode Island</b>	-0.10	4.36	-0.22	10.37	2.70	1.14	0.12	0.44
<b>South Carolina</b>	-0.11	4.59	-0.30	13.13	3.42	1.20	0.43	0.54
<b>South Dakota</b>	-0.09	3.94	-0.24	11.50	3.00	1.03	0.31	0.38
<b>Tennessee</b>	-0.18	7.27	-0.44	17.18	4.49	1.90	0.72	0.99
<b>Texas</b>	-0.12	5.77	-0.30	12.65	3.30	1.50	0.41	0.78
<b>Utah</b>	-0.07	3.79	-0.16	7.48	1.95	0.99	-0.24	0.25
<b>Vermont</b>	-0.07	3.72	-0.22	9.96	2.60	0.97	0.11	0.35
<b>Virginia</b>	-0.09	3.88	-0.21	9.74	2.54	1.01	0.09	0.37
<b>Washington</b>	-0.07	3.42	-0.21	8.39	2.19	0.89	-0.11	0.13
<b>West Virginia</b>	-0.18	7.08	-0.30	15.14	3.94	1.85	0.63	0.97
<b>Wisconsin</b>	-0.09	4.17	-0.21	10.01	2.61	1.09	0.10	0.39
<b>Wyoming</b>	-0.09	3.81	-0.21	10.20	2.66	1.00	0.13	0.34

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S42. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in sodium. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.00	10.04	0.19	23.75	6.01	2.56	0.43	0.49
Alaska	0.00	5.81	0.13	17.70	4.48	1.48	0.12	0.15
Arizona	0.00	7.32	0.13	17.81	4.51	1.87	0.13	0.29
Arkansas	0.00	10.34	0.22	26.04	6.59	2.64	0.50	0.51
California	0.00	7.10	0.09	17.26	4.38	1.81	0.09	0.28
Colorado	0.00	5.91	0.08	14.54	3.69	1.51	-0.06	0.13
Connecticut	0.00	6.26	0.11	15.33	3.88	1.60	0.01	0.20
Delaware	0.00	7.97	0.12	18.35	4.65	2.03	0.21	0.37
District of Columbia	0.00	8.88	0.15	19.92	5.04	2.26	0.26	0.40
Florida	0.00	7.19	0.14	17.90	4.53	1.83	0.13	0.29
Georgia	0.00	8.11	0.15	19.97	5.06	2.07	0.22	0.38
Hawaii	0.00	4.61	0.17	14.71	3.71	1.18	0.00	0.00
Idaho	0.00	6.35	0.12	17.52	4.44	1.62	0.13	0.23
Illinois	0.00	7.60	0.17	19.78	5.00	1.94	0.26	0.32
Indiana	0.00	9.24	0.16	21.71	5.50	2.36	0.33	0.40
Iowa	0.00	7.87	0.12	19.75	5.01	2.01	0.24	0.35
Kansas	0.00	7.36	0.13	18.63	4.72	1.88	0.18	0.32
Kentucky	0.00	9.77	0.18	24.60	6.23	2.49	0.43	0.46
Louisiana	0.00	9.97	0.17	23.58	5.97	2.54	0.39	0.49
Maine	0.00	6.50	0.12	16.41	4.15	1.66	0.06	0.22
Maryland	0.00	7.84	0.14	18.47	4.68	2.00	0.16	0.36
Massachusetts	0.00	6.19	0.13	16.54	4.19	1.58	0.07	0.20
Michigan	0.00	9.67	0.15	22.27	5.64	2.47	0.38	0.46
Minnesota	0.00	4.67	0.10	13.73	3.48	1.19	-0.11	-0.01
Mississippi	0.00	10.45	0.19	25.22	6.39	2.67	0.48	0.52
Missouri	0.00	9.15	0.18	21.88	5.54	2.33	0.38	0.47
Montana	0.00	6.09	0.13	17.46	4.42	1.55	0.12	0.20
Nebraska	0.00	5.94	0.12	16.54	4.19	1.51	0.05	0.19
Nevada	0.00	8.21	0.14	20.59	5.22	2.09	0.27	0.37
New Hampshire	0.00	6.47	0.11	16.70	4.23	1.65	0.06	0.22
New Jersey	0.00	7.84	0.10	18.86	4.79	2.00	0.19	0.36
New Mexico	0.00	7.16	0.10	17.21	4.36	1.83	0.09	0.28
New York	0.00	9.07	0.14	20.40	5.17	2.31	0.29	0.45
North Carolina	0.00	7.95	0.16	19.55	4.95	2.03	0.24	0.34
North Dakota	0.00	6.17	0.11	17.96	4.56	1.58	0.16	0.20
Ohio	0.00	8.96	0.14	21.74	5.51	2.29	0.32	0.43

<b>Oklahoma</b>	0.00	11.55	0.18	25.74	6.52	2.95	0.51	0.56
<b>Oregon</b>	0.00	5.24	0.10	14.88	3.77	1.34	-0.02	0.08
<b>Pennsylvania</b>	0.00	8.32	0.13	20.10	5.10	2.12	0.26	0.36
<b>Rhode Island</b>	0.00	8.49	0.10	20.21	5.13	2.16	0.21	0.36
<b>South Carolina</b>	0.00	8.25	0.19	21.00	5.31	2.10	0.34	0.38
<b>South Dakota</b>	0.00	6.83	0.13	19.20	4.86	1.74	0.21	0.25
<b>Tennessee</b>	0.00	10.36	0.22	25.22	6.38	2.64	0.45	0.51
<b>Texas</b>	0.00	8.34	0.13	19.58	4.96	2.13	0.23	0.38
<b>Utah</b>	0.00	6.67	0.08	14.86	3.77	1.70	-0.04	0.23
<b>Vermont</b>	0.00	6.41	0.10	17.07	4.33	1.64	0.09	0.19
<b>Virginia</b>	0.00	7.14	0.11	17.39	4.41	1.82	0.13	0.31
<b>Washington</b>	0.00	6.22	0.08	16.07	4.08	1.59	0.04	0.18
<b>West Virginia</b>	0.00	11.01	0.20	24.59	6.22	2.81	0.45	0.51
<b>Wisconsin</b>	0.00	6.89	0.11	18.42	4.67	1.76	0.17	0.26
<b>Wyoming</b>	0.00	6.60	0.12	18.42	4.67	1.68	0.16	0.23

**Table S43. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in sodium. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.00	8.24	0.17	21.58	5.46	2.10	0.42	0.50
Alaska	0.00	4.27	0.09	14.79	3.75	1.09	0.06	0.10
Arizona	0.00	5.89	0.08	16.24	4.12	1.50	0.16	0.29
Arkansas	0.00	9.81	0.19	25.06	6.35	2.50	0.56	0.59
California	0.00	5.63	0.07	15.09	3.83	1.44	0.08	0.22
Colorado	0.00	4.52	0.07	12.44	3.16	1.15	-0.10	0.10
Connecticut	0.00	5.32	0.08	13.98	3.55	1.36	-0.01	0.22
Delaware	0.00	6.29	0.09	16.51	4.19	1.60	0.20	0.34
District of Columbia	0.00	7.23	0.11	17.56	4.45	1.84	0.24	0.40
Florida	0.00	6.13	0.11	17.42	4.41	1.56	0.16	0.30
Georgia	0.00	6.67	0.12	17.82	4.52	1.70	0.24	0.39
Hawaii	0.00	3.74	0.11	13.32	3.37	0.95	0.00	0.00
Idaho	0.00	5.30	0.06	15.17	3.85	1.35	0.09	0.23
Illinois	0.00	6.47	0.13	17.97	4.55	1.65	0.23	0.29
Indiana	0.00	7.56	0.11	19.72	5.00	1.93	0.33	0.44
Iowa	0.00	6.42	0.08	19.16	4.87	1.64	0.30	0.36
Kansas	0.00	6.73	0.10	18.95	4.81	1.72	0.30	0.42
Kentucky	0.00	8.76	0.15	21.91	5.55	2.23	0.43	0.50
Louisiana	0.00	8.74	0.15	23.22	5.89	2.23	0.42	0.55
Maine	0.00	5.61	0.10	16.76	4.25	1.43	0.12	0.26
Maryland	0.00	6.13	0.10	15.44	3.91	1.56	0.13	0.35
Massachusetts	0.00	4.53	0.08	12.97	3.29	1.16	-0.08	0.13
Michigan	0.00	7.44	0.10	19.91	5.05	1.90	0.34	0.45
Minnesota	0.00	4.17	0.07	13.11	3.33	1.06	-0.09	0.06
Mississippi	0.00	8.98	0.15	24.92	6.32	2.29	0.54	0.57
Missouri	0.00	7.57	0.15	20.27	5.13	1.93	0.39	0.48
Montana	0.00	5.59	0.10	17.31	4.39	1.42	0.17	0.27
Nebraska	0.00	5.37	0.08	16.30	4.14	1.37	0.11	0.24
Nevada	0.00	6.89	0.13	20.47	5.19	1.76	0.36	0.42
New Hampshire	0.00	5.88	0.07	15.30	3.89	1.50	0.06	0.25
New Jersey	0.00	6.40	0.10	15.49	3.93	1.63	0.11	0.30
New Mexico	0.00	6.59	0.10	18.39	4.66	1.68	0.27	0.38
New York	0.00	7.17	0.11	17.50	4.44	1.83	0.27	0.41
North Carolina	0.00	6.60	0.11	17.37	4.40	1.68	0.21	0.34
North Dakota	0.00	4.91	0.08	14.90	3.78	1.25	0.07	0.16
Ohio	0.00	7.68	0.12	20.68	5.25	1.96	0.33	0.46

<b>Oklahoma</b>	0.00	8.52	0.11	21.13	5.36	2.17	0.40	0.55
<b>Oregon</b>	0.00	3.99	0.08	12.98	3.29	1.02	-0.07	0.04
<b>Pennsylvania</b>	0.00	6.94	0.10	17.46	4.43	1.77	0.22	0.39
<b>Rhode Island</b>	0.00	6.63	0.09	17.84	4.53	1.69	0.19	0.35
<b>South Carolina</b>	0.00	6.72	0.16	18.71	4.73	1.71	0.30	0.38
<b>South Dakota</b>	0.00	5.42	0.12	17.74	4.50	1.38	0.28	0.25
<b>Tennessee</b>	0.00	8.75	0.16	23.88	6.05	2.23	0.50	0.52
<b>Texas</b>	0.00	6.95	0.12	18.70	4.74	1.77	0.27	0.41
<b>Utah</b>	0.00	5.53	0.07	13.51	3.43	1.41	-0.06	0.26
<b>Vermont</b>	0.00	5.80	0.10	16.14	4.09	1.48	0.15	0.26
<b>Virginia</b>	0.00	6.13	0.11	16.28	4.13	1.56	0.12	0.33
<b>Washington</b>	0.00	4.75	0.07	13.78	3.50	1.21	-0.01	0.15
<b>West Virginia</b>	0.00	10.06	0.16	21.67	5.49	2.57	0.45	0.57
<b>Wisconsin</b>	0.00	5.86	0.09	16.00	4.06	1.49	0.16	0.29
<b>Wyoming</b>	0.00	5.47	0.11	16.18	4.10	1.39	0.14	0.23

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\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S44. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in sugar-sweetened beverages, 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-0.04	0.48	-0.09	0.94	0.26	0.13	0.45	0.78
Alaska	-0.03	0.26	-0.06	0.65	0.18	0.07	0.22	0.29
Arizona	-0.03	0.25	-0.05	0.54	0.15	0.07	0.00	0.26
Arkansas	-0.05	0.49	-0.09	0.93	0.26	0.14	0.54	0.77
California	-0.02	0.25	-0.05	0.56	0.15	0.07	0.06	0.30
Colorado	-0.03	0.21	-0.04	0.48	0.13	0.06	-0.11	0.07
Connecticut	-0.03	0.33	-0.06	0.68	0.19	0.09	0.21	0.41
Delaware	-0.03	0.36	-0.07	0.71	0.20	0.10	0.27	0.54
District of Columbia	-0.05	0.52	-0.08	0.98	0.27	0.15	0.45	0.86
Florida	-0.03	0.30	-0.07	0.58	0.17	0.08	0.11	0.40
Georgia	-0.03	0.35	-0.06	0.63	0.18	0.10	0.20	0.53
Hawaii	-0.02	0.20	-0.07	0.56	0.16	0.06	0.00	0.00
Idaho	-0.02	0.21	-0.05	0.50	0.14	0.06	-0.07	0.04
Illinois	-0.04	0.34	-0.07	0.69	0.19	0.10	0.26	0.53
Indiana	-0.04	0.36	-0.07	0.76	0.21	0.10	0.35	0.59
Iowa	-0.03	0.32	-0.06	0.70	0.19	0.09	0.22	0.46
Kansas	-0.03	0.31	-0.06	0.66	0.18	0.09	0.18	0.45
Kentucky	-0.04	0.43	-0.09	0.82	0.23	0.12	0.47	0.71
Louisiana	-0.04	0.47	-0.08	0.83	0.23	0.13	0.44	0.78
Maine	-0.02	0.24	-0.05	0.56	0.15	0.07	0.02	0.17
Maryland	-0.03	0.38	-0.07	0.67	0.19	0.11	0.27	0.59
Massachusetts	-0.03	0.27	-0.06	0.67	0.19	0.08	0.16	0.28
Michigan	-0.03	0.40	-0.08	0.76	0.21	0.11	0.34	0.64
Minnesota	-0.02	0.18	-0.06	0.50	0.14	0.05	-0.11	-0.14
Mississippi	-0.04	0.47	-0.09	0.94	0.26	0.13	0.48	0.79
Missouri	-0.05	0.43	-0.07	0.79	0.22	0.12	0.44	0.73
Montana	-0.02	0.23	-0.06	0.53	0.15	0.07	0.03	0.11
Nebraska	-0.02	0.24	-0.05	0.59	0.16	0.07	0.04	0.15
Nevada	-0.03	0.33	-0.06	0.69	0.19	0.09	0.20	0.46
New Hampshire	-0.02	0.25	-0.06	0.54	0.15	0.07	0.06	0.19
New Jersey	-0.03	0.33	-0.07	0.67	0.19	0.09	0.27	0.57
New Mexico	-0.02	0.23	-0.05	0.49	0.14	0.07	-0.06	0.21
New York	-0.04	0.37	-0.07	0.70	0.19	0.11	0.31	0.61
North Carolina	-0.03	0.31	-0.07	0.67	0.19	0.09	0.23	0.50
North Dakota	-0.03	0.27	-0.06	0.64	0.18	0.08	0.19	0.29

<b>Ohio</b>	-0.04	0.39	-0.08	0.79	0.22	0.11	0.32	0.60
<b>Oklahoma</b>	-0.05	0.55	-0.10	0.91	0.26	0.15	0.53	0.83
<b>Oregon</b>	-0.01	0.18	-0.05	0.46	0.13	0.05	-0.14	-0.12
<b>Pennsylvania</b>	-0.03	0.33	-0.07	0.67	0.19	0.09	0.28	0.51
<b>Rhode Island</b>	-0.04	0.33	-0.05	0.61	0.17	0.09	0.17	0.46
<b>South Carolina</b>	-0.04	0.37	-0.06	0.80	0.22	0.11	0.37	0.56
<b>South Dakota</b>	-0.03	0.29	-0.06	0.64	0.18	0.08	0.20	0.31
<b>Tennessee</b>	-0.04	0.46	-0.1	0.88	0.25	0.13	0.52	0.78
<b>Texas</b>	-0.04	0.33	-0.07	0.65	0.18	0.09	0.18	0.53
<b>Utah</b>	-0.02	0.19	-0.04	0.37	0.10	0.05	-0.30	-0.06
<b>Vermont</b>	-0.02	0.23	-0.05	0.56	0.16	0.06	0.01	0.09
<b>Virginia</b>	-0.03	0.33	-0.07	0.66	0.19	0.09	0.20	0.50
<b>Washington</b>	-0.02	0.22	-0.05	0.51	0.14	0.06	-0.02	0.13
<b>West Virginia</b>	-0.05	0.42	-0.08	0.83	0.23	0.12	0.49	0.76
<b>Wisconsin</b>	-0.03	0.27	-0.05	0.59	0.16	0.08	0.10	0.27
<b>Wyoming</b>	-0.03	0.30	-0.06	0.67	0.19	0.08	0.25	0.37

**Table S45. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet high in sugar-sweetened beverages, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-0.03	0.41	-0.07	0.81	0.23	0.11	0.43	0.72
Alaska	-0.02	0.26	-0.05	0.59	0.16	0.07	0.14	0.29
Arizona	-0.02	0.24	-0.05	0.51	0.14	0.07	0.01	0.25
Arkansas	-0.05	0.55	-0.07	0.98	0.27	0.15	0.6	0.83
California	-0.02	0.23	-0.05	0.57	0.16	0.06	0.07	0.27
Colorado	-0.02	0.18	-0.04	0.45	0.13	0.05	-0.13	0.00
Connecticut	-0.02	0.26	-0.06	0.61	0.17	0.07	0.13	0.37
Delaware	-0.02	0.28	-0.06	0.58	0.16	0.08	0.15	0.43
District of Columbia	-0.04	0.49	-0.08	1.02	0.28	0.14	0.52	0.79
Florida	-0.03	0.28	-0.06	0.55	0.16	0.08	0.13	0.42
Georgia	-0.03	0.33	-0.06	0.63	0.18	0.09	0.26	0.55
Hawaii	-0.02	0.18	-0.05	0.49	0.14	0.05	0.00	0.00
Idaho	-0.02	0.20	-0.04	0.44	0.12	0.06	-0.15	0.08
Illinois	-0.03	0.31	-0.05	0.64	0.18	0.09	0.21	0.50
Indiana	-0.03	0.35	-0.07	0.73	0.20	0.10	0.30	0.60
Iowa	-0.03	0.32	-0.06	0.70	0.19	0.09	0.27	0.49
Kansas	-0.03	0.32	-0.06	0.72	0.20	0.09	0.29	0.57
Kentucky	-0.03	0.45	-0.07	0.77	0.22	0.12	0.47	0.71
Louisiana	-0.04	0.45	-0.08	0.83	0.23	0.13	0.47	0.80
Maine	-0.02	0.22	-0.05	0.54	0.15	0.06	0.03	0.22
Maryland	-0.03	0.33	-0.06	0.64	0.18	0.09	0.22	0.57
Massachusetts	-0.02	0.22	-0.05	0.52	0.14	0.06	-0.02	0.19
Michigan	-0.03	0.35	-0.06	0.71	0.20	0.10	0.32	0.60
Minnesota	-0.02	0.19	-0.04	0.51	0.14	0.05	-0.11	0.05
Mississippi	-0.04	0.48	-0.09	0.96	0.27	0.13	0.55	0.84
Missouri	-0.04	0.35	-0.07	0.74	0.21	0.10	0.41	0.67
Montana	-0.02	0.25	-0.05	0.59	0.16	0.07	0.12	0.24
Nebraska	-0.02	0.25	-0.05	0.59	0.16	0.07	0.11	0.28
Nevada	-0.02	0.30	-0.05	0.66	0.18	0.08	0.22	0.42
New Hampshire	-0.02	0.24	-0.05	0.52	0.15	0.07	0.05	0.26
New Jersey	-0.02	0.29	-0.06	0.59	0.16	0.08	0.15	0.42
New Mexico	-0.03	0.25	-0.07	0.62	0.18	0.07	0.18	0.34
New York	-0.03	0.32	-0.06	0.69	0.19	0.09	0.29	0.60
North Carolina	-0.03	0.30	-0.05	0.62	0.17	0.08	0.16	0.46
North Dakota	-0.02	0.24	-0.06	0.70	0.19	0.07	0.26	0.28

<b>Ohio</b>	-0.03	0.36	-0.07	0.71	0.20	0.10	0.30	0.66
<b>Oklahoma</b>	-0.04	0.47	-0.06	0.74	0.20	0.13	0.45	0.74
<b>Oregon</b>	-0.01	0.17	-0.04	0.44	0.12	0.05	-0.20	-0.10
<b>Pennsylvania</b>	-0.03	0.32	-0.06	0.62	0.17	0.09	0.20	0.54
<b>Rhode Island</b>	-0.03	0.28	-0.05	0.57	0.16	0.08	0.11	0.34
<b>South Carolina</b>	-0.03	0.33	-0.06	0.67	0.19	0.09	0.30	0.52
<b>South Dakota</b>	-0.02	0.27	-0.06	0.72	0.20	0.08	0.35	0.39
<b>Tennessee</b>	-0.04	0.44	-0.08	0.91	0.25	0.12	0.55	0.76
<b>Texas</b>	-0.03	0.32	-0.07	0.68	0.19	0.09	0.30	0.56
<b>Utah</b>	-0.02	0.18	-0.03	0.33	0.09	0.05	-0.38	0.00
<b>Vermont</b>	-0.02	0.24	-0.06	0.60	0.17	0.07	0.16	0.29
<b>Virginia</b>	-0.03	0.30	-0.06	0.62	0.18	0.08	0.18	0.55
<b>Washington</b>	-0.02	0.20	-0.04	0.48	0.13	0.06	-0.04	0.14
<b>West Virginia</b>	-0.04	0.45	-0.06	0.79	0.22	0.13	0.43	0.75
<b>Wisconsin</b>	-0.03	0.25	-0.05	0.56	0.16	0.07	0.09	0.32
<b>Wyoming</b>	-0.02	0.26	-0.06	0.65	0.18	0.07	0.23	0.38

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\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S46. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in fiber. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	3.30	10.05	4.91	15.05	2.59	1.72	1.60	2.07
Alaska	1.68	5.22	3.14	10.22	1.81	0.90	0.64	0.75
Arizona	2.07	7.03	3.18	10.71	1.92	1.26	0.72	1.22
Arkansas	3.38	10.91	5.07	17.01	3.05	1.92	1.71	2.08
California	1.78	5.88	2.49	8.63	1.57	1.05	0.25	0.96
Colorado	1.42	5.13	2.26	8.20	1.51	0.95	-0.03	0.49
Connecticut	1.28	4.90	2.00	7.33	1.36	0.92	-0.40	0.27
Delaware	2.15	7.13	3.09	10.52	1.90	1.27	0.63	1.31
District of Columbia	1.72	6.03	2.29	8.66	1.62	1.10	0.00	0.90
Florida	2.00	6.64	3.05	10.35	1.86	1.18	0.59	1.17
Georgia	2.30	7.65	3.63	11.64	2.04	1.36	0.93	1.50
Hawaii	1.18	4.03	2.43	7.83	1.38	0.73	0.00	0.00
Idaho	1.92	6.31	3.23	10.74	1.92	1.12	0.83	1.07
Illinois	2.11	6.65	3.03	10.06	1.79	1.16	0.65	1.23
Indiana	2.54	8.39	4.00	13.23	2.35	1.49	1.22	1.63
Iowa	2.13	7.12	3.54	11.63	2.07	1.28	0.90	1.35
Kansas	2.07	6.66	3.30	10.61	1.86	1.17	0.71	1.20
Kentucky	2.99	9.45	4.96	14.73	2.49	1.65	1.64	1.93
Louisiana	2.89	9.40	4.32	13.94	2.45	1.66	1.35	1.93
Maine	1.89	5.96	3.05	9.66	1.68	1.04	0.52	1.00
Maryland	1.90	6.38	2.60	9.17	1.67	1.14	0.22	1.07
Massachusetts	1.49	4.88	2.40	8.67	1.60	0.87	0.15	0.52
Michigan	2.68	8.98	4.13	13.38	2.36	1.61	1.30	1.78
Minnesota	1.18	3.95	2.13	7.64	1.40	0.71	-0.14	-0.02
Mississippi	3.54	10.73	5.48	16.69	2.86	1.83	1.78	2.20
Missouri	2.74	9.10	4.29	13.05	2.23	1.62	1.34	1.74
Montana	1.74	5.93	3.25	10.47	1.84	1.07	0.73	0.87
Nebraska	1.68	5.63	2.67	9.41	1.72	1.01	0.41	0.72
Nevada	2.22	7.39	3.45	11.26	1.99	1.32	0.86	1.39
New Hampshire	1.58	5.27	2.44	8.89	1.64	0.94	0.13	0.64
New Jersey	1.87	6.45	2.55	9.07	1.66	1.17	0.30	1.00
New Mexico	2.10	6.90	3.27	10.44	1.83	1.22	0.73	1.3
New York	2.40	7.62	2.99	10.86	2.01	1.33	0.63	1.48
North Carolina	2.50	7.75	3.83	13.61	2.49	1.34	1.15	1.61
North Dakota	1.78	5.47	3.00	10.17	1.83	0.94	0.55	0.82
Ohio	2.61	8.41	4.06	12.75	2.22	1.48	1.17	1.66

<b>Oklahoma</b>	3.36	10.95	4.83	16.36	2.94	1.94	1.54	2.10
<b>Oregon</b>	1.40	4.79	2.65	8.77	1.56	0.86	0.24	0.42
<b>Pennsylvania</b>	2.20	7.16	3.24	10.96	1.97	1.27	0.80	1.33
<b>Rhode Island</b>	2.23	7.28	3.15	10.51	1.88	1.29	0.67	1.34
<b>South Carolina</b>	2.59	8.25	4.42	13.67	2.36	1.44	1.39	1.67
<b>South Dakota</b>	1.81	6.12	3.22	10.73	1.92	1.10	0.74	0.99
<b>Tennessee</b>	3.24	9.50	4.55	15.13	2.70	1.60	1.53	2.14
<b>Texas</b>	2.34	7.58	3.37	10.90	1.92	1.34	0.83	1.44
<b>Utah</b>	1.75	5.87	2.67	8.72	1.55	1.05	0.25	0.86
<b>Vermont</b>	1.62	5.45	2.76	9.39	1.69	0.98	0.41	0.71
<b>Virginia</b>	1.86	6.16	2.73	9.13	1.63	1.10	0.35	1.01
<b>Washington</b>	1.52	5.19	2.36	8.77	1.63	0.94	0.15	0.57
<b>West Virginia</b>	3.48	10.79	5.01	16.42	2.91	1.87	1.67	2.16
<b>Wisconsin</b>	1.94	5.99	3.20	10.43	1.84	1.03	0.65	1.07
<b>Wyoming</b>	1.72	5.52	2.89	9.82	1.77	0.97	0.42	0.73

**Table S47. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in fiber. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	2.34	7.61	3.76	13.50	2.49	1.34	1.41	2.01*
Alaska	1.21	3.81	2.30	8.26	1.52	0.66	0.49	0.68
Arizona	1.58	5.36	2.62	9.82	1.84	0.96	0.79	1.26
Arkansas	2.82	9.46	4.21	15.29	2.83	1.69	1.68	2.18*
California	1.17	4.14	1.93	7.20	1.34	0.76	0.15	0.68
Colorado	0.92	3.65	1.66	6.52	1.24	0.70	-0.11	0.31
Connecticut	0.97	3.74	1.49	6.62	1.31	0.71	-0.25	0.39
Delaware	1.48	5.30	2.21	8.88	1.70	0.97	0.63	1.23
District of Columbia	1.06	4.15	1.62	6.98	1.37	0.79	-0.13	0.62
Florida	1.51	5.23	2.60	9.08	1.65	0.95	0.68	1.22
Georgia	1.72	6.16	2.66	10.26	1.94	1.13	0.93	1.50
Hawaii	0.90	3.05	1.66	6.76	1.30	0.55	0.00	0.00
Idaho	1.43	4.76	2.39	9.11	1.71	0.85	0.68	1.10
Illinois	1.43	5.12	2.33	8.89	1.67	0.94	0.53	1.11
Indiana	1.94	6.61	2.98	11.28	2.12	1.19	1.13	1.69
Iowa	1.61	5.70	3.02	11.11	2.06	1.04	0.93	1.31
Kansas	1.82	5.78	2.85	11.08	2.10	1.01	0.88	1.49
Kentucky	2.20	7.87	3.71	13.17	2.41	1.45	1.46	1.91
Louisiana	2.24	7.72	3.58	12.37	2.24	1.40	1.38	1.95
Maine	1.43	4.84	2.62	8.98	1.62	0.87	0.67	1.11
Maryland	1.30	4.61	2.05	7.7	1.44	0.84	0.23	1.01
Massachusetts	0.93	3.42	1.58	6.57	1.27	0.64	-0.19	0.22
Michigan	1.92	6.78	3.08	11.42	2.13	1.24	1.07	1.61
Minnesota	0.89	3.41	1.63	6.80	1.32	0.64	-0.02	0.29
Mississippi	2.76	8.99	4.51	16.04	2.94	1.59	1.76	2.20*
Missouri	2.04	6.86	3.42	11.85	2.15	1.23	1.25	1.72
Montana	1.41	4.92	2.41	9.88	1.90	0.90	0.68	1.08
Nebraska	1.24	4.54	2.16	8.24	1.55	0.84	0.46	0.89
Nevada	1.73	5.91	3.26	11.30	2.05	1.07	1.13	1.57
New Hampshire	1.23	4.39	1.84	7.99	1.57	0.81	0.22	0.86
New Jersey	1.25	4.49	1.79	7.44	1.44	0.83	0.14	0.83
New Mexico	1.80	6.28	3.31	11.67	2.13	1.14	1.11	1.51
New York	1.46	5.37	2.20	9.03	1.74	1.00	0.48	1.21
North Carolina	1.85	6.31	3.13	11.37	2.10	1.14	1.13	1.51
North Dakota	1.03	3.71	1.82	7.32	1.40	0.68	0.14	0.41
Ohio	1.97	6.80	3.05	10.78	1.97	1.23	1.08	1.65

<b>Oklahoma</b>	2.26	7.53	3.32	12.08	2.23	1.35	1.23	1.94
<b>Oregon</b>	0.96	3.35	1.83	7.33	1.40	0.61	0.09	0.29
<b>Pennsylvania</b>	1.56	5.54	2.36	9.21	1.75	1.01	0.64	1.31
<b>Rhode Island</b>	1.41	5.42	2.35	8.85	1.66	1.02	0.64	1.16
<b>South Carolina</b>	1.98	6.20	3.46	11.51	2.06	1.08	1.17	1.66
<b>South Dakota</b>	1.33	4.60	2.77	9.69	1.77	0.83	0.84	0.89
<b>Tennessee</b>	2.21	7.43	3.76	13.79	2.56	1.33	1.44	1.97*
<b>Texas</b>	1.65	5.73	2.75	10.08	1.87	1.04	0.86	1.44
<b>Utah</b>	1.26	4.57	1.95	7.29	1.36	0.85	0.20	0.87
<b>Vermont</b>	1.29	4.50	2.30	8.65	1.62	0.82	0.55	0.93
<b>Virginia</b>	1.32	5.04	2.20	7.74	1.41	0.95	0.38	1.02
<b>Washington</b>	1.07	3.71	1.70	6.62	1.25	0.67	0.01	0.43
<b>West Virginia</b>	2.71	9.38	3.82	14.10	2.62	1.70	1.52	2.13*
<b>Wisconsin</b>	1.54	4.94	2.55	9.08	1.67	0.87	0.64	1.11
<b>Wyoming</b>	1.18	4.12	2.22	7.84	1.43	0.75	0.31	0.69

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\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S48. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in fruits, 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.97	8.28	1.83	16.08	3.64	1.87	1.44	1.69
Alaska	0.40	3.65	0.96	8.06	1.81	0.83	0.34	0.63
Arizona	0.38	3.63	0.88	8.03	1.82	0.83	0.30	0.55
Arkansas	0.99	8.72	1.75	15.50	3.51	1.97	1.32	1.74
California	0.33	3.20	0.56	4.91	1.11	0.73	-0.51	0.27
Colorado	0.29	2.74	0.71	6.29	1.42	0.62	-0.09	0.15
Connecticut	0.29	3.01	0.57	5.40	1.23	0.69	-0.37	0.18
Delaware	0.63	5.81	1.24	10.90	2.46	1.32	0.84	1.29
District of Columbia	0.40	3.65	0.75	7.51	1.72	0.83	0.13	0.65
Florida	0.45	4.12	0.77	6.87	1.56	0.94	0.05	0.85
Georgia	0.55	4.89	1.05	9.52	2.16	1.11	0.61	1.13
Hawaii	0.27	2.49	0.71	6.65	1.51	0.57	0.00	0.00
Idaho	0.48	4.50	1.11	9.45	2.13	1.03	0.63	0.95
Illinois	0.57	5.46	1.09	9.52	2.15	1.25	0.61	1.17
Indiana	0.62	5.94	1.36	11.32	2.54	1.36	1.00	1.27
Iowa	0.54	4.80	1.06	10.06	2.29	1.09	0.72	1.13
Kansas	0.56	5.39	1.17	10.72	2.44	1.23	0.87	1.21
Kentucky	0.98	8.52	1.80	14.93	3.35	1.92	1.34	1.74
Louisiana	0.78	6.96	1.41	13.00	2.96	1.58	1.11	1.50
Maine	0.31	3.04	0.72	6.48	1.47	0.70	-0.11	0.30
Maryland	0.39	3.49	0.79	6.91	1.56	0.79	0.05	0.53
Massachusetts	0.33	3.08	0.60	5.76	1.32	0.70	-0.27	0.31
Michigan	0.59	5.27	1.03	8.98	2.03	1.19	0.53	1.14
Minnesota	0.31	2.86	0.75	7.13	1.63	0.65	0.14	0.15
Mississippi	1.06	9.07	1.80	16.79	3.82	2.04	1.41	1.73
Missouri	0.81	6.63	1.25	10.74	2.42	1.49	0.87	1.48
Montana	0.41	3.66	0.95	8.08	1.82	0.83	0.37	0.64
Nebraska	0.41	3.77	0.73	6.27	1.41	0.86	-0.08	0.66
Nevada	0.46	4.03	0.96	8.68	1.97	0.91	0.43	0.77
New Hampshire	0.31	2.83	0.68	6.06	1.37	0.64	-0.17	0.23
New Jersey	0.46	4.23	0.81	7.31	1.66	0.96	0.13	0.81
New Mexico	0.45	4.17	0.81	7.13	1.61	0.95	0.17	0.80
New York	0.49	4.63	0.97	8.49	1.92	1.06	0.41	0.92
North Carolina	0.60	5.35	1.23	11.01	2.49	1.21	0.92	1.24
North Dakota	0.45	3.71	0.92	8.60	1.96	0.83	0.49	0.68
Ohio	0.65	6.00	1.03	9.22	2.09	1.36	0.61	1.32

<b>Oklahoma</b>	1.01	8.74	1.87	15.94	3.59	1.97	1.43	1.76
<b>Oregon</b>	0.30	2.67	0.77	6.33	1.42	0.61	-0.01	0.20
<b>Pennsylvania</b>	0.51	4.19	0.84	7.92	1.81	0.94	0.31	0.91
<b>Rhode Island</b>	0.51	4.81	1.22	10.71	2.42	1.10	0.85	1.03
<b>South Carolina</b>	0.63	5.46	1.15	10.33	2.34	1.23	0.83	1.23
<b>South Dakota</b>	0.54	4.85	1.13	9.71	2.19	1.10	0.67	1.09
<b>Tennessee</b>	0.69	6.50	1.31	12.49	2.85	1.48	1.01	1.35
<b>Texas</b>	0.53	4.93	0.97	8.37	1.89	1.12	0.42	1.14
<b>Utah</b>	0.36	3.23	0.77	6.64	1.50	0.73	-0.04	0.36
<b>Vermont</b>	0.35	3.28	0.93	8.30	1.88	0.75	0.39	0.49
<b>Virginia</b>	0.47	4.72	0.81	7.87	1.80	1.09	0.29	0.96
<b>Washington</b>	0.38	3.35	0.82	7.66	1.74	0.76	0.20	0.54
<b>West Virginia</b>	0.62	5.96	1.41	12.00	2.70	1.36	1.03	1.28
<b>Wisconsin</b>	0.44	4.05	0.87	7.80	1.77	0.92	0.28	0.78
<b>Wyoming</b>	0.35	3.28	0.86	7.57	1.71	0.75	0.23	0.45

**Table S49. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in fruits, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.79	7.06	1.69	15.19	3.44	1.60	1.22	1.54
Alaska	0.35	2.90	0.66	6.75	1.55	0.65	0.00	0.40
Arizona	0.35	3.56	0.90	8.16	1.85	0.82	0.33	0.56
Arkansas	0.93	8.09	1.70	14.65	3.30	1.83	1.18	1.71
California	0.22	2.53	0.52	4.78	1.09	0.59	-0.58	-0.02
Colorado	0.22	2.12	0.59	5.44	1.24	0.49	-0.35	-0.16
Connecticut	0.26	2.79	0.47	5.22	1.21	0.64	-0.45	0.13
Delaware	0.52	4.82	1.10	10.00	2.27	1.09	0.66	1.05
District of Columbia	0.34	3.15	0.66	7.40	1.72	0.72	0.06	0.49
Florida	0.38	3.81	0.74	6.86	1.56	0.87	0.06	0.74
Georgia	0.46	4.64	1.01	8.83	2.00	1.07	0.57	1.00
Hawaii	0.28	2.35	0.67	6.50	1.49	0.53	0.00	0.00
Idaho	0.40	3.68	1.06	8.38	1.87	0.84	0.45	0.82
Illinois	0.53	4.86	1.00	10.06	2.31	1.11	0.58	1.14
Indiana	0.53	5.44	1.37	11.02	2.46	1.25	0.83	1.17
Iowa	0.47	4.41	1.13	10.13	2.30	1.01	0.68	0.91
Kansas	0.54	5.27	1.17	11.09	2.53	1.21	0.86	1.16
Kentucky	0.82	7.64	1.50	13.63	3.09	1.74	1.14	1.58
Louisiana	0.69	6.48	1.52	12.89	2.90	1.48	1.06	1.40
Maine	0.28	2.99	0.73	6.54	1.48	0.69	-0.06	0.34
Maryland	0.37	3.09	0.72	6.46	1.46	0.69	0.00	0.40
Massachusetts	0.23	2.41	0.43	5.01	1.17	0.56	-0.59	-0.05
Michigan	0.45	4.38	0.86	8.22	1.88	1.00	0.37	0.94
Minnesota	0.27	2.69	0.74	6.54	1.48	0.62	0.00	0.15
Mississippi	0.99	8.11	1.97	16.23	3.64	1.82	1.44	1.72
Missouri	0.61	5.56	1.26	10.02	2.23	1.26	0.74	1.27
Montana	0.40	3.51	1.01	8.33	1.87	0.79	0.36	0.64
Nebraska	0.37	3.36	0.66	6.40	1.46	0.76	-0.11	0.64
Nevada	0.47	4.09	1.09	9.39	2.12	0.92	0.59	0.84
New Hampshire	0.29	2.82	0.6	5.97	1.37	0.65	-0.20	0.21
New Jersey	0.34	3.21	0.72	6.28	1.42	0.73	-0.11	0.50
New Mexico	0.44	4.12	0.90	8.43	1.92	0.94	0.44	0.86
New York	0.42	3.94	0.85	7.62	1.73	0.90	0.19	0.72
North Carolina	0.50	4.65	1.08	10.23	2.33	1.06	0.70	1.06
North Dakota	0.30	2.71	0.80	7.16	1.62	0.61	0.13	0.29
Ohio	0.58	5.31	0.95	9.06	2.07	1.21	0.48	1.20

<b>Oklahoma</b>	0.74	6.63	1.47	12.89	2.91	1.50	1.05	1.51
<b>Oregon</b>	0.23	2.33	0.67	6.03	1.37	0.54	-0.17	-0.03
<b>Pennsylvania</b>	0.42	3.64	0.78	7.46	1.70	0.82	0.12	0.73
<b>Rhode Island</b>	0.41	3.72	1.09	9.75	2.21	0.85	0.60	0.70
<b>South Carolina</b>	0.54	4.77	1.02	9.55	2.18	1.08	0.61	1.02
<b>South Dakota</b>	0.46	4.03	1.07	9.65	2.19	0.91	0.70	0.86
<b>Tennessee</b>	0.65	5.77	1.41	12.93	2.94	1.30	0.98	1.32
<b>Texas</b>	0.53	4.30	1.01	8.68	1.96	0.96	0.43	1.00
<b>Utah</b>	0.33	3.05	0.71	6.16	1.39	0.69	-0.13	0.36
<b>Vermont</b>	0.32	3.36	0.93	8.34	1.89	0.78	0.37	0.55
<b>Virginia</b>	0.46	4.08	0.87	7.58	1.71	0.92	0.25	0.91
<b>Washington</b>	0.33	2.87	0.67	6.28	1.43	0.65	-0.07	0.26
<b>West Virginia</b>	0.68	5.99	1.30	12.00	2.73	1.35	0.90	1.29
<b>Wisconsin</b>	0.43	3.60	0.85	7.49	1.69	0.81	0.19	0.74
<b>Wyoming</b>	0.32	3.13	0.86	7.60	1.72	0.72	0.19	0.40

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S50. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in legumes. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-3.69	12.39	-7.47	23.29	7.85	4.10	0.43	0.61
Alaska	-1.88	6.50	-4.81	15.44	5.17	2.14	0.12	0.15
Arizona	-2.45	8.56	-5.12	16.51	5.52	2.81	0.18	0.36
Arkansas	-3.89	13.2	-8.07	24.77	8.38	4.36	0.50	0.62
California	-2.41	8.14	-4.72	15.45	5.15	2.69	0.11	0.31
Colorado	-1.88	6.65	-4.07	13.19	4.40	2.17	-0.01	0.15
Connecticut	-1.93	6.98	-3.98	13.35	4.42	2.27	0.00	0.18
Delaware	-2.77	9.36	-5.28	16.96	5.67	3.10	0.21	0.42
District of Columbia	-2.83	9.59	-5.06	16.18	5.42	3.17	0.18	0.41
Florida	-2.52	8.60	-5.12	16.26	5.45	2.84	0.17	0.35
Georgia	-2.94	9.66	-5.68	18.46	6.16	3.21	0.25	0.45
Hawaii	-1.60	5.37	-3.98	13.02	4.34	1.78	0.00	0.00
Idaho	-2.24	7.75	-5.16	16.31	5.48	2.55	0.18	0.28
Illinois	-2.69	9.13	-5.43	17.58	5.87	3.02	0.22	0.39
Indiana	-3.11	10.47	-6.61	20.71	6.97	3.46	0.34	0.49
Iowa	-2.80	9.15	-5.64	18.51	6.16	3.05	0.26	0.41
Kansas	-2.67	8.75	-5.25	17.03	5.68	2.91	0.21	0.36
Kentucky	-3.64	11.85	-7.39	23.25	7.82	3.95	0.43	0.56
Louisiana	-3.58	12.06	-6.85	21.99	7.36	3.99	0.39	0.58
Maine	-2.23	7.75	-4.89	15.31	5.15	2.55	0.12	0.27
Maryland	-2.59	9.02	-5.00	15.59	5.25	2.96	0.15	0.38
Massachusetts	-2.10	6.98	-4.4	14.56	4.84	2.32	0.07	0.19
Michigan	-3.5	11.32	-6.74	21.43	7.18	3.78	0.37	0.54
Minnesota	-1.6	5.33	-4.02	12.40	4.19	1.77	-0.04	-0.01
Mississippi	-4.15	13.16	-8.25	24.77	8.42	4.42	0.47	0.62
Missouri	-3.50	11.49	-6.61	21.60	7.19	3.82	0.37	0.54
Montana	-2.18	7.27	-5.18	15.91	5.38	2.41	0.17	0.25
Nebraska	-2.14	6.97	-4.76	14.90	5.01	2.32	0.10	0.21
Nevada	-2.90	9.77	-5.51	18.21	6.05	3.23	0.26	0.43
New Hampshire	-2.16	7.25	-4.48	14.41	4.82	2.40	0.08	0.22
New Jersey	-2.60	8.75	-5.04	16.28	5.44	2.90	0.17	0.38
New Mexico	-2.60	8.42	-5.01	15.72	5.29	2.81	0.16	0.36
New York	-2.99	10.67	-5.62	18.63	6.19	3.48	0.26	0.49
North Carolina	-2.90	9.38	-5.70	19.10	6.33	3.13	0.26	0.42
North Dakota	-2.23	7.19	-4.91	16.70	5.51	2.40	0.18	0.23
Ohio	-3.18	10.66	-6.38	20.39	6.83	3.53	0.33	0.50

<b>Oklahoma</b>	-4.15	14.01	-7.75	25.04	8.36	4.63	0.48	0.65
<b>Oregon</b>	-1.82	6.06	-4.24	13.96	4.64	2.01	0.04	0.10
<b>Pennsylvania</b>	-2.77	9.58	-5.79	18.31	6.15	3.15	0.26	0.42
<b>Rhode Island</b>	-2.84	9.59	-5.21	17.39	5.77	3.17	0.22	0.42
<b>South Carolina</b>	-3.24	10.16	-6.65	20.08	6.82	3.42	0.37	0.47
<b>South Dakota</b>	-2.39	7.95	-5.46	17.22	5.79	2.64	0.22	0.29
<b>Tennessee</b>	-3.73	12.47	-7.08	23.75	7.87	4.13	0.46	0.60
<b>Texas</b>	-2.91	9.55	-5.46	17.65	5.89	3.18	0.25	0.45
<b>Utah</b>	-2.26	7.83	-4.20	13.85	4.61	2.57	0.05	0.29
<b>Vermont</b>	-2.10	7.17	-4.79	14.99	5.05	2.36	0.12	0.21
<b>Virginia</b>	-2.56	8.28	-4.78	15.69	5.22	2.76	0.14	0.34
<b>Washington</b>	-2.03	7.01	-4.34	13.99	4.68	2.31	0.06	0.19
<b>West Virginia</b>	-4.09	13.11	-7.80	24.30	8.19	4.39	0.46	0.63
<b>Wisconsin</b>	-2.51	8.03	-5.10	16.61	5.54	2.69	0.19	0.30
<b>Wyoming</b>	-2.32	7.31	-4.95	16.10	5.37	2.46	0.17	0.25

**Table S51. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in legumes. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-2.95	10.17	-6.07	20.68	6.83	3.35	0.44	0.61
Alaska	-1.54	5.02	-4.07	12.94	4.34	1.68	0.09	0.10
Arizona	-2.13	6.94	-4.31	15.36	5.02	2.31	0.22	0.36
Arkansas	-3.84	12.67	-7.46	23.51	7.90	4.21	0.54	0.67
California	-1.79	6.04	-4.07	13.27	4.42	2.00	0.10	0.24
Colorado	-1.37	4.88	-3.34	11.29	3.73	1.60	-0.03	0.10
Connecticut	-1.60	5.66	-3.66	11.47	3.86	1.85	0.00	0.20
Delaware	-2.21	7.46	-4.68	14.95	5.01	2.47	0.21	0.39
District of Columbia	-2.07	7.43	-4.30	14.16	4.71	2.42	0.18	0.38
Florida	-1.97	7.13	-4.44	15.29	5.03	2.32	0.21	0.38
Georgia	-2.25	8.27	-4.99	15.71	5.28	2.68	0.29	0.47
Hawaii	-1.30	4.50	-3.42	11.47	3.80	1.48	0.00	0.00
Idaho	-1.83	6.50	-4.17	14.17	4.68	2.12	0.15	0.28
Illinois	-2.10	7.54	-4.27	15.47	5.04	2.46	0.21	0.38
Indiana	-2.64	9.02	-5.56	18.33	6.10	2.97	0.35	0.52
Iowa	-2.26	7.67	-5.11	17.73	5.83	2.53	0.32	0.42
Kansas	-2.47	8.22	-5.27	17.42	5.79	2.73	0.31	0.45
Kentucky	-3.05	10.61	-6.87	21.26	7.18	3.48	0.43	0.61
Louisiana	-3.26	11.02	-6.18	21.15	6.97	3.64	0.44	0.60
Maine	-1.82	6.52	-4.37	14.32	4.77	2.13	0.17	0.32
Maryland	-2.11	7.20	-4.26	13.23	4.46	2.38	0.14	0.36
Massachusetts	-1.59	5.28	-3.38	11.41	3.77	1.75	-0.04	0.10
Michigan	-2.74	9.53	-5.23	18.43	6.04	3.13	0.35	0.50
Minnesota	-1.43	4.95	-3.38	11.36	3.76	1.63	-0.02	0.08
Mississippi	-3.84	11.66	-8.04	24.05	8.19	3.95	0.53	0.66
Missouri	-2.67	9.33	-5.62	19.23	6.34	3.06	0.39	0.54
Montana	-2.01	6.71	-4.82	15.52	5.19	2.22	0.22	0.32
Nebraska	-1.85	6.57	-4.20	14.24	4.70	2.15	0.15	0.27
Nevada	-2.55	8.49	-5.77	18.55	6.21	2.81	0.34	0.46
New Hampshire	-1.77	6.39	-3.79	12.89	4.26	2.08	0.10	0.28
New Jersey	-1.89	6.74	-4.20	12.93	4.37	2.20	0.11	0.32
New Mexico	-2.48	7.92	-5.32	17.25	5.76	2.65	0.32	0.44
New York	-2.27	8.19	-4.75	15.21	5.09	2.67	0.24	0.44
North Carolina	-2.29	7.80	-4.98	16.03	5.36	2.57	0.26	0.42
North Dakota	-1.57	5.53	-4.13	13.45	4.48	1.81	0.10	0.16
Ohio	-2.61	9.24	-5.67	17.67	5.95	3.02	0.35	0.53

<b>Oklahoma</b>	-3.04	10.16	-6.01	19.2	6.43	3.37	0.41	0.63
<b>Oregon</b>	-1.36	4.71	-3.42	12.53	4.07	1.55	0.00	0.05
<b>Pennsylvania</b>	-2.33	8.00	-4.35	15.74	5.12	2.64	0.24	0.43
<b>Rhode Island</b>	-2.20	7.49	-4.37	15.65	5.11	2.47	0.21	0.39
<b>South Carolina</b>	-2.42	8.10	-5.48	17.40	5.84	2.68	0.34	0.48
<b>South Dakota</b>	-1.98	6.25	-4.88	16.20	5.38	2.10	0.29	0.28
<b>Tennessee</b>	-3.49	10.02	-6.93	22.27	7.45	3.45	0.48	0.61
<b>Texas</b>	-2.40	8.11	-5.25	17.50	5.80	2.68	0.28	0.47
<b>Utah</b>	-1.96	6.79	-3.54	12.14	4.00	2.23	0.03	0.30
<b>Vermont</b>	-1.94	6.79	-4.77	15.06	5.06	2.23	0.18	0.28
<b>Virginia</b>	-2.06	7.10	-4.47	13.53	4.59	2.34	0.14	0.37
<b>Washington</b>	-1.63	5.56	-3.46	11.78	3.89	1.83	0.02	0.15
<b>West Virginia</b>	-4.01	11.79	-6.55	21.44	7.14	4.03	0.46	0.67
<b>Wisconsin</b>	-2.17	6.76	-4.49	15.07	4.99	2.28	0.20	0.33
<b>Wyoming</b>	-1.78	5.97	-4.30	14.02	4.67	1.98	0.15	0.25

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S52. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in nuts and seeds. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.40	3.53	0.76	5.26	1.15	0.80	1.20	1.33
Alaska	0.16	1.59	0.33	2.90	0.65	0.36	0.09	0.12
Arizona	0.26	2.70	0.51	4.00	0.89	0.62	0.66	0.88
Arkansas	0.53	4.11	0.89	6.63	1.46	0.91	1.24	1.34
California	0.18	2.02	0.34	2.84	0.64	0.47	0.12	0.47
Colorado	0.21	1.76	0.36	2.97	0.67	0.40	0.08	0.36
Connecticut	0.12	1.38	0.20	2.29	0.53	0.32	-0.46	-0.10
Delaware	0.27	2.52	0.39	3.65	0.83	0.57	0.42	0.75
District of Columbia	0.13	1.60	0.23	2.14	0.49	0.38	-0.45	0.02
Florida	0.25	2.45	0.46	3.66	0.82	0.56	0.47	0.71
Georgia	0.28	2.83	0.57	4.15	0.91	0.65	0.74	0.95
Hawaii	0.14	1.39	0.36	2.70	0.60	0.32	0.00	0.00
Idaho	0.29	2.50	0.59	4.44	0.98	0.56	0.78	0.89
Illinois	0.24	2.22	0.46	3.45	0.76	0.51	0.42	0.66
Indiana	0.37	2.92	0.61	4.95	1.11	0.65	0.88	1.07
Iowa	0.30	2.72	0.60	4.28	0.94	0.62	0.73	0.84
Kansas	0.26	2.30	0.47	3.71	0.83	0.52	0.55	0.75
Kentucky	0.40	3.46	0.76	5.72	1.26	0.78	1.13	1.21
Louisiana	0.40	3.31	0.60	5.03	1.13	0.74	0.94	1.18
Maine	0.27	2.39	0.49	3.68	0.82	0.54	0.49	0.69
Maryland	0.18	2.02	0.36	2.76	0.61	0.47	0.03	0.41
Massachusetts	0.16	1.63	0.31	2.60	0.58	0.37	-0.12	0.12
Michigan	0.40	3.27	0.66	5.04	1.12	0.73	0.91	1.09
Minnesota	0.16	1.50	0.34	2.67	0.59	0.34	-0.01	0.02
Mississippi	0.46	4.15	0.93	6.21	1.35	0.94	1.34	1.39
Missouri	0.38	3.07	0.64	4.72	1.04	0.69	0.90	1.10
Montana	0.25	2.28	0.54	4.20	0.93	0.52	0.62	0.66
Nebraska	0.21	2.10	0.49	3.40	0.74	0.48	0.39	0.53
Nevada	0.30	2.55	0.49	3.81	0.85	0.57	0.65	0.87
New Hampshire	0.17	1.83	0.33	3.07	0.70	0.42	0.12	0.32
New Jersey	0.19	2.09	0.33	3.04	0.69	0.48	0.09	0.43
New Mexico	0.33	2.80	0.55	4.34	0.97	0.63	0.68	0.94
New York	0.23	2.44	0.43	3.65	0.82	0.56	0.37	0.72
North Carolina	0.30	2.73	0.53	4.09	0.91	0.62	0.73	0.89
North Dakota	0.24	2.09	0.43	3.54	0.79	0.47	0.42	0.51

<b>Ohio</b>	0.36	2.92	0.58	4.65	1.04	0.65	0.84	1.07
<b>Oklahoma</b>	0.43	3.91	0.77	5.86	1.30	0.89	1.11	1.26
<b>Oregon</b>	0.20	1.77	0.45	3.30	0.73	0.40	0.34	0.39
<b>Pennsylvania</b>	0.24	2.49	0.45	3.85	0.87	0.57	0.56	0.75
<b>Rhode Island</b>	0.27	2.55	0.43	3.69	0.83	0.58	0.51	0.83
<b>South Carolina</b>	0.37	3.06	0.71	5.14	1.13	0.69	1.02	1.12
<b>South Dakota</b>	0.25	2.49	0.49	3.99	0.89	0.57	0.55	0.58
<b>Tennessee</b>	0.38	3.60	0.83	5.48	1.19	0.82	1.10	1.19
<b>Texas</b>	0.26	2.65	0.56	3.80	0.83	0.61	0.60	0.84
<b>Utah</b>	0.32	2.65	0.49	3.92	0.88	0.60	0.60	0.96
<b>Vermont</b>	0.20	2.07	0.44	3.46	0.77	0.48	0.40	0.52
<b>Virginia</b>	0.24	2.01	0.35	3.06	0.69	0.45	0.19	0.50
<b>Washington</b>	0.18	1.84	0.33	3.05	0.69	0.42	0.13	0.35
<b>West Virginia</b>	0.49	4.06	0.87	6.65	1.47	0.91	1.22	1.43
<b>Wisconsin</b>	0.26	2.21	0.53	3.82	0.84	0.50	0.54	0.67
<b>Wyoming</b>	0.22	1.82	0.37	3.27	0.74	0.41	0.22	0.36

**Table S53. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in nuts and seeds. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	0.31	2.97	0.73	5.29	1.16	0.68	1.19	1.33
Alaska	0.12	1.13	0.30	2.68	0.61	0.26	0.07	0.02
Arizona	0.25	2.13	0.55	4.00	0.88	0.48	0.79	0.96
Arkansas	0.43	3.65	0.87	6.27	1.38	0.82	1.31	1.42
California	0.13	1.49	0.30	2.76	0.63	0.35	0.05	0.32
Colorado	0.11	1.32	0.29	2.52	0.57	0.31	0.01	0.23
Connecticut	0.09	1.43	0.20	2.27	0.53	0.34	-0.31	0.05
Delaware	0.24	1.96	0.38	3.72	0.85	0.44	0.52	0.87
District of Columbia	0.08	1.16	0.18	1.90	0.44	0.27	-0.56	-0.17
Florida	0.19	2.02	0.43	3.63	0.82	0.47	0.59	0.77
Georgia	0.24	2.36	0.55	4.05	0.89	0.54	0.83	1.00
Hawaii	0.11	1.08	0.33	2.53	0.56	0.25	0.00	0.00
Idaho	0.25	1.99	0.51	4.09	0.91	0.44	0.76	0.91
Illinois	0.20	1.66	0.39	3.15	0.70	0.37	0.46	0.70
Indiana	0.29	2.46	0.61	4.65	1.03	0.55	0.95	1.15
Iowa	0.23	2.13	0.51	4.30	0.97	0.48	0.82	0.88
Kansas	0.23	2.21	0.49	4.40	1.00	0.51	0.70	0.89
Kentucky	0.32	2.90	0.79	5.54	1.21	0.66	1.17	1.33
Louisiana	0.34	2.83	0.54	5.16	1.18	0.64	1.00	1.25
Maine	0.21	2.03	0.49	3.93	0.88	0.46	0.63	0.81
Maryland	0.14	1.64	0.35	2.74	0.61	0.38	0.10	0.45
Massachusetts	0.10	1.25	0.26	2.27	0.51	0.29	-0.26	-0.03
Michigan	0.27	2.64	0.56	4.58	1.02	0.61	0.88	1.03
Minnesota	0.13	1.35	0.32	2.84	0.64	0.31	0.13	0.21
Mississippi	0.46	3.43	0.87	6.77	1.50	0.76	1.43	1.54
Missouri	0.27	2.55	0.59	4.80	1.08	0.58	0.95	1.12
Montana	0.20	1.99	0.52	4.07	0.90	0.45	0.62	0.76
Nebraska	0.17	1.80	0.39	3.33	0.75	0.42	0.45	0.58
Nevada	0.28	2.37	0.54	4.61	1.04	0.54	0.87	1.04
New Hampshire	0.16	1.76	0.26	3.10	0.72	0.41	0.23	0.49
New Jersey	0.14	1.57	0.32	2.83	0.64	0.36	0.08	0.41
New Mexico	0.28	2.64	0.64	4.94	1.09	0.60	0.98	1.10
New York	0.15	1.81	0.36	3.13	0.71	0.42	0.29	0.58
North Carolina	0.23	2.13	0.54	4.05	0.90	0.49	0.77	0.95
North Dakota	0.13	1.30	0.31	2.69	0.61	0.30	0.09	0.16

<b>Ohio</b>	0.29	2.41	0.52	4.32	0.97	0.54	0.86	1.14
<b>Oklahoma</b>	0.33	2.70	0.59	4.95	1.11	0.60	0.93	1.27
<b>Oregon</b>	0.15	1.32	0.37	2.96	0.66	0.30	0.22	0.28
<b>Pennsylvania</b>	0.19	2.08	0.40	3.40	0.77	0.48	0.54	0.78
<b>Rhode Island</b>	0.20	2.07	0.41	3.84	0.88	0.48	0.59	0.80
<b>South Carolina</b>	0.31	2.39	0.62	4.73	1.05	0.53	0.97	1.15
<b>South Dakota</b>	0.17	1.72	0.39	3.69	0.84	0.39	0.62	0.55
<b>Tennessee</b>	0.33	2.89	0.73	5.32	1.17	0.65	1.11	1.23
<b>Texas</b>	0.23	2.16	0.47	3.89	0.87	0.49	0.65	0.86
<b>Utah</b>	0.24	2.18	0.45	3.50	0.78	0.50	0.62	0.95
<b>Vermont</b>	0.16	1.72	0.47	3.53	0.78	0.40	0.51	0.62
<b>Virginia</b>	0.17	1.77	0.35	3.02	0.68	0.41	0.24	0.56
<b>Washington</b>	0.14	1.36	0.29	2.61	0.59	0.31	0.05	0.25
<b>West Virginia</b>	0.48	3.66	0.80	5.98	1.32	0.81	1.25	1.54
<b>Wisconsin</b>	0.21	1.93	0.52	3.59	0.78	0.44	0.65	0.74
<b>Wyoming</b>	0.15	1.49	0.30	2.99	0.69	0.34	0.17	0.34

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S54. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in omega-6 polyunsaturated fatty acids, 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-2.45	5.34	-4.52	9.14	3.49	1.99	0.34	0.42
Alaska	-1.24	2.43	-1.91	4.29	1.58	0.94	0.01	0.14
Arizona	-1.74	3.76	-2.95	6.45	2.40	1.40	0.20	0.28
Arkansas	-2.86	5.85	-5.39	10.25	3.99	2.22	0.36	0.43
California	-1.19	2.69	-2.07	4.42	1.66	0.99	0.02	0.14
Colorado	-1.08	2.22	-1.82	3.95	1.47	0.84	-0.01	0.10
Connecticut	-0.79	1.71	-1.27	3.07	1.11	0.64	-0.18	-0.06
Delaware	-1.60	3.21	-2.30	5.28	1.93	1.23	0.10	0.23
District of Columbia	-0.78	1.88	-1.38	3.05	1.13	0.68	-0.13	0.03
Florida	-1.42	3.11	-2.69	5.62	2.12	1.16	0.12	0.23
Georgia	-1.86	4.01	-2.99	6.88	2.52	1.50	0.22	0.31
Hawaii	-0.86	1.94	-1.79	4.06	1.49	0.71	0.00	0.00
Idaho	-1.65	3.61	-3.38	7.01	2.65	1.34	0.23	0.28
Illinois	-1.44	3.04	-2.44	5.62	2.06	1.14	0.11	0.21
Indiana	-1.79	4.15	-3.59	7.87	2.92	1.52	0.26	0.34
Iowa	-1.93	3.56	-2.95	6.38	2.38	1.40	0.20	0.27
Kansas	-1.55	3.15	-2.82	5.86	2.21	1.20	0.16	0.23
Kentucky	-2.59	4.93	-4.26	9.34	3.47	1.92	0.36	0.39
Louisiana	-2.22	4.73	-3.61	7.48	2.83	1.77	0.31	0.37
Maine	-1.54	3.12	-2.37	5.79	2.08	1.19	0.14	0.20
Maryland	-1.06	2.46	-1.82	4.19	1.53	0.9	-0.01	0.14
Massachusetts	-1.52	2.95	-4.38	7.6	3.05	1.14	0.27	0.22
Michigan	-1.98	4.62	-3.64	7.57	2.86	1.68	0.27	0.35
Minnesota	-0.82	1.81	-1.71	4.01	1.46	0.67	-0.04	-0.01
Mississippi	-3.16	6.19	-4.84	11.51	4.17	2.38	0.38	0.44
Missouri	-1.87	4.45	-3.27	7.77	2.82	1.61	0.27	0.36
Montana	-1.41	3.14	-2.91	6.26	2.34	1.16	0.19	0.22
Nebraska	-1.30	2.67	-2.48	4.99	1.91	1.01	0.09	0.16
Nevada	-1.70	3.71	-2.93	6.33	2.36	1.38	0.17	0.26
New Hampshire	-1.07	2.24	-1.94	4.09	1.54	0.84	0.00	0.09
New Jersey	-1.2	2.40	-1.74	4.05	1.48	0.92	-0.02	0.12
New Mexico	-1.74	4.05	-3.28	6.9	2.6	1.48	0.21	0.31
New York	-1.54	3.19	-1.99	4.83	1.74	1.21	0.08	0.21
North Carolina	-1.77	3.69	-3.20	6.67	2.52	1.39	0.22	0.30
North Dakota	-1.32	2.56	-2.69	5.78	2.16	0.99	0.11	0.16

<b>Ohio</b>	-1.90	4.33	-3.43	7.60	2.81	1.59	0.25	0.32
<b>Oklahoma</b>	-2.73	5.32	-4.60	9.86	3.69	2.05	0.32	0.40
<b>Oregon</b>	-1.18	2.45	-2.27	5.01	1.86	0.92	0.10	0.13
<b>Pennsylvania</b>	-1.51	3.23	-2.91	5.60	2.17	1.21	0.15	0.24
<b>Rhode Island</b>	-1.68	3.34	-2.45	5.43	2.01	1.28	0.13	0.24
<b>South Carolina</b>	-2.26	4.40	-4.06	8.56	3.22	1.70	0.32	0.35
<b>South Dakota</b>	-1.36	3.03	-3.00	5.88	2.27	1.12	0.15	0.21
<b>Tennessee</b>	-2.18	4.93	-3.93	9.22	3.35	1.81	0.32	0.40
<b>Texas</b>	-1.63	3.56	-2.73	5.88	2.20	1.33	0.17	0.29
<b>Utah</b>	-1.72	3.66	-2.79	5.86	2.21	1.37	0.16	0.28
<b>Vermont</b>	-1.32	2.58	-1.99	4.98	1.78	1.00	0.10	0.15
<b>Virginia</b>	-1.23	2.71	-2.10	4.76	1.75	1.00	0.04	0.17
<b>Washington</b>	-0.95	2.33	-2.16	4.45	1.69	0.84	0.02	0.10
<b>West Virginia</b>	-2.63	6.32	-5.33	10.50	4.04	2.28	0.37	0.45
<b>Wisconsin</b>	-1.37	2.92	-2.49	5.86	2.13	1.10	0.16	0.21
<b>Wyoming</b>	-1.07	2.46	-2.22	4.94	1.83	0.90	0.06	0.11

**Table S55. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in omega-6 polyunsaturated fatty acids, 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	-1.91	4.09	-3.39	7.98	2.90	1.53	0.35	0.41
Alaska	-0.91	1.88	-1.54	3.25	1.22	0.71	0.01	0.12
Arizona	-1.24	2.90	-2.38	5.38	1.98	1.05	0.25	0.29
Arkansas	-2.53	4.74	-4.62	8.96	3.47	1.85	0.35	0.43
California	-0.84	1.71	-1.29	3.21	1.15	0.65	-0.01	0.06
Colorado	-0.64	1.54	-1.26	2.86	1.05	0.56	-0.04	0.04
Connecticut	-0.60	1.31	-1.01	2.32	0.85	0.49	-0.14	-0.03
Delaware	-1.22	2.53	-2.01	4.68	1.71	0.96	0.15	0.24
District of Columbia	-0.47	1.08	-0.90	2.13	0.77	0.40	-0.18	-0.08
Florida	-1.10	2.34	-2.13	4.68	1.74	0.88	0.16	0.25
Georgia	-1.47	3.22	-2.49	5.59	2.06	1.19	0.25	0.31
Hawaii	-0.65	1.38	-1.53	3.19	1.20	0.52	0.00	0.00
Idaho	-1.30	2.54	-2.40	5.50	2.02	0.98	0.23	0.27
Illinois	-0.97	2.23	-1.87	4.19	1.55	0.82	0.10	0.19
Indiana	-1.62	3.30	-2.87	6.06	2.28	1.25	0.27	0.33
Iowa	-1.35	2.79	-2.34	5.46	1.99	1.06	0.24	0.26
Kansas	-1.40	2.83	-2.46	5.27	1.97	1.08	0.22	0.25
Kentucky	-2.02	4.06	-3.62	7.79	2.91	1.55	0.35	0.40
Louisiana	-1.81	3.55	-2.87	6.98	2.51	1.37	0.31	0.38
Maine	-1.19	2.49	-2.29	4.95	1.85	0.94	0.18	0.24
Maryland	-0.86	1.83	-1.50	3.33	1.23	0.69	0.00	0.11
Massachusetts	-1.02	1.84	-2.90	4.94	2.00	0.73	0.21	0.16
Michigan	-1.42	3.34	-2.60	5.64	2.10	1.22	0.25	0.33
Minnesota	-0.75	1.54	-1.42	3.27	1.20	0.58	0.00	0.04
Mississippi	-2.35	5.07	-4.26	9.68	3.56	1.89	0.43	0.45
Missouri	-1.51	3.46	-2.80	6.64	2.41	1.27	0.29	0.34
Montana	-1.14	2.51	-2.56	4.85	1.89	0.93	0.19	0.23
Nebraska	-0.91	2.07	-1.83	4.18	1.53	0.76	0.10	0.18
Nevada	-1.50	3.09	-2.62	6.38	2.30	1.17	0.27	0.31
New Hampshire	-0.84	1.97	-1.52	3.45	1.27	0.72	0.03	0.13
New Jersey	-0.74	1.71	-1.31	3.18	1.14	0.62	-0.03	0.09
New Mexico	-1.70	3.15	-3.23	7.04	2.62	1.24	0.30	0.36
New York	-0.98	2.12	-1.48	3.34	1.23	0.79	0.04	0.15
North Carolina	-1.33	2.67	-2.40	5.62	2.05	1.02	0.23	0.32
North Dakota	-0.65	1.39	-1.44	3.38	1.23	0.52	0.00	0.03

<b>Ohio</b>	-1.31	3.20	-2.69	5.97	2.21	1.15	0.25	0.33
<b>Oklahoma</b>	-1.67	3.69	-3.25	6.69	2.53	1.37	0.28	0.37
<b>Oregon</b>	-0.77	1.64	-1.71	3.73	1.39	0.62	0.06	0.08
<b>Pennsylvania</b>	-1.23	2.32	-1.94	4.42	1.62	0.90	0.14	0.23
<b>Rhode Island</b>	-1.19	2.37	-2.01	4.61	1.69	0.91	0.15	0.23
<b>South Carolina</b>	-1.59	3.26	-3.05	6.34	2.39	1.24	0.30	0.34
<b>South Dakota</b>	-0.97	2.08	-2.15	4.85	1.79	0.78	0.19	0.18
<b>Tennessee</b>	-1.62	3.64	-3.33	7.23	2.69	1.34	0.34	0.38
<b>Texas</b>	-1.32	2.65	-2.38	4.66	1.79	1.01	0.19	0.28
<b>Utah</b>	-1.42	2.63	-2.11	4.39	1.66	1.03	0.15	0.26
<b>Vermont</b>	-0.95	2.19	-1.82	4.39	1.58	0.80	0.14	0.18
<b>Virginia</b>	-0.96	2.04	-1.82	3.80	1.43	0.77	0.06	0.19
<b>Washington</b>	-0.60	1.58	-1.25	3.20	1.13	0.56	-0.02	0.04
<b>West Virginia</b>	-2.41	5.23	-4.24	8.16	3.16	1.95	0.37	0.46
<b>Wisconsin</b>	-1.01	2.36	-1.94	4.81	1.72	0.86	0.18	0.22
<b>Wyoming</b>	-0.75	1.68	-1.63	3.71	1.36	0.62	0.05	0.11

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S56. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in seafood omega-3 fatty acids. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.65	15.08	2.76	23.36	5.26	3.43	1.06	1.37
Alaska	0.79	7.28	1.62	14.30	3.23	1.66	0.21	0.27
Arizona	1.02	10.27	1.81	16.33	3.71	2.36	0.45	0.77
Arkansas	2.08	18.66	3.67	32.44	7.34	4.23	1.46	1.60
California	0.94	9.11	1.50	14.73	3.38	2.08	0.22	0.63
Colorado	0.94	8.89	1.75	15.73	3.57	2.03	0.40	0.61
Connecticut	0.71	7.23	1.17	11.46	2.62	1.66	-0.21	0.22
Delaware	1.16	10.52	1.75	16.69	3.81	2.39	0.43	0.90
District of Columbia	1.05	10.34	1.50	14.79	3.39	2.37	0.20	0.81
Florida	1.00	9.71	1.82	16.02	3.62	2.22	0.38	0.76
Georgia	1.30	11.36	2.00	18.12	4.11	2.57	0.62	1.03
Hawaii	0.65	6.25	1.37	12.67	2.88	1.43	0.00	0.00
Idaho	1.12	10.41	2.35	20.41	4.61	2.37	0.85	0.90
Illinois	1.12	10.36	1.77	16.84	3.84	2.36	0.48	0.85
Indiana	1.32	12.52	2.35	20.33	4.59	2.86	0.83	1.11
Iowa	1.43	12.64	2.53	22.62	5.12	2.86	0.98	1.19
Kansas	1.34	11.86	2.26	21.41	4.89	2.68	0.86	1.09
Kentucky	1.55	14.44	2.71	23.26	5.24	3.29	1.07	1.29
Louisiana	1.55	14.38	2.45	22.16	5.03	3.27	0.93	1.31
Maine	0.89	8.77	1.66	15.25	3.47	2.01	0.29	0.58
Maryland	1.05	9.84	1.50	14.88	3.41	2.24	0.23	0.77
Massachusetts	0.78	7.46	1.35	13.20	3.02	1.70	0.03	0.31
Michigan	1.43	13.25	2.34	21.19	4.81	3.02	0.87	1.23
Minnesota	0.62	5.89	1.30	11.94	2.71	1.34	-0.12	-0.09
Mississippi	1.77	15.98	2.95	25.35	5.71	3.63	1.20	1.49
Missouri	1.78	15.88	3.01	26.09	5.89	3.60	1.24	1.46
Montana	0.89	8.55	1.82	16.43	3.73	1.95	0.44	0.56
Nebraska	1.03	9.54	2.08	17.77	4.00	2.17	0.67	0.75
Nevada	1.18	10.85	1.96	17.68	4.01	2.47	0.57	0.95
New Hampshire	0.81	7.92	1.41	13.70	3.14	1.81	0.09	0.39
New Jersey	1.00	9.88	1.58	15.49	3.55	2.27	0.24	0.71
New Mexico	1.27	11.74	2.26	20.04	4.53	2.67	0.80	1.04
New York	1.19	11.72	1.75	17.22	3.95	2.68	0.49	0.99
North Carolina	1.13	11.25	2.06	18.76	4.26	2.58	0.64	0.94
North Dakota	0.88	8.33	1.81	15.73	3.55	1.90	0.41	0.51

<b>Ohio</b>	1.35	12.53	2.18	20.28	4.62	2.85	0.77	1.13
<b>Oklahoma</b>	2.15	19.20	3.45	30.76	6.97	4.35	1.44	1.68
<b>Oregon</b>	0.72	7.21	1.44	13.38	3.05	1.65	0.13	0.23
<b>Pennsylvania</b>	1.15	10.6	1.90	17.58	4.00	2.41	0.57	0.91
<b>Rhode Island</b>	1.14	10.59	1.80	16.41	3.73	2.41	0.46	0.90
<b>South Carolina</b>	1.36	12.27	2.40	21.33	4.83	2.78	0.92	1.12
<b>South Dakota</b>	0.97	9.19	1.86	17.25	3.93	2.10	0.50	0.63
<b>Tennessee</b>	1.64	14.94	2.59	24.42	5.57	3.39	1.04	1.37
<b>Texas</b>	1.21	11.42	1.96	17.38	3.94	2.61	0.58	1.00
<b>Utah</b>	1.01	9.13	1.50	14.25	3.25	2.07	0.18	0.63
<b>Vermont</b>	0.86	8.16	1.61	14.85	3.38	1.86	0.26	0.43
<b>Virginia</b>	1.01	9.51	1.63	14.63	3.32	2.17	0.26	0.70
<b>Washington</b>	0.78	7.76	1.44	14.25	3.27	1.78	0.10	0.37
<b>West Virginia</b>	2.19	18.41	3.42	30.52	6.91	4.14	1.41	1.62
<b>Wisconsin</b>	0.94	9.19	1.69	16.34	3.74	2.10	0.42	0.66
<b>Wyoming</b>	1.13	10.24	2.17	20.11	4.58	2.32	0.74	0.84

**Table S57. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in seafood omega-3 fatty acids. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.24	11.95	1.98	19.73	4.53	2.73	1.01	1.34
Alaska	0.60	5.34	1.17	11.34	2.59	1.21	0.13	0.21
Arizona	0.83	8.13	1.40	14.02	3.22	1.86	0.53	0.80
Arkansas	2.09	17.1	3.15	29.51	6.73	3.83	1.48	1.74
California	0.65	6.26	1.32	11.64	2.63	1.43	0.10	0.45
Colorado	0.67	6.37	1.36	12.16	2.75	1.45	0.34	0.50
Connecticut	0.60	5.73	0.93	9.41	2.16	1.31	-0.20	0.28
Delaware	0.85	8.13	1.36	13.61	3.12	1.86	0.43	0.81
District of Columbia	0.73	7.15	1.00	10.79	2.50	1.64	0.01	0.66
Florida	0.82	7.77	1.36	13.96	3.22	1.77	0.45	0.82
Georgia	0.92	9.26	1.63	15.12	3.44	2.13	0.67	1.04
Hawaii	0.49	4.90	1.06	10.64	2.44	1.13	0.00	0.00
Idaho	0.91	8.27	1.81	16.72	3.80	1.88	0.78	0.93
Illinois	0.82	7.78	1.19	13.58	3.16	1.78	0.38	0.81
Indiana	1.06	9.88	1.83	16.67	3.78	2.25	0.78	1.16
Iowa	1.09	10.51	2.17	19.86	4.51	2.40	1.10	1.20
Kansas	1.15	11.01	2.06	20.64	4.74	2.52	1.03	1.27
Kentucky	1.24	12.27	2.18	19.92	4.53	2.81	1.03	1.35
Louisiana	1.25	12.15	2.05	19.41	4.43	2.78	0.97	1.35
Maine	0.72	7.14	1.51	12.92	2.91	1.64	0.41	0.68
Maryland	0.86	7.40	1.33	11.23	2.53	1.67	0.19	0.74
Massachusetts	0.58	5.24	0.91	9.13	2.10	1.19	-0.30	0.07
Michigan	1.02	10.35	1.56	16.75	3.88	2.38	0.75	1.09
Minnesota	0.56	5.09	0.98	10.08	2.32	1.16	-0.10	0.11
Mississippi	1.63	13.23	2.58	23.03	5.22	2.96	1.30	1.62
Missouri	1.44	12.61	2.61	22.48	5.07	2.85	1.26	1.45
Montana	0.79	7.53	1.52	13.84	3.14	1.72	0.51	0.68
Nebraska	0.87	8.42	1.64	16.05	3.67	1.93	0.74	0.89
Nevada	1.02	9.31	1.81	17.10	3.90	2.11	0.78	1.05
New Hampshire	0.69	6.75	1.09	11.10	2.55	1.55	0.10	0.48
New Jersey	0.67	7.10	1.23	11.05	2.51	1.64	0.07	0.55
New Mexico	1.17	10.52	2.32	21.81	4.97	2.39	1.11	1.31
New York	0.86	8.20	1.29	13.10	3.01	1.87	0.35	0.86
North Carolina	0.89	8.68	1.53	15.47	3.56	1.99	0.60	0.96
North Dakota	0.61	5.81	1.32	11.03	2.48	1.33	0.13	0.29

<b>Ohio</b>	0.99	10.31	1.74	17.08	3.91	2.38	0.73	1.13
<b>Oklahoma</b>	1.63	13.93	2.39	22.99	5.25	3.14	1.28	1.63
<b>Oregon</b>	0.51	5.13	1.10	11.01	2.53	1.18	0.01	0.12
<b>Pennsylvania</b>	0.93	8.11	1.41	14.12	3.24	1.83	0.46	0.95
<b>Rhode Island</b>	0.86	7.82	1.35	13.52	3.10	1.78	0.40	0.81
<b>South Carolina</b>	1.02	9.47	1.65	16.65	3.83	2.16	0.81	1.08
<b>South Dakota</b>	0.69	6.87	1.51	15.01	3.44	1.58	0.61	0.64
<b>Tennessee</b>	1.26	11.36	2.29	21.07	4.79	2.57	1.03	1.40
<b>Texas</b>	1.01	8.95	1.68	15.52	3.53	2.03	0.62	1.03
<b>Utah</b>	0.77	7.08	1.13	11.17	2.56	1.61	0.11	0.66
<b>Vermont</b>	0.80	7.06	1.36	13.17	3.01	1.60	0.37	0.60
<b>Virginia</b>	0.87	7.83	1.32	12.21	2.78	1.77	0.26	0.76
<b>Washington</b>	0.57	5.60	1.08	10.38	2.37	1.28	-0.04	0.24
<b>West Virginia</b>	1.94	16.10	2.77	25.75	5.86	3.61	1.41	1.76
<b>Wisconsin</b>	0.81	7.37	1.33	13.33	3.06	1.67	0.43	0.73
<b>Wyoming</b>	0.85	8.03	1.69	16.07	3.67	1.83	0.73	0.85

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S58. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in vegetables. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.51	5.21	3.09	10.04	1.77	0.94	1.43	2.04
Alaska	0.66	2.33	1.47	5.33	0.99	0.43	-0.11	0.27
Arizona	0.29	1.27	0.88	3.40	0.64	0.25	-1.26	-1.21
Arkansas	1.42	5.10	2.70	9.45	1.72	0.94	1.27	1.89
California	0.48	2.04	0.84	3.64	0.71	0.40	-1.14	-0.11
Colorado	0.58	2.20	1.28	4.47	0.81	0.41	-0.55	0.11
Connecticut	0.59	2.23	1.24	4.64	0.87	0.42	-0.51	0.12
Delaware	1.05	3.94	2.18	7.39	1.33	0.74	0.74	1.42
District of Columbia	1.20	4.15	2.04	7.23	1.32	0.75	0.66	1.61
Florida	0.76	2.77	1.48	5.32	0.98	0.51	-0.11	0.71
Georgia	0.47	1.91	1.53	5.27	0.95	0.37	-0.14	-0.28
Hawaii	0.56	2.04	1.61	5.38	0.96	0.38	0.00	0.00
Idaho	0.75	2.70	1.97	6.36	1.12	0.5	0.43	0.71
Illinois	1.08	3.89	2.22	7.38	1.32	0.72	0.76	1.45
Indiana	1.08	4.00	2.44	8.12	1.45	0.75	0.97	1.47
Iowa	0.87	3.27	1.71	6.20	1.15	0.61	0.23	1.04
Kansas	0.83	3.07	1.79	6.13	1.11	0.57	0.25	0.88
Kentucky	1.28	4.67	2.52	8.47	1.52	0.87	1.09	1.71
Louisiana	1.27	4.58	2.68	8.85	1.57	0.84	1.15	1.78
Maine	0.56	2.25	1.17	4.31	0.80	0.43	-0.66	0.11
Maryland	0.44	1.79	0.74	3.03	0.58	0.35	-1.52	-0.39
Massachusetts	0.65	2.44	1.50	5.38	0.99	0.46	-0.11	0.37
Michigan	0.97	3.62	1.89	6.90	1.28	0.68	0.53	1.28
Minnesota	0.44	1.70	1.35	4.61	0.83	0.32	-0.45	-0.48
Mississippi	1.54	5.22	3.11	10.51	1.89	0.94	1.53	2.00
Missouri	1.17	4.39	2.21	7.80	1.43	0.82	0.85	1.55
Montana	0.64	2.40	1.69	6.02	1.10	0.45	0.19	0.35
Nebraska	0.61	2.35	1.40	4.97	0.91	0.44	-0.27	0.27
Nevada	0.86	3.25	1.91	6.58	1.19	0.61	0.45	1.05
New Hampshire	0.60	2.35	1.39	5.23	0.98	0.45	-0.21	0.28
New Jersey	0.75	3.00	1.53	5.59	1.03	0.57	0.01	0.76
New Mexico	0.74	2.9	1.61	5.71	1.04	0.55	0.07	0.72
New York	0.95	3.68	1.86	6.51	1.19	0.70	0.38	1.21
North Carolina	0.93	3.40	1.88	6.69	1.23	0.63	0.49	1.15
North Dakota	0.41	1.64	1.47	5.36	0.99	0.31	-0.13	-0.64
Ohio	0.41	1.90	0.85	3.72	0.73	0.38	-1.11	-0.40

<b>Oklahoma</b>	1.41	4.90	2.64	8.88	1.59	0.89	1.17	1.88
<b>Oregon</b>	0.56	2.17	1.38	4.83	0.88	0.41	-0.33	0.11
<b>Pennsylvania</b>	0.80	3.02	1.84	6.56	1.20	0.57	0.42	0.83
<b>Rhode Island</b>	0.95	3.52	1.95	6.54	1.17	0.66	0.46	1.24
<b>South Carolina</b>	1.06	3.73	2.44	7.90	1.39	0.68	0.93	1.38
<b>South Dakota</b>	0.14	0.84	0.73	3.09	0.60	0.18	-1.46	-1.97
<b>Tennessee</b>	1.24	4.33	2.62	8.47	1.49	0.79	1.15	1.67
<b>Texas</b>	0.86	3.16	1.73	6.19	1.14	0.59	0.27	1.01
<b>Utah</b>	0.69	2.70	1.42	4.93	0.89	0.51	-0.29	0.53
<b>Vermont</b>	0.62	2.34	1.64	5.67	1.03	0.44	0.10	0.23
<b>Virginia</b>	0.65	2.56	1.45	5.29	0.98	0.49	-0.16	0.43
<b>Washington</b>	0.62	2.40	1.48	5.28	0.97	0.45	-0.16	0.28
<b>West Virginia</b>	1.24	4.53	2.71	9.27	1.67	0.84	1.26	1.70
<b>Wisconsin</b>	0.72	2.69	1.70	5.84	1.06	0.50	0.14	0.62
<b>Wyoming</b>	0.74	2.76	1.86	6.46	1.17	0.51	0.32	0.66

**Table S59. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in vegetables. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	1.19	4.30	2.53	8.85	1.61	0.80	1.32	1.95
Alaska	0.47	1.68	1.14	4.30	0.81	0.31	-0.40	0.07
Arizona	0.23	1.02	0.70	2.93	0.57	0.20	-1.13	-1.16
Arkansas	1.34	4.83	2.50	9.00	1.66	0.89	1.27	2.00*
California	0.33	1.46	0.62	2.85	0.57	0.29	-1.29	-0.44
Colorado	0.42	1.52	0.92	3.49	0.66	0.28	-0.70	-0.12
Connecticut	0.46	1.77	1.04	3.92	0.74	0.33	-0.58	0.09
Delaware	0.81	3.03	1.72	6.52	1.22	0.57	0.63	1.30
District of Columbia	0.89	3.22	1.64	6.57	1.26	0.59	0.62	1.54
Florida	0.66	2.48	1.25	5.00	0.96	0.46	-0.08	0.80
Georgia	0.38	1.56	1.23	4.73	0.89	0.30	-0.09	-0.25
Hawaii	0.44	1.66	1.31	4.97	0.93	0.31	0.00	0.00
Idaho	0.59	2.20	1.48	5.54	1.04	0.41	0.28	0.71
Illinois	0.82	3.06	1.71	6.40	1.20	0.57	0.64	1.42
Indiana	0.87	3.38	1.99	7.07	1.30	0.64	0.89	1.46
Iowa	0.67	2.69	1.50	5.66	1.06	0.51	0.29	1.02
Kansas	0.76	2.80	1.59	5.95	1.11	0.52	0.42	1.14
Kentucky	1.05	3.95	2.02	7.58	1.42	0.74	0.97	1.77
Louisiana	1.08	4.01	2.36	8.32	1.52	0.75	1.18	1.81
Maine	0.45	1.90	1.02	3.77	0.70	0.37	-0.57	0.24
Maryland	0.34	1.34	0.63	2.53	0.48	0.25	-1.44	-0.48
Massachusetts	0.45	1.77	0.99	3.95	0.75	0.34	-0.53	0.04
Michigan	0.72	3.01	1.49	5.74	1.08	0.58	0.35	1.09
Minnesota	0.39	1.50	1.09	4.08	0.76	0.28	-0.44	-0.25
Mississippi	1.29	4.55	2.81	9.82	1.79	0.83	1.57	2.06*
Missouri	0.96	3.35	1.75	6.71	1.26	0.61	0.78	1.55
Montana	0.56	2.25	1.5	5.5	1.02	0.43	0.27	0.56
Nebraska	0.52	2.05	1.19	4.34	0.80	0.39	-0.22	0.39
Nevada	0.75	2.86	1.75	6.49	1.21	0.54	0.68	1.18
New Hampshire	0.49	1.99	1.17	4.43	0.83	0.38	-0.23	0.38
New Jersey	0.54	2.14	1.11	4.38	0.84	0.41	-0.24	0.55
New Mexico	0.69	2.65	1.57	6.06	1.15	0.50	0.49	1.01
New York	0.67	2.80	1.49	5.40	1.00	0.54	0.21	0.97
North Carolina	0.80	2.85	1.65	6.04	1.12	0.52	0.49	1.22
North Dakota	0.27	1.15	1.05	3.89	0.73	0.22	-0.48	-0.88
Ohio	0.32	1.59	0.73	3.11	0.61	0.32	-1.12	-0.36

<b>Oklahoma</b>	1.01	3.71	1.87	6.90	1.28	0.69	0.77	1.66
<b>Oregon</b>	0.42	1.65	1.03	4.03	0.77	0.31	-0.46	-0.04
<b>Pennsylvania</b>	0.59	2.28	1.36	5.46	1.05	0.43	0.18	0.65
<b>Rhode Island</b>	0.70	2.75	1.56	5.56	1.02	0.52	0.37	1.08
<b>South Carolina</b>	0.81	3.06	1.85	6.83	1.27	0.57	0.72	1.29
<b>South Dakota</b>	0.11	0.69	0.60	2.82	0.57	0.15	-1.28	-1.91
<b>Tennessee</b>	0.88	3.53	2.23	7.97	1.47	0.68	1.11	1.50
<b>Texas</b>	0.66	2.51	1.54	5.57	1.03	0.47	0.31	0.92
<b>Utah</b>	0.56	2.17	1.07	4.28	0.82	0.41	-0.35	0.60
<b>Vermont</b>	0.58	2.10	1.39	5.36	1.01	0.39	0.21	0.51
<b>Virginia</b>	0.51	2.16	1.24	4.42	0.81	0.42	-0.21	0.45
<b>Washington</b>	0.45	1.74	1.18	4.33	0.80	0.33	-0.35	0.09
<b>West Virginia</b>	1.05	4.01	2.27	8.03	1.47	0.75	1.17	1.78
<b>Wisconsin</b>	0.59	2.30	1.37	5.15	0.97	0.44	0.15	0.66
<b>Wyoming</b>	0.57	2.16	1.42	5.25	0.98	0.40	0.19	0.61

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\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S60. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in whole grains. 2011.**

States	Z score 2011							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	5.73	13.57	11.43	26.72	3.90	2.00	1.80	2.49
Alaska	2.89	7.46	7.87	18.09	2.61	1.17	0.55	0.59
Arizona	3.66	9.26	8.22	18.41	2.6	1.43	0.70	1.33
Arkansas	5.96	14.54	12.29	29.04	4.27	2.19	2.05	2.50
California	3.50	9.00	7.41	17.94	2.69	1.40	0.46	1.19
Colorado	2.74	7.15	6.54	15.22	2.21	1.13	-0.10	0.51
Connecticut	3.10	7.89	6.65	15.67	2.30	1.22	0.06	0.73
Delaware	4.21	10.53	8.62	19.73	2.83	1.61	0.88	1.63
District of Columbia	4.42	11.02	8.36	20.51	3.10	1.68	0.87	1.81
Florida	3.77	9.40	8.10	18.62	2.68	1.44	0.69	1.35
Georgia	4.42	10.76	8.79	20.87	3.08	1.62	1.02	1.78
Hawaii	2.40	6.11	6.65	15.66	2.30	0.95	0.00	0.00
Idaho	3.28	8.31	8.08	18.73	2.72	1.28	0.63	0.97
Illinois	4.11	10.11	8.87	20.36	2.93	1.53	0.95	1.57
Indiana	4.54	11.38	10.44	23.67	3.37	1.75	1.44	1.95
Iowa	4.17	10.33	9.20	21.25	3.07	1.57	1.05	1.59
Kansas	3.85	9.48	8.43	19.57	2.84	1.43	0.85	1.43
Kentucky	5.31	12.94	11.62	26.63	3.83	1.95	1.83	2.28
Louisiana	5.46	13.30	11.17	25.30	3.61	2.00	1.66	2.36
Maine	3.27	8.23	7.48	17.61	2.58	1.27	0.42	0.97
Maryland	4.12	10.00	7.99	19.02	2.81	1.50	0.65	1.58
Massachusetts	3.01	7.79	7.18	17.03	2.51	1.22	0.31	0.73
Michigan	4.98	12.68	10.19	24.71	3.70	1.96	1.49	2.12
Minnesota	2.25	5.88	6.03	14.49	2.16	0.92	-0.23	-0.14
Mississippi	5.99	14.35	12.30	28.13	4.04	2.13	2.02	2.60
Missouri	5.08	12.81	10.86	24.84	3.57	1.97	1.58	2.15
Montana	3.13	8.11	7.89	18.69	2.76	1.27	0.65	0.86
Nebraska	3.06	7.75	7.38	17.32	2.54	1.2	0.38	0.78
Nevada	4.25	10.57	9.04	21.29	3.13	1.61	1.06	1.70
New Hampshire	3.05	8.00	7.12	16.87	2.49	1.26	0.32	0.80
New Jersey	3.88	10.07	8.16	19.32	2.85	1.58	0.72	1.46
New Mexico	3.62	9.27	7.71	18.26	2.69	1.44	0.54	1.28
New York	4.56	11.84	9.15	21.70	3.20	1.86	1.09	1.88
North Carolina	4.22	10.45	9.06	21.31	3.13	1.59	1.08	1.64
North Dakota	3.34	8.18	8.36	19.10	2.74	1.24	0.73	0.90

<b>Ohio</b>	4.94	11.80	9.90	23.31	3.42	1.75	1.36	2.04
<b>Oklahoma</b>	6.45	15.36	12.15	29.13	4.33	2.27	1.96	2.70
<b>Oregon</b>	2.63	6.64	6.64	15.80	2.34	1.02	0.06	0.30
<b>Pennsylvania</b>	4.27	10.29	9.26	21.92	3.23	1.54	1.05	1.70
<b>Rhode Island</b>	4.23	10.36	8.39	19.83	2.92	1.57	0.88	1.67
<b>South Carolina</b>	4.58	11.05	10.25	24.06	3.52	1.65	1.50	1.93
<b>South Dakota</b>	3.44	8.56	8.45	19.99	2.94	1.31	0.89	1.15
<b>Tennessee</b>	5.54	13.75	12.23	27.49	3.89	2.09	1.94	2.44
<b>Texas</b>	4.32	10.79	8.62	21.10	3.18	1.65	0.97	1.76
<b>Utah</b>	3.21	8.20	6.57	15.67	2.32	1.27	0.02	0.96
<b>Vermont</b>	3.06	7.73	7.40	17.57	2.60	1.19	0.44	0.75
<b>Virginia</b>	3.72	9.40	7.89	18.48	2.70	1.45	0.60	1.35
<b>Washington</b>	3.03	7.52	7.05	16.23	2.34	1.14	0.21	0.70
<b>West Virginia</b>	5.84	14.33	11.98	27.28	3.90	2.17	1.95	2.50
<b>Wisconsin</b>	3.58	8.81	7.84	19.10	2.87	1.33	0.71	1.18
<b>Wyoming</b>	3.23	8.39	8.23	19.21	2.80	1.32	0.73	0.99

**Table S61. Z-Values of MPR (95% UI) for age-standardised mortality rates for IHD attributable to Diet low in whole grains. 2021.**

States	Z score 2021							
	UI lower female	UI upper female	UI lower male	UI upper male	SE male	SE female	Z male	Z female
Alabama	4.37	11.47	9.61	24.62	3.83	1.81	1.63	2.26*
Alaska	2.29	5.76	6.33	15.78	2.41	0.89	0.32	0.45
Arizona	3.01	7.82	7.10	18.11	2.81	1.23	0.71	1.30
Arkansas	5.51	14.00	11.91	29.01	4.36	2.17	2.08*	2.67*†
California	2.60	6.83	6.44	16.52	2.57	1.08	0.37	0.93
Colorado	2.03	5.52	5.11	13.59	2.16	0.89	-0.17	0.30
Connecticut	2.36	6.70	5.59	14.45	2.26	1.11	0.04	0.75
Delaware	3.18	8.14	7.12	18.12	2.81	1.27	0.75	1.46
District of Columbia	3.37	8.95	6.85	19.34	3.19	1.42	0.78	1.61
Florida	3.06	8.00	7.03	18.42	2.91	1.26	0.74	1.39
Georgia	3.61	9.31	7.74	19.88	3.10	1.45	1.03	1.74
Hawaii	1.83	5.00	5.30	14.29	2.29	0.81	0.00	0.00
Idaho	2.64	6.77	6.37	16.76	2.65	1.05	0.43	0.98
Illinois	3.04	8.37	7.29	18.33	2.82	1.36	0.77	1.42
Indiana	3.79	9.80	8.44	21.84	3.42	1.53	1.25	2.00*
Iowa	3.45	8.91	8.54	20.94	3.16	1.39	1.17	1.58
Kansas	3.55	9.21	7.92	20.81	3.29	1.44	1.11	1.74
Kentucky	4.42	12.13	9.91	25.08	3.87	1.97	1.65	2.18*
Louisiana	4.73	12.01	9.90	25.17	3.89	1.86	1.64	2.40*
Maine	2.62	7.27	6.52	17.15	2.71	1.19	0.56	1.06
Maryland	3.21	8.15	6.65	17.03	2.65	1.26	0.54	1.45
Massachusetts	2.09	6.03	5.08	14.20	2.33	1.01	-0.17	0.39
Michigan	3.83	10.15	8.11	21.84	3.5	1.61	1.26	1.96
Minnesota	1.99	5.66	5.19	13.68	2.16	0.94	-0.13	0.24
Mississippi	5.25	13.10	11.50	28.52	4.34	2.00	2.08*	2.63*†
Missouri	4.11	10.53	9.16	23.22	3.59	1.64	1.46	2.07*
Montana	2.74	7.31	7.45	18.55	2.83	1.17	0.77	1.15
Nebraska	2.65	7.20	6.44	17.08	2.71	1.16	0.51	0.98
Nevada	3.41	9.45	8.54	21.79	3.38	1.54	1.28	1.68
New Hampshire	2.54	7.11	6.00	16.20	2.60	1.17	0.32	0.96
New Jersey	2.80	7.71	6.38	15.95	2.44	1.25	0.41	1.16
New Mexico	3.32	8.80	8.18	21.08	3.29	1.40	1.12	1.63
New York	3.45	9.18	7.68	19.18	2.93	1.46	0.93	1.67
North Carolina	3.30	8.70	7.82	19.24	2.91	1.38	0.95	1.57
North Dakota	2.38	6.07	6.50	15.81	2.37	0.94	0.41	0.64

<b>Ohio</b>	3.85	10.42	8.42	21.67	3.38	1.67	1.26	1.97*
<b>Oklahoma</b>	4.67	11.65	9.51	23.02	3.44	1.78	1.58	2.44*
<b>Oregon</b>	2.03	5.30	5.43	14.21	2.24	0.83	-0.08	0.16
<b>Pennsylvania</b>	3.45	8.95	7.48	19.26	3.01	1.40	0.85	1.65
<b>Rhode Island</b>	3.13	8.06	7.13	18.43	2.88	1.26	0.74	1.47
<b>South Carolina</b>	3.65	9.33	8.86	21.50	3.23	1.45	1.27	1.80
<b>South Dakota</b>	2.83	7.18	7.86	19.91	3.07	1.11	1.08	1.11
<b>Tennessee</b>	4.59	11.59	11.01	26.93	4.06	1.79	1.86	2.41*
<b>Texas</b>	3.59	9.45	8.07	20.33	3.13	1.49	1.10	1.74
<b>Utah</b>	2.66	7.02	5.34	14.10	2.23	1.11	-0.06	1.02
<b>Vermont</b>	2.72	7.20	7.15	17.33	2.60	1.14	0.67	1.07
<b>Virginia</b>	3.06	8.30	6.78	16.75	2.54	1.34	0.55	1.37
<b>Washington</b>	2.33	6.02	5.75	14.25	2.17	0.94	0.06	0.56
<b>West Virginia</b>	5.11	13.60	9.82	25.18	3.92	2.16	1.71	2.50*
<b>Wisconsin</b>	2.93	7.89	6.80	17.85	2.82	1.26	0.67	1.20
<b>Wyoming</b>	2.59	6.85	6.75	17.23	2.67	1.09	0.59	0.96

\* Denotes z-values exceeding the 95% threshold ( $z = 1.96$ ).

† Denotes z-values exceeding the 99% threshold ( $z = 2.58$ ).

**Table S62: Female-to-Male ratios of MPR (95% UI) in 2011, 2016, 2021 in individuals of all ages, per 100,000 inhabitants. Stratified for sex and state. Data from GBD 2021.**

States	Female-to-Male Ratio		
	2011	2016	2021
	1.16	1.11	1.06
<b>Alabama</b>	(0.73 - 1.78)	(0.7 - 1.7)	(0.5 - 2.21)
	0.91	0.83	0.80
<b>Alaska</b>	(0.53 - 1.5)	(0.48 - 1.37)	(0.39 - 1.62)
	1.10	1.00	0.98
<b>Arizona</b>	(0.65 - 1.77)	(0.58 - 1.61)	(0.45 - 2.08)
	1.04	1.05	1.02
<b>Arkansas</b>	(0.66 - 1.56)	(0.67 - 1.59)	(0.49 - 2.04)
	1.11	1.05	0.98
<b>California</b>	(0.65 - 1.78)	(0.62 - 1.71)	(0.44 - 2.05)
	1.14	1.00	0.99
<b>Colorado</b>	(0.65 - 1.89)	(0.57 - 1.67)	(0.43 - 2.21)
	1.09	1.05	1.05
<b>Connecticut</b>	(0.63 - 1.77)	(0.6 - 1.74)	(0.47 - 2.34)
	1.11	0.97	0.98
<b>Delaware</b>	(0.65 - 1.77)	(0.56 - 1.56)	(0.48 - 1.89)
	1.04	1.00	0.99
<b>District of Columbia</b>	(0.61 - 1.68)	(0.6 - 1.6)	(0.45 - 2.19)
	0.97	0.90	0.90
<b>Florida</b>	(0.58 - 1.5)	(0.55 - 1.39)	(0.43 - 1.84)
	1.15	1.09	1.06
<b>Georgia</b>	(0.69 - 1.8)	(0.66 - 1.73)	(0.5 - 2.22)
	0.81	0.79	0.77
<b>Hawaii</b>	(0.45 - 1.35)	(0.44 - 1.33)	(0.34 - 1.62)

	0.99	1.00	0.95
<b>Idaho</b>	(0.59 - 1.61)	(0.58 - 1.65)	(0.45 - 2)
	1.09	1.04	1.01
<b>Illinois</b>	(0.65 - 1.7)	(0.61 - 1.67)	(0.45 - 2.09)
	1.05	0.99	1.00
<b>Indiana</b>	(0.65 - 1.61)	(0.61 - 1.51)	(0.48 - 2.07)
	1.08	0.96	0.95
<b>Iowa</b>	(0.64 - 1.73)	(0.57 - 1.53)	(0.44 - 2.02)
	1.07	0.98	0.99
<b>Kansas</b>	(0.64 - 1.7)	(0.58 - 1.58)	(0.46 - 2.13)
	1.04	1.03	1.01
<b>Kentucky</b>	(0.66 - 1.58)	(0.66 - 1.57)	(0.49 - 2.13)
	1.09	0.99	1.02
<b>Louisiana</b>	(0.71 - 1.64)	(0.63 - 1.49)	(0.48 - 2.07)
	1.15	1.04	0.99
<b>Maine</b>	(0.68 - 1.85)	(0.61 - 1.67)	(0.44 - 2.07)
	1.10	1.03	1.03
<b>Maryland</b>	(0.65 - 1.74)	(0.61 - 1.67)	(0.47 - 2.25)
	1.05	1.04	0.98
<b>Massachusetts</b>	(0.62 - 1.68)	(0.61 - 1.68)	(0.43 - 2.07)
	1.05	1.02	0.98
<b>Michigan</b>	(0.64 - 1.62)	(0.63 - 1.56)	(0.46 - 2.01)
	0.99	0.96	0.95
<b>Minnesota</b>	(0.57 - 1.61)	(0.55 - 1.56)	(0.43 - 2.12)
	1.17	1.06	1.01
<b>Mississippi</b>	(0.73 - 1.78)	(0.67 - 1.62)	(0.49 - 2.1)
	1.10	1.03	1.00
<b>Missouri</b>	(0.68 - 1.73)	(0.64 - 1.61)	(0.47 - 2.04)
	0.99	0.99	0.92
<b>Montana</b>			

	(0.58 - 1.6)	(0.58 - 1.63)	(0.42 - 1.94)
	1.02	0.96	0.95
<b>Nebraska</b>	(0.61 - 1.68)	(0.55 - 1.58)	(0.44 - 2.01)
	1.07	0.93	0.93
<b>Nevada</b>	(0.65 - 1.7)	(0.57 - 1.48)	(0.46 - 1.9)
	1.06	0.98	1.02
<b>New Hampshire</b>	(0.61 - 1.76)	(0.56 - 1.6)	(0.46 - 2.17)
	1.15	1.06	1.04
<b>New Jersey</b>	(0.69 - 1.85)	(0.63 - 1.72)	(0.47 - 2.23)
	1.13	1.03	0.99
<b>New Mexico</b>	(0.67 - 1.85)	(0.6 - 1.69)	(0.44 - 2.13)
	1.14	1.07	1.03
<b>New York</b>	(0.69 - 1.78)	(0.63 - 1.7)	(0.47 - 2.16)
	1.10	1.05	1.00
<b>North Carolina</b>	(0.67 - 1.74)	(0.63 - 1.66)	(0.46 - 2.15)
	0.90	0.88	0.86
<b>North Dakota</b>	(0.53 - 1.47)	(0.5 - 1.47)	(0.41 - 1.77)
	1.07	1.02	1.02
<b>Ohio</b>	(0.67 - 1.65)	(0.63 - 1.6)	(0.48 - 2.08)
	1.11	1.10	1.07
<b>Oklahoma</b>	(0.71 - 1.67)	(0.7 - 1.67)	(0.53 - 2.17)
	0.97	0.90	0.89
<b>Oregon</b>	(0.57 - 1.57)	(0.52 - 1.49)	(0.38 - 1.95)
	1.09	1.06	1.07
<b>Pennsylvania</b>	(0.64 - 1.73)	(0.63 - 1.7)	(0.48 - 2.23)
	1.16	1.10	1.02
<b>Rhode Island</b>	(0.67 - 1.89)	(0.61 - 1.8)	(0.45 - 2.18)
	1.08	1.03	1.01
<b>South Carolina</b>	(0.66 - 1.67)	(0.63 - 1.62)	(0.48 - 2.15)

	1.08	0.99	0.84
<b>South Dakota</b>	(0.62 - 1.76)	(0.58 - 1.65)	(0.39 - 1.67)
	1.13	1.09	1.00
<b>Tennessee</b>	(0.72 - 1.7)	(0.69 - 1.66)	(0.48 - 2.06)
	1.09	1.03	1.00
<b>Texas</b>	(0.68 - 1.67)	(0.64 - 1.59)	(0.48 - 1.98)
	1.28	1.23	1.18
<b>Utah</b>	(0.76 - 2.07)	(0.7 - 2.02)	(0.56 - 2.41)
	1.00	0.97	0.93
<b>Vermont</b>	(0.57 - 1.61)	(0.56 - 1.57)	(0.45 - 1.88)
	1.13	1.07	1.08
<b>Virginia</b>	(0.68 - 1.77)	(0.63 - 1.72)	(0.49 - 2.27)
	1.06	0.97	0.97
<b>Washington</b>	(0.62 - 1.73)	(0.55 - 1.58)	(0.44 - 2.1)
	1.04	1.05	1.09
<b>West Virginia</b>	(0.66 - 1.58)	(0.67 - 1.59)	(0.54 - 2.26)
	1.05	1.01	0.99
<b>Wisconsin</b>	(0.62 - 1.7)	(0.59 - 1.63)	(0.45 - 2.1)
	0.92	0.94	0.86
<b>Wyoming</b>	(0.53 - 1.46)	(0.55 - 1.56)	(0.41 - 1.7)

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ASMR= age standardized mortality rate  
ASPR= age standardized prevalence rate

IHD= ischemic heart disease. GBD 2021 definition describes IHD as International Classification of Disease (ICD) classes I20-25.9, namely: angina pectoris, acute myocardial infarction, subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction, certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28-day period), other acute ischemic heart disease, and chronic ischemic heart disease.  
Data and definitions from Global Burden of Disease Database, 2021.

**Table S63. Age-standardised prevalence rate, mortality rate, MPR, and risk ratio female-to-male in individuals of all ages, per 1000 inhabitants, Data from GBD 2021.**

States	Age-standardised prevalence rate of IHD per 1000 inhabitants						Age-standardised mortality rate of IHD per 1000 inhabitants						MPR						Female-to-Male Ratio		
	2011		2016		2021		2011		2016		2021		2011		2016		2021		2011	2016	2021
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Alabama	2292.93	1133.30	2071.26	1041.08	2187.27	1093.42	151.60	86.73	142.25	79.52	132.93	70.56	6.61	7.65	6.87	7.64	6.08	6.45	1.16	1.11	1.06
	1985.86	984.56	1795.89	907.87	1832.33	919.92	139.56	75.84	131.91	69.79	107.54	56.67									
	2630.67	1307.28	2379.10	1205.43	2589.16	1307.45	158.50	93.16	148.91	85.61	159.04	84.33									
Alaska	1848.69	906.37	1693.25	839.18	1836.39	925.94	109.89	49.12	100.76	41.49	90.85	36.78	5.94	5.42	5.95	4.94	4.95	3.97	0.91	0.83	0.80
	1590.23	783.97	1468.76	727.13	1545.18	780.48	98.72	41.09	90.11	34.79	75.54	30.20									
	2143.24	1054.07	1957.79	982.11	2203.07	1101.87	117.86	54.21	107.77	45.91	109.15	43.45									
Arizona	1912.26	958.72	1741.00	892.21	1839.17	935.86	112.35	61.97	106.30	54.21	101.50	50.37	5.88	6.46	6.11	6.08	5.52	5.38	1.10	1.00	0.98
	1661.48	837.16	1512.84	776.04	1543.83	784.48	100.75	50.94	96.12	44.25	82.80	39.74									
	2201.59	1100.75	2016.95	1028.71	2225.08	1115.25	119.07	67.77	112.30	59.68	122.59	60.81									
Arkansas	2588.57	1366.74	2348.65	1268.36	2353.07	1253.99	163.59	89.78	159.40	90.62	155.28	84.14	6.32	6.57	6.79	7.14	6.60	6.71	1.04	1.05	1.02
	2262.26	1211.60	2062.82	1122.03	1991.56	1076.15	150.87	78.00	146.97	78.66	127.52	67.88									
	2950.28	1555.12	2688.87	1440.64	2793.19	1476.81	172.20	96.91	167.31	97.46	188.43	100.30									
California	1915.50	964.63	1727.97	873.84	1814.50	906.89	109.16	61.15	97.83	52.02	93.21	45.50	5.70	6.34	5.66	5.95	5.14	5.02	1.11	1.05	0.98
	1671.11	841.17	1502.76	753.63	1525.34	763.25	98.23	49.84	88.64	42.66	76.72	35.21									
	2187.99	1106.50	1981.44	1002.87	2176.05	1090.24	115.39	67.19	103.43	57.50	110.80	55.17									
Colorado	1575.20	726.40	1435.78	667.33	1576.94	756.20	93.09	48.97	86.87	40.30	79.36	37.70	5.91	6.74	6.05	6.04	5.03	4.99	1.14	1.00	0.99
	1352.74	628.47	1225.97	573.01	1315.87	626.27	83.46	40.41	77.34	33.04	61.86	28.98									
	1840.27	851.13	1662.88	778.42	1875.03	922.61	98.81	53.87	91.94	44.53	96.84	45.59									
Connecticut	2063.38	1018.23	1840.65	912.11	1866.07	923.08	99.86	53.84	92.82	48.28	87.22	45.12	4.84	5.29	5.04	5.29	4.67	4.89	1.09	1.05	1.05
	1800.12	884.03	1604.12	792.79	1564.29	784.33	89.60	43.76	82.55	38.76	68.21	35.19									
	2362.67	1176.24	2116.09	1056.88	2241.80	1099.27	106.64	59.46	98.87	53.68	105.50	55.88									
Delaware	2052.73	1084.86	1817.22	983.54	1935.13	1013.90	120.44	70.37	112.78	58.98	105.85	54.22	5.87	6.49	6.21	6.00	5.47	5.35	1.11	0.97	0.98

	1791.54	944.29	1574.81	850.41	1622.85	858.03	107.87	58.21	102.25	48.04	88.64	44.58									
	2349.81	1247.55	2092.39	1128.81	2304.08	1210.85	128.49	76.72	120.15	64.78	124.24	62.27									
<b>District of Columbia</b>	1798.21	1022.09	1639.24	944.03	1848.84	1008.53	123.67	72.89	114.71	65.85	106.01	57.22	6.88	7.13	7.00	6.98	5.73	5.67	1.04	1.00	0.99
	1550.14	885.63	1416.66	818.35	1562.00	845.09	111.32	61.63	103.86	56.78	83.08	46.23									
	2064.90	1173.29	1885.81	1094.08	2227.19	1201.63	132.79	80.15	123.12	71.99	132.15	69.05									
<b>Florida</b>	2477.13	1407.18	2261.08	1314.64	2273.38	1266.11	112.61	62.26	108.72	56.81	103.07	51.64	4.55	4.42	4.81	4.32	4.53	4.08	0.97	0.90	0.90
	2191.30	1251.14	2002.72	1170.66	1951.49	1087.18	101.78	50.39	98.49	46.52	83.17	39.99									
	2783.45	1584.19	2563.89	1479.69	2661.62	1464.89	119.25	68.72	115.16	62.39	124.22	62.39									
<b>Georgia</b>	2146.14	1063.74	1934.66	968.53	2074.37	1029.88	122.89	69.85	114.30	62.61	109.23	57.40	5.73	6.57	5.91	6.46	5.27	5.57	1.15	1.09	1.06
	1857.48	919.88	1680.32	839.72	1740.88	872.82	112.33	59.30	104.97	52.74	87.60	45.84									
	2452.31	1231.03	2241.61	1120.11	2486.41	1220.63	129.34	75.70	120.77	68.12	132.00	68.17									
<b>Hawaii</b>	2035.68	1091.53	1849.38	1004.59	1895.79	1004.49	90.14	39.39	80.99	34.80	78.20	31.84	4.43	3.61	4.38	3.46	4.13	3.17	0.81	0.79	0.77
	1750.65	959.41	1595.61	868.09	1591.30	850.54	80.23	31.00	72.36	27.85	62.52	24.51									
	2339.55	1244.14	2133.53	1155.07	2253.46	1190.25	96.51	44.56	87.39	39.08	95.59	38.24									
<b>Idaho</b>	1663.45	832.74	1513.73	753.88	1695.47	841.88	112.30	55.54	103.76	51.74	95.55	45.18	6.75	6.67	6.85	6.86	5.64	5.37	0.99	1.00	0.95
	1440.65	724.00	1308.69	651.89	1426.97	709.45	101.48	46.89	92.99	43.44	76.60	37.15									
	1931.25	960.31	1751.67	877.50	2045.71	1012.09	119.95	61.20	111.25	57.12	115.20	53.21									
<b>Illinois</b>	2088.78	1039.53	1877.48	954.19	2009.89	1015.31	123.00	66.92	110.32	58.41	105.38	53.62	5.89	6.44	5.88	6.12	5.24	5.28	1.09	1.04	1.01
	1820.70	904.61	1622.32	827.95	1657.14	867.79	113.06	55.29	100.39	48.79	86.27	41.32									
	2393.88	1198.64	2175.17	1107.83	2394.61	1212.01	129.84	72.82	116.49	63.67	126.86	65.26									
<b>Indiana</b>	2482.50	1284.01	2253.19	1179.93	2259.59	1170.91	137.40	74.66	131.99	68.10	122.70	63.89	5.53	5.81	5.86	5.77	5.43	5.46	1.05	0.99	1.00
	2176.77	1123.22	1965.85	1034.49	1900.31	993.86	127.09	63.48	122.25	57.81	99.40	51.69									
	2855.35	1462.31	2599.24	1351.61	2705.08	1403.61	144.32	80.58	138.87	73.31	147.31	75.50									
<b>Iowa</b>	1945.28	960.02	1777.11	886.10	1907.42	942.59	126.09	67.39	120.95	57.75	119.81	56.24	6.48	7.02	6.81	6.52	6.28	5.97	1.08	0.96	0.95
	1690.44	830.78	1528.01	765.61	1591.53	789.79	114.79	56.27	110.03	48.15	96.92	44.37									
	2233.55	1108.64	2044.44	1018.45	2270.77	1122.86	133.52	73.81	127.58	63.22	144.45	68.01									
<b>Kansas</b>	2007.00	992.36	1817.11	919.98	1925.94	973.93	118.64	62.91	118.21	58.85	119.42	59.79	5.91	6.34	6.51	6.40	6.20	6.14	1.07	0.98	0.99
	1749.70	864.99	1571.65	800.56	1605.85	822.23	108.72	52.87	107.56	49.28	97.44	47.69									
	2335.57	1147.25	2117.91	1060.80	2336.28	1162.91	126.06	68.53	125.51	64.11	144.39	73.00									

<b>Kentucky</b>	2548.85	1325.27	2280.50	1205.11	2305.51	1199.51	152.52	82.12	142.54	77.90	134.59	71.03	5.98	6.20	6.25	6.46	5.84	5.92	1.04	1.03	1.01
	2222.63	1161.83	1991.15	1053.18	1959.14	1017.51	140.93	72.37	132.58	68.30	109.08	56.95									
	2935.12	1515.56	2620.72	1381.63	2748.07	1407.31	160.04	88.02	149.79	83.51	162.04	85.85									
<b>Louisiana</b>	2421.38	1291.92	2197.50	1199.44	2296.19	1228.96	144.90	84.29	141.90	77.02	137.80	74.89	5.98	6.52	6.46	6.42	6.00	6.09	1.09	0.99	1.02
	2119.75	1138.36	1921.25	1053.19	1947.73	1038.10	134.48	74.07	132.10	67.09	113.22	60.15									
	2765.53	1466.57	2509.65	1370.84	2729.87	1445.56	151.86	90.72	148.34	82.69	167.43	89.25									
<b>Maine</b>	2176.75	1006.90	1967.58	925.95	1942.38	953.06	105.32	55.82	102.38	50.12	98.97	47.87	4.84	5.54	5.20	5.41	5.10	5.02	1.15	1.04	0.99
	1910.18	874.42	1703.24	799.12	1635.06	797.33	94.48	46.27	93.43	41.87	79.50	37.47									
	2494.05	1158.17	2248.89	1071.08	2324.02	1143.65	112.53	61.29	109.00	55.36	120.65	56.47									
<b>Maryland</b>	2041.62	1090.73	1834.18	984.44	1904.93	996.02	115.98	67.94	105.93	58.54	99.78	53.92	5.68	6.23	5.78	5.95	5.24	5.41	1.10	1.03	1.03
	1772.79	950.92	1591.97	858.22	1605.46	840.02	104.56	56.30	95.76	48.44	80.32	42.02									
	2329.27	1256.27	2130.99	1133.23	2277.90	1195.73	122.23	74.14	111.79	64.38	121.20	66.65									
<b>Massachusetts</b>	2113.66	1016.00	1910.38	927.61	1941.32	961.70	106.53	53.72	94.92	47.95	81.59	39.61	5.04	5.29	4.97	5.17	4.20	4.12	1.05	1.04	0.98
	1844.40	884.11	1663.14	800.35	1636.53	811.94	96.56	44.19	85.79	39.47	65.94	29.79									
	2427.05	1171.20	2190.33	1076.94	2307.53	1153.27	112.41	59.05	100.42	52.67	99.45	47.98									
<b>Michigan</b>	2426.38	1313.20	2231.99	1225.76	2230.53	1191.23	145.17	82.15	132.92	74.50	124.59	65.10	5.98	6.26	5.96	6.08	5.59	5.47	1.05	1.02	0.98
	2126.73	1149.09	1948.38	1074.12	1891.50	1006.17	132.76	69.37	122.31	63.69	101.57	51.36									
	2779.25	1509.06	2551.24	1410.65	2662.59	1420.10	152.50	88.92	139.56	80.33	148.30	76.97									
<b>Minnesota</b>	1943.55	880.98	1753.94	799.39	1801.95	852.00	88.77	39.73	83.17	36.29	80.78	36.42	4.57	4.51	4.74	4.54	4.48	4.27	0.99	0.96	0.95
	1687.42	757.32	1520.26	690.65	1518.88	715.70	80.03	32.54	74.87	29.56	63.41	28.79									
	2232.71	1022.18	2029.15	929.99	2178.63	1027.85	94.75	43.81	88.58	39.87	98.24	44.19									
<b>Mississippi</b>	2303.33	1118.40	2071.94	1022.57	2193.55	1099.60	158.36	89.97	154.50	80.78	152.72	77.60	6.88	8.04	7.46	7.90	6.96	7.06	1.17	1.06	1.01
	2007.27	975.87	1809.54	895.84	1834.29	929.47	148.08	78.31	143.51	70.45	125.07	62.96									
	2666.17	1292.14	2405.93	1177.66	2637.48	1305.31	166.33	96.58	162.26	86.71	180.08	92.59									
<b>Missouri</b>	2377.51	1218.00	2152.75	1122.05	2230.13	1144.64	144.09	81.35	132.38	71.37	128.47	65.61	6.06	6.68	6.15	6.36	5.76	5.73	1.10	1.03	1.00
	2071.18	1059.10	1881.53	980.83	1873.99	961.82	131.54	69.26	121.40	61.00	104.95	52.75									
	2743.77	1388.81	2492.01	1285.49	2652.05	1370.97	151.77	88.07	139.30	77.08	154.66	77.58									
<b>Montana</b>	1749.77	840.39	1595.90	776.94	1736.92	875.46	110.60	52.63	103.13	49.70	103.43	48.07	6.32	6.26	6.46	6.40	5.95	5.49	0.99	0.99	0.92
	1528.59	728.07	1385.90	667.19	1464.00	737.27	100.22	43.97	93.07	41.59	81.55	38.93									

	2026.22	978.98	1852.16	905.13	2112.06	1061.17	118.52	57.76	110.56	54.74	126.59	55.24									
Nebraska	1906.58	929.89	1707.58	854.84	1818.36	912.07	104.83	52.35	98.98	47.62	98.31	46.62	5.50	5.63	5.80	5.57	5.41	5.11	1.02	0.96	0.95
	1672.03	801.45	1474.98	739.50	1524.43	764.59	94.81	43.25	89.52	39.40	78.38	37.28									
	2212.14	1065.56	1984.68	997.12	2195.12	1099.97	111.70	57.74	105.96	52.68	117.69	54.78									
Nevada	2031.81	1056.56	1850.61	988.41	1987.56	1034.89	128.08	71.10	134.45	66.63	124.84	60.61	6.30	6.73	7.26	6.74	6.28	5.86	1.07	0.93	0.93
	1763.45	924.73	1618.93	857.41	1678.25	870.44	116.37	60.42	122.59	56.89	99.91	50.04									
	2361.78	1212.02	2139.96	1131.23	2356.48	1222.01	135.46	77.39	142.76	72.71	149.89	69.99									
New Hampshire	1990.63	971.06	1791.92	885.48	1829.83	914.59	107.25	55.26	107.68	51.92	95.05	48.36	5.39	5.69	6.01	5.86	5.19	5.29	1.06	0.98	1.02
	1723.72	838.64	1553.00	757.84	1543.72	764.25	95.65	45.51	97.71	42.65	76.55	38.48									
	2297.01	1121.90	2071.09	1022.79	2211.66	1103.60	115.46	61.50	114.82	57.27	117.87	57.47									
New Jersey	2239.06	1111.61	2007.04	1012.67	2023.45	1024.33	120.91	68.87	108.29	58.10	97.79	51.62	5.40	6.20	5.40	5.74	4.83	5.04	1.15	1.06	1.04
	1961.59	974.22	1771.58	883.20	1718.74	872.82	108.40	57.18	96.58	47.72	77.57	39.62									
	2582.78	1270.59	2305.72	1163.11	2404.34	1208.04	127.98	75.52	114.84	63.78	119.30	62.87									
New Mexico	1839.56	919.31	1652.82	829.31	1751.12	875.79	107.38	60.87	105.93	54.60	113.84	56.62	5.84	6.62	6.41	6.58	6.50	6.47	1.13	1.03	0.99
	1605.50	795.03	1427.68	713.48	1471.70	736.28	96.60	50.53	95.67	45.81	91.90	43.39									
	2119.61	1064.69	1915.97	963.98	2098.91	1057.98	114.22	66.87	112.94	60.21	137.02	68.56									
New York	2276.20	1194.64	2060.24	1081.99	2044.32	1059.98	134.91	80.47	121.42	68.41	115.33	61.42	5.93	6.74	5.89	6.32	5.64	5.79	1.14	1.07	1.03
	2014.46	1053.77	1801.10	947.61	1730.90	898.79	121.83	65.85	109.48	55.83	93.56	47.89									
	2592.92	1364.19	2341.52	1238.91	2437.31	1268.40	141.93	88.37	128.23	75.36	138.77	74.56									
North Carolina	2164.84	1064.39	1922.26	959.89	2007.29	1009.14	124.19	67.05	111.82	58.43	107.08	54.00	5.74	6.30	5.82	6.09	5.33	5.35	1.10	1.05	1.00
	1882.31	924.66	1674.86	834.45	1688.22	845.83	112.50	56.80	102.14	49.52	85.03	42.08									
	2490.94	1219.42	2225.26	1108.96	2395.77	1195.11	131.49	72.76	118.03	63.71	129.44	64.58									
North Dakota	1994.87	1020.07	1855.54	957.11	1954.68	1005.54	115.43	53.39	100.35	45.52	93.52	41.14	5.79	5.23	5.41	4.76	4.78	4.09	0.90	0.88	0.86
	1734.01	884.88	1614.95	828.84	1660.48	847.32	103.70	43.99	89.10	36.97	76.81	32.52									
	2278.58	1169.68	2153.04	1102.95	2319.05	1202.19	123.12	59.01	107.77	50.54	109.72	49.59									
Ohio	2414.10	1262.48	2189.02	1160.33	2203.01	1153.36	138.14	77.39	127.55	69.29	123.98	65.99	5.72	6.13	5.83	5.97	5.63	5.72	1.07	1.02	1.02
	2115.99	1102.49	1899.27	1011.66	1868.36	969.46	126.75	65.88	116.62	59.21	102.05	52.90									
	2750.41	1436.32	2516.10	1327.43	2640.55	1375.35	144.87	83.62	134.22	74.99	148.34	77.77									
Oklahoma	2508.11	1313.84	2272.66	1215.54	2330.12	1222.14	168.50	98.28	145.82	85.78	132.74	74.64	6.72	7.48	6.42	7.06	5.70	6.11	1.11	1.10	1.07

	2195.38	1163.54	1995.81	1068.03	1975.30	1043.57	155.96	85.37	134.53	74.72	108.75	60.97									
	2868.44	1492.14	2599.18	1386.37	2756.39	1441.65	176.55	105.87	153.12	92.26	157.96	89.25									
<b>Oregon</b>	1693.07	819.42	1509.28	732.09	1672.90	806.19	96.07	44.95	88.68	38.81	80.92	34.74	5.67	5.49	5.88	5.30	4.84	4.31	0.97	0.90	0.89
	1456.00	706.42	1293.55	631.90	1398.74	676.27	87.41	37.63	80.13	32.20	65.73	26.70									
	1960.15	944.24	1749.30	850.69	2014.05	972.72	101.77	49.56	94.13	43.18	100.62	43.03									
<b>Pennsylvania</b>	2205.48	1093.76	1954.47	975.65	1997.98	984.77	129.08	69.80	118.50	62.68	109.97	58.23	5.85	6.38	6.06	6.42	5.50	5.91	1.09	1.06	1.07
	1916.74	947.96	1696.84	843.32	1672.53	827.16	117.11	57.71	107.27	52.88	89.93	45.52									
	2528.46	1258.10	2251.14	1128.22	2370.44	1171.78	136.64	76.10	125.42	68.49	134.01	70.07									
<b>Rhode Island</b>	2120.60	1044.70	1915.70	958.06	1943.89	981.09	124.20	71.11	112.47	61.75	110.00	56.38	5.86	6.81	5.87	6.45	5.66	5.75	1.16	1.10	1.02
	1829.15	907.83	1665.36	828.78	1636.05	824.12	111.95	59.00	100.76	49.43	89.10	44.28									
	2435.73	1198.41	2210.46	1112.89	2340.69	1183.76	133.52	78.74	120.98	68.00	134.69	68.40									
<b>South Carolina</b>	2129.81	1026.19	1892.87	933.54	2047.79	1006.41	136.03	70.54	125.24	63.64	115.74	57.58	6.39	6.87	6.62	6.82	5.65	5.72	1.08	1.03	1.01
	1842.15	888.29	1645.98	807.83	1723.55	845.45	125.85	60.72	115.84	54.69	93.00	47.27									
	2449.38	1184.21	2190.48	1087.85	2443.77	1214.14	143.20	76.16	131.53	69.01	139.32	69.12									
<b>South Dakota</b>	1974.49	879.57	1800.39	818.30	1861.05	896.57	121.22	58.09	114.82	51.71	114.11	46.33	6.14	6.60	6.38	6.32	6.13	5.17	1.08	0.99	0.84
	1710.69	764.31	1555.20	701.14	1560.94	752.44	109.53	48.45	103.36	43.04	95.42	36.66									
	2279.93	1024.18	2092.01	943.01	2225.28	1077.93	130.22	64.51	122.52	57.17	136.20	53.90									
<b>Tennessee</b>	2450.30	1220.91	2228.40	1131.01	2268.63	1141.26	158.81	89.06	147.04	81.61	146.63	73.61	6.48	7.29	6.60	7.22	6.46	6.45	1.13	1.09	1.00
	2138.78	1068.62	1938.05	988.13	1914.68	960.45	148.53	78.11	137.26	71.08	118.62	59.44									
	2828.85	1400.92	2567.65	1304.76	2691.80	1346.74	166.14	95.51	153.61	87.49	176.97	87.32									
<b>Texas</b>	2267.85	1188.40	2055.36	1090.64	2107.37	1094.45	123.30	70.67	118.05	64.62	115.22	59.64	5.44	5.95	5.74	5.92	5.47	5.45	1.09	1.03	1.00
	1978.92	1049.53	1801.60	962.58	1774.77	933.16	112.97	60.30	108.17	54.51	95.90	47.60									
	2584.63	1360.60	2352.26	1244.57	2489.57	1297.36	129.54	76.77	123.93	70.18	136.95	71.07									
<b>Utah</b>	1711.74	787.63	1521.61	709.90	1622.69	790.84	96.22	56.76	93.02	53.37	83.66	48.02	5.62	7.21	6.11	7.52	5.16	6.07	1.28	1.23	1.18
	1477.34	684.17	1305.71	609.81	1366.34	665.71	86.79	48.12	84.20	44.34	67.75	39.15									
	1969.78	913.39	1761.96	825.85	1942.79	946.90	101.99	62.51	99.44	58.86	101.35	55.95									
<b>Vermont</b>	2126.38	1040.96	1934.24	958.85	1930.62	968.34	108.66	53.07	108.68	52.38	102.76	47.84	5.11	5.10	5.62	5.46	5.32	4.94	1.00	0.97	0.93
	1836.90	910.03	1691.06	830.39	1621.85	819.67	97.97	43.60	98.39	43.22	84.49	39.18									
	2437.64	1196.75	2216.37	1109.33	2322.87	1164.10	116.95	58.83	116.98	57.86	121.34	56.17									

<b>Virginia</b>	2106.66	1049.21	1889.01	958.67	1975.03	992.02	111.78	62.80	103.10	55.81	96.89	52.42	5.31	5.99	5.46	5.82	4.91	5.28	1.13	1.07	1.08
	1838.05	911.25	1638.13	830.14	1650.69	836.67	102.33	52.92	93.62	46.41	79.41	41.68									
	2415.88	1208.15	2189.67	1111.98	2391.94	1186.78	117.82	68.18	108.90	61.08	117.25	62.96									
<b>Washington</b>	1772.76	845.17	1638.24	791.10	1777.69	861.16	102.32	51.69	92.18	42.98	86.03	40.48	5.77	6.12	5.63	5.43	4.84	4.70	1.06	0.97	0.97
	1550.23	727.91	1415.64	681.55	1493.98	723.32	92.63	42.67	83.40	35.27	70.56	30.96									
	2038.34	983.19	1889.20	923.35	2145.88	1028.31	108.54	57.14	98.02	47.42	102.80	49.97									
<b>West Virginia</b>	2551.56	1430.79	2316.97	1315.76	2279.71	1255.31	158.68	92.27	144.51	85.82	139.01	83.38	6.22	6.45	6.24	6.52	6.10	6.64	1.04	1.05	1.09
	2237.57	1252.21	2032.18	1156.51	1928.27	1064.69	146.47	80.21	133.80	75.06	112.29	67.71									
	2921.52	1623.59	2655.80	1500.32	2699.84	1476.79	167.58	99.34	152.44	92.77	165.23	99.93									
<b>Wisconsin</b>	1859.33	892.23	1694.57	822.21	1822.23	885.03	116.30	58.65	106.34	52.14	103.52	49.85	6.26	6.57	6.28	6.34	5.68	5.63	1.05	1.01	0.99
	1610.65	776.49	1467.53	709.74	1529.89	746.28	104.86	48.91	96.52	43.29	82.63	39.89									
	2146.45	1033.50	1957.90	953.19	2172.72	1061.42	122.48	64.35	112.61	57.07	126.85	59.71									
<b>Wyoming</b>	1889.25	999.43	1717.22	921.83	1816.47	957.35	114.90	55.63	102.93	51.83	99.41	45.28	6.08	5.57	5.99	5.62	5.47	4.73	0.92	0.94	0.86
	1631.16	867.84	1482.22	793.02	1507.16	799.01	104.72	46.98	92.53	43.59	84.44	36.74									
	2183.35	1166.35	2002.11	1065.39	2206.14	1146.76	123.35	60.90	110.71	57.14	117.99	52.09									

ASMR= age standardized mortality rate

ASPR= age standardized prevalence rate

IHD= ischemic heart disease.

GBD 2021 definition describes IHD as International Classification of Disease (ICD) classes I20-25.9, namely: angina pectoris, acute myocardial infarction, subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction, certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28-day period), other acute ischemic heart disease, and chronic ischemic heart disease.

Data and definitions from Global Burden of Disease Database, 2021.

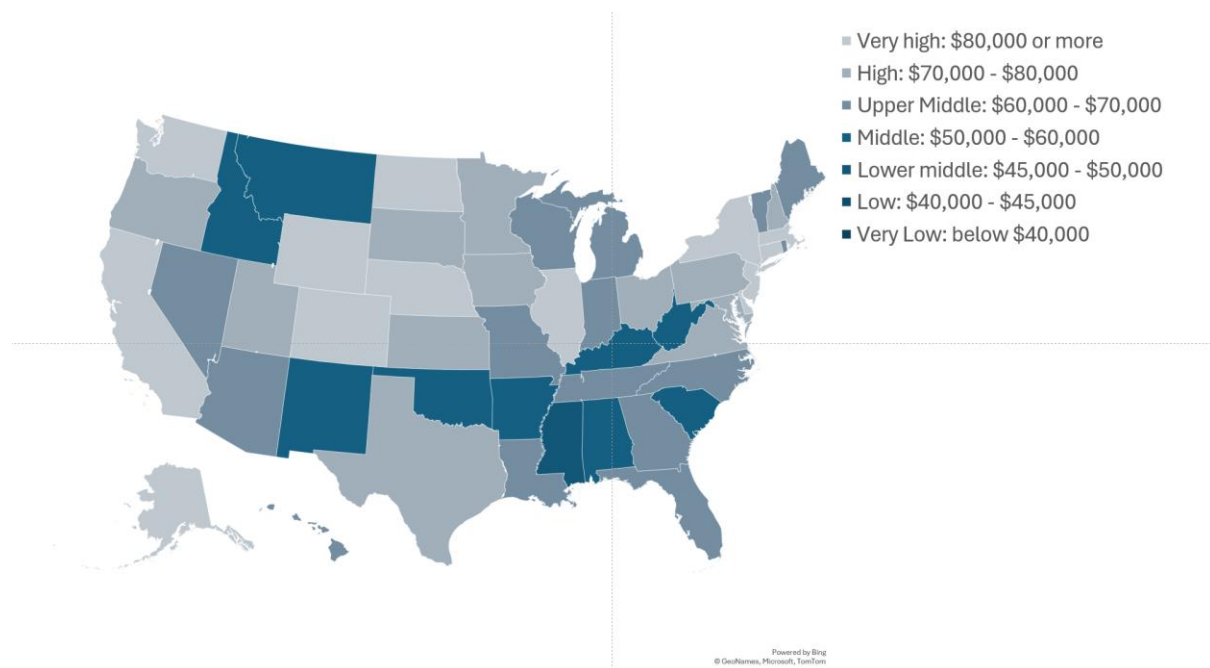
**Table S64: Detailed methodology and data sources: GATHER Statement<sup>1</sup>**

<b>GATHER Statement</b>		
<b>Item number</b>	<b>Checklist item</b>	<b>Reporting location</b>
<b>Objectives and funding</b>		
1	Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made.	Main text methods
2	List the funding sources for the work.	Main text (methods section); primary funder given in the “role of the funding source” section
<b>Data inputs</b>		
<i>For all data inputs from multiple sources that are synthesised as part of the study:</i>		
3	Describe how the data were identified and how the data were accessed.	Main text methods, with references provided for access to full details
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	References provided in the main text methods for access to full details
5	Provide information about 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.	Overview in main text methods; citations for all references available at <a href="http://ghdx.healthdata.org/gbd-2021/sources">http://ghdx.healthdata.org/gbd-2021/sources</a> and <a href="https://fred.stlouisfed.org/series/NYGDPPCAPCDSAS">https://fred.stlouisfed.org/series/NYGDPPCAPCDSAS</a>
6	Identify and describe any categories of input data that have potentially important biases (eg, based on characteristics listed in item 5).	Study limitations subsection in discussion, with references provided for access to full details
<i>For data inputs that contribute to the analysis but were not synthesised as part of the study:</i>		
7	Describe and give sources for any other data inputs.	N/A
<i>For all data inputs:</i>		
8	Provide all data inputs in a file format from which data can be efficiently extracted (eg, 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.	<a href="http://ghdx.healthdata.org/gbd-2021/sources">http://ghdx.healthdata.org/gbd-2021/sources</a>  Availability of data is dependent on data use agreements; contact information provided when not directly available.
<b>Data analysis</b>		

<b>GATHER Statement</b>		
<b>Item number</b>	<b>Checklist item</b>	<b>Reporting location</b>
9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	Main text methods, with references provided for access to full details
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).	Main text methods, statistical analysis, with references provided for access to full details
11	Describe how candidate models were evaluated and how the final model(s) were selected.	References provided in the main text methods for access to full details
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	N/A
13	Describe methods of calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Main text methods
14	State how analytical or statistical source code used to generate estimates can be accessed.	<a href="http://ghdx.healthdata.org/gbd-2021/code">http://ghdx.healthdata.org/gbd-2021/code</a>
<b>Results and discussion</b>		
15	Provide published estimates in a file format from which data can be efficiently extracted.	All estimates are available for download at <a href="http://ghdx.healthdata.org/gbd-2021/code">http://ghdx.healthdata.org/gbd-2021/code</a> and <a href="https://vizhub.healthdata.org/gbd-compare/">https://vizhub.healthdata.org/gbd-compare/</a>
16	Report a quantitative measure of the uncertainty of the estimates (eg, uncertainty intervals).	UIs given in all results section, including in figures (as appropriate) and tables
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Main text discussion
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Main text study limitations section of discussion

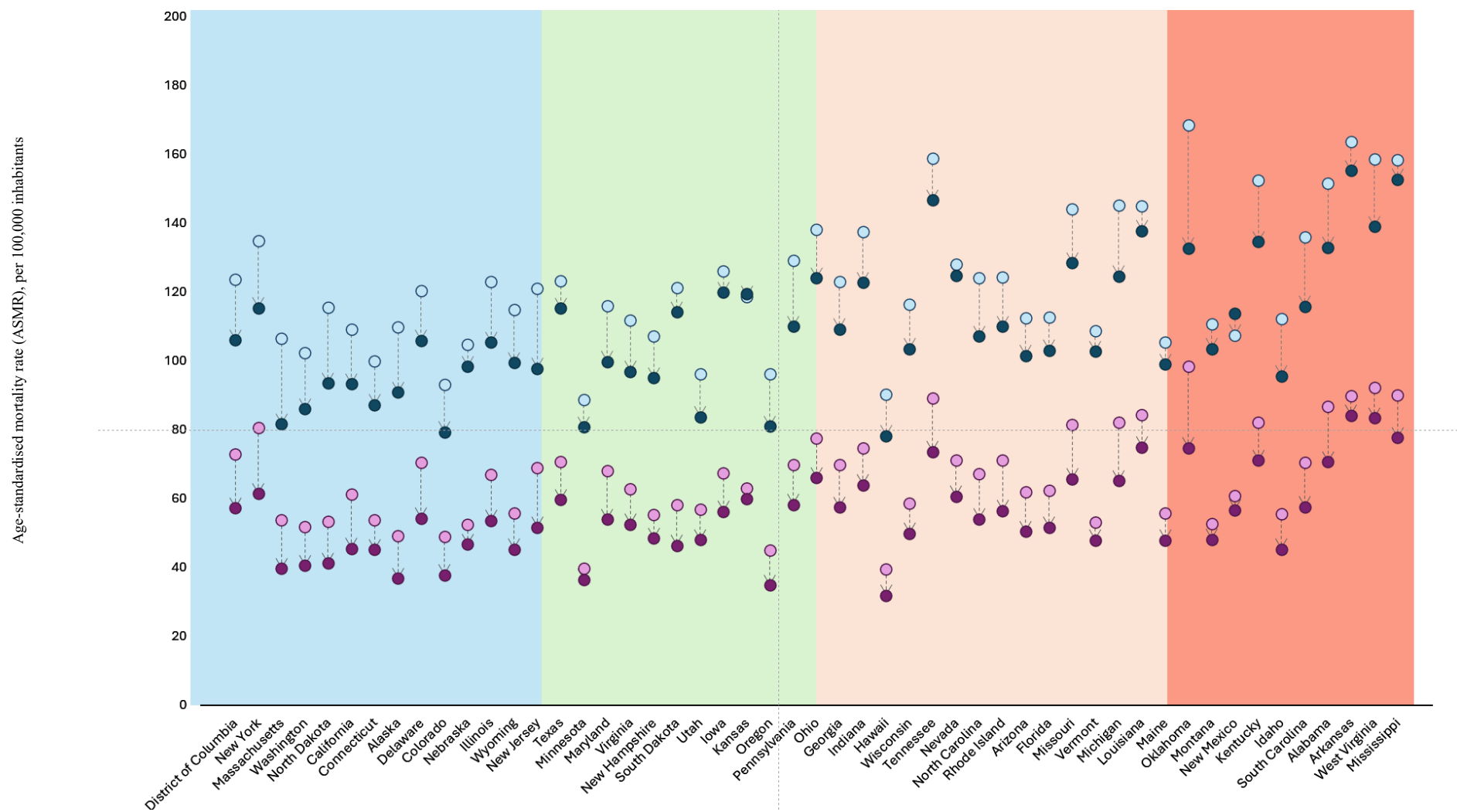
**Figure S1. Economic classification based on GDP per capita.**

*Data derived from Bureau of Economic Analysis (BEA) and World Bank Classification, year 2022.*



**Figure S2: Age-standardized IHD mortality rates for females and males, per 100,000 inhabitants**

*Data derived from Global Burden of Diseases, years 2011 and 2021*

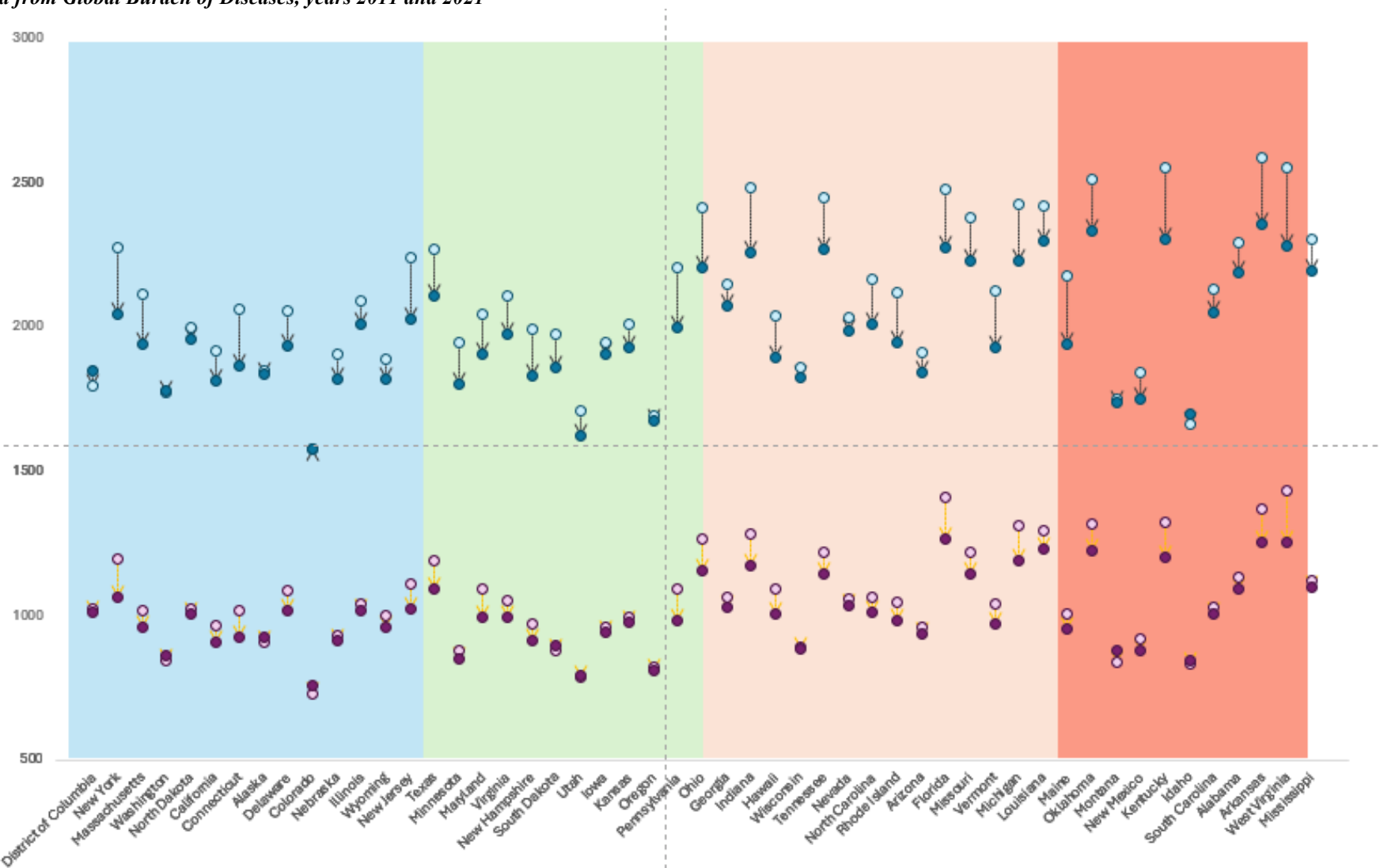


**Figure Legend**

- 2011 (Blue circle)
- 2021 (Pink circle)
- 9<sup>th</sup> decile, 2021 (Dashed line)
- GDP per capita (Color-coded background)

**Figure S3: Age-standardized IHD prevalence rates for females and males, per 100,000 inhabitants**

*Data derived from Global Burden of Diseases, years 2011 and 2021*



**Figure Legend**

- 2011
- 2021
- ♂ Male
- ♀ Female

**Figure S4. Pearson correlation analyses: correlation between the MPR and GDP per Capita. Combined data of both males and females.**

**P-Value: 0.03;**

**95% CI of P-Value: [-0.39, -0.015]**

**Pearson Correlation Coefficient (r): -0.21**

