

# THE LANCET

## Supplementary appendix 3

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: GBD 2023 Disease and Injury and Risk Factor Collaborators. Burden of 375 diseases and injuries, risk-attributable burden of 88 risk factors, and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet* 2025; published online Oct 12. [https://doi.org/10.1016/S0140-6736\(25\)01637-X](https://doi.org/10.1016/S0140-6736(25)01637-X).

## Appendix 3: supplementary results appendix to “Non-fatal burden for 375 diseases and injuries, including risk-attributable burden for 88 risk factors and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023”

This supplement provides additional figures containing more detailed results for “Non-fatal burden for 375 diseases and injuries, including risk-attributable burden for 88 risk factors and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023”.

All supplementary tables can be accessed here <https://ghdx.healthdata.org/record/ihme-data/gbd-2023-yld-daly-hale-risk-1990-2023>.

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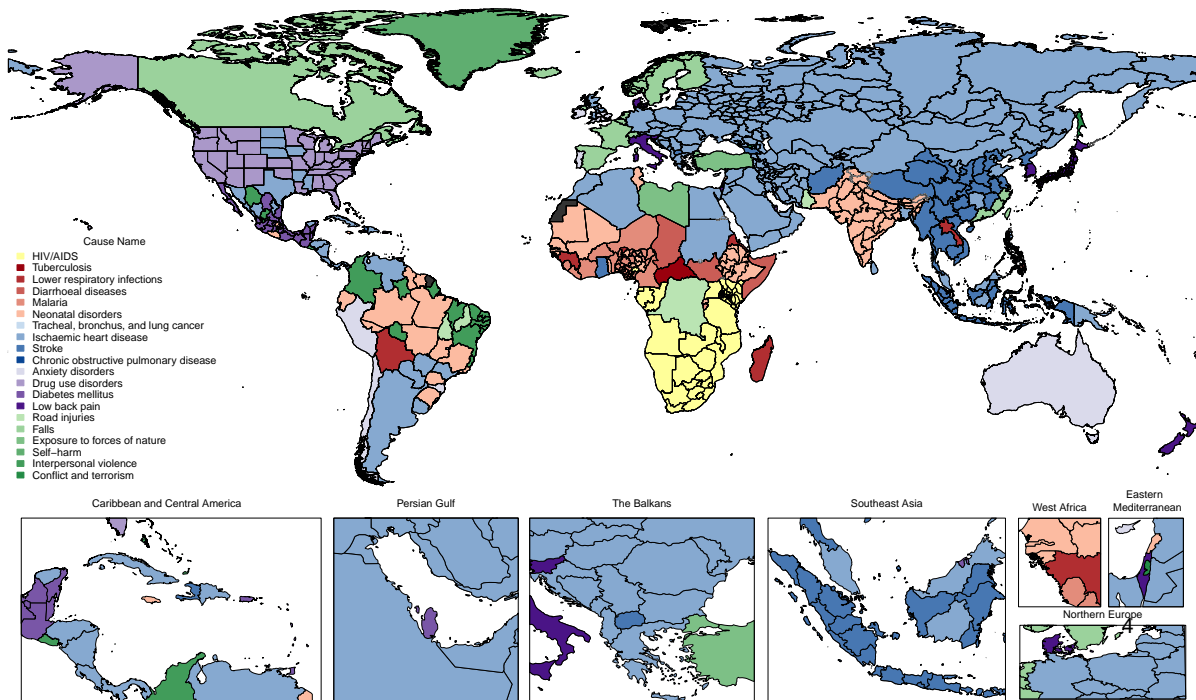
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Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 Low birth weight and short gestation	29.1 (27.9 to 30.5)	1 Low birth weight and short gestation	30.1 (28.4 to 31.9)	-27.0 (-31.1 to -22.1)	-18.9 (-23.6 to -13.8)
2 Child growth failure	24.2 (16.3 to 29.6)	2 Child growth failure	18.0 (10.5 to 23.7)	-47.3 (-56.1 to -39.9)	-44.3 (-53.1 to -37.0)
3 Particulate matter pollution	13.8 (11.0 to 16.1)	3 Particulate matter pollution	13.7 (11.2 to 15.7)	-30.0 (-35.5 to -23.1)	-24.5 (-28.4 to -20.3)
4 Unsafe water source	7.8 (3.9 to 11.0)	4 Unsafe water source	4.9 (2.4 to 7.5)	-56.2 (-70.7 to -29.4)	-50.1 (-63.0 to -33.5)
5 Unsafe sanitation	6.3 (4.6 to 8.0)	5 Unsafe sanitation	3.7 (2.5 to 5.5)	-58.3 (-72.0 to -33.0)	-54.0 (-64.9 to -38.4)
6 No access to handwashing facility	4.7 (-1.2 to 9.8)	6 No access to handwashing facility	3.4 (-1.1 to 7.9)	-49.2 (-79.4 to -27.9)	-44.9 (-71.7 to -24.7)
7 Suboptimal breastfeeding	3.1 (2.3 to 3.9)	7 Suboptimal breastfeeding	2.2 (1.5 to 2.8)	-50.2 (-62.4 to -33.5)	-46.0 (-59.3 to -28.0)
8 Second-hand smoke	1.4 (1.0 to 1.9)	8 Iron deficiency	1.4 (1.0 to 2.0)	-10.6 (-22.7 to 3.2)	-11.1 (-30.3 to 12.1)
9 High temperature	1.1 (0.6 to 1.6)	9 Second-hand smoke	1.1 (0.7 to 1.5)	-45.0 (-57.4 to -28.2)	-22.4 (-31.2 to -12.8)
10 Iron deficiency	1.1 (0.7 to 1.6)	10 High temperature	0.8 (0.4 to 1.2)	-51.0 (-64.9 to -36.4)	-30.2 (-41.5 to -17.8)
11 Vitamin A deficiency	0.9 (-1.5 to 3.4)	11 Vitamin A deficiency	0.5 (-0.6 to 2.0)	-61.4 (-85.9 to -41.8)	-56.8 (-103.0 to -4.6)
12 Low temperature	0.4 (0.2 to 0.6)	12 Low temperature	0.3 (0.1 to 0.5)	-49.3 (-67.4 to -29.4)	-28.2 (-32.9 to -22.9)
13 Zinc deficiency	0.2 (-0.8 to 1.0)	13 Kidney dysfunction	0.2 (0.1 to 0.2)	15.0 (-24.8 to 79.6)	-6.3 (-12.6 to 0.2)
14 Kidney dysfunction	0.1 (0.1 to 0.1)	14 Zinc deficiency	0.1 (-0.5 to 0.6)	-62.9 (-74.8 to -37.0)	-61.9 (-74.2 to -35.4)
15 High fasting plasma glucose	0.0 (0.0 to 0.1)	15 High fasting plasma glucose	0.1 (0.0 to 0.1)	-12.9 (-44.1 to 35.4)	6.2 (-2.9 to 16.1)
16 Lead exposure	0.0 (0.0 to 0.1)	16 Lead exposure	0.0 (0.0 to 0.1)	-21.6 (-42.9 to -10.1)	-14.0 (-20.2 to -8.0)
17 High body-mass index	0.0 (0.0 to 0.0)	17 High body-mass index	0.0 (0.0 to 0.0)	-0.6 (-17.8 to 20.3)	10.5 (0.5 to 21.1)
18 Ambient nitrogen dioxide pollution	0.0 (0.0 to 0.0)	18 Ambient nitrogen dioxide pollution	0.0 (0.0 to 0.0)	-30.9 (-49.6 to -18.4)	-29.2 (-48.4 to -16.7)
19 High alcohol use	0.0 (0.0 to 0.0)	19 High alcohol use	0.0 (0.0 to 0.0)	-19.9 (-48.8 to -2.0)	-22.6 (-27.0 to -18.2)

Environmental and occupational risks

Behavioural risks

Metabolic risks

\*For ages under 5, GBD does not estimate 25 level 3 risk factors.

**Supplementary Figure 2b. Leading 25\* Level 3 risk factors for ages 5-14 years by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.**

Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 Iron deficiency	6.0 (3.8 to 8.6)	1 Iron deficiency	6.5 (4.4 to 9.4)	2.9 (-26.4 to 42.0)	-11.1 (-30.3 to 12.1)
2 Unsafe water source	4.2 (2.1 to 6.1)	2 Unsafe water source	2.8 (1.3 to 4.1)	-36.4 (-52.0 to -16.4)	-50.1 (-63.0 to -33.5)
3 Unsafe sanitation	3.4 (2.3 to 4.8)	3 Low birth weight and short gestation	2.1 (1.7 to 2.6)	16.6 (11.9 to 21.3)	-18.9 (-23.6 to -13.8)
4 No access to handwashing facility	2.0 (-0.4 to 4.0)	4 Unsafe sanitation	2.1 (1.3 to 2.8)	-41.7 (-55.3 to -22.9)	-54.0 (-64.9 to -38.4)
5 Low birth weight and short gestation	1.8 (1.4 to 2.2)	5 No access to handwashing facility	1.5 (-0.4 to 3.3)	-28.9 (-62.3 to 17.4)	-44.9 (-71.7 to -24.7)
6 Particulate matter pollution	1.5 (0.7 to 2.4)	6 Particulate matter pollution	1.5 (0.7 to 2.4)	-7.4 (-33.0 to 32.9)	-24.5 (-28.4 to -20.3)
7 Child growth failure	1.4 (1.2 to 1.7)	7 Child growth failure	0.8 (0.6 to 1.1)	-45.3 (-56.5 to -32.6)	-44.3 (-53.1 to -37.0)
8 High temperature	1.2 (0.7 to 1.7)	8 Bullying victimization	0.7 (0.4 to 1.4)	37.0 (9.0 to 108.1)	18.6 (4.2 to 39.5)
9 Vitamin A deficiency	0.6 (0.3 to 0.9)	9 High temperature	0.6 (0.5 to 0.8)	-48.9 (-63.3 to -22.9)	-30.2 (-41.5 to -17.8)
10 Second-hand smoke	0.6 (0.4 to 0.7)	10 Kidney dysfunction	0.6 (0.5 to 0.9)	14.3 (-16.0 to 53.4)	-6.3 (-12.6 to 0.2)
11 Bullying victimization	0.5 (0.3 to 0.9)	11 Second-hand smoke	0.5 (0.4 to 0.7)	-12.1 (-28.0 to 11.2)	-22.4 (-31.2 to -12.8)
12 Kidney dysfunction	0.5 (0.4 to 0.7)	12 Vitamin A deficiency	0.4 (0.2 to 0.6)	-37.3 (-54.2 to -8.6)	-56.8 (-103.0 to -4.6)
13 Unsafe sex	0.4 (0.4 to 0.5)	13 Lead exposure	0.3 (0.1 to 0.5)	-10.4 (-35.8 to 5.5)	-14.0 (-20.2 to -8.0)
14 Lead exposure	0.3 (0.1 to 0.5)	14 Unsafe sex	0.2 (0.2 to 0.3)	-46.8 (-51.3 to -42.3)	-30.7 (-37.0 to -24.6)
15 High fasting plasma glucose	0.2 (0.1 to 0.3)	15 High fasting plasma glucose	0.2 (0.1 to 0.3)	-8.5 (-33.8 to 28.0)	6.2 (-2.9 to 16.1)
16 High alcohol use	0.1 (0.1 to 0.2)	16 High alcohol use	0.1 (0.1 to 0.2)	-7.2 (-21.3 to 8.6)	-22.6 (-27.0 to -18.2)
17 Ambient nitrogen dioxide pollution	0.1 (-0.1 to 0.4)	17 High body-mass index	0.1 (0.1 to 0.2)	14.0 (-8.2 to 38.8)	10.5 (0.5 to 21.1)
18 High body-mass index	0.1 (0.0 to 0.2)	18 Ambient nitrogen dioxide pollution	0.1 (-0.1 to 0.4)	-18.0 (-39.4 to -4.0)	-29.2 (-48.4 to -16.7)
19 Drug use	0.0 (0.0 to 0.0)	19 Drug use	0.0 (0.0 to 0.0)	-1.9 (-12.5 to 5.1)	8.7 (2.5 to 15.3)
20 Chewing tobacco	0.0 (0.0 to 0.0)	20 Chewing tobacco	0.0 (0.0 to 0.0)	-15.8 (-62.0 to 90.6)	1.6 (-31.3 to 45.9)
21 Low temperature	-0.5 (-0.6 to -0.3)	21 Low temperature	-0.3 (-0.4 to -0.2)	-29.4 (-45.1 to -12.7)	-28.2 (-32.9 to -22.9)

Environmental and occupational risks

Behavioural risks

Metabolic risks

\*For ages 5-14 years, GBD does not estimate 25 level 3 risk factors.

Supplementary Figure 2c. Leading 25 Level 3 risk factors for ages 15-49 years by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.

Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 Unsafe sex	5.7 (5.1 to 6.5)	1 Unsafe sex	4.0 (3.5 to 4.8)	-27.6 (-33.6 to -21.8)	-30.7 (-37.0 to -24.6)
2 Occupational injuries	4.8 (4.2 to 5.4)	2 Occupational injuries	3.9 (3.4 to 4.4)	-15.7 (-24.2 to -6.0)	-24.3 (-31.7 to -15.6)
3 Smoking	3.9 (3.1 to 4.7)	3 High body-mass index	3.6 (2.0 to 5.0)	37.5 (22.5 to 52.2)	10.5 (0.5 to 21.1)
4 High alcohol use	3.7 (3.2 to 4.3)	4 High systolic blood pressure	3.2 (2.4 to 4.2)	11.1 (-8.7 to 33.3)	-14.3 (-22.8 to -5.1)
5 Particulate matter pollution	3.0 (2.4 to 3.6)	5 Smoking	3.1 (2.5 to 3.9)	-16.6 (-26.4 to -6.2)	-24.8 (-32.4 to -16.7)
6 High systolic blood pressure	3.0 (2.2 to 3.8)	6 High alcohol use	3.1 (2.7 to 3.6)	-12.4 (-17.7 to -7.0)	-22.6 (-27.0 to -18.2)
7 High body-mass index	2.7 (1.4 to 4.0)	7 High fasting plasma glucose	3.0 (2.5 to 3.4)	29.4 (17.7 to 41.6)	6.2 (-2.9 to 16.1)
8 Sexual violence against children	2.5 (1.3 to 4.0)	8 Particulate matter pollution	2.8 (2.2 to 3.5)	-3.3 (-13.8 to 9.1)	-24.5 (-28.4 to -20.3)
9 Iron deficiency	2.4 (1.8 to 3.1)	9 Sexual violence against children	2.6 (1.4 to 4.1)	5.7 (-21.7 to 40.9)	-3.0 (-29.5 to 30.8)
10 High fasting plasma glucose	2.4 (2.1 to 2.7)	10 Drug use	2.4 (2.1 to 2.7)	22.2 (15.2 to 29.0)	8.7 (2.5 to 15.3)
11 High LDL cholesterol	2.1 (1.5 to 2.6)	11 Iron deficiency	2.2 (1.6 to 3.0)	-4.0 (-25.8 to 22.6)	-11.1 (-30.3 to 12.1)
12 Drug use	2.0 (1.7 to 2.3)	12 High LDL cholesterol	2.2 (1.6 to 2.8)	8.1 (-8.7 to 25.2)	-13.7 (-23.3 to -1.5)
13 Kidney dysfunction	1.7 (1.5 to 2.0)	13 Kidney dysfunction	1.9 (1.6 to 2.3)	16.3 (1.6 to 30.9)	-6.3 (-12.6 to 0.2)
14 Intimate partner violence	1.5 (0.6 to 2.7)	14 Intimate partner violence	1.6 (0.8 to 2.6)	8.2 (-17.7 to 63.3)	0.1 (-23.8 to 44.5)
15 Diet low in fruits	1.3 (0.4 to 2.0)	15 Diet low in fruits	1.4 (0.5 to 2.2)	8.0 (-9.9 to 32.3)	-9.6 (-22.8 to 8.3)
16 Lead exposure	1.1 (0.9 to 1.4)	16 Lead exposure	1.1 (0.8 to 1.3)	-3.2 (-17.1 to 10.7)	-14.0 (-20.2 to -8.0)
17 Unsafe water source	1.0 (0.5 to 1.6)	17 Low birth weight and short gestation	0.9 (0.7 to 1.0)	27.8 (23.3 to 32.1)	-18.9 (-23.6 to -13.8)
18 Unsafe sanitation	0.8 (0.6 to 1.4)	18 Diet low in whole grains	0.8 (0.4 to 1.3)	7.7 (-20.9 to 44.6)	-11.1 (-33.2 to 19.0)
19 Second-hand smoke	0.8 (0.6 to 1.0)	19 Second-hand smoke	0.8 (0.6 to 1.0)	1.5 (-9.9 to 12.9)	-22.4 (-31.2 to -12.8)
20 Diet low in whole grains	0.8 (0.4 to 1.3)	20 Unsafe water source	0.7 (0.4 to 1.1)	-27.1 (-43.4 to -4.3)	-50.1 (-63.0 to -33.5)
21 Occupational ergonomic factors	0.7 (-0.7 to 2.0)	21 Occupational ergonomic factors	0.7 (-0.7 to 2.0)	6.4 (-27.0 to 24.7)	-5.8 (-34.6 to 9.5)
22 Low birth weight and short gestation	0.7 (0.6 to 0.8)	22 Diet low in nuts and seeds	0.7 (0.2 to 1.1)	3.9 (-18.8 to 32.0)	-17.4 (-34.6 to 0.1)
23 High temperature	0.7 (0.5 to 0.9)	23 Diet low in vegetables	0.7 (0.3 to 1.0)	21.6 (-5.7 to 58.6)	-10.1 (-27.5 to 11.0)
24 Diet low in nuts and seeds	0.7 (0.2 to 1.1)	24 High temperature	0.6 (0.4 to 0.7)	-13.8 (-27.8 to 1.8)	-30.2 (-41.5 to -17.8)
25 Diet low in vegetables	0.6 (0.3 to 0.8)	25 Unsafe sanitation	0.5 (0.4 to 0.8)	-34.9 (-49.1 to -13.9)	-54.0 (-64.9 to -38.4)

■ Environmental and occupational risks  
■ Behavioural risks  
■ Metabolic risks

**Supplementary Figure 2d. Leading 25 Level 3 risk factors for ages 50-69 years by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.**

Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 High systolic blood pressure	13.6 (11.1 to 16.0)	1 High systolic blood pressure	13.3 (10.7 to 15.8)	27.0 (14.0 to 41.8)	-14.3 (-22.8 to -5.1)
2 Smoking	13.5 (11.3 to 15.9)	2 Smoking	11.2 (9.5 to 13.5)	8.3 (-2.9 to 19.3)	-24.8 (-32.4 to -16.7)
3 Particulate matter pollution	10.9 (9.2 to 12.8)	3 High fasting plasma glucose	9.6 (8.6 to 10.9)	56.2 (41.9 to 70.9)	6.2 (-2.9 to 16.1)
4 High fasting plasma glucose	8.0 (7.2 to 9.2)	4 Particulate matter pollution	9.3 (7.7 to 11.2)	10.3 (3.5 to 17.5)	-24.5 (-28.4 to -20.3)
5 High body-mass index	7.2 (3.7 to 10.5)	5 High body-mass index	8.8 (4.5 to 12.6)	57.6 (43.6 to 72.9)	10.5 (0.5 to 21.1)
6 High LDL cholesterol	5.9 (3.8 to 7.8)	6 High LDL cholesterol	5.8 (3.8 to 7.7)	27.3 (13.6 to 42.4)	-13.7 (-23.3 to -1.5)
7 Kidney dysfunction	4.6 (3.8 to 5.3)	7 Kidney dysfunction	4.8 (4.0 to 5.6)	35.8 (26.9 to 45.1)	-6.3 (-12.6 to 0.2)
8 Lead exposure	4.2 (3.1 to 5.3)	8 Lead exposure	4.1 (3.0 to 5.2)	27.0 (14.6 to 38.9)	-14.0 (-20.2 to -8.0)
9 High alcohol use	3.6 (2.9 to 4.6)	9 Diet low in fruits	3.0 (1.0 to 4.9)	29.0 (9.4 to 56.0)	-9.6 (-22.8 to 8.3)
10 Diet low in fruits	3.0 (1.0 to 4.7)	10 High alcohol use	2.9 (2.3 to 3.8)	6.3 (0.1 to 13.2)	-22.6 (-27.0 to -18.2)
11 Diet high in sodium	2.7 (0.6 to 6.2)	11 Diet high in sodium	2.5 (0.5 to 5.9)	19.9 (-25.8 to 83.0)	-17.2 (-52.3 to 28.0)
12 Second-hand smoke	2.5 (2.1 to 3.0)	12 Second-hand smoke	2.3 (1.9 to 2.8)	18.1 (7.0 to 31.8)	-22.4 (-31.2 to -12.8)
13 Diet low in whole grains	2.0 (0.8 to 3.3)	13 Diet low in whole grains	2.0 (0.9 to 3.3)	29.5 (-4.5 to 74.4)	-11.1 (-33.2 to 19.0)
14 Unsafe sex	1.8 (1.6 to 2.1)	14 Unsafe sex	1.7 (1.5 to 2.0)	23.3 (8.1 to 39.2)	-30.7 (-37.0 to -24.6)
15 Diet low in nuts and seeds	1.5 (0.4 to 2.5)	15 Diet low in nuts and seeds	1.4 (0.4 to 2.4)	20.8 (-4.6 to 46.7)	-17.4 (-34.6 to 0.1)
16 Low temperature	1.5 (1.3 to 1.7)	16 Diet low in vegetables	1.4 (0.7 to 2.1)	26.5 (1.7 to 57.8)	-10.1 (-27.5 to 11.0)
17 Diet low in vegetables	1.4 (0.7 to 2.2)	17 Low bone mineral density	1.2 (1.0 to 1.4)	28.5 (21.8 to 35.3)	-6.2 (-10.6 to -1.6)
18 Occupational injuries	1.3 (1.2 to 1.5)	18 Low temperature	1.2 (1.0 to 1.4)	7.9 (1.3 to 15.0)	-28.2 (-32.9 to -22.9)
19 Low bone mineral density	1.3 (1.0 to 1.5)	19 Sexual violence against children	1.0 (0.5 to 1.8)	39.2 (-0.1 to 91.8)	-3.0 (-29.5 to 30.8)
20 Sexual violence against children	1.0 (0.5 to 1.5)	20 Occupational injuries	1.0 (0.9 to 1.2)	0.4 (-12.4 to 15.8)	-24.3 (-31.7 to -15.6)
21 Diet low in seafood omega-3 fatty acids	1.0 (0.2 to 1.9)	21 Drug use	1.0 (0.8 to 1.1)	44.7 (34.2 to 58.2)	8.7 (2.5 to 15.3)
22 Diet low in omega-6 polyunsaturated fatty acids	1.0 (-2.7 to 3.6)	22 Low physical activity	0.9 (0.4 to 1.3)	46.8 (35.8 to 60.2)	-3.3 (-9.3 to 4.4)
23 Diet low in legumes	0.9 (-0.7 to 2.4)	23 Diet low in omega-6 polyunsaturated fatty acids	0.9 (-2.4 to 3.5)	22.4 (-0.2 to 44.6)	-17.1 (-31.9 to 1.3)
24 Diet high in trans fatty acids	0.9 (0.0 to 1.7)	24 Diet low in legumes	0.9 (-0.7 to 2.2)	24.4 (-3.6 to 58.2)	-15.4 (-33.7 to 7.1)
25 Unsafe water source	0.9 (0.4 to 1.5)	25 Diet low in seafood omega-3 fatty acids	0.8 (0.2 to 1.5)	5.9 (-37.2 to 51.3)	-26.8 (-55.8 to 2.9)
26 Drug use	0.9 (0.7 to 1.0)	28 Diet high in trans fatty acids	0.7 (0.0 to 1.3)	-2.1 (-31.8 to 42.0)	-32.3 (-52.1 to -0.3)
28 Low physical activity	0.8 (0.4 to 1.2)	36 Unsafe water source	0.5 (0.2 to 0.7)	-28.9 (-48.2 to -3.2)	-50.1 (-63.0 to -33.5)

■ Environmental and occupational risks  
■ Behavioural risks  
■ Metabolic risks

**Supplementary Figure 2e. Leading 25 Level 3 risk factors for ages 70+ years by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.**

Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 High systolic blood pressure	20.6 (16.9 to 23.4)	1 High systolic blood pressure	18.7 (15.4 to 21.8)	21.1 (10.7 to 33.2)	-14.3 (-22.8 to -5.1)
2 Particulate matter pollution	15.7 (12.9 to 18.4)	2 Particulate matter pollution	12.5 (9.9 to 15.1)	6.4 (-1.3 to 14.5)	-24.5 (-28.4 to -20.3)
3 Smoking	10.5 (8.4 to 12.9)	3 High fasting plasma glucose	11.0 (9.8 to 12.6)	51.5 (38.6 to 66.3)	6.2 (-2.9 to 16.1)
4 High fasting plasma glucose	9.7 (8.7 to 11.2)	4 Smoking	8.8 (7.1 to 11.1)	12.2 (-4.1 to 30.1)	-24.8 (-32.4 to -16.7)
5 Kidney dysfunction	6.4 (5.1 to 7.7)	5 High body-mass index	6.6 (3.1 to 10.0)	52.7 (38.0 to 67.2)	10.5 (0.5 to 21.1)
6 Lead exposure	6.1 (4.5 to 7.7)	6 Kidney dysfunction	6.4 (5.2 to 7.7)	33.7 (27.0 to 40.8)	-6.3 (-12.6 to 0.2)
7 High LDL cholesterol	5.8 (2.9 to 9.0)	7 Lead exposure	5.8 (4.1 to 7.3)	26.6 (17.7 to 35.8)	-14.0 (-20.2 to -8.0)
8 High body-mass index	5.8 (2.7 to 8.8)	8 High LDL cholesterol	5.0 (2.7 to 7.9)	16.6 (1.6 to 33.1)	-13.7 (-23.3 to -1.5)
9 Second-hand smoke	3.0 (2.4 to 3.7)	9 Diet high in sodium	2.7 (0.3 to 6.7)	22.8 (-33.9 to 105.6)	-17.2 (-52.3 to 28.0)
10 Low temperature	2.9 (2.6 to 3.3)	10 Second-hand smoke	2.6 (2.1 to 3.3)	17.5 (4.1 to 31.8)	-22.4 (-31.2 to -12.8)
11 Diet high in sodium	2.9 (0.4 to 7.4)	11 Diet low in fruits	2.4 (1.1 to 3.7)	28.8 (6.6 to 55.6)	-9.6 (-22.8 to 8.3)
12 Diet low in fruits	2.5 (1.1 to 3.8)	12 Low temperature	2.3 (2.0 to 2.6)	5.7 (0.2 to 11.8)	-28.2 (-32.9 to -22.9)
13 Diet low in whole grains	1.8 (0.7 to 3.2)	13 Low bone mineral density	2.0 (1.7 to 2.3)	51.8 (45.9 to 59.1)	-6.2 (-10.6 to -1.6)
14 Low bone mineral density	1.7 (1.5 to 2.1)	14 Diet low in whole grains	1.7 (0.7 to 2.7)	23.7 (-7.6 to 61.4)	-11.1 (-33.2 to 19.0)
15 Diet low in vegetables	1.4 (0.8 to 2.1)	15 Low physical activity	1.4 (0.6 to 2.2)	36.2 (25.0 to 50.7)	-3.3 (-9.3 to 4.4)
16 High alcohol use	1.4 (1.1 to 2.1)	16 Diet low in vegetables	1.3 (0.8 to 2.0)	21.7 (-0.5 to 48.3)	-10.1 (-27.5 to 11.0)
17 Low physical activity	1.4 (0.5 to 2.2)	17 High alcohol use	1.3 (0.9 to 1.8)	17.4 (7.8 to 26.9)	-22.6 (-27.0 to -18.2)
18 Unsafe water source	1.4 (0.7 to 2.2)	18 Diet low in nuts and seeds	1.1 (0.3 to 2.0)	8.7 (-14.0 to 32.0)	-17.4 (-34.6 to 0.1)
19 Diet low in nuts and seeds	1.4 (0.3 to 2.3)	19 Ambient ozone pollution	0.8 (0.2 to 1.4)	31.2 (11.5 to 62.2)	-9.0 (-24.0 to 12.3)
20 Unsafe sanitation	1.1 (0.8 to 1.8)	20 Diet low in legumes	0.8 (-0.6 to 2.2)	15.6 (-10.4 to 41.9)	-15.4 (-33.7 to 7.1)
21 Diet low in legumes	0.9 (-0.7 to 2.6)	21 Unsafe water source	0.8 (0.3 to 1.2)	-25.4 (-44.0 to -1.9)	-50.1 (-63.0 to -33.5)
22 Diet low in seafood omega-3 fatty acids	0.9 (0.2 to 1.8)	22 Diet low in seafood omega-3 fatty acids	0.7 (0.1 to 1.4)	-0.1 (-40.9 to 40.5)	-26.8 (-55.8 to 2.9)
23 Ambient ozone pollution	0.9 (0.2 to 1.5)	23 Diet low in omega-6 polyunsaturated fatty acids	0.6 (-1.5 to 2.6)	5.8 (-15.4 to 25.5)	-17.1 (-31.9 to 1.3)
24 Diet low in omega-6 polyunsaturated fatty acids	0.8 (-2.0 to 3.2)	24 Diet high in red meat	0.6 (0.0 to 1.1)	47.0 (-31.0 to 148.9)	9.9 (-46.9 to 133.0)
25 Diet high in trans fatty acids	0.7 (0.0 to 1.4)	25 High temperature	0.6 (0.4 to 0.9)	36.9 (26.1 to 53.1)	-30.2 (-41.5 to -17.8)
29 High temperature	0.6 (0.4 to 0.9)	29 Unsafe sanitation	0.5 (0.3 to 0.8)	-39.0 (-52.9 to -20.2)	-54.0 (-64.9 to -38.4)
30 Diet high in red meat	0.6 (0.0 to 0.9)	31 Diet high in trans fatty acids	0.5 (0.0 to 0.9)	-10.2 (-36.5 to 31.8)	-32.3 (-52.1 to -0.3)

■ Environmental and occupational risks  
■ Behavioural risks  
■ Metabolic risks

**Supplementary Figure 2f. Leading 25 Level 3 risk factors for females by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.**

Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 Particulate matter pollution	8.7 (7.3 to 10.5)	1 High systolic blood pressure	7.9 (6.4 to 9.4)	22.2 (10.1 to 37.5)	-14.5 (-23.2 to -3.9)
2 High systolic blood pressure	6.9 (5.7 to 8.1)	2 Particulate matter pollution	7.7 (6.3 to 9.3)	-5.0 (-11.1 to 1.8)	-23.5 (-27.8 to -18.4)
3 Low birth weight and short gestation	6.5 (5.8 to 7.2)	3 High fasting plasma glucose	5.7 (5.0 to 6.4)	46.9 (32.8 to 63.1)	4.9 (-5.6 to 16.6)
4 Child growth failure	6.3 (4.4 to 8.0)	4 High body-mass index	5.2 (2.5 to 7.6)	51.1 (37.1 to 67.8)	10.6 (0.0 to 23.3)
5 High fasting plasma glucose	4.2 (3.7 to 4.9)	5 Low birth weight and short gestation	4.6 (4.1 to 5.1)	-23.2 (-28.8 to -17.5)	-18.3 (-24.4 to -12.2)
6 High body-mass index	3.7 (1.8 to 5.6)	6 Kidney dysfunction	3.1 (2.6 to 3.6)	32.5 (21.1 to 44.9)	-4.5 (-12.6 to 4.8)
7 Unsafe sex	3.0 (2.7 to 3.4)	7 Child growth failure	3.0 (1.8 to 3.9)	-49.3 (-58.5 to -40.8)	-47.8 (-57.5 to -38.7)
8 Unsafe water source	3.0 (1.6 to 4.2)	8 High LDL cholesterol	2.7 (1.7 to 3.9)	17.0 (-2.2 to 37.9)	-16.2 (-30.0 to 0.2)
9 Kidney dysfunction	2.5 (2.1 to 2.9)	9 Unsafe sex	2.5 (2.1 to 2.9)	-11.6 (-21.1 to -0.6)	-25.9 (-33.8 to -17.0)
10 High LDL cholesterol	2.5 (1.5 to 3.5)	10 Lead exposure	2.2 (1.5 to 2.8)	22.1 (6.5 to 37.0)	-14.2 (-25.0 to -3.7)
11 Unsafe sanitation	2.4 (1.7 to 3.3)	11 Iron deficiency	2.1 (1.5 to 2.9)	-2.1 (-22.6 to 20.8)	-12.6 (-30.6 to 7.6)
12 Iron deficiency	2.3 (1.7 to 3.0)	12 Smoking	1.8 (1.4 to 2.5)	-0.4 (-19.8 to 25.9)	-28.6 (-42.3 to -10.1)
13 Smoking	2.0 (1.4 to 2.6)	13 Second-hand smoke	1.7 (1.4 to 2.1)	0.4 (-10.4 to 12.3)	-24.1 (-32.1 to -15.6)
14 Lead exposure	1.9 (1.4 to 2.4)	14 Unsafe water source	1.5 (0.8 to 2.2)	-46.4 (-62.7 to -22.3)	-50.6 (-66.4 to -27.1)
15 Second-hand smoke	1.8 (1.4 to 2.3)	15 Diet low in fruits	1.4 (0.6 to 2.3)	28.1 (4.7 to 60.3)	-6.4 (-23.6 to 16.7)
16 No access to handwashing facility	1.6 (-0.4 to 3.3)	16 Intimate partner violence	1.4 (0.7 to 2.2)	15.9 (-11.8 to 68.1)	0.5 (-23.4 to 45.3)
17 Intimate partner violence	1.3 (0.5 to 2.2)	17 Sexual violence against children	1.2 (0.6 to 2.0)	13.4 (-11.7 to 48.3)	-3.3 (-24.5 to 25.4)
18 Diet low in fruits	1.2 (0.4 to 1.9)	18 Unsafe sanitation	1.1 (0.8 to 1.6)	-51.6 (-65.4 to -30.6)	-54.9 (-68.4 to -32.8)
19 Sexual violence against children	1.2 (0.6 to 1.9)	19 Low bone mineral density	1.0 (0.8 to 1.2)	36.5 (30.5 to 44.1)	-4.3 (-8.4 to 1.0)
20 Low temperature	0.9 (0.7 to 1.0)	20 Diet low in whole grains	1.0 (0.4 to 1.5)	21.8 (-9.4 to 63.8)	-11.8 (-34.1 to 18.4)
21 Diet high in sodium	0.9 (0.1 to 2.3)	21 Diet high in sodium	0.9 (0.1 to 2.6)	16.3 (-42.7 to 94.8)	-18.5 (-59.3 to 37.3)
22 Diet low in whole grains	0.8 (0.3 to 1.4)	22 No access to handwashing facility	0.8 (-0.3 to 1.9)	-44.8 (-71.4 to -17.5)	-47.0 (-73.4 to -19.2)
23 Low bone mineral density	0.8 (0.6 to 0.9)	23 Low temperature	0.8 (0.7 to 1.0)	-1.0 (-8.3 to 8.2)	-30.8 (-35.7 to -25.2)
24 High temperature	0.8 (0.5 to 1.0)	24 Diet low in vegetables	0.8 (0.4 to 1.2)	31.4 (4.9 to 74.6)	-4.5 (-23.6 to 26.6)
25 High alcohol use	0.7 (0.6 to 0.9)	25 Low physical activity	0.7 (0.3 to 1.1)	36.0 (25.8 to 48.4)	-4.7 (-11.8 to 3.9)
27 Diet low in vegetables	0.6 (0.3 to 1.0)	27 High alcohol use	0.7 (0.6 to 0.8)	-4.6 (-10.5 to 1.6)	-24.4 (-29.1 to -19.7)
30 Low physical activity	0.6 (0.2 to 0.9)	30 High temperature	0.5 (0.4 to 0.7)	-23.7 (-40.2 to -4.7)	-37.1 (-51.6 to -20.9)

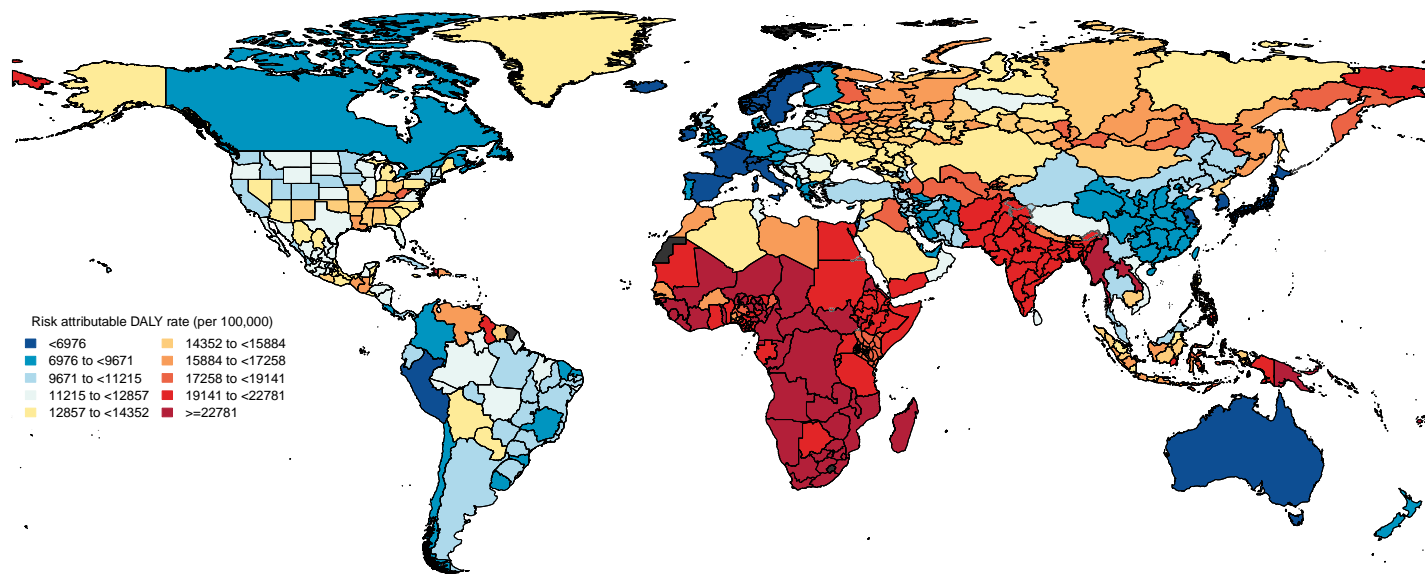
■ Environmental and occupational risks  
■ Behavioural risks  
■ Metabolic risks

**Supplementary Figure 2g. Leading 25 Level 3 risk factors for males by attributable DALYs as percentage of total DALY counts (2010 and 2023), and percentage change in attributable DALY counts and age-standardised DALY rates from 2010 to 2023.**

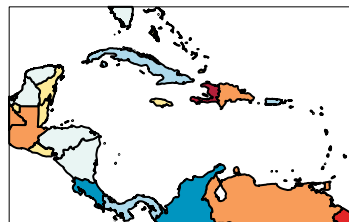
Leading risks 2010	Percentage of total DALYs, 2010	Leading risks 2023	Percentage of total DALYs, 2010	Percentage change in number of DALYs, 2010-2023	Percentage change in age-standardised rate of DALYs, 2010-2023
1 Particulate matter pollution	9.8 (8.2 to 11.4)	1 Smoking	9.3 (7.9 to 11.1)	5.0 (-4.7 to 15.1)	-24.5 (-31.7 to -17.1)
2 Smoking	9.3 (7.8 to 10.9)	2 High systolic blood pressure	8.9 (7.2 to 10.5)	22.2 (8.0 to 38.3)	-14.1 (-24.0 to -3.1)
3 Low birth weight and short gestation	8.1 (7.6 to 8.8)	3 Particulate matter pollution	8.7 (7.1 to 10.2)	-8.0 (-14.9 to -1.5)	-25.5 (-30.9 to -20.7)
4 High systolic blood pressure	7.6 (6.1 to 8.8)	4 High fasting plasma glucose	5.9 (5.3 to 6.6)	51.0 (37.6 to 64.7)	7.2 (-2.4 to 17.0)
5 Child growth failure	5.7 (3.7 to 7.1)	5 Low birth weight and short gestation	5.8 (5.3 to 6.5)	-24.9 (-30.1 to -18.5)	-19.3 (-24.8 to -12.0)
6 High fasting plasma glucose	4.1 (3.6 to 4.6)	6 High body-mass index	4.5 (2.4 to 6.4)	50.7 (35.5 to 64.9)	10.6 (-0.5 to 20.7)
7 High alcohol use	3.5 (2.9 to 4.3)	7 High LDL cholesterol	3.8 (2.5 to 5.1)	21.0 (7.3 to 36.7)	-11.7 (-21.7 to 0.1)
8 High LDL cholesterol	3.2 (2.1 to 4.4)	8 Kidney dysfunction	3.4 (2.8 to 4.0)	28.8 (16.5 to 42.1)	-7.8 (-16.2 to 0.9)
9 High body-mass index	3.1 (1.7 to 4.6)	9 High alcohol use	3.3 (2.7 to 4.1)	-2.3 (-8.1 to 4.4)	-22.4 (-27.3 to -17.6)
10 Occupational injuries	2.9 (2.6 to 3.2)	10 Child growth failure	3.1 (1.9 to 4.1)	-43.3 (-54.6 to -30.9)	-41.0 (-52.7 to -27.8)
11 Kidney dysfunction	2.8 (2.3 to 3.2)	11 Lead exposure	3.0 (2.3 to 3.8)	21.4 (9.9 to 33.6)	-13.9 (-21.9 to -5.2)
12 Unsafe water source	2.8 (1.4 to 3.9)	12 Occupational injuries	2.4 (2.0 to 2.7)	-14.9 (-25.1 to -4.3)	-26.2 (-35.0 to -17.1)
13 Lead exposure	2.6 (2.0 to 3.2)	13 Diet low in fruits	2.0 (0.7 to 3.1)	19.7 (0.7 to 44.3)	-11.7 (-25.6 to 6.0)
14 Unsafe sanitation	2.2 (1.5 to 3.1)	14 Diet high in sodium	1.8 (0.3 to 4.1)	17.7 (-30.1 to 80.4)	-16.9 (-50.9 to 27.6)
15 Diet low in fruits	1.7 (0.6 to 2.7)	15 Second-hand smoke	1.5 (1.2 to 1.9)	4.2 (-8.9 to 19.0)	-20.6 (-30.6 to -9.5)
16 Unsafe sex	1.7 (1.6 to 1.9)	16 Unsafe water source	1.4 (0.6 to 2.1)	-47.3 (-63.5 to -21.4)	-49.8 (-65.4 to -23.2)
17 Diet high in sodium	1.6 (0.3 to 3.5)	17 Drug use	1.4 (1.2 to 1.5)	25.6 (16.4 to 36.6)	5.6 (-2.3 to 15.0)
18 No access to handwashing facility	1.5 (-0.4 to 3.2)	18 Diet low in whole grains	1.3 (0.6 to 2.1)	22.5 (-9.8 to 60.9)	-10.4 (-34.0 to 17.9)
19 Second-hand smoke	1.5 (1.2 to 1.9)	19 Unsafe sex	1.2 (1.0 to 1.4)	-26.9 (-34.5 to -19.1)	-38.0 (-44.4 to -31.4)
20 Drug use	1.1 (1.0 to 1.3)	20 Sexual violence against children	1.1 (0.6 to 1.8)	15.2 (-20.5 to 63.4)	-2.8 (-33.2 to 38.3)
21 Diet low in whole grains	1.1 (0.5 to 1.8)	21 Unsafe sanitation	1.0 (0.7 to 1.6)	-51.4 (-67.2 to -28.3)	-53.4 (-69.1 to -28.4)
22 Iron deficiency	1.0 (0.6 to 1.5)	22 Diet low in nuts and seeds	1.0 (0.3 to 1.6)	13.0 (-13.9 to 43.0)	-16.5 (-35.8 to 5.5)
23 Sexual violence against children	1.0 (0.5 to 1.5)	23 Iron deficiency	1.0 (0.6 to 1.5)	2.3 (-24.1 to 38.7)	-7.7 (-31.7 to 24.0)
24 Diet low in nuts and seeds	0.9 (0.3 to 1.5)	24 Diet low in vegetables	0.9 (0.5 to 1.4)	18.3 (-5.0 to 47.2)	-14.2 (-30.7 to 6.3)
25 High temperature	0.8 (0.6 to 1.1)	25 No access to handwashing facility	0.9 (-0.3 to 2.0)	-41.5 (-67.5 to -9.3)	-43.1 (-68.3 to -11.8)
27 Diet low in vegetables	0.8 (0.4 to 1.2)	28 High temperature	0.7 (0.6 to 0.9)	-10.5 (-22.6 to 3.3)	-24.9 (-34.7 to -14.0)

■ Environmental and occupational risks  
■ Behavioural risks  
■ Metabolic risks

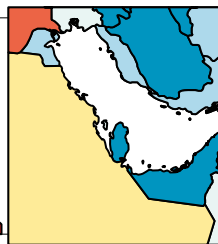
Supplementary Figure 3. Age-standardised DALY rate (per 100-000) attributable to all GBD risk factors combined, 2023



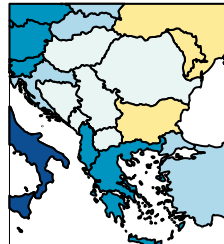
Caribbean and Central America



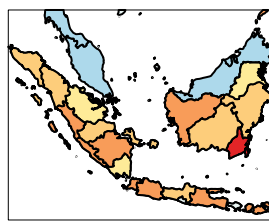
Persian Gulf



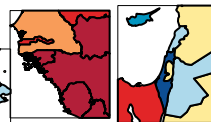
The Balkans



Southeast Asia



West Africa Eastern  
Mediterranean



Northern Europe

