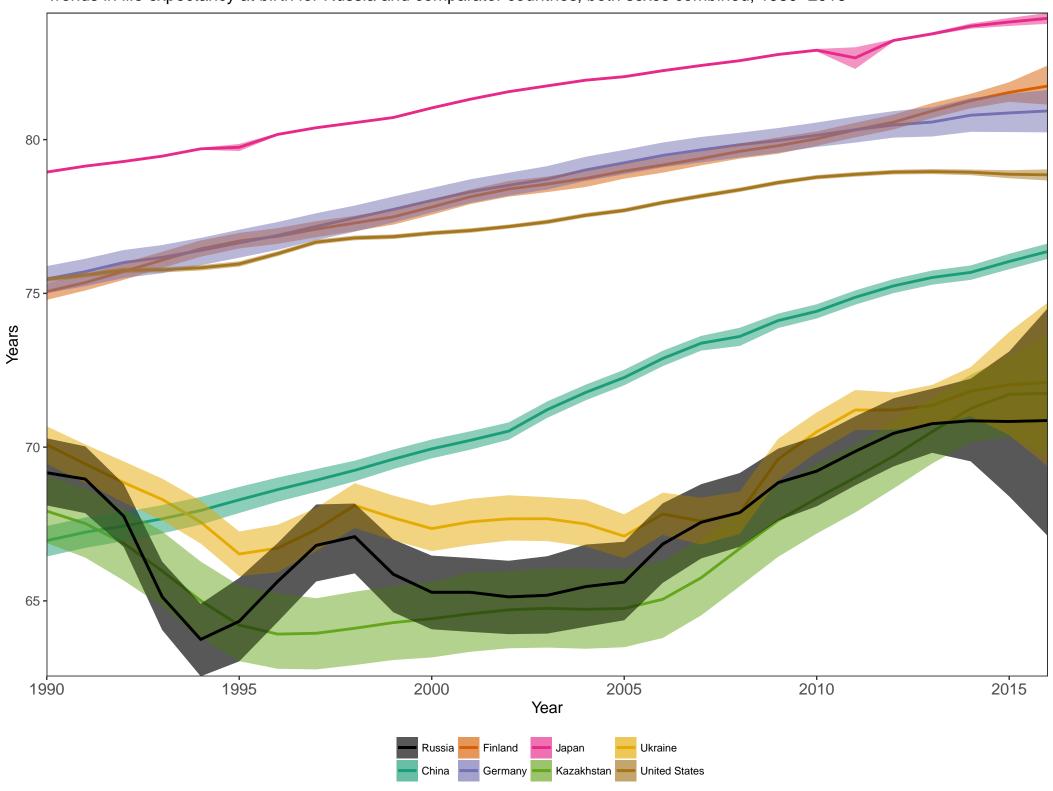
THE LANCET

Supplementary appendix

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

Supplement to: GBD 2016 Russia Collaborators. The burden of disease in Russia from 1980 to 2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet* 2018; published online Aug 30. http://dx.doi.org/10.1016/S0140-6736(18)31485-5.

Trends in life expectancy at birth for Russia and comparator countries, both sexes combined, 1980–2016



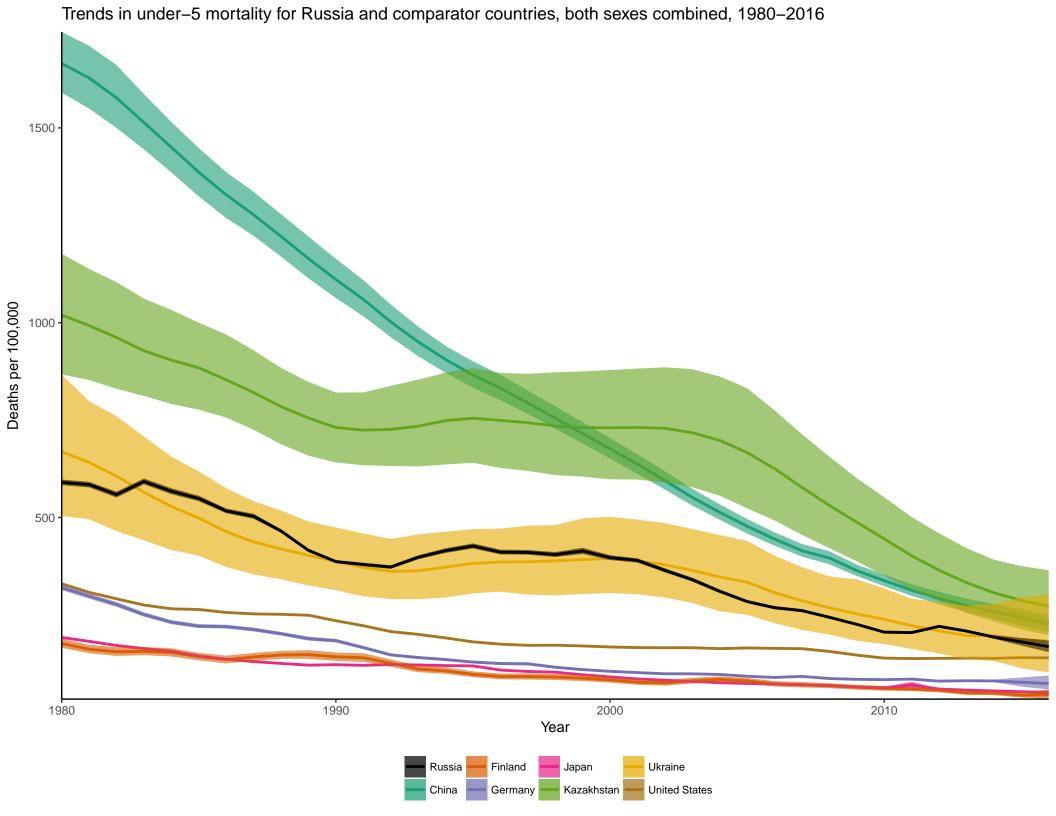
Germany

Kazakhstan

United States

China

Deaths per 100,000



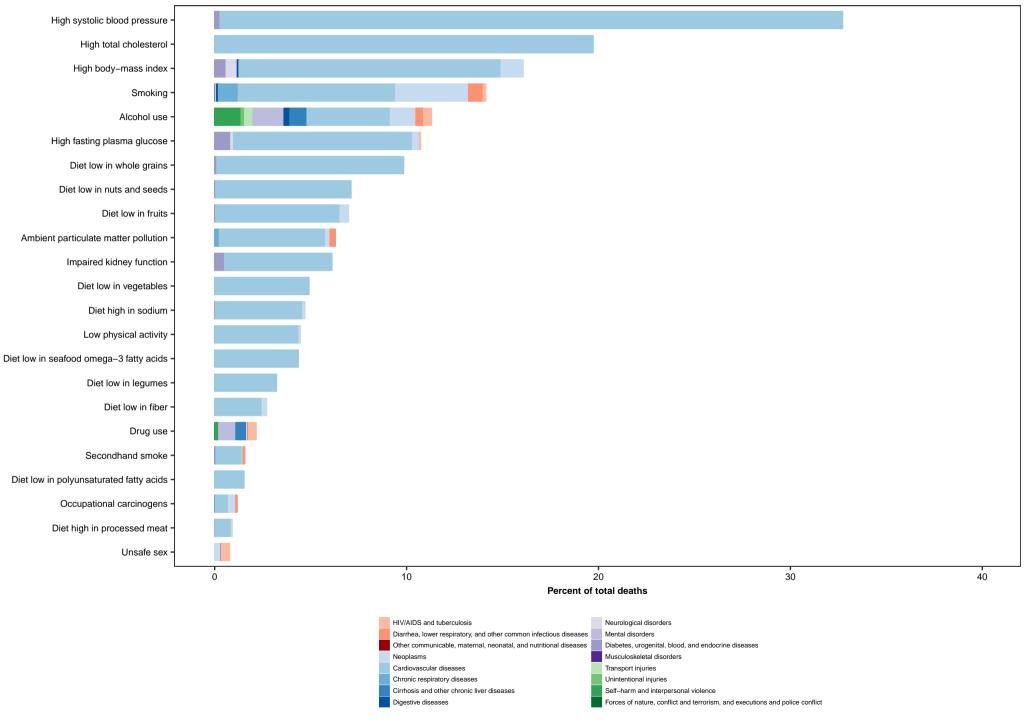
Top 20 level 3 causes of YLDs for 1990 and 2016, Russia Both sexes

Leading causes 1990		Leading causes 2016	Mean % change number of YLDs 1990-2016	Mean % change all-age YLD rate 1990-2016	Mean % change age- standardized YLD rate 1990-2016
1 Low back & neck pain]	1 Low back & neck pain	5.8% (1.1 to 10.3%)	6.9% (2.2 to 11.5%)	-8.2% (-11.9 to -4.5%)
2 Sense organ diseases]	2 Sense organ diseases	20.0% (17.9 to 22.6%)	21.3% (19.2 to 23.9%)	-2.4% (-3.9 to -0.8%)
3 Migraine	}	3 Falls	10.8% (7.4 to 13.8%)	12.1% (8.6 to 15.1%)	-3.9% (-6.8 to -1.3%)
4 Falls]	4 Migraine	3.8% (0.5 to 7.4%)	4.9% (1.6 to 8.5%)	0.2% (-2.8 to 3.3%)
5 Depressive disorders	 	5 Depressive disorders	5.7% (0.6 to 11.3%)	6.8% (1.7 to 12.5%)	-3.8% (-8.0 to 0.6%)
6 Skin diseases	 	6 Skin diseases	-4.9% (-7.1 to -2.8%)	-3.8% (-6.1 to -1.7%)	1.9% (-0.1 to 4.2%)
7 Stroke	 	7 Stroke	18.0% (8.0 to 27.3%)	19.3% (9.2 to 28.7%)	-10.6% (-18.0 to -3.7%)
8 Alcohol use disorders	 	8 Alcohol use disorders	4.3% (-4.5 to 13.8%)	5.5% (-3.5 to 15.0%)	-0.7% (-9.1 to 8.2%)
9 Drug use disorders	人	9 Oral disorders	18.3% (15.4 to 21.7%)	19.6% (16.7 to 23.0%)	0.2% (-1.6 to 2.2%)
10 Oral disorders		10 Osteoarthritis	35.7% (31.0 to 40.5%)	37.2% (32.4 to 42.0%)	8.1% (4.4 to 11.8%)
11 Diabetes		11 Diabetes	26.4% (13.7 to 39.6%)	27.8% (15.0 to 41.1%)	2.1% (-8.0 to 12.6%)
12 Osteoarthritis	`	12 Drug use disorders	-6.3% (-14.9 to 2.6%)	-5.3% (-14.0 to 3.7%)	-8.2% (-17.0 to 0.8%)
13 Anxiety disorders	 	13 Anxiety disorders	1.6% (-4.7 to 8.3%)	2.7% (-3.7 to 9.5%)	-0.2% (-6.4 to 6.2%)
14 Road injuries]	14 Road injuries	12.1% (8.8 to 15.5%)	13.4% (9.9 to 16.7%)	-1.7% (-4.4 to 0.9%)
15 Asthma		15 Ischemic heart disease	29.7% (23.9 to 35.2%)	31.1% (25.2 to 36.6%)	-0.6% (-4.8 to 3.5%)
16 Gynecological diseases	}	16 Asthma	-9.7% (-14.6 to -4.9%)	-8.7% (-13.7 to -3.8%)	-9.4% (-14.4 to -4.8%)
17 Congenital defects	.	17 Gynecological diseases	0.2% (-3.7 to 4.0%)	1.3% (-2.6 to 5.1%)	-2.3% (-6.1 to 1.6%)
18 Mechanical forces	 - -	18 Other mental & substance	9.3% (4.2 to 14.2%)	10.5% (5.4 to 15.5%)	0.4% (-4.2 to 5.1%)
19 Upper respiratory infect		19 Upper respiratory infect	-6.6% (-10.9 to -2.4%)	-5.5% (-9.9 to -1.3%)	-0.1% (-3.9 to 3.9%)
20 Ischemic heart disease		20 Mechanical forces	-10.6% (-14.6 to -7.0%)	-9.6% (-13.7 to -6.0%)	-19.4% (-22.8 to -16.3%)
21 Other mental & substance		22 Congenital defects			

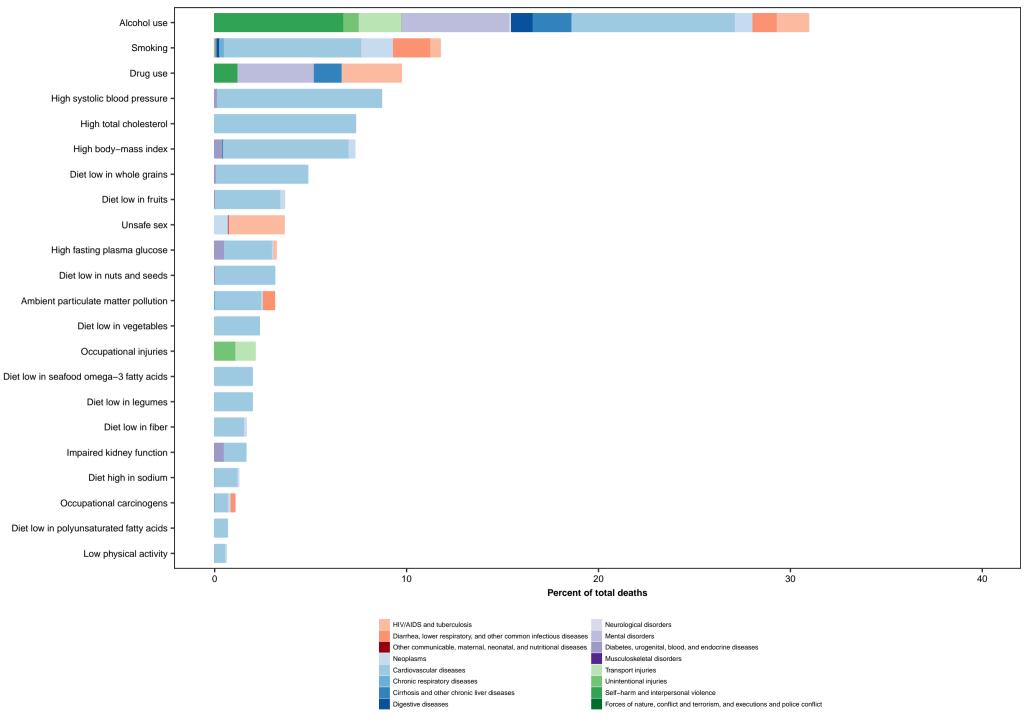
Legend:

Communicable, maternal, neonatal and nutritional Non-communicable Injuries

Percent of total deaths attributable to risks at level 3 of the GBD hiearchy Both All Ages, Russia 2016



Percent of total deaths attributable to risks at level 3 of the GBD hiearchy Both 15–49 years, Russia 2016



Appendix Table 1. Number and age-standardised rate of deaths and DALYs, and the percent change from 1980 to 2016

	Deaths per 100,000	Number of deaths	DALYS per 100,000	Number of DALYs	percent change
	1,009.4	1,997,038	34,980.8	62,885,482	-16.6
All causes	785.9 to 1,311.1	1,541,907 to 2,591,653	28,197.5 to 43,102.1	50,354,314 to 77,786,870	-33.8 to 9.4
	47.7	79,797	3,009.4	4,380,101	-25.5
Communicable, maternal, neonatal, and nutritional diseases	39.6 to 58.2	64,623 to 98,966	2,585.5 to 3,456.4	3,728,380 to 5,100,529	-37.9 to -8.8
	18.3	30,875	905.4	1,478,772	80.7
HIV/AIDS and tuberculosis	15.7 to 21.3	26,440 to 36,294	797.0 to 1,036.0	1,289,707 to 1,702,175	48.2 to 116.9
	7.2	13,123	300.4	518,909	-31.1
Tuberculosis	5.0 to 10.2	9,081 to 18,405	209.9 to 424.5	360,127 to 730,715	-51.5 to -5.7
	4.5	8,079	187.0	322,780	-57.4
Drug-susceptible tuberculosis	3.0 to 6.5	5,386 to 11,778	127.6 to 272.1	219,777 to 469,814	-70.2 to -38.3
	1.8	3,196	72.1	124,767	5,010.3
Multidrug-resistant tuberculosis without extensive drug resistance	1.1 to 2.6	1,950 to 4,759	44.1 to 108.0	75,528 to 186,505	2,103.4 to 9,933.1
	1.0	1,848	41.2	71,362	-
Extensively drug-resistant tuberculosis	0.6 to 1.5	1,131 to 2,743	25.0 to 62.2	43,033 to 106,795	
THE VALUE CO.	11.0	17,752	605.0	959,863	-
HIV/AIDS	10.1 to 12.1	16,233 to 19,578	548.3 to 672.5	869,606 to 1,072,136	
HIV-AIDS – Drug-susceptible Tuberculosis	0.4	653	21.4	33,994	-
HIV-AIDS at Diug-susceptible Tuberculosis	0.2 to 0.7	352 to 1,137	11.8 to 37.0	18,690 to 58,658	
HIV/AIDS - Multidrug-resistant Tuberculosis without extensive drug resistance	0.2 0.1 to 0.3	329 174 to 559	10.6 5.7 to 18.0	16,858	-
111 V/AID3 - Multidrug-resistant Tuberculosis without extensive drug resistance	0.1 to 0.3	174 to 339	6.1	8,961 to 28,507	
HIV/AIDS - Extensively drug-resistant Tuberculosis	0.1 to 0.2	99 to 324	3.2 to 10.4	9,692 5,070 to 16,478	-
111 V/AIDS - Extensively drug-resistant Tuberediosis	10.3	16,580	566.8	899,319	
HIV/AIDS resulting in other diseases	9.3 to 11.4	14,896 to 18,431	506.7 to 635.8	802,363 to 1,011,861	-
III III III III III III III III III II	22.6	41,162	1,163.9	1,800,962	-29.2
Diarrhea, lower respiratory, and other common infectious diseases	17.0 to 29.6	30,298 to 54,589	917.3 to 1,442.1	1,379,857 to 2,280,520	-45.8 to -6.6
,	0.3	439	91.2	111,524	-89.7
Diarrheal diseases	0.2 to 0.4	347 to 545	66.7 to 119.7	81,554 to 145,633	-92.0 to -86.4
	0.0	9	0.3	386	-67.8
Intestinal infectious diseases	0.0 to 0.0	3 to 21	0.1 to 0.6	136 to 887	-77.4 to -53.3
	0.0	5	0.2	221	-81.7
Typhoid fever	0.0 to 0.0	1 to 11	0.1 to 0.4	74 to 499	-86.3 to -76.0
	0.0	4	0.1	157	120.3
Paratyphoid fever	0.0 to 0.0	1 to 11	0.0 to 0.3	44 to 397	55.8 to 231.1
	0.0	0	0.0	8	-39.4
Other intestinal infectious diseases	0.0 to 0.0	0 to 1	0.0 to 0.0	3 to 16	-66.4 to -4.3
	20.4	37,613	742.5	1,238,472	-15.9
Lower respiratory infections	15.1 to 26.9	27,719 to 50,026	557.3 to 974.6	903,679 to 1,641,732	-37.5 to 12.4
	0.0	27	172.9	233,662	-20.9
Upper respiratory infections	0.0 to 0.0	13 to 47	104.9 to 268.8	141,869 to 359,796	-68.3 to 79.5
	0.0	3	32.6	39,707	-72.1
Otitis media	0.0 to 0.0	2 to 5	20.1 to 49.0	24,885 to 58,956	-84.2 to -53.6
	1.0	1,534	61.4	85,083	-73.7
Meningitis	0.7 to 1.2	1,160 to 2,019	49.5 to 74.2	67,234 to 104,629	-80.4 to -65.4
	0.1	117	7.5	11,194	-51.8
Pneumococcal meningitis	0.0 to 0.1	85 to 159	5.7 to 9.4	8,525 to 14,110	-63.3 to -37.4

	0.1	114	6.1	8,231	-67.8
H influenzae type B meningitis	0.1 to 0.1	87 to 147	5.0 to 7.4	6,637 to 9,958	-74.5 to -59.5
	0.5	731	30.5	39,195	-80.8
Meningococcal meningitis	0.4 to 0.6	564 to 939	24.8 to 36.9	31,564 to 48,020	-86.2 to -74.0
	0.3	572	17.2	26,464	-53.6
Other meningitis	0.2 to 0.4	407 to 770	13.2 to 21.6	19,923 to 34,008	-64.6 to -38.8
	0.9	1,485	56.5	83,072	-3.4
Encephalitis	0.7 to 1.4	1,052 to 2,248	44.1 to 79.3	64,375 to 116,079	-25.2 to 24.3
	0.0	5	0.2	230	-96.7
Diphtheria	0.0 to 0.0	3 to 8	0.1 to 0.3	144 to 360	-98.4 to -93.6
	0.0	9	1.9	1,938	-33.9
Whooping cough	0.0 to 0.0	4 to 30	1.1 to 3.5	1,133 to 3,625	-64.8 to 17.3
_	0.0	4	0.1	124	-95.8
Tetanus	0.0 to 0.0	3 to 7	0.1 to 0.1	85 to 190	-96.9 to -94.0
	0.0	3	0.3	268	-92.5
Measles	0.0 to 0.0	2 to 5	0.2 to 0.4	186 to 376	-95.6 to -88.7
77 1 H 11	0.0	29	4.3	6,494	-5.1
Varicella and herpes zoster	0.0 to 0.0	12 to 46	2.5 to 6.0	4,058 to 9,332	-32.2 to 23.2
	0.1	115	21.6	37,273	-4.7
Neglected tropical diseases and malaria	0.0 to 0.1	65 to 154	14.1 to 32.2	23,394 to 58,302	-26.0 to 29.6
W1:	0.0	0	0.0	0	-
Malaria	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
CI L	0.0	0	0.0	0	-
Chagas disease	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
	0.0	0	0.0	0	-
Leishmaniasis	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
X7. 11.11 · · ·	0.0	0	0.0	0	-
Visceral leishmaniasis	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
101	0.0	0	0.0	0	-
African trypanosomiasis	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
	0.0	0	0.0	0	-
Schistosomiasis	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
	0.0	4	0.9	1,685	-65.9
Cysticercosis	0.0 to 0.0	3 to 5	0.1 to 2.4	114 to 4,410	-74.8 to -53.1
	0.0	35	1.5	2,568	-65.0
Cystic echinococcosis	0.0 to 0.0	25 to 47	0.7 to 4.0	1,195 to 6,834	-73.4 to -52.6
D	0.0	0	0.0	0	-
Dengue	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
X/ 11	0.0	0	0.0	0	-
Yellow fever	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
D.1.	0.0	3	0.1	123	7.6
Rabies	0.0 to 0.0	2 to 4	0.1 to 0.1	86 to 173	-37.9 to 66.7
La d'alama a l'infradi a	0.0	0	0.0	0	-
Intestinal nematode infections	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
	0.0	0	0.0	0	-
Ascariasis	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	
771.4	0.0	0	0.0	0	-
Ebola	0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	

	0.0	0	0.0	0	
Zika virus	0.0 0.0 to 0.0	0 to 0	0.0 to 0.0	0 to 0	-
Ziiw i i w	0.0	74	2.7	3,556	163.4
Other neglected tropical diseases	0.0 to 0.1	26 to 103	1.0 to 3.7	1,206 to 4,962	88.9 to 256.3
o mer negrettet tropiett diseases	0.2	337	19.7	29,241	-80.7
Maternal disorders	0.2 0.1 to 0.4	178 to 588	13.2 to 29.6	19,601 to 44,381	-89.8 to -64.5
Material disorders	0.0	63	4.4	6,698	-77.0
Maternal hemorrhage	0.0 0.0 to 0.1	31 to 113	2.9 to 6.5	4,347 to 9,969	-87.8 to -53.3
Material nemornage	0.0	24	1.9	2,762	-70.2
Maternal sepsis and other maternal infections	0.0 to 0.0	12 to 43	1.2 to 3.0	1,687 to 4,332	-83.4 to -42.9
Martin sepole and outer martin micerian	0.0	40	3.3	4,860	-80.3
Maternal hypertensive disorders	0.0 0.0 to 0.0	20 to 71	2.2 to 5.1	3,127 to 7,339	-90.0 to -64.9
Material hypertensive disorders	0.0	5	0.5	804	8.9
Maternal obstructed labor and uterine rupture	0.0 to 0.0	2 to 10	0.3 to 0.9	420 to 1,352	-47.0 to 126.7
Material obstructed labor and aterine rapture	0.0	63	3.2	4,725	-89.6
Maternal abortion, miscarriage, and ectopic pregnancy	0.0 to 0.1	33 to 113	1.9 to 5.0	2,870 to 7,604	-94.5 to -80.5
Material abortion, iniscarriage, and cotopic pregnancy	0.0	70	2.7	3,965	-84.3
Indirect maternal deaths	0.0 to 0.1	36 to 127	1.4 to 4.8	2,061 to 7,221	-92.5 to -70.8
Manage Management	0.0	3	0.1	149	-88.6
Late maternal deaths	0.0 to 0.0	1 to 5	0.1 to 0.2	72 to 286	-94.2 to -78.7
Zute material devials	0.0	1	0.0	34	-54.2 to -76.7
Maternal deaths aggravated by HIV/AIDS	0.0 to 0.0	0 to 1	0.0 to 0.0	12 to 76	-
Maternal deaths aggravated by HIV/AIDS Other maternal disorders	0.0	68	3.5	5,243	-29.0
Other maternal disorders	0.0 to 0.1	35 to 121	2.2 to 5.4	3,290 to 8,133	-61.4 to 33.8
	5.5	5,599	681.9	750,777	-70.6
Neonatal disorders	4.7 to 6.2	4,792 to 6,318	582.2 to 790.3	636,852 to 884,474	-74.6 to -65.2
1 Constant disorders	2.0	2,060	238.9	260,574	-75.4
Neonatal preterm birth complications	1.6 to 2.4	1,654 to 2,461	197.6 to 281.1	215,017 to 308,983	-80.3 to -68.8
	1.4	1,452	203.8	231,521	-78.4
Neonatal encephalopathy due to birth asphyxia and trauma	1.1 to 1.7	1,137 to 1,765	155.8 to 260.7	172,861 to 305,751	-82.8 to -72.5
	0.9	890	120.9	135,380	-3.2
Neonatal sepsis and other neonatal infections	0.6 to 1.4	653 to 1,414	83.8 to 184.7	91,195 to 217,576	-34.0 to 30.7
	0.1	63	14.8	18,248	-84.8
Hemolytic disease and other neonatal jaundice	0.0 to 0.1	42 to 95	11.3 to 19.2	14,013 to 23,648	-91.8 to -74.4
	1.1	1,134	103.5	105,053	-55.3
Other neonatal disorders	0.9 to 1.4	886 to 1,408	81.6 to 126.8	82,779 to 128,522	-69.7 to -39.5
	0.4	751	130.3	166,755	-48.7
Nutritional deficiencies	0.3 to 0.5	564 to 991	84.4 to 193.2	111,166 to 248,655	-60.0 to -27.8
	0.1	213	19.4	22,612	-68.2
Protein-energy malnutrition	0.1 to 0.2	122 to 372	12.7 to 28.1	15,341 to 32,197	-75.9 to -53.5
	0.0	27	15.7	26,257	-54.3
Iodine deficiency	0.0 to 0.0	2 to 77	9.6 to 23.3	16,315 to 38,334	-97.1 to 44.8
•	0.0	32	88.1	105,926	-89.0
Iron-deficiency anemia	0.0 to 0.0	19 to 75	51.6 to 140.6	62,808 to 171,859	-92.0 to -83.9
•	0.2	479	7.0	11,960	9.6
Other nutritional deficiencies	0.2 to 0.3	314 to 652	4.7 to 9.5	7,811 to 16,187	-20.9 to 61.7
	0.7	959	85.9	115,275	-29.1
Other communicable, maternal, neonatal, and nutritional diseases	0.5 to 0.9	720 to 1,212	63.2 to 115.4	85,937 to 157,258	-45.1 to -9.1
, , ,	0.0 0.0	, _ , _ , _ ,		22,22 101,200	.5.1 .6 7.1

	0.1	210	40.9	61,939	-58.5
Sexually transmitted diseases excluding HIV	0.1 to 0.2	130 to 323	26.9 to 62.4	41,079 to 93,684	-77.4 to -33.7
	0.1	89	9.2	13,863	-71.7
Syphilis	0.0 to 0.1	52 to 145	5.8 to 13.9	9,701 to 19,124	-86.4 to -54.0
	0.0	23	6.4	9,891	-9.4
Chlamydial infection	0.0 to 0.0	12 to 38	3.8 to 10.6	6,010 to 16,250	-43.7 to 52.1
	0.0	66	8.8	12,040	-25.0
Gonococcal infection	0.0 to 0.1	36 to 109	5.2 to 14.3	7,320 to 19,306	-53.3 to 23.0
	0.0	32	11.5	17,413	-24.6
Other sexually transmitted diseases	0.0 to 0.0	17 to 53	7.4 to 17.9	11,336 to 26,647	-53.5 to 25.4
	0.1	246	7.5	10,852	-69.4
Acute hepatitis	0.1 to 0.2	182 to 329	5.8 to 9.5	8,280 to 14,198	-76.4 to -56.5
	0.0	20	1.7	1,830	-85.9
Acute hepatitis A	0.0 to 0.0	15 to 27	1.2 to 2.2	1,364 to 2,377	-90.7 to -79.2
	0.1	201	26.9 to 62.4 9.2 5.8 to 13.9 6.4 3.8 to 10.6 8.8 5.2 to 14.3 11.5 7.4 to 17.9 7.5 5.8 to 9.5 1.7 1.2 to 2.2 5.0 3.6 to 6.7 0.2 0.1 to 0.3 0.6 0.4 to 0.8 37.5 23.5 to 48.9 26,020.5	7,975	-60.8
Acute hepatitis B	0.1 to 0.2	142 to 274	3.6 to 6.7	5,712 to 10,836	-71.2 to -43.1
	0.0	8	0.2	316	-57.5
Acute hepatitis C	0.0 to 0.0	5 to 12	0.1 to 0.3	216 to 443	-68.7 to -38.5
	0.0	17	0.6	730	-78.9
Acute hepatitis E	0.0 to 0.0	12 to 24	0.4 to 0.8	531 to 987	-84.7 to -70.9
	0.4	502	37.5	41,079 to 93,684 13,863 9,701 to 19,124 9,891 6,010 to 16,250 12,040 7,320 to 19,306 17,413 11,336 to 26,647 10,852 8,280 to 14,198 1,830 1,364 to 2,377 7,975 5,712 to 10,836 316 216 to 443 730	115.9
Other unspecified infectious diseases	0.3 to 0.5	333 to 638	23.5 to 48.9	27,857 to 55,007	68.1 to 171.7
	858.7	1,742,519	26,020.5	41,079 to 93,684 13,863 9,701 to 19,124 9,891 6,010 to 16,250 12,040 7,320 to 19,306 17,413 11,336 to 26,647 10,852 8,280 to 14,198 1,830 1,364 to 2,377 7,975 5,712 to 10,836 316 216 to 443 730 531 to 987 42,484 27,857 to 55,007 48,938,521 39,218,978 to 60,458,684 7,151,792 5,383,879 to 9,555,005 155,928 109,164 to 209,940 18,501 13,086 to 24,956 101,830 69,675 to 139,804 185,337 129,088 to 249,422 770,711 575,054 to 1,030,220 833,634 617,041 to 1,101,547 236,911 175,402 to 315,908 90,554 62,380 to 125,732 25,625 18,837 to 34,586 79,858 57,708 to 108,556 40,874	-14.5
Non-communicable diseases	663.0 to 1,107.3	1,339,352 to 2,250,680	20,835.1 to 31,997.4	39,218,978 to 60,458,684	-32.5 to 13.2
	147.5	305,543	3,585.1	7,151,792	-16.8
Neoplasms	111.6 to 195.4	231,764 to 403,970	2,703.2 to 4,798.4	5,383,879 to 9,555,005	-35.1 to 11.0
	2.9	6,005	76.6	155,928	9.1
Lip and oral cavity cancer	2.1 to 3.9	4,270 to 8,046	53.8 to 104.0	109,164 to 209,940	-16.8 to 44.7
	0.3	643	9.7	18,501	28.8
Nasopharynx cancer	0.2 to 0.4	461 to 863	6.9 to 13.1	13,086 to 24,956	-6.2 to 70.5
	1.8	3,691	49.3	101,830	31.2
Other pharynx cancer	1.2 to 2.4	2,542 to 5,049	33.8 to 67.9	69,675 to 139,804	-6.0 to 77.1
	3.7	7,916	88.5	185,337	-32.1
Esophageal cancer	2.7 to 4.9	5,673 to 10,463	61.9 to 119.3	129,088 to 249,422	-50.0 to -9.2
	17.0	35,534	376.5	770,711	-60.4
Stomach cancer	12.8 to 22.3	26,847 to 46,381	278.8 to 505.6	575,054 to 1,030,220	-69.5 to -47.5
	19.6	41,391	402.7	833,634	17.5
Colon and rectum cancer	14.8 to 25.7	30,944 to 54,140	297.7 to 531.8	617,041 to 1,101,547	-7.8 to 63.6
	5.1	10,640	116.4	236,911	15.5
Liver cancer	3.8 to 6.7	7,995 to 13,985	85.2 to 155.5	175,402 to 315,908	-10.3 to 52.9
	1.8	3,836	45.0	90,554	5.4
Liver cancer due to hepatitis B	1.3 to 2.5	2,692 to 5,234	30.9 to 62.2	62,380 to 125,732	-18.7 to 39.6
	0.6	1,316	12.2	25,625	14.6
Liver cancer due to hepatitis C	0.5 to 0.8	995 to 1,767	9.0 to 16.3	18,837 to 34,586	-12.8 to 55.0
	1.8	3,695	38.7	79,858	45.3
Liver cancer due to alcohol use	1.3 to 2.4	2,705 to 4,972	28.0 to 52.9	57,708 to 108,556	10.5 to 99.0
	0.9	1,793	20.5	40,874	-4.5
Liver cancer due to other causes	0.6 to 1.1	1,307 to 2,362	14.8 to 27.3	29,275 to 54,909	-25.8 to 28.2

	1.7	3,546	33.3	69,222	-54.9
Gallbladder and biliary tract cancer	1.2 to 2.3	2,609 to 4,812	24.4 to 45.6	50,881 to 94,895	-66.1 to -35.2
•	8.4	17,645	187.8	385,950	30.2
Pancreatic cancer	6.3 to 11.3	13,259 to 23,575	139.4 to 253.5	287,502 to 520,887	-1.7 to 71.5
	2.4	4,959	61.1	127,361	-28.6
Larynx cancer	1.6 to 3.3	3,439 to 6,825	41.7 to 84.9	87,068 to 177,078	-50.8 to -0.8
·	24.7	52,152	581.2	1,216,078	-28.4
Tracheal, bronchus, and lung cancer	17.7 to 32.2	37,268 to 67,758	409.2 to 780.5	856,245 to 1,631,400	-47.2 to -4.9
•	2.2	4,390	61.0	116,733	30.4
Malignant skin melanoma	1.5 to 3.0	3,004 to 6,044	42.0 to 83.9	80,735 to 159,565	-1.8 to 90.9
•	1.1	2,225	20.1	40,737	20.8
Non-melanoma skin cancer	0.8 to 1.4	1,717 to 2,868	15.1 to 26.9	30,526 to 54,297	-3.8 to 54.5
	1.1	2,225	20.1	40,709	20.8
Non-melanoma skin cancer (squamous-cell carcinoma)	0.8 to 1.4	1,717 to 2,868	15.0 to 26.9	30,518 to 54,262	-3.8 to 54.5
	11.6	23,791	297.8	595,322	18.3
Breast cancer	7.3 to 17.8	15,140 to 36,677	190.5 to 465.4	381,822 to 926,220	-24.2 to 89.1
	3.5	6,916	111.7	207,109	-46.9
Cervical cancer	2.1 to 5.6	4,210 to 10,891	66.4 to 182.2	123,606 to 333,103	-66.7 to -14.9
	3.2	6,658	77.5	159,062	68.4
Uterine cancer	2.0 to 4.9	4,197 to 10,170	49.3 to 115.4	102,073 to 238,066	0.7 to 171.5
	4.3	8,822	112.6	223,712	-16.4
Ovarian cancer	2.6 to 6.6	5,319 to 13,615	68.0 to 175.0	135,432 to 345,816	-50.6 to 34.8
	5.6	11,836	104.1	220,902	157.7
Prostate cancer	3.8 to 7.5	8,062 to 16,085	71.5 to 140.8	151,847 to 298,986	89.1 to 246.9
	0.2	340	8.9	14,530	-35.9
Testicular cancer	0.1 to 0.3	217 to 480	5.6 to 12.9	9,088 to 20,985	-58.2 to -2.7
	4.6	9,617	112.8	228,686	75.4
Kidney cancer	3.4 to 6.0	7,125 to 12,565	83.3 to 148.5	168,656 to 301,242	38.3 to 134.6
	3.6	7,563	69.3	145,353	-7.1
Bladder cancer	2.7 to 4.6	5,714 to 9,829	51.8 to 91.6	108,729 to 192,113	-28.8 to 19.2
	4.0	7,469	144.3	243,185	-7.8
Brain and nervous system cancer	2.9 to 5.4	5,421 to 10,134	108.2 to 192.0	179,921 to 325,252	-31.5 to 27.0
	0.6	1,263	14.5	29,243	-11.6
Thyroid cancer	0.4 to 0.8	900 to 1,733	10.8 to 19.4	21,677 to 39,338	-34.2 to 26.7
	0.3	691	8.6	16,950	-9.7
Mesothelioma	0.2 to 0.4	507 to 922	6.1 to 11.6	12,191 to 22,916	-32.1 to 28.6
	0.6	1,066	24.5	40,357	-52.2
Hodgkin lymphoma	0.4 to 0.8	767 to 1,466	17.8 to 33.6	29,094 to 55,308	-64.4 to -32.7
	2.4	4,752	71.9	129,565	1.2
Non-Hodgkin lymphoma	1.8 to 3.3	3,480 to 6,410	52.5 to 95.5	94,728 to 172,747	-22.8 to 33.3
	1.3	2,662	31.0	63,391	17.6
Multiple myeloma	0.9 to 1.8	1,916 to 3,652	22.1 to 42.7	45,414 to 86,642	-16.0 to 70.1
	4.4	8,324	139.9	233,844	-19.9
Leukemia	3.3 to 5.7	6,250 to 10,936	108.6 to 182.5	178,222 to 305,292	-38.1 to 4.7
	0.8	1,350	38.9	52,487	-36.5
Acute lymphoid leukemia	0.6 to 1.1	1,009 to 1,770	30.9 to 48.8	40,655 to 67,725	-49.8 to -15.1
	0.9	1,959	19.9	41,555	24.6
Chronic lymphoid leukemia	0.7 to 1.2	1,446 to 2,619	14.7 to 26.7	30,610 to 55,777	-6.3 to 62.1

	1.3	2,480	45.3	75 620	5.8
Acute myeloid leukemia	1.3 1.0 to 1.8	2,480 1,820 to 3,350	45.3 33.1 to 60.5	75,630 55,067 to 101,405	-20.3 to 40.4
Acute mycloid ledkelina	0.3	691	9.1	17,331	-20.3 to 40.4 -41.9
Chronic myeloid leukemia	0.5 0.2 to 0.5	501 to 937	6.5 to 12.5	17,331 12,412 to 23,869	-41.9 -59.5 to -21.2
Chrome myeloid leukenna					
Other leukemia	0.9	1,843	26.7	46,841	-38.8
Other leukenna	0.7 to 1.2	1,359 to 2,429	20.2 to 34.9	34,797 to 61,845	-53.4 to -15.4
41	6.6	13,036	191.5	341,646	7.4
ther neoplasms	4.9 to 8.9	9,758 to 17,584	142.8 to 254.6	252,011 to 459,118	-16.6 to 46.9
F I F	562.8	1,150,431	9,998.2	20,348,866	-13.6
rdiovascular diseases	438.3 to 721.3	892,130 to 1,479,670	7,675.5 to 12,985.0	15,677,148 to 26,401,671	-31.4 to 14.8
	2.1	4,301	55.7	109,043	-72.8
heumatic heart disease	1.5 to 2.9	3,076 to 5,889	39.8 to 76.1	77,819 to 149,391	-80.0 to -62.4
	327.1	670,801	5,240.0	10,823,042	-13.7
chemic heart disease	255.1 to 416.6	521,602 to 857,942	3,985.9 to 6,825.7	8,238,153 to 14,113,901	-30.7 to 13.2
	168.0	345,861	2,939.5	6,082,727	-25.1
roke	131.5 to 215.3	267,315 to 444,861	2,300.8 to 3,732.5	4,773,920 to 7,736,480	-41.5 to 0.7
	124.9	258,005	2,009.7	4,228,949	-26.8
chemic stroke	97.0 to 159.3	199,821 to 330,603	1,588.8 to 2,514.7	3,338,120 to 5,297,810	-42.5 to -1.5
	43.1	87,856	929.8	1,853,779	-19.7
Intracerebral hemorrhage	32.4 to 56.5	66,274 to 115,435	695.8 to 1,233.7	1,393,393 to 2,447,712	-39.8 to 10.0
	11.1	22,894	197.5	408,998	100.9
Hypertensive heart disease	7.5 to 18.6	15,465 to 38,505	137.7 to 317.0	284,009 to 656,535	51.7 to 181.6
	34.0	64,720	1,100.3	1,998,050	46.1
rdiomyopathy and myocarditis	23.0 to 46.1	44,327 to 88,101	762.2 to 1,520.1	1,397,323 to 2,743,864	9.9 to 99.1
	0.6	1,138	16.7	26,848	7.8
Iyocarditis	0.3 to 0.9	514 to 1,700	11.7 to 24.5	18,080 to 38,354	-23.4 to 53.8
	24.9	47,550	855.8	1,567,584	21.8
lcoholic cardiomyopathy	17.3 to 34.4	33,110 to 65,686	581.3 to 1,199.2	1,071,435 to 2,200,284	-9.4 to 66.7
	8.4	16,032	227.8	403,618	231.1
ther cardiomyopathy	3.8 to 12.1	7,358 to 23,173	122.9 to 331.5	218,225 to 585,699	146.1 to 348.5
• • •	4.0	8,153	92.1	193,043	11.9
ial fibrillation and flutter	2.8 to 5.6	5,608 to 11,461	69.5 to 119.3	145,142 to 249,660	-16.3 to 51.0
	3.7	7.684	78.1	158,078	285.9
rtic aneurysm	2.8 to 4.8	5,793 to 9,970	57.6 to 104.1	116,488 to 209,248	203.1 to 404.1
•	4.6	9,499	70.7	149,180	36.3
ripheral artery disease	3.1 to 7.8	6,388 to 15,825	49.6 to 104.8	105,118 to 220,905	6.9 to 80.5
	1.2	2,211	39.0	69,111	-37.7
docarditis	0.8 to 1.9	1,479 to 3,622	26.4 to 60.2	46,406 to 108,352	-53.6 to -10.1
	7.1	14,307	185.3	357,593	285.3
ther cardiovascular and circulatory diseases	5.4 to 9.2	14,307 10,800 to 18,825	185.3 139.8 to 243.5	357,393 269,950 to 470,970	285.3 188.0 to 435.8
ner cardio rascular and encuratory diseases	18.0	37.624	139.8 to 243.3	1,091,075	-69.6
onic respiratory diseases	18.0 13.7 to 22.8				-69.6 -76.3 to -59.5
ome respiratory diseases		28,675 to 47,654	467.9 to 725.4	873,206 to 1,349,157	
mania abatmatiya mulmanamı disasası	16.0	33,573	341.4	703,194	-66.3
ronic obstructive pulmonary disease	12.3 to 20.2	25,645 to 42,469	265.5 to 428.5	545,570 to 883,291	-74.1 to -54.5
	0.1	221	3.1	6,445	-59.1
eumoconiosis	0.1 to 0.1	164 to 288	2.4 to 3.9	4,959 to 8,088	-70.3 to -45.4
	0.0	28	0.4	840	-71.6
Silicosis	0.0 to 0.0	17 to 44	0.3 to 0.6	606 to 1,174	-80.8 to -61.2

	0.0	29	0.7	1,332	-68.7
Asbestosis	0.0 to 0.0	15 to 43	0.5 to 0.9	962 to 1,764	-77.7 to -57.9
	0.0	28	0.4	755	148.5
Coal workers pneumoconiosis	0.0 to 0.0	6 to 44	0.2 to 0.5	346 to 1,083	55.9 to 254.0
	0.1	136	1.7	3,518	-60.0
Other pneumoconiosis	0.0 to 0.1	97 to 188	1.3 to 2.1	2,637 to 4,456	-72.7 to -45.3
	1.2	2,377	209.8	324,927	-87.8
Asthma	0.8 to 1.9	1,685 to 3,817	144.9 to 291.1	228,163 to 447,734	-91.2 to -82.3
	0.4	773	18.2	33,215	9.2
Interstitial lung disease and pulmonary sarcoidosis	0.2 to 0.5	475 to 1,079	12.8 to 24.0	23,100 to 43,613	-17.0 to 57.8
	0.3	680	14.2	23,294	-77.9
Other chronic respiratory diseases	0.2 to 0.6	441 to 1,194	10.3 to 22.2	16,521 to 37,157	-83.7 to -70.5
	25.9	49,991	916.4	1,682,255	126.9
Cirrhosis and other chronic liver diseases	18.7 to 35.1	36,353 to 67,356	661.1 to 1,250.7	1,217,503 to 2,285,151	67.4 to 196.6
	5.1	9,706	180.7	331,010	119.8
Cirrhosis and other chronic liver diseases due to hepatitis B	3.5 to 7.0	6,826 to 13,330	123.6 to 253.8	228,902 to 460,502	61.5 to 189.8
	6.3	12,185	225.1	415,086	131.9
Cirrhosis and other chronic liver diseases due to hepatitis C	4.5 to 8.7	8,666 to 16,668	156.1 to 311.8	289,618 to 570,824	71.2 to 206.2
	9.2	17,852	310.4	579,685	133.3
Cirrhosis and other chronic liver diseases due to alcohol use	6.6 to 12.6	12,805 to 24,322	221.4 to 427.6	415,125 to 795,671	73.4 to 202.3
	5.4	10,247	200.2	356,474	118.1
Cirrhosis and other chronic liver diseases due to other causes	3.8 to 7.5	7,166 to 14,430	142.2 to 279.5	252,391 to 498,760	59.5 to 211.5
	20.2	40,466	663.8	1,228,472	22.3
Digestive diseases	14.5 to 26.9	29,239 to 53,721	494.6 to 866.3	920,190 to 1,606,379	-6.1 to 62.2
	4.0	8,130	127.8	245,450	5.1
Peptic ulcer disease	2.8 to 5.3	5,612 to 10,856	92.6 to 166.8	177,480 to 320,483	-19.6 to 37.7
	0.2	439	36.4	59,655	26.6
Gastritis and duodenitis	0.1 to 0.3	294 to 669	25.0 to 51.8	41,689 to 84,667	-7.9 to 73.1
	0.3	514	11.3	17,852	-75.2
Appendicitis	0.2 to 0.4	358 to 852	8.3 to 17.1	13,104 to 27,752	-81.1 to -67.4
	1.6	3,060	39.5	70,665	-9.7
Paralytic ileus and intestinal obstruction	1.1 to 2.1	2,154 to 4,203	28.1 to 54.9	49,514 to 98,221	-29.1 to 18.7
•	0.6	1,221	57.0	101,883	-56.6
Inguinal, femoral, and abdominal hernia	0.4 to 1.0	802 to 2,162	40.7 to 75.0	74,059 to 133,071	-66.2 to -39.6
	0.6	1,121	29.9	55,679	9.6
Inflammatory bowel disease	0.3 to 0.8	650 to 1,562	22.5 to 38.2	41,925 to 71,195	-17.1 to 52.0
•	4.5	9,422	76.4	158,680	70.7
Vascular intestinal disorders	3.3 to 5.9	6,928 to 12,464	55.6 to 104.7	115,682 to 215,803	30.2 to 126.0
	1.5	3,201	32.8	66,544	-32.0
Gallbladder and biliary diseases	1.1 to 2.1	2,274 to 4,363	24.9 to 43.1	50,425 to 87,453	-47.1 to -9.1
•	5.9	11,129	209.7	374,528	105.2
Pancreatitis	3.9 to 8.3	7,330 to 15,646	135.8 to 298.3	243,034 to 532,074	51.2 to 174.1
	1.1	2,228	42.9	77,538	110.8
Other digestive diseases	0.7 to 1.6	1,311 to 3,172	28.7 to 59.1	51,524 to 106,446	57.6 to 191.3
Č	34.0	67,556	1,380.5	2,393,339	-0.8
Neurological disorders	25.1 to 44.9	49,355 to 90,385	1,028.0 to 1,757.3	1,791,253 to 3,024,991	-22.0 to 28.8
	28.0	55,562	325.1	685,106	1.9
Alzheimer disease and other dementias	20.5 to 37.4	39,767 to 75,905	243.2 to 429.3	508,315 to 920,093	-19.9 to 31.2
	20.5 to 57.1	55,101 10 15,505	2.0.2 10 127.0	200,212 13 720,073	17.7 60 51.2

	4.0	8,516	61.8	131,691	9.5
Parkinson disease	2.8 to 5.6	5,836 to 12,064	43.1 to 85.4	91,670 to 180,532	-14.0 to 44.3
	0.6	882	83.2	120,960	-69.3
Epilepsy	0.4 to 0.7	636 to 1,209	35.3 to 162.5	51,274 to 236,133	-76.7 to -59.5
	0.4	754	29.2	51,657	-10.3
Multiple sclerosis	0.3 to 0.7	480 to 1,259	21.6 to 40.6	38,194 to 71,187	-37.1 to 32.8
	0.2	486	8.3	15,218	20.0
Motor neuron disease	0.2 to 0.3	357 to 655	6.3 to 11.0	11,485 to 20,363	-10.4 to 63.8
	0.8	1,356	51.4	72,296	18.5
Other neurological disorders	0.6 to 1.1	1,011 to 1,790	38.1 to 69.8	53,819 to 96,703	-4.6 to 59.3
	27.6	49,717	3,429.5	5,609,614	-8.5
Mental and substance use disorders	19.2 to 38.4	34,643 to 69,025	2,658.3 to 4,264.2	4,372,293 to 6,939,344	-34.6 to 26.9
rug use disorders Dpioid use disorders Cocaine use disorders Amphetamine use disorders Other drug use disorders	17.3	31,849	1,119.2	1,930,474	8.2
Alcohol use disorders	11.8 to 24.2	21,704 to 44,511	831.6 to 1,444.9	1,439,473 to 2,497,401	-23.1 to 54.8
	10.3	17,860	750.8	1,213,222	-28.3
Drug use disorders	7.0 to 14.1	12,338 to 24,473	562.1 to 957.7	910,380 to 1,543,198	-48.1 to -1.9
	7.0	12,014	541.9	883,082	-41.4
Opioid use disorders	4.7 to 10.1	8,171 to 17,340	406.6 to 700.8	662,505 to 1,138,336	-57.3 to -19.1
	0.6	1,092	42.8	91,670 to 180,532 120,960 51,274 to 236,133 51,657 38,194 to 71,187 15,218 11,485 to 20,363 72,296 53,819 to 96,703 5,609,614 4,372,293 to 6,939,344 1,930,474 1,439,473 to 2,497,401 1,213,222 910,380 to 1,543,198 883,082	112.7
Cocaine use disorders	0.2 to 0.9	375 to 1,626	23.8 to 60.0	37,287 to 96,464	24.5 to 224.5
	0.3	586	32.4		397.3
Amphetamine use disorders	0.1 to 0.5	191 to 942	20.4 to 46.2		216.5 to 687.9
•	2.3	4,168	125.2		11.9
Other drug use disorders	1.1 to 3.4	1,920 to 6,063	71.0 to 172.6		-21.9 to 59.8
Ç	0.0	7	27.4		136.8
Eating disorders	0.0 to 0.0	4 to 12	17.3 to 39.4		31.4 to 322.2
Ç	0.0	6	6.6		191.0
Anorexia nervosa	0.0 to 0.0	3 to 10	3.9 to 10.1		49.3 to 413.1
	0.0	1	20.8		3.4
Bulimia nervosa	0.0 to 0.0	1 to 1	12.3 to 31.5		-43.4 to 65.6
	16.0	32,307	1,102.9		21.5
Diabetes, urogenital, blood, and endocrine diseases	12.2 to 21.2	24,364 to 43,003	862.7 to 1,391.6		-6.2 to 68.8
, <u>, , , , , , , , , , , , , , , , , , </u>	5.6	11,608	390.3		42.9
Diabetes mellitus	4.1 to 7.7	8,457 to 15,916	299.2 to 506.7		5.1 to 106.6
	0.1	154	3.2		-84.3
Acute glomerulonephritis	0.1 to 0.1	113 to 212	2.4 to 4.4		-89.5 to -77.8
	5.2	10,369	228.3	91,670 to 180,532 120,960 51,274 to 236,133 51,657 38,194 to 71,187 15,218 11,485 to 20,363 72,296 53,819 to 96,703 5,609,614 4,372,293 to 6,939,344 1,930,474 1,439,473 to 2,497,401 1,213,222 910,380 to 1,543,198 883,082 662,505 to 1,138,336 68,965 37,287 to 96,464 48,266 29,701 to 68,696 202,063 113,597 to 278,086 36,401 22,172 to 52,923 7,759 4,679 to 11,941 28,642 16,735 to 43,874 2,043,512 1,597,143 to 2,552,904 778,090 594,419 to 1,007,933 5,438 3,946 to 7,456 437,645 353,049 to 536,102 104,046 82,728 to 128,062 23,120 18,047 to 29,108 177,759 143,158 to 218,513 132,721 107,550 to 162,810 317,433	17.9
Chronic kidney disease	4.0 to 6.8	7,834 to 13,595	184.3 to 279.7		-7.4 to 58.7
•	1.3	2,557	52.2		44.1
Chronic kidney disease due to diabetes mellitus	0.9 to 1.7	1,918 to 3,381	41.3 to 64.3		10.6 to 101.8
	0.4	699	11.4		45.0
Chronic kidney disease due to hypertension	0.3 to 0.5	528 to 933	8.9 to 14.3		13.0 to 93.9
,	2.0	3,920	95.8		-7.1
Chronic kidney disease due to glomerulonephritis	1.5 to 2.7	2,898 to 5,238	77.0 to 117.7		-28.4 to 27.4
, -	1.6	3,193	69.0		39.7
Chronic kidney disease due to other causes	1.2 to 2.1	2,412 to 4,184	56.0 to 84.2		7.7 to 88.2
,	4.0	8,230	161.2		10.4
Urinary diseases and male infertility	3.0 to 5.2	6,145 to 10,699	124.1 to 204.1		-15.8 to 50.0
,	5.0 to 5.2	0,110 10 10,077	12 1.1 10 207.1	213,130 10 402,403	13.0 to 30.0

	3.2	6,487	75.4	143,900	10.4
Urinary tract infections	2.3 to 4.2	4,826 to 8,610	56.2 to 100.1	106,436 to 190,628	-15.8 to 51.9
	0.7	1,376	18.4	36,633	-4.7
Urolithiasis	0.4 to 0.9	879 to 1,961	13.2 to 24.3	26,024 to 48,669	-28.8 to 36.5
	0.2	367	8.1	14,336	134.5
Other urinary diseases	0.1 to 0.3	153 to 557	5.2 to 11.0	8,949 to 19,581	57.7 to 241.6
	0.1	96	170.8	269,082	431.2
Gynecological diseases	0.0 to 0.1	28 to 167	117.6 to 242.3	184,721 to 383,211	212.4 to 776.6
	0.0	55	12.3	21,651	611.1
Uterine fibroids	0.0 to 0.1	15 to 98	7.0 to 21.3	12,141 to 37,651	290.7 to 1,318.8
	0.0	1	0.9	100.1 106,436 to 190,628 36,633 4.3 26,024 to 48,669 14,336 .0 8,949 to 19,581 269,082 42.3 184,721 to 383,211 21,651 .3 12,141 to 37,651 1,392 .7 627 to 2,612 10,945 .2 6,990 to 16,294 20,286 .4 9,997 to 36,997 136,643 .5.3 89,920 to 196,333 67,534 4.3 46,956 to 94,758 1,680 .0 1,384 to 1,955 3,255 .5 2,007 to 4,656 3,235 .8 1,990 to 4,413 15,051 .4 10,719 to 20,202 168,291 .3.6 125,059 to 220,072 3,436,410 2,505,473 to 4,448,011 149,755 101.1 107,111 to 195,311 166,406 .9 1 116,464 to 238,168 3,953,186 .376.9 2,874,026 to 5,391,549 597,951 31.9 512,868 to 718,121 32,167 0.5 24,453 to 41,397 195,637 195,637 159,996 to 278,112 1,044 4 728 to 1,570 25,488	242.5
Polycystic ovarian syndrome	0.0 to 0.0	0 to 2	0.4 to 1.7	627 to 2,612	11.8 to 750.1
	0.0	4	7.6	10,945	776.8
Endometriosis	0.0 to 0.0	1 to 9	4.9 to 11.2		113.4 to 2,069.6
Endometriosis Genital prolapse Other gynecological diseases Iemoglobinopathies and hemolytic anemias Thalassemias	0.0	7	10.1	20.286	23.7
Genital prolapse	0.0 to 0.0	2 to 12	5.0 to 18.4		-33.4 to 116.2
• •	0.0	29	86.6		639.8
Other gynecological diseases	0.0 to 0.0	9 to 51	57.2 to 125.3		308.4 to 1,134.6
	0.3	568	45.6		65.1
Hemoglobinopathies and hemolytic anemias	0.2 to 0.4	371 to 784	31.4 to 64.3		30.6 to 127.2
	0.0	20	1.7	106,436 to 190,628 36,633 26,024 to 48,669 14,336 8,949 to 19,581 269,082 184,721 to 383,211 21,651 12,141 to 37,651 1,392 627 to 2,612 10,945 6,990 to 16,294 20,286 9,997 to 36,997 136,643 89,920 to 196,333 67,534 46,956 to 94,758 1,680 1,384 to 1,955 3,255 2,007 to 4,656 3,235 1,990 to 4,413 15,051 10,719 to 20,202 168,291 125,059 to 220,072 3,436,410 2,505,473 to 4,448,011 149,755 107,111 to 195,311 166,406 116,464 to 238,168 3,953,186 2,874,026 to 5,391,549 597,951 512,868 to 718,121 32,167 24,453 to 41,397 195,637 159,996 to 278,112 1,044 728 to 1,570 25,488	173.3
Thalassemias	0.0 to 0.0	17 to 24	1.4 to 2.0		118.1 to 257.2
	0.0	59	2.5	106,436 to 190,628 36,633 26,024 to 48,669 14,336 8,949 to 19,581 269,082 184,721 to 383,211 21,651 12,141 to 37,651 1,392 627 to 2,612 10,945 6,990 to 16,294 20,286 9,997 to 36,997 136,643 89,920 to 196,333 67,534 46,956 to 94,758 1,680 1,384 to 1,955 3,255 2,007 to 4,656 3,235 1,990 to 4,413 15,051 10,719 to 20,202 168,291 125,059 to 220,072 3,436,410 2,505,473 to 4,448,011 149,755 107,111 to 195,311 166,406 116,464 to 238,168 3,953,186 2,874,026 to 5,391,549 597,951 512,868 to 718,121 32,167 24,453 to 41,397 195,637 159,996 to 278,112 1,044 728 to 1,570 25,488	380.0
Sickle cell disorders	0.0 to 0.1	35 to 86	1.6 to 3.5		256.6 to 586.9
	0.0	74	2.1		372.3
G6PD deficiency	0.0 to 0.1	42 to 105	1.3 to 2.8		253.5 to 536.4
	0.2	414	9.1		25.6
Other hemoglobinopathies and hemolytic anemias	0.1 to 0.3	271 to 583	6.4 to 12.4		-4.3 to 78.1
Z 1	0.8	1,282	103.4		51.8
Endocrine, metabolic, blood, and immune disorders	0.6 to 1.0	930 to 1,781	77.6 to 133.6		18.1 to 109.9
, , ,	0.9	1,712	1,841.5		-12.5
Musculoskeletal disorders	0.6 to 1.3	1,154 to 2,473	1,340.1 to 2,387.9		-40.0 to 34.8
	0.3	704	77.6		-4.7
Rheumatoid arthritis	0.2 to 0.6	439 to 1,179	55.4 to 101.1	, , , , , , , , , , , , , , , , , , ,	-39.2 to 51.6
	0.5	1,007	96.1		-16.3
Other musculoskeletal disorders	0.3 to 0.8	592 to 1,493	66.6 to 139.1		-40.5 to 26.6
	5.9	7,172	2,515.9	106,436 to 190,628 36,633 26,024 to 48,669 14,336 8,949 to 19,581 269,082 184,721 to 383,211 21,651 12,141 to 37,651 1,392 627 to 2,612 10,945 6,990 to 16,294 20,286 9,997 to 36,997 136,643 89,920 to 196,333 67,534 46,956 to 94,758 1,680 1,384 to 1,955 3,255 2,007 to 4,656 3,235 1,990 to 4,413 15,051 10,719 to 20,202 168,291 125,059 to 220,072 3,436,410 2,505,473 to 4,448,011 149,755 107,111 to 195,311 166,406 116,464 to 238,168 3,953,186 2,874,026 to 5,391,549 597,951 512,868 to 718,121 32,167 24,453 to 41,397 195,637 159,996 to 278,112 1,044 728 to 1,570 25,488	-44.7
Other non-communicable diseases	4.7 to 7.0	5,370 to 8,885	1,869.6 to 3,376.9		-53.0 to -34.5
	4.5	4,930	521.3		-56.5
Congenital birth defects	3.8 to 5.8	4,174 to 6,440	447.5 to 631.9		-62.6 to -49.5
8	0.1	80	24.0		-92.3
Neural tube defects	0.1 to 0.1	62 to 107	18.5 to 30.5		-94.3 to -89.4
	2.2	2,462	181.9		-67.9
Congenital heart anomalies	1.8 to 3.2	1,989 to 3,581	147.8 to 259.5	· · · · · · · · · · · · · · · · · · ·	-73.3 to -61.0
0	0.0	6	0.9		-82.0
Orofacial clefts	0.0 to 0.0	4 to 13	0.6 to 1.4		-92.9 to -56.4
	0.2	191	20.6		118.1
Down syndrome	0.2 0.1 to 0.2	135 to 248	15.3 to 25.9		70.0 to 166.3
Down Syndrome	0.1 to 0.2	133 to 240	13.3 to 23.9	17,323 10 32,037	70.0 to 100.3

	0.2	218	34.5	34,466	398.0
Other chromosomal abnormalities	0.1 to 0.3	124 to 293	26.3 to 43.6	25,673 to 43,444	216.0 to 584.3
	0.1	80	57.8	82,961	-51.9
Congenital musculoskeletal and limb anomalies	0.1 to 0.2	54 to 201	40.7 to 78.1	58,426 to 112,211	-63.8 to -38.0
	0.1	81	10.4	11,184	-23.8
Urogenital congenital anomalies	0.0 to 0.1	54 to 142	7.4 to 15.2	8,009 to 16,322	-43.3 to -1.3
	0.4	442	42.8	47,047	-50.0
Digestive congenital anomalies	0.3 to 0.7	310 to 705	31.8 to 64.0	35,263 to 68,921	-65.1 to -34.2
	1.3	1,369	146.4	165,533	-10.7
Other congenital birth defects	0.9 to 1.6	989 to 1,648	114.8 to 175.8	129,935 to 201,382	-22.3 to 7.5
	0.9	1,828	737.5	1,000,465	2,977.4
Skin and subcutaneous diseases	0.2 to 1.6	361 to 3,164	505.4 to 1,059.6	683,909 to 1,435,187	2,237.6 to 4,171.5
	0.7	1,286	23.4	42,265	2,683.3
Cellulitis	0.1 to 1.1	270 to 2,161	7.2 to 37.7	12,297 to 68,371	2,026.6 to 3,768.5
	0.2	437	8.5	15,340	5,780.7
Pyoderma	0.0 to 0.4	63 to 839	2.5 to 14.7	4,304 to 26,728	4,276.5 to 8,683.5
	0.0	67	5.9	25,673 to 43,444 82,961 58,426 to 112,211 11,184 8,009 to 16,322 47,047 35,263 to 68,921 165,533 129,935 to 201,382 1,000,465 683,909 to 1,435,187 42,265 12,297 to 68,371 15,340	1,581.2
Decubitus ulcer	0.0 to 0.1	14 to 115	4.1 to 8.0	7,530 to 14,837	1,109.2 to 2,248.2
	0.0	38	41.9	72,438	1,634.2
Other skin and subcutaneous diseases	0.0 to 0.0	8 to 69	20.4 to 76.1	35,403 to 131,068	1,193.4 to 2,355.2
	0.4	414	34.7	35,646	-33.8
Sudden infant death syndrome	0.3 to 0.5	297 to 565	24.9 to 47.4	25,612 to 48,712	-58.3 to 4.2
	103.0	174,721	5,950.9	9,566,861	-27.5
Injuries	72.6 to 139.7	123,196 to 237,982	4,494.5 to 7,748.4	7,199,469 to 12,563,169	-44.9 to -4.9
	19.8	31,576	1,187.9	1,810,217	-25.1
Transport injuries	14.1 to 27.0	22,355 to 43,035	879.1 to 1,544.9	1,339,060 to 2,345,458	-44.3 to -0.5
	17.8	28,198	1,078.5	1,644,223	-25.2
Road injuries	12.7 to 24.2	19,946 to 38,155	804.5 to 1,397.8	1,225,271 to 2,120,945	-44.6 to -1.6
	5.7	9,632	297.1	464,853	-49.2
Pedestrian road injuries	4.0 to 7.9	6,837 to 13,296	219.2 to 402.3	341,588 to 627,684	-66.2 to -25.1
	0.4	730	53.7	89,329	-26.5
Cyclist road injuries	0.3 to 0.6	500 to 1,034	39.9 to 69.5	65,752 to 116,834	-47.7 to -0.7
	1.2	1,787	86.4	125,785	-16.0
Motorcyclist road injuries	0.8 to 1.7	1,180 to 2,523	62.5 to 115.9	91,604 to 167,470	-44.8 to 29.8
	10.3	15,906	628.6	942,893	-0.6
Motor vehicle road injuries	7.2 to 14.2	10,882 to 22,036	461.1 to 837.3	689,477 to 1,252,947	-28.0 to 39.7
	0.1	144	12.6	21,361	-43.4
Other road injuries	0.1 to 0.1	96 to 220	9.1 to 17.0	15,372 to 29,077	-60.3 to -17.2
	2.1	3,378	109.5	165,995	-24.2
Other transport injuries	1.4 to 2.9	2,343 to 4,767	77.7 to 150.2	117,799 to 227,566	-44.7 to 6.4
	37.8	66,483	2,642.9	4,394,584	-46.6
Unintentional injuries	27.4 to 52.5	47,724 to 93,400	2,062.3 to 3,384.9	3,409,972 to 5,670,803	-59.1 to -31.1
	7.4	13,622	903.7	1,591,635	-18.3
Falls	5.3 to 10.0	9,803 to 18,232	677.9 to 1,173.5		-38.8 to 5.7
	6.4	10,083	319.0		-65.9
Drowning	4.5 to 8.5	7,063 to 13,606	233.3 to 421.5		-75.2 to -55.3
	4.7	8,429	251.8	415,319	-32.9
Fire, heat, and hot substances	3.3 to 6.3	5,972 to 11,391	194.0 to 322.6		-50.1 to -8.4
		• • • • • • • • • • • • • • • • • • • •		*	

	1.5	2,351	84.0	118,267	-47.1
Poisonings	1.1 to 2.2	1,639 to 3,593	62.8 to 112.0	86,918 to 166,260	-61.5 to -29.4
	3.0	4,875	273.4	440,327	-47.7
Exposure to mechanical forces	2.1 to 4.2	3,375 to 6,905	208.3 to 359.8	334,627 to 577,452	-63.4 to -24.7
	0.5	785	23.5	37,080	-46.1
Unintentional firearm injuries	0.3 to 0.7	542 to 1,107	16.7 to 33.0	26,374 to 51,339	-59.8 to -23.2
	0.6	775	43.2	56,766	-25.0
Unintentional suffocation	0.4 to 0.9	550 to 1,205	31.4 to 68.7	41,757 to 85,727	-43.0 to 2.5
	1.9	3,315	206.7	346,480	-51.6
Other exposure to mechanical forces	1.3 to 2.9	2,221 to 4,909	154.9 to 276.4	259,110 to 463,095	-68.0 to -26.3
	1.2	2,193	45.5	74,917	13.0
Adverse effects of medical treatment	0.8 to 1.7	1,515 to 3,112	32.1 to 62.2	52,477 to 103,314	-11.9 to 54.4
	0.2	406	25.9	41,337	-24.5
Animal contact	0.2 to 0.4	270 to 703	19.0 to 34.8	30,084 to 55,918	-43.9 to -1.5
	0.1	241	17.8	28,029	-26.3
Venomous animal contact	0.1 to 0.2	152 to 435	12.6 to 24.2	19,693 to 38,158	-46.4 to -1.9
	0.1	165	8.1	13,308	-21.6
Non-venomous animal contact	0.1 to 0.2	99 to 290	5.7 to 11.4	9,307 to 18,687	-39.1 to 5.6
	4.3	7,534	228.2	364,526	-31.6
Foreign body	3.0 to 6.6	5,224 to 11,800	169.6 to 331.4	267,385 to 536,118	-49.2 to -9.4
- '	4.0	7,140	204.4	326,227	-30.9
Pulmonary aspiration and foreign body in airway	2.8 to 6.3	4,945 to 11,258	151.9 to 303.5	238,313 to 490,925	-48.8 to -8.8
	0.2	394	21.2	34,170	-40.6
Foreign body in other body part	0.2 to 0.4	269 to 674	15.3 to 29.6	24,677 to 48,094	-56.8 to -13.6
Foreign body in other body part	7.2	13,648	337.9	608,816	-56.7
Environmental heat and cold exposure	4.5 to 13.7	8,568 to 26,341	229.6 to 585.3	412,402 to 1,064,979	-68.6 to -40.1
1	2.0	3,343	173.5	278,501	-45.1
Other unintentional injuries	1.4 to 2.7	2,341 to 4,515	131.0 to 223.3	209,355 to 359,674	-66.9 to -21.2
j	45.3	76,597	2,110.5	3,346,754	0.5
Self-harm and interpersonal violence	30.9 to 64.5	52,506 to 108,524	1,452.7 to 3,006.9	2,304,954 to 4,762,368	-27.2 to 34.2
	30.6	52,001	1,363.4	2,160,200	-1.9
Self-harm	20.6 to 43.6	35,189 to 75,088	904.8 to 1,934.0	1,447,926 to 3,076,816	-30.7 to 32.4
	1.1	1,923	47.8	77,446	-9.2
Self-harm by firearm	0.6 to 1.8	1,104 to 3,106	26.8 to 75.6	43,926 to 123,440	-39.9 to 28.9
Sen main of meanin	29.5	50,078	1,315.6	2,082,754	-1.6
Self-harm by other specified means	19.9 to 42.2	33,911 to 72,349	874.4 to 1,870.2	1,400,016 to 2,996,503	-30.4 to 32.5
son main by other specified means	14.7	24,596	747.1	1,186,550	6.4
Interpersonal violence	8.4 to 23.5	24,396 14,019 to 39,655	464.8 to 1,154.9	730,943 to 1,847,659	-22.5 to 41.8
interpersonal violence	1.1		54.5		-22.3 to 41.8 -9.9
Physical violence by firearm	0.4 to 3.0	1,673 708 to 4,760	23.4 to 158.6	83,049 35,089 to 241,588	-9.9 -43.2 to 46.1
Thysical violence by infeatin	5.1	,	252.9	, , , , , , , , , , , , , , , , , , ,	
Physical violence by sharp object		8,462		397,101	-7.1
rhysical violence by sharp object	2.7 to 8.8	4,522 to 14,450	139.0 to 427.7	217,899 to 676,978	-36.3 to 25.6
Dl.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8.5	14,462	428.7	691,042	20.2
Physical violence by other means	4.8 to 13.5	8,120 to 22,970	264.1 to 650.4	422,799 to 1,046,558	-14.4 to 64.9
	0.0	65	9.6	15,327	13.7
Forces of nature, conflict and terrorism, and executions and police conflict	0.0 to 0.1	39 to 99	3.7 to 23.6	5,799 to 37,856	-32.9 to 80.0
	0.0	0	1.6	2,732	-
Exposure to forces of nature	0.0 to 0.0	0 to 0	0.4 to 4.3	617 to 7,358	

	0.0	0	5.6	8,910	
Conflict and terrorism	0.0 to 0.0	0 to 0	1.3 to 16.4	2,072 to 26,044	-
	0.0	65	2.5	3,685	13.7
Executions and police conflict	0.0 to 0.1	39 to 99	1.5 to 3.7	2,225 to 5,580	-32.9 to 80.0

Appendix Table 2A. Percent of total deaths attributable to risks at Level 3 of the GBD hierarchy in 2016, for males age 15 to 49 years in Russia, China, Finland, Germany, Japan, Kazakhstan, Ukraine, and United States. Risks attributable to less than 1% of total deaths in Russia are not shown

	Russian Federation	China	Finland	Germany	Japan	Kazakhstan	Ukraine	United States
Level 3 Risk Factor	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI
Alcohol use	34.4% (29.5-38.6)	14.9% (12.5-17.7)	30.9% (25.5-35.8)	20.0% (15.2-24.9)	10.3% (4.3-15.4)	25.4% (19.6-31.2)	33.1% (28.5-37.9)	18.2% (14.1-22.4)
Smoking	13.0% (11.4-14.6)	15.4% (11.7-20.3)	4.7% (3.6-5.8)	14.0% (11.6-16.0)	11.0% (9.2-12.9)	15.3% (13.4-17.1)	15.3% (13.2-17.3)	8.1% (7.0-9.0)
Drug use	10.6% (9.0-12.3)	3.0% (2.6-3.8)	14.5% (11.4-17.3)	7.4% (6.2-8.6)	5.2% (4.5-6.2)	6.1% (5.4-6.9)	9.9% (8.5-11.6)	15.9% (14.7-17.3)
High systolic blood pressure	9.0% (7.2-10.7)	12.5% (10.5-14.4)	7.3% (5.9-8.8)	8.9% (7.1-10.6)	10.7% (8.8-12.5)	12.4% (10.3-14.4)	13.3% (11.1-15.2)	7.5% (6.1-8.8)
High total cholesterol	7.9% (6.7-9.0)	7.7% (6.8-8.6)	5.0% (4.0-6.2)	8.2% (6.8-9.5)	6.8% (6.0-7.6)	10.1% (8.7-11.7)	10.4% (8.9-12.0)	7.2% (6.5-8.0)
High body-mass index	7.0% (4.5-9.3)	8.3% (4.2-12.9)	6.3% (4.0-8.5)	8.7% (5.4-11.6)	6.5% (3.5-9.6)	7.9% (4.5-11.3)	7.7% (4.6-10.8)	11.7% (8.9-14.0)
Diet low in whole grains	4.9% (3.4-6.6)	6.4% (4.5-8.7)	3.2% (2.1-4.4)	4.2% (2.8-5.9)	5.5% (3.8-7.2)	6.6% (4.6-8.6)	6.2% (4.3-8.4)	4.6% (3.2-6.0)
Diet low in fruits	3.7% (2.2-5.3)	6.3% (4.1-8.7)	2.4% (1.4-3.5)	3.7% (2.2-5.4)	5.8% (3.8-7.8)	5.3% (3.2-7.6)	5.2% (3.1-7.4)	3.0% (1.8-4.5)
Diet low in nuts and seeds	3.4% (2.1-4.6)	3.8% (2.5-5.1)	2.4% (1.6-3.4)	3.2% (1.9-4.6)	3.1% (2.0-4.3)	4.6% (2.9-6.4)	5.0% (3.2-6.7)	2.2% (1.2-3.3)
High fasting plasma glucose	3.3% (2.1-4.8)	5.1% (3.7-6.9)	2.7% (2.0-3.6)	3.0% (2.3-4.1)	3.5% (2.5-4.9)	3.0% (1.9-4.5)	2.4% (1.4-3.7)	4.7% (3.9-5.9)
Ambient particulate matter pollution	3.2% (2.5-4.0)	7.2% (6.1-8.3)	1.0% (0.6-1.5)	2.8% (2.0-3.8)	3.2% (2.4-3.9)	4.4% (3.5-5.4)	4.4% (3.4-5.4)	2.1% (1.5-2.7)
Unsafe sex	2.9% (1.7-4.5)	1.5% (1.3-1.6)	0.1% (0.1-0.1)	0.7% (0.6-0.9)	0.1% (0.1-0.1)	0.4% (0.3-0.6)	4.3% (2.9-6.2)	1.5% (1.5-1.6)
Diet low in vegetables	2.4% (1.1-4.0)	2.1% (0.8-3.7)	1.8% (0.9-2.9)	2.6% (1.2-4.2)	1.2% (0.3-2.5)	0.9% (0.0-2.7)	1.6% (0.3-3.4)	2.3% (1.0-3.7)
Diet low in legumes	2.1% (0.9-3.3)	2.0% (0.9-3.2)	1.4% (0.6-2.2)	2.3% (1.0-3.5)	0.4% (0.1-0.9)	3.3% (1.5-5.1)	2.8% (1.3-4.5)	1.8% (0.8-2.8)
Diet low in seafood omega-3 fatty acids	2.1% (0.9-3.5)	2.9% (1.3-4.5)	1.4% (0.6-2.4)	2.3% (1.0-3.8)	0.0% (0.0-0.1)	3.0% (1.2-5.0)	3.4% (1.4-5.5)	1.8% (0.7-3.0)
Diet low in fiber	1.7% (0.9-2.7)	2.0% (1.2-2.9)	1.2% (0.7-1.9)	2.0% (1.1-3.0)	1.6% (0.9-2.5)	2.4% (1.3-3.7)	2.3% (1.2-3.5)	1.4% (0.7-2.2)
Impaired kidney function	1.5% (1.2-1.9)	3.0% (2.6-3.5)	0.6% (0.5-0.8)	1.0% (0.8-1.2)	1.8% (1.6-2.1)	2.5% (2.1-3.0)	1.9% (1.5-2.4)	1.9% (1.7-2.1)
Diet high in sodium	1.4% (0.0-3.3)	5.8% (2.9-9.1)	1.2% (0.0-2.7)	1.6% (0.0-3.8)	3.4% (1.2-6.3)	3.1% (0.3-6.7)	2.0% (0.1-4.6)	2.3% (0.5-4.5)
Occupational carcinogens	1.0% (0.7-1.4)	2.3% (1.8-2.9)	0.8% (0.6-1.1)	1.9% (1.4-2.5)	2.1% (1.6-2.6)	1.8% (1.4-2.4)	1.1% (0.7-1.4)	1.3% (0.9-1.6)

Appendix Table 2b. Percent of total deaths attributable to risks at Level 3 of the GBD hierarchy in 2016, for females age 15 to 49 years in Russia, China, Finland, Germany, Japan, Kazakhstan, Ukraine, and United States. Risks attributable to less than 1% of total deaths in Russia are not shown

	Russian Federation	China	Finland	Germany	Japan	Kazakhstan	Ukraine	United States
Level 3 Risk Factor	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI	Percent 95% UI
Alcohol use	20.1% (17.1-23.4)	2.2% (1.6-2.9)	17.2% (13.7-20.7)	14.3% (11.3-17.4)	10.9% (6.4-14.9)	17.9% (13.9-22.3)	21.9% (17.7-26.1)	10.1% (7.8-12.6)
High body-mass index	8.1% (6.1-10.0)	8.2% (4.2-12.7)	5.5% (4.1-6.9)	6.1% (4.5-7.7)	2.9% (1.3-4.9)	11.5% (8.4-14.5)	8.9% (6.3-11.4)	10.9% (9.0-12.5)
Smoking	7.8% (6.5-9.3)	4.0% (1.8-7.8)	4.7% (3.5-6.0)	12.8% (10.8-15.0)	4.5% (3.8-5.4)	6.3% (4.8-7.9)	8.1% (6.3-9.9)	9.8% (8.9-10.9)
Drug use	7.7% (6.3-9.8)	2.1% (1.8-2.7)	7.0% (5.7-8.5)	3.7% (3.1-4.4)	2.9% (2.6-3.3)	3.9% (3.5-4.3)	9.1% (7.3-11.3)	12.4% (11.8-13.1)
High systolic blood pressure	7.6% (6.1-9.1)	9.9% (8.0-11.6)	5.2% (4.1-6.5)	4.9% (3.5-6.2)	5.0% (3.9-6.1)	10.1% (8.1-12.1)	10.0% (8.2-11.6)	5.3% (4.3-6.5)
Unsafe sex	6.3% (4.9-8.7)	4.5% (3.1-5.0)	1.1% (1.0-1.3)	3.4% (3.0-3.9)	4.2% (3.9-4.5)	4.2% (3.8-4.8)	8.9% (6.7-12.2)	3.3% (3.1-3.4)
High total cholesterol	5.7% (4.9-6.6)	5.9% (5.1-6.8)	2.2% (1.7-2.7)	3.6% (3.0-4.4)	2.9% (2.6-3.2)	7.2% (6.1-8.3)	7.4% (6.3-8.6)	4.9% (4.4-5.5)
Diet low in whole grains	4.7% (3.5-6.1)	5.9% (4.1-7.9)	3.0% (2.2-3.9)	3.1% (2.2-4.2)	3.4% (2.4-4.5)	6.4% (4.8-8.2)	5.6% (4.1-7.3)	4.2% (3.1-5.5)
Diet low in fruits	3.5% (2.3-5.0)	5.5% (3.4-7.6)	2.3% (1.5-3.4)	3.0% (1.8-4.2)	3.9% (2.6-5.2)	5.4% (3.5-7.3)	4.7% (2.9-6.5)	3.0% (1.9-4.2)
High fasting plasma glucose	2.8% (1.9-4.1)	5.2% (4.0-6.7)	2.6% (1.9-3.5)	2.5% (1.8-3.4)	2.6% (1.8-3.7)	3.4% (2.5-4.8)	2.8% (1.9-3.8)	5.7% (4.6-6.9)
Ambient particulate matter pollution	2.7% (2.2-3.4)	6.9% (5.8-8.0)	0.7% (0.5-1.1)	2.2% (1.6-2.7)	2.1% (1.6-2.6)	3.8% (3.1-4.6)	3.5% (2.8-4.3)	1.9% (1.4-2.4)
Diet low in nuts and seeds	2.4% (1.5-3.2)	3.1% (2.1-4.2)	1.2% (0.8-1.6)	1.5% (0.9-2.1)	1.3% (0.9-1.8)	3.2% (2.1-4.3)	3.6% (2.4-4.8)	1.8% (1.0-2.6)
Diet low in vegetables	2.2% (1.0-3.5)	2.1% (0.8-3.6)	1.4% (0.7-2.3)	1.8% (0.9-2.8)	0.9% (0.3-1.8)	1.0% (0.0-2.6)	1.5% (0.3-2.9)	1.9% (0.9-3.0)
Impaired kidney function	1.9% (1.6-2.2)	4.0% (3.5-4.6)	0.8% (0.6-1.0)	1.0% (0.9-1.2)	1.6% (1.4-1.9)	3.5% (3.1-4.0)	2.2% (1.8-2.6)	2.5% (2.3-2.7)
Diet low in seafood omega-3 fatty acids	1.5% (0.6-2.5)	2.3% (1.0-3.6)	0.6% (0.3-1.1)	1.1% (0.5-1.7)	0.0% (0.0-0.1)	2.1% (0.9-3.5)	2.4% (1.0-3.8)	1.3% (0.5-2.2)
Diet low in legumes	1.5% (0.7-2.3)	1.7% (0.8-2.7)	0.6% (0.3-1.0)	1.0% (0.5-1.6)	0.2% (0.1-0.5)	2.3% (1.0-3.5)	2.1% (0.9-3.3)	1.3% (0.6-2.1)
Diet low in fiber	1.5% (0.9-2.2)	1.9% (1.2-2.7)	0.9% (0.5-1.3)	1.3% (0.8-1.9)	1.1% (0.6-1.6)	2.0% (1.2-2.9)	2.0% (1.2-3.0)	1.2% (0.6-1.8)
Occupational carcinogens	1.2% (0.8-1.5)	1.9% (1.5-2.3)	1.0% (0.7-1.2)	1.9% (1.5-2.4)	1.7% (1.3-2.1)	1.8% (1.4-2.3)	1.2% (0.9-1.5)	1.7% (1.3-2.1)
Secondhand smoke	1.1% (0.8-1.5)	3.8% (2.9-4.7)	0.5% (0.3-0.7)	0.6% (0.4-0.8)	1.2% (0.9-1.5)	2.7% (2.1-3.4)	1.4% (1.0-1.8)	0.6% (0.4-0.7)