

Figure 6: Change in age-specific population-weighted Gini coefficient versus relative change in mortality rate from 1990 to 2013

Solid points show age groups for which the mean absolute difference between countries has increased and hollow points show those for which mean absolute difference has decreased.

less than in 2000). Between 2000 and 2013, deaths from diarrhoeal diseases fell by 31.1% (from 1.8 million [1.7–2.0] to 1.3 million [1.2–1.4]), tuberculosis and meningitis each by about 20% (1.6 million [1.4–1.7] to 1.3 million [1.2–1.4] for tuberculosis, 377 300 [331 400–438 000] to 303 500 [261 400–346 300] for meningitis), while mortality from tetanus fell by about 60% (142 400 [108 800–163 100] to 58 900 [39 800–77 300]), from measles by about 80% (494 500 [279.4–763.8] to 95 600 [48 500–172 900]), from diphtheria by about 40% (5400 [2800–10 700] to 3300 [1700–6600]), and from whooping cough by about 40% (111 800 [42 300–242 400] to 60 600 [22 300–136 800]). Deaths from neonatal causes fell by a quarter since 2000 (2.8 million to 2.0 million), and by about one-fifth for maternal causes (364 900 to 293 300). Comparing 2013 to 1990, malaria deaths decreased by 4.4% and HIV/AIDS increased by 368% (table 2). HIV/AIDS mortality and malaria mortality both peaked in 2005 (1.7 million [1.6–1.9] for HIV/AIDS, 1.2 million [1.1–1.4] for malaria); HIV/AIDS mortality fell by 21% (20.4–21.5) from 2005 to 2013, and malaria mortality fell by 30% (24.8–35.4).³⁸ The risk of death from various leading causes of communicable, maternal, neonatal, and nutritional disorders as measured by the age-standardised death rate (table 2), has generally declined by an even greater amount than the risk for HIV/AIDS and malaria.

Age-standardised death rates decreased by about 40% since 1990 for the category as a whole, as well as most notably, for lower respiratory infections, maternal disorders, neonatal disorders, and asthma, and by 50–60% for tuberculosis, diarrhoeal diseases, pneumoconiosis and several neglected tropical diseases (table 2). Despite a small decrease in numbers of deaths, age-standardised malaria mortality have fallen by 19% since 1990, with much of that decline occurring in the past 5 years or so (data not shown).³³

For most of the leading non-communicable diseases, the number of deaths has increased, by 42% between 1990 and 2013 (from 27.0 million [UI 26.3–27.6] in 1990, to 38.3 million [37.2–39.4] in 2013), but age-standardised mortality rates have fallen. Allowing for changes in the age structure of the world's population between 1990 and 2013, age-standardised death rates from non-communicable diseases fell by 18.6%; by 22% for cardiovascular and circulatory diseases, 13.7–14.7% for cirrhosis of the liver and cancer, and 21.9–30.4% for other digestive diseases and chronic respiratory diseases (table 2). For many disorders, including stomach cancer, Hodgkin lymphoma, rheumatic heart disease, peptic ulcer disease, appendicitis, and schizophrenia, age-standardised death rates have fallen by more than one-third since 1990 (table 2). Age-standardised death rates

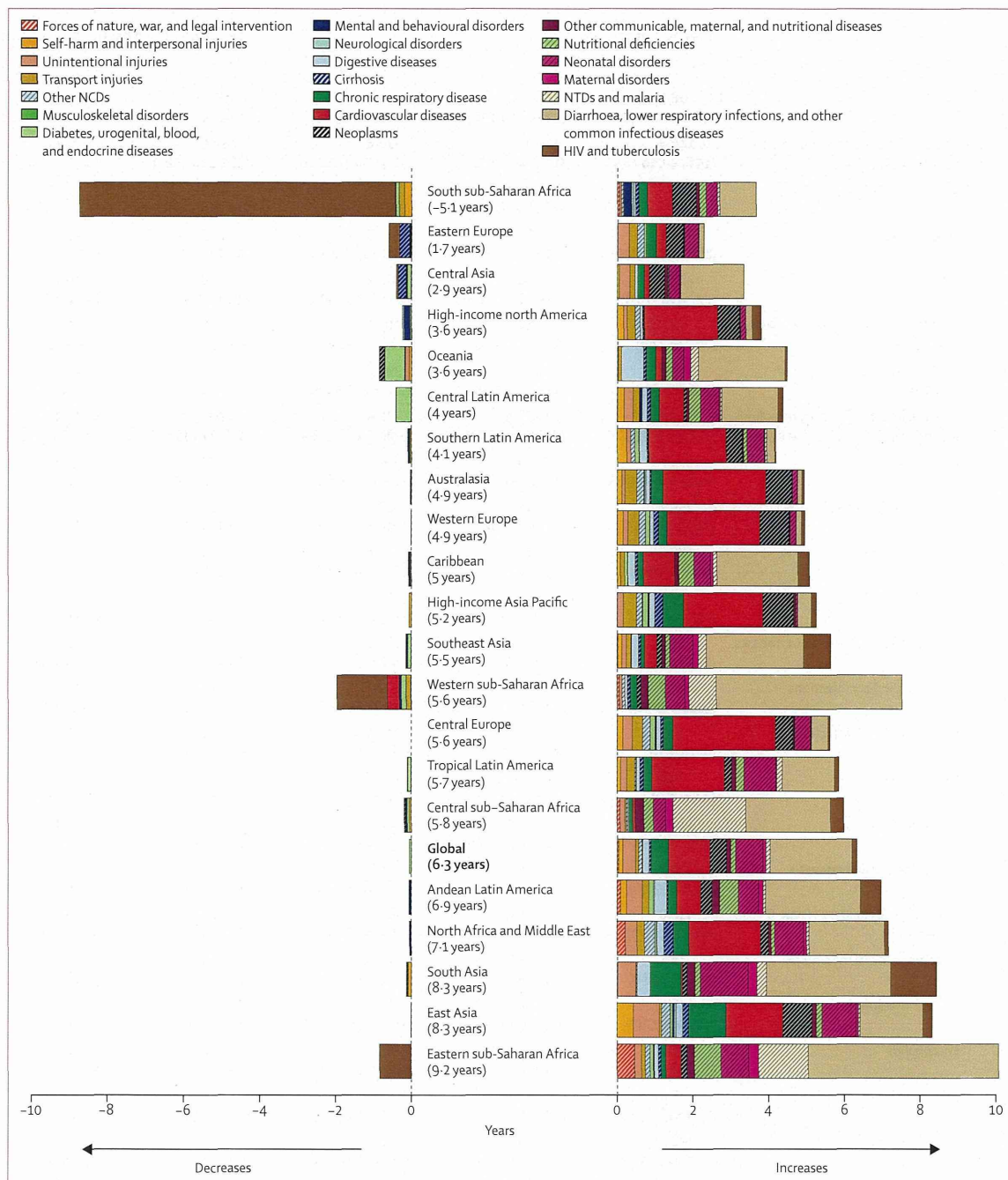


Figure 7: Change in life expectancy at birth by GBD region and cause group from 1990 to 2013
 An interactive figure with these data is available at <http://vizhub.healthdata.org/le>. Changes in life expectancy as a result of specific causes were decomposed from the difference between all-cause lifetables and cause-deleted lifetables (mortality set to zero for a specific cause). Because all changes in life expectancy are based on cross-sectional lifetables, the cause-specific changes add up to the total change in life-expectancy. NTDs=neglected tropical diseases.

for some cancers have fallen (lung by 9%, breast by 18%, and leukaemia by 20%), but have remained unchanged for others (table 2). Global age-standardised death rates have fallen by more than one-fifth for ischaemic heart disease and stroke (table 2).

Global age-standardised mortality rates increased significantly for very few disease between 1990 and 2013. The largest increase was for HIV/AIDS, which peaked in 2005 and then fell by 31.0% (UI 25.7% to 35.9%) from 2005 to 2013 (from 26.9 to 18.5 per 100 000). Among the

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
All causes	47 468.7 (46 771.7 to 48 223.3)	54 863.8 (53 576.1 to 56 333.6)	15.6 (12.54 to 19.11)	1160.5 (1143.2 to 1179.0)	879.7 (859.9 to 902.2)	-24.2 (-26.20 to -21.96)
Communicable, maternal, neonatal, and nutritional diseases	16 149.4 (15 674.5 to 16 597.6)	11 809.6 (11 335.5 to 12 283.0)	-26.8 (-29.99 to -24.10)	289.5 (281.2 to 298.4)	172.2 (165.2 to 178.8)	-40.5 (-42.98 to -38.35)
HIV/AIDS and tuberculosis	2072.5 (1938.2 to 2246.1)	2631.2 (2497.3 to 2863.2)	26.8 (17.08 to 37.92)	49.3 (46.2 to 53.3)	38.0 (36.0 to 41.6)	-23.1 (-29.02 to -16.39)
Tuberculosis	1786.1 (1666.4 to 1945.4)	1290.3 (1167.3 to 1406.2)	-27.7 (-34.99 to -20.56)	43.5 (40.4 to 47.2)	19.4 (17.6 to 21.2)	-55.3 (-59.67 to -51.01)
HIV/AIDS	286.4 (227.4 to 370.3)	1341.0 (1257.8 to 1482.6)	374.2 (262.47 to 490.73)	5.8 (4.6 to 7.6)	18.5 (17.4 to 20.5)	222.0 (145.14 to 303.34)
HIV/AIDS resulting in mycobacterial infection	27.8 (20.5 to 37.4)	84.0 (67.4 to 104.9)	205.1 (130.68 to 291.83)	0.6 (0.4 to 0.8)	1.2 (0.9 to 1.4)	105.5 (55.00 to 166.22)
HIV/AIDS resulting in other diseases	258.6 (206.1 to 334.4)	1257.0 (1178.1 to 1391.1)	393.2 (276.86-511.66)	5.3 (4.2 to 6.8)	17.4 (16.3 to 19.2)	235.0 (154.55 to 319.43)
Diarrhoea, lower respiratory infections, and other common infectious diseases	7880.5 (7468.3 to 8337.2)	4750.5 (4388.8 to 5029.9)	-39.4 (-45.17 to -35.89)	143.7 (137.3 to 151.9)	72.4 (66.7 to 76.5)	-49.4 (-53.54 to -46.75)
Diarrhoeal diseases	2578.7 (2412.2 to 2748.9)	1264.1 (1151.2 to 1383.2)	-51.0 (-55.55 to -46.25)	47.4 (44.4 to 50.1)	19.0 (17.4 to 20.8)	-59.8 (-63.54 to -55.96)
Intestinal infectious diseases	259.1 (145.6 to 424.6)	221.3 (122.6 to 362.6)	-14.3 (-26.08 to -2.75)	4.3 (2.4 to 7.0)	3.1 (1.7 to 5.0)	-28.7 (-38.19 to -18.98)
Typhoid fever	180.5 (96.4 to 302.3)	160.7 (85.9 to 268.0)	-10.8 (-23.70 to 4.24)	3.0 (1.6 to 5.0)	2.2 (1.2 to 3.7)	-25.9 (-36.31 to -13.57)
Paratyphoid fever	63.4 (33.6 to 106.7)	54.3 (29.3 to 92.0)	-14.9 (-30.51 to 9.48)	1.0 (0.6 to 1.7)	0.7 (0.4 to 1.3)	-28.0 (-40.99 to -7.97)
Other intestinal infectious diseases	15.3 (13.5 to 17.3)	6.3 (5.5 to 7.0)	-59.1 (-63.26 to -54.09)	0.3 (0.2 to 0.3)	0.1 (0.1 to 0.1)	-66.7 (-70.02 to -62.84)
Lower respiratory infections	3420.7 (3211.6 to 3638.4)	2652.6 (2368.0 to 2808.1)	-22.2 (-29.71 to -16.32)	66.8 (63.1 to 71.6)	41.7 (37.1 to 44.1)	-37.4 (-42.54 to -33.45)
Upper respiratory infections	4.7 (4.0 to 5.6)	3.9 (3.3 to 4.7)	-16.4 (-33.55 to 4.22)	0.1 (0.1 to 0.1)	0.1 (0.1 to 0.1)	-40.8 (-52.40 to -26.16)
Otitis media	4.9 (4.5 to 5.3)	2.4 (2.3 to 2.6)	-50.8 (-54.22 to -46.41)	0.1 (0.1 to 0.1)	0.0 (0.0 to 0.0)	-60.8 (-63.34 to -57.76)
Meningitis	464.4 (405.0 to 559.0)	303.5 (261.4 to 346.3)	-34.3 (-45.34 to -24.08)	7.7 (6.8 to 9.0)	4.3 (3.7 to 4.9)	-43.9 (-52.65 to -36.07)
Pneumococcal meningitis	112.1 (97.7 to 132.6)	79.1 (67.8 to 91.1)	-29.4 (-39.84 to -16.86)	1.9 (1.7 to 2.2)	1.1 (1.0 to 1.3)	-41.7 (-49.60 to -31.37)
<i>Haemophilus influenzae</i> type B meningitis	118.0 (98.2 to 147.0)	64.4 (53.0 to 76.4)	-45.4 (-54.79 to -33.50)	1.8 (1.5 to 2.2)	0.9 (0.7 to 1.1)	-49.7 (-58.21 to -39.32)
Meningococcal meningitis	88.1 (76.1 to 108.0)	65.7 (55.9 to 75.8)	-24.9 (-38.82 to -12.62)	1.5 (1.3 to 1.8)	0.9 (0.8 to 1.1)	-37.3 (-47.55 to -27.80)
Other meningitis	146.1 (128.0 to 174.9)	94.2 (82.2 to 106.4)	-35.1 (-47.16 to -24.71)	2.5 (2.2 to 2.9)	1.3 (1.2 to 1.5)	-45.9 (-54.98 to -37.48)
Encephalitis	92.2 (65.2 to 116.2)	77.3 (65.4 to 97.0)	-15.2 (-40.15 to 16.01)	1.6 (1.1 to 1.9)	1.1 (0.9 to 1.4)	-28.7 (-48.10 to -4.52)
Diphtheria	8.0 (3.9 to 18.8)	3.3 (1.7 to 6.6)	-57.7 (-85.61 to 12.54)	0.1 (0.1 to 0.3)	0.0 (0.0 to 0.1)	-60.8 (-86.70 to 2.82)
Whooping cough	138.2 (52.9 to 300.2)	60.6 (22.3 to 136.8)	-56.7 (-83.76 to 14.31)	1.9 (0.7 to 4.2)	0.8 (0.3 to 1.9)	-58.2 (-84.31 to 10.44)
Tetanus	356.2 (292.9 to 578.6)	58.9 (39.8 to 77.3)	-82.1 (-92.00 to -76.10)	5.7 (4.7 to 9.1)	0.8 (0.6 to 1.1)	-83.9 (-92.72 to -77.84)

(Table 2 continues on next page)

cancers, only liver cancer caused by hepatitis C increased substantially (table 2). Although age-standardised mortality for cardiovascular and circulatory diseases decreased by 22%, significant increases occurred for atrial fibrillation and flutter and peripheral vascular disease (table 2). Mortality rates for Alzheimer's disease

and other dementias increased by only 3.2% (UI -3.01 to 11.61) and Parkinson's disease by 28.2% (-6.42 to 37.83; table 2). Important worldwide increases occurred for diabetes (9.0%) and an even larger increase for chronic kidney disease (36.9%; table 2). The age-standardised death rate for sickle-cell disease increased

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Measles	544.5 (304.0 to 867.8)	95.6 (48.5 to 172.9)	-83.0 (-90.23 to -67.93)	7.8 (4.3 to 12.4)	1.3 (0.7 to 2.4)	-83.7 (-90.66 to -69.19)
Varicella	8.9 (7.2 to 11.7)	7.0 (5.7 to 8.7)	-21.4 (-43.72 to 4.63)	0.2 (0.2 to 0.3)	0.1 (0.1 to 0.1)	-45.6 (-61.28 to -27.33)
Neglected tropical diseases and malaria	1092.4 (994.1 to 1196.7)	997.0 (840.5 to 1185.2)	-9.2 (-25.09 to 10.78)	18.5 (17.0 to 20.2)	13.9 (11.8 to 16.5)	-24.9 (-37.19 to -9.70)
Malaria	888.1 (793.4 to 992.7)	854.6 (702.9 to 1032.5)	-4.4 (-23.61 to 19.83)	14.6 (13.2 to 16.2)	11.9 (9.8 to 14.4)	-18.9 (-34.32 to 0.18)
Chagas disease	12.7 (5.2 to 39.4)	10.6 (4.2 to 33.0)	-19.3 (-41.12 to 25.58)	0.3 (0.1 to 1.1)	0.2 (0.1 to 0.5)	-51.7 (-66.06 to -24.52)
Leishmaniasis	52.2 (44.6 to 60.6)	62.5 (52.3 to 73.3)	19.8 (3.56 to 37.74)	0.9 (0.7 to 1.0)	0.9 (0.7 to 1.0)	-0.3 (-14.18 to 14.25)
Visceral leishmaniasis	52.2 (44.6 to 60.6)	62.5 (52.3 to 73.3)	19.8 (3.56 to 37.74)	0.9 (0.7 to 1.0)	0.9 (0.7 to 1.0)	-0.3 (-14.18 to 14.25)
African trypanosomiasis	23.0 (11.4 to 37.7)	6.9 (3.7 to 10.9)	-69.7 (-73.88 to -64.94)	0.5 (0.2 to 0.7)	0.1 (0.1 to 0.1)	-78.9 (-81.76 to -75.54)
Schistosomiasis	17.4 (14.8 to 20.6)	5.5 (4.9 to 6.2)	-68.2 (-73.56 to -61.68)	0.4 (0.4 to 0.5)	0.1 (0.1 to 0.1)	-80.7 (-84.06 to -76.71)
Cysticercosis	0.9 (0.8 to 1.1)	0.7 (0.5 to 1.0)	-28.6 (-35.23 to -15.09)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-53.0 (-57.59 to -43.63)
Cystic echinococcosis	4.0 (3.8 to 4.3)	2.2 (2.1 to 2.4)	-45.0 (-48.34 to -41.22)	0.1 (0.1 to 0.1)	0.0 (0.0 to 0.0)	-60.8 (-62.99 to -58.26)
Dengue	8.8 (5.2 to 11.3)	9.1 (5.6 to 10.8)	-1.3 (-21.69 to 74.08)	0.1 (0.1 to 0.2)	0.1 (0.1 to 0.2)	-13.6 (-31.42 to 42.41)
Yellow fever	2.2 (1.9 to 2.5)	0.5 (0.4 to 0.6)	-77.2 (-80.99 to -72.34)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-83.3 (-86.08 to -79.71)
Rabies	38.4 (26.7 to 48.7)	23.5 (17.3 to 28.6)	-38.3 (-53.14 to -24.37)	0.7 (0.5 to 0.9)	0.3 (0.2 to 0.4)	-54.0 (-64.09 to -44.23)
Intestinal nematode infections	9.1 (8.1 to 10.2)	4.5 (4.0 to 5.1)	-50.7 (-56.28 to -43.47)	0.1 (0.1 to 0.2)	0.1 (0.1 to 0.1)	-54.7 (-59.66 to -48.46)
Ascariasis	9.1 (8.1 to 10.2)	4.5 (4.0 to 5.1)	-50.7 (-56.28 to -43.47)	0.1 (0.1 to 0.2)	0.1 (0.1 to 0.1)	-54.7 (-59.66 to -48.46)
Other neglected tropical diseases	35.6 (26.4 to 44.2)	16.3 (13.9 to 19.6)	-54.4 (-64.57 to -36.37)	0.6 (0.5 to 0.8)	0.2 (0.2 to 0.3)	-62.3 (-69.58 to -49.75)
Maternal disorders	376.6 (344.0 to 408.2)	293.3 (261.3 to 328.2)	-22.3 (-31.63 to -11.38)	6.9 (6.3 to 7.5)	3.9 (3.5 to 4.4)	-43.6 (-50.45 to -35.70)
Maternal haemorrhage	71.4 (64.6 to 78.5)	44.2 (38.3 to 51.0)	-38.1 (-47.24 to -27.03)	1.3 (1.2 to 1.4)	0.6 (0.5 to 0.7)	-55.0 (-61.51 to -46.97)
Maternal sepsis and other maternal infections	34.1 (30.5 to 38.0)	23.8 (20.1 to 28.0)	-30.4 (-42.43 to -15.10)	0.6 (0.6 to 0.7)	0.3 (0.3 to 0.4)	-50.0 (-58.40 to -39.00)
Maternal hypertensive disorders	36.6 (33.3 to 39.9)	29.3 (25.7 to 33.5)	-20.0 (-30.89 to -7.22)	0.7 (0.6 to 0.7)	0.4 (0.3 to 0.4)	-41.3 (-49.14 to -32.20)
Obstructed labour	29.3 (26.3 to 32.7)	18.8 (16.3 to 21.8)	-35.9 (-45.56 to -23.86)	0.5 (0.5 to 0.6)	0.2 (0.2 to 0.3)	-53.4 (-60.20 to -44.45)
Complications of abortion	50.0 (45.8 to 54.8)	43.7 (38.3 to 49.9)	-12.6 (-24.72 to 2.00)	0.9 (0.9 to 1.0)	0.6 (0.5 to 0.7)	-37.5 (-46.15 to -26.71)
Indirect maternal deaths	40.1 (35.5 to 44.4)	31.1 (26.8 to 35.8)	-22.7 (-34.25 to -7.62)	0.7 (0.6 to 0.8)	0.4 (0.4 to 0.5)	-43.4 (-51.81 to -32.38)
Late maternal deaths	44.9 (36.4 to 53.2)	43.5 (35.7 to 52.4)	-1.8 (-26.81 to 21.95)	0.8 (0.7 to 1.0)	0.6 (0.5 to 0.7)	-28.4 (-46.61 to -11.67)
Maternal deaths aggravated by HIV/AIDS	0.8 (0.5 to 1.1)	2.1 (1.3 to 2.9)	161.7 (128.02 to 202.66)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	94.1 (69.26 to 124.47)
Other maternal disorders	68.6 (58.4 to 80.4)	56.2 (48.7 to 64.4)	-18.2 (-31.79 to -0.04)	1.3 (1.1 to 1.5)	0.7 (0.6 to 0.9)	-40.8 (-50.36 to -27.88)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Neonatal disorders	3 433.3 (3 225.7 to 3 586.1)	2 048.0 (1 934.7 to 2 160.3)	-40.3 (-43.96 to -36.30)	46.9 (44.1 to 49.0)	27.6 (26.1 to 29.1)	-41.1 (-44.71 to -37.13)
Preterm birth complications	1 570.5 (1 285.0 to 1 803.5)	742.4 (591.3 to 910.8)	-52.9 (-58.70 to -45.50)	21.4 (17.5 to 24.6)	10.0 (8.0 to 12.3)	-53.5 (-59.23 to -46.20)
Neonatal encephalopathy (birth asphyxia/trauma)	874.1 (688.5 to 1 055.4)	643.8 (515.0 to 760.5)	-26.1 (-38.29 to -11.35)	11.9 (9.4 to 14.4)	8.7 (6.9 to 10.3)	-27.1 (-39.06 to -12.49)
Neonatal sepsis and other neonatal infections	346.4 (195.7 to 484.0)	366.0 (232.2 to 510.8)	6.1 (-15.94 to 38.04)	4.7 (2.7 to 6.6)	4.9 (3.1 to 6.9)	4.6 (-17.13 to 35.99)
Haemolytic disease and other neonatal jaundice	64.8 (39.5 to 96.3)	19.6 (13.0 to 29.7)	-70.0 (-79.78 to -50.43)	0.9 (0.5 to 1.3)	0.3 (0.2 to 0.4)	-70.6 (-80.17 to -51.17)
Other neonatal disorders	577.6 (457.5 to 756.0)	276.2 (219.6 to 350.7)	-52.3 (-62.41 to -36.77)	7.9 (6.3 to 10.3)	3.7 (3.0 to 4.7)	-53.0 (-63.01 to -37.68)
Nutritional deficiencies	757.7 (641.5 to 934.4)	681.1 (533.5 to 795.5)	-9.7 (-22.87 to 1.86)	14.7 (12.4 to 18.2)	10.4 (8.2 to 12.2)	-28.6 (-38.77 to -20.45)
Protein-energy malnutrition	507.9 (394.3 to 648.5)	468.8 (350.0 to 560.9)	-7.3 (-22.92 to 7.51)	9.2 (7.1 to 11.8)	7.1 (5.3 to 8.5)	-22.5 (-34.54 to -11.34)
Iodine deficiency	2.1 (1.4 to 3.4)	2.7 (1.5 to 4.7)	24.5 (-29.82 to 137.21)	0.0 (0.0 to 0.1)	0.0 (0.0 to 0.1)	-7.9 (-47.13 to 80.62)
Iron-deficiency anemia	213.4 (143.5 to 309.3)	183.4 (122.0 to 259.2)	-13.8 (-32.36 to 5.33)	4.6 (3.3 to 6.6)	2.8 (1.9 to 4.0)	-38.8 (-50.36 to -26.57)
Other nutritional deficiencies	34.3 (23.8 to 56.1)	26.2 (17.0 to 41.2)	-22.5 (-42.66 to -4.64)	0.8 (0.5 to 1.3)	0.4 (0.3 to 0.7)	-45.4 (-56.40 to -33.85)
Other communicable, maternal, neonatal, and nutritional diseases	536.5 (433.0 to 674.9)	408.4 (342.1 to 488.3)	-23.8 (-33.94 to -11.53)	9.4 (7.9 to 11.4)	5.9 (5.0 to 7.0)	-37.4 (-44.55 to -28.28)
Sexually transmitted diseases excluding HIV	257.6 (154.7 to 396.4)	142.0 (87.6 to 213.9)	-44.5 (-55.96 to -32.77)	3.8 (2.4 to 5.7)	1.9 (1.2 to 2.9)	-48.4 (-58.54 to -37.36)
Syphilis	250.6 (147.4 to 389.1)	136.8 (82.4 to 208.9)	-45.1 (-56.56 to -33.02)	3.6 (2.2 to 5.5)	1.9 (1.1 to 2.9)	-48.0 (-58.61 to -36.83)
Chlamydial infection	1.5 (1.1 to 1.9)	1.1 (0.9 to 1.4)	-23.0 (-42.59 to 0.03)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-51.1 (-64.66 to -34.62)
Gonococcal infection	3.2 (2.5 to 3.8)	2.3 (2.0 to 2.9)	-26.6 (-41.91 to -6.75)	0.1 (0.1 to 0.1)	0.0 (0.0 to 0.0)	-54.0 (-64.57 to -39.74)
Other sexually transmitted diseases	2.4 (1.9 to 2.8)	1.7 (1.5 to 2.1)	-27.3 (-42.08 to -10.71)	0.1 (0.0 to 0.1)	0.0 (0.0 to 0.0)	-53.2 (-63.49 to -40.60)
Hepatitis	162.0 (152.8 to 171.4)	136.7 (123.7 to 163.2)	-16.8 (-25.24 to 2.96)	3.3 (3.1 to 3.5)	2.0 (1.8 to 2.4)	-39.6 (-45.37 to -25.80)
Hepatitis A	22.6 (7.9 to 40.2)	14.9 (5.0 to 27.7)	-36.3 (-50.41 to -2.45)	0.3 (0.1 to 0.6)	0.2 (0.1 to 0.4)	-41.9 (-54.39 to -12.04)
Hepatitis B	85.0 (65.1 to 104.0)	68.6 (52.0 to 86.6)	-19.7 (-28.94 to -4.23)	1.9 (1.5 to 2.2)	1.1 (0.8 to 1.3)	-44.6 (-50.38 to -35.37)
Hepatitis C	2.3 (0.5 to 5.3)	3.5 (0.7 to 8.2)	51.0 (24.40 to 86.56)	0.1 (0.0 to 0.1)	0.1 (0.0 to 0.1)	-4.2 (-20.86 to 17.67)
Hepatitis E	52.1 (39.0 to 67.2)	49.7 (36.1 to 67.5)	-6.1 (-17.83 to 20.41)	1.0 (0.7 to 1.3)	0.7 (0.5 to 1.0)	-30.8 (-39.35 to -11.37)
Other infectious diseases	116.9 (94.0 to 144.3)	129.8 (89.6 to 164.9)	11.3 (-21.67 to 45.00)	2.4 (1.9 to 3.0)	2.0 (1.4 to 2.5)	-17.7 (-42.92 to 7.31)
Non-communicable diseases	26 993.5 (26 298.1 to 27 639.1)	38 267.2 (37 202.2 to 39 417.6)	41.7 (36.86 to 47.00)	782.5 (765.5 to 798.2)	637.5 (620.4 to 655.7)	-18.6 (-21.08 to -15.78)
Neoplasms	5 659.7 (5 440.4 to 5 826.6)	8 235.7 (7 941.4 to 8 538.9)	45.6 (39.82 to 51.55)	157.0 (151.3 to 161.5)	133.8 (128.9 to 138.6)	-14.7 (-17.91 to -11.49)
Oesophageal cancer	313.1 (275.0 to 351.5)	440.2 (389.2 to 516.8)	39.9 (26.42 to 56.36)	8.8 (7.8 to 9.9)	7.2 (6.3 to 8.4)	-19.3 (-27.13 to -9.94)
Stomach cancer	763.4 (725.6 to 803.2)	841.0 (791.6 to 894.1)	10.1 (3.94 to 17.43)	21.7 (20.6 to 22.9)	13.8 (13.0 to 14.7)	-36.3 (-39.82 to -32.14)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Liver cancer	510.1 (474.9 to 543.1)	818.0 (763.7 to 879.0)	60.3 (46.21 to 75.28)	13.7 (12.7 to 14.5)	13.0 (12.1 to 13.9)	-5.0 (-13.01 to 3.61)
Liver cancer secondary to hepatitis B	198.4 (181.7 to 215.4)	300.0 (272.0 to 329.2)	51.6 (33.51 to 72.02)	5.1 (4.7 to 5.5)	4.6 (4.2 to 5.1)	-9.1 (-19.63 to 2.69)
Liver cancer secondary to hepatitis C	87.4 (79.5 to 94.7)	342.5 (317.1 to 375.3)	290.8 (251.46 to 342.52)	2.4 (2.2 to 2.6)	5.5 (5.1 to 6.0)	125.4 (103.82 to 154.85)
Liver cancer secondary to alcohol use	122.8 (113.8 to 132.5)	92.2 (84.8 to 100.3)	-25.2 (-31.20 to -17.09)	3.5 (3.2 to 3.7)	1.5 (1.4 to 1.6)	-56.4 (-59.87 to -51.82)
Other liver cancer	101.5 (92.8 to 110.0)	83.3 (75.1 to 92.2)	-17.5 (-28.57 to -7.02)	2.6 (2.4 to 2.9)	1.3 (1.2 to 1.4)	-50.5 (-56.97 to -44.23)
Larynx cancer	76.2 (62.7 to 88.1)	87.6 (74.3 to 106.2)	14.2 (7.25 to 27.55)	2.1 (1.7 to 2.4)	1.4 (1.2 to 1.7)	-33.4 (-37.26 to -26.29)
Tracheal, bronchus, and lung cancer	1050.0 (1010.6 to 1078.2)	1639.6 (1565.6 to 1706.0)	56.5 (47.83 to 62.84)	29.6 (28.5 to 30.4)	27.0 (25.7 to 28.1)	-8.7 (-14.40 to -5.16)
Breast cancer	327.3 (289.2 to 366.8)	471.0 (412.0 to 514.2)	44.2 (35.01 to 51.82)	9.0 (7.9 to 10.1)	7.4 (6.4 to 8.1)	-17.5 (-23.42 to -13.38)
Cervical cancer	196.3 (162.9 to 212.4)	235.7 (201.9 to 257.9)	20.1 (10.74 to 30.15)	5.2 (4.3 to 5.6)	3.6 (3.1 to 4.0)	-30.1 (-35.55 to -24.13)
Uterine cancer	45.6 (36.6 to 55.6)	67.7 (53.6 to 79.0)	48.6 (30.64 to 64.39)	1.3 (1.0 to 1.6)	1.1 (0.9 to 1.3)	-15.0 (-24.61 to -6.58)
Prostate cancer	157.1 (124.0 to 193.1)	292.7 (242.2 to 373.9)	82.8 (71.77 to 109.02)	5.1 (4.0 to 6.3)	5.2 (4.3 to 6.6)	-1.0 (-7.17 to 13.05)
Colon and rectum cancer	490.2 (476.1 to 504.5)	771.1 (741.5 to 799.2)	57.4 (51.89 to 62.64)	14.5 (14.1 to 14.9)	12.8 (12.4 to 13.3)	-11.1 (-14.40 to -8.17)
Lip and oral cavity cancer	83.9 (74.0 to 96.2)	135.0 (115.3 to 154.3)	59.7 (46.91 to 78.39)	2.3 (2.0 to 2.6)	2.1 (1.8 to 2.5)	-7.9 (-14.96 to 2.32)
Nasopharynx cancer	53.7 (47.7 to 63.5)	60.5 (54.0 to 69.5)	12.7 (1.19 to 24.74)	1.4 (1.2 to 1.6)	0.9 (0.8 to 1.1)	-32.5 (-39.31 to -25.55)
Other pharynx cancer	48.9 (43.7 to 53.5)	78.6 (67.0 to 86.3)	60.9 (43.26 to 76.41)	1.3 (1.2 to 1.4)	1.2 (1.0 to 1.3)	-7.1 (-16.97 to 2.04)
Gallbladder and biliary tract cancer	115.4 (100.6 to 130.4)	139.5 (120.0 to 155.0)	22.1 (6.85 to 32.36)	3.4 (3.0 to 3.9)	2.3 (2.0 to 2.6)	-31.2 (-39.96 to -25.22)
Pancreatic cancer	186.4 (181.3 to 191.8)	352.4 (339.4 to 364.8)	89.0 (82.43 to 95.46)	5.4 (5.3 to 5.6)	5.9 (5.6 to 6.1)	7.4 (3.63 to 11.04)
Malignant skin melanoma	38.7 (30.1 to 50.9)	56.9 (43.9 to 75.7)	47.6 (31.54 to 57.81)	1.1 (0.8 to 1.4)	0.9 (0.7 to 1.2)	-14.1 (-23.86 to -8.06)
Non-melanoma skin cancer	25.0 (20.2 to 30.0)	39.2 (32.8 to 48.7)	55.0 (43.30 to 76.59)	0.8 (0.6 to 0.9)	0.7 (0.6 to 0.8)	-12.9 (-20.00 to -0.93)
Ovarian cancer	98.9 (93.1 to 106.1)	157.8 (147.5 to 169.5)	59.6 (50.81 to 68.88)	2.7 (2.6 to 2.9)	2.5 (2.3 to 2.7)	-7.8 (-12.97 to -2.56)
Testicular cancer	7.0 (5.4 to 8.2)	8.3 (6.3 to 10.4)	18.4 (8.86 to 35.42)	0.2 (0.1 to 0.2)	0.1 (0.1 to 0.1)	-23.0 (-28.60 to -11.08)
Kidney cancer	77.9 (73.8 to 83.0)	133.8 (126.0 to 141.1)	71.8 (63.06 to 81.02)	2.1 (2.0 to 2.3)	2.2 (2.0 to 2.3)	1.6 (-3.95 to 8.11)
Bladder cancer	130.8 (116.6 to 140.9)	173.9 (156.8 to 192.5)	32.2 (27.35 to 43.06)	4.0 (3.5 to 4.3)	3.0 (2.7 to 3.3)	-25.6 (-28.36 to -20.14)
Brain and nervous system cancers	136.0 (116.6 to 155.2)	203.9 (169.5 to 234.8)	50.4 (34.04 to 60.33)	3.3 (2.8 to 3.8)	3.1 (2.6 to 3.6)	-4.6 (-13.99 to 0.96)
Thyroid cancer	23.8 (20.3 to 26.1)	33.7 (29.6 to 38.2)	41.1 (29.80 to 59.27)	0.7 (0.6 to 0.8)	0.6 (0.5 to 0.6)	-19.6 (-25.50 to -9.09)
Mesothelioma	17.0 (15.2 to 20.3)	33.7 (29.4 to 38.7)	100.5 (69.94 to 115.47)	0.5 (0.4 to 0.6)	0.5 (0.5 to 0.6)	16.2 (-2.42 to 24.92)
Hodgkin lymphoma	33.6 (24.1 to 38.0)	24.2 (22.0 to 31.6)	-33.0 (-40.41 to 15.35)	0.8 (0.5 to 0.8)	0.4 (0.3 to 0.5)	-54.9 (-58.93 to -24.34)
Non-Hodgkin lymphoma	133.6 (116.3 to 158.0)	225.5 (186.3 to 245.8)	72.0 (41.51 to 84.35)	3.5 (3.1 to 4.2)	3.6 (2.9 to 3.9)	6.1 (-14.56 to 13.42)
Multiple myeloma	45.3 (37.4 to 57.4)	79.4 (65.3 to 94.2)	77.1 (53.64 to 90.08)	1.3 (1.1 to 1.7)	1.3 (1.1 to 1.6)	0.4 (-13.32 to 8.27)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Leukaemia	223.8 (215.1 to 234.2)	265.1 (253.9 to 275.8)	18.7 (11.69 to 24.19)	5.2 (5.0 to 5.4)	4.1 (3.9 to 4.3)	-20.0 (-24.12 to -16.68)
Other neoplasms	250.6 (231.8 to 305.2)	369.6 (328.0 to 400.1)	51.3 (15.57 to 62.10)	6.2 (5.8 to 7.3)	5.8 (5.2 to 6.3)	-4.2 (-23.44 to 3.32)
Cardiovascular diseases	12 279.6 (11 776.6 to 12 764.1)	17 297.5 (16 520.2 to 18 071.9)	40.8 (36.17 to 46.36)	375.5 (360.5 to 389.1)	293.2 (280.4 to 306.1)	-22.0 (-24.50 to -19.07)
Rheumatic heart disease	373.5 (302.5 to 464.6)	275.1 (222.6 to 353.9)	-26.5 (-33.64 to -17.20)	9.8 (7.9 to 12.2)	4.4 (3.5 to 5.6)	-55.4 (-59.47 to -50.11)
Ischaemic heart disease	5737.5 (5254.9 to 6148.6)	8139.9 (7322.9 to 8758.5)	41.7 (35.96 to 48.44)	177.3 (161.8 to 190.2)	137.8 (123.9 to 148.2)	-22.3 (-25.48 to -18.68)
Cerebrovascular disease	4584.8 (4162.1 to 4968.1)	6446.9 (5963.0 to 7155.2)	40.2 (34.43 to 49.56)	141.6 (128.5 to 153.9)	110.1 (101.8 to 122.2)	-22.5 (-25.56 to -17.30)
Ischaemic stroke	2182.9 (1923.3 to 2430.9)	3272.9 (2812.7 to 3592.6)	50.2 (41.02 to 59.27)	71.3 (63.0 to 79.3)	57.3 (49.3 to 62.9)	-19.6 (-24.52 to -14.97)
Haemorrhagic stroke	2401.9 (2109.4 to 2669.1)	3174.0 (2885.7 to 3719.7)	30.7 (22.23 to 49.07)	70.3 (61.2 to 77.9)	52.8 (48.0 to 62.3)	-25.9 (-30.64 to -14.73)
Hypertensive heart disease	622.1 (525.7 to 783.9)	1068.6 (849.8 to 1242.2)	74.1 (47.34 to 93.73)	19.3 (16.4 to 24.4)	18.2 (14.5 to 21.3)	-4.5 (-18.86 to 6.41)
Cardiomyopathy and myocarditis	293.9 (243.5 to 346.3)	443.3 (370.1 to 512.0)	51.4 (37.27 to 61.45)	8.2 (6.9 to 9.6)	7.1 (6.0 to 8.3)	-12.6 (-19.98 to -7.68)
Atrial fibrillation and flutter	28.9 (26.0 to 32.4)	112.2 (97.7 to 126.7)	288.1 (246.32 to 335.03)	1.0 (0.9 to 1.1)	2.0 (1.8 to 2.3)	100.0 (77.55 to 124.90)
Aortic aneurysm	99.6 (82.4 to 118.5)	151.5 (124.2 to 180.0)	52.1 (43.75 to 60.91)	3.0 (2.5 to 3.6)	2.6 (2.1 to 3.1)	-15.3 (-20.06 to -10.50)
Peripheral vascular disease	15.9 (14.4 to 17.5)	40.5 (35.5 to 44.9)	155.3 (126.51 to 178.39)	0.5 (0.5 to 0.6)	0.7 (0.6 to 0.8)	34.1 (18.77 to 46.62)
Endocarditis	45.1 (35.6 to 58.6)	65.0 (48.6 to 79.4)	46.3 (23.88 to 65.52)	1.2 (1.0 to 1.6)	1.0 (0.8 to 1.3)	-12.7 (-25.81 to -2.80)
Other cardiovascular and circulatory diseases	478.3 (403.9 to 546.4)	554.6 (499.1 to 654.2)	15.2 (9.38 to 32.52)	13.6 (11.5 to 15.5)	9.3 (8.3 to 10.8)	-32.2 (-35.44 to -22.40)
Chronic respiratory diseases	3490.2 (3280.4 to 3795.3)	4267.5 (3996.3 to 4694.2)	21.9 (14.95 to 31.48)	104.5 (98.5 to 113.3)	73.0 (68.4 to 80.2)	-30.4 (-34.19 to -25.05)
Chronic obstructive pulmonary disease	2421.3 (2151.3 to 2632.4)	2931.2 (2626.3 to 3215.8)	21.0 (12.70 to 31.26)	74.8 (66.8 to 81.2)	50.7 (45.4 to 55.6)	-32.3 (-36.75 to -26.54)
Pneumoconiosis	251.2 (184.0 to 317.8)	259.7 (201.7 to 331.2)	1.9 (-15.21 to 40.27)	7.2 (5.3 to 9.0)	4.3 (3.3 to 5.5)	-40.5 (-50.81 to -19.84)
Silicosis	55.4 (36.7 to 77.1)	46.3 (32.1 to 64.8)	-16.0 (-32.85 to 6.14)	1.6 (1.0 to 2.2)	0.8 (0.5 to 1.1)	-50.7 (-61.18 to -38.06)
Asbestosis	21.0 (13.9 to 30.4)	24.1 (17.5 to 32.3)	14.2 (-10.20 to 54.87)	0.6 (0.4 to 0.9)	0.4 (0.3 to 0.5)	-32.6 (-47.35 to -9.61)
Coal workers pneumoconiosis	28.9 (18.2 to 43.9)	25.2 (19.0 to 35.6)	-13.7 (-30.65 to 23.06)	0.8 (0.5 to 1.2)	0.4 (0.3 to 0.6)	-50.2 (-60.26 to -29.13)
Other pneumoconiosis	145.9 (100.3 to 189.2)	164.1 (123.1 to 213.6)	10.9 (-13.48 to 61.23)	4.2 (2.9 to 5.5)	2.7 (2.0 to 3.6)	-35.3 (-50.19 to -6.77)
Asthma	504.3 (399.7 to 731.8)	489.0 (397.7 to 676.8)	-2.9 (-24.58 to 19.21)	13.7 (10.8 to 20.4)	8.0 (6.5 to 11.1)	-41.5 (-55.17 to -28.01)
Interstitial lung disease and pulmonary sarcoidosis	217.6 (128.7 to 299.4)	471.5 (372.3 to 606.8)	114.1 (53.25 to 214.86)	6.6 (3.9 to 8.9)	8.0 (6.3 to 10.3)	20.1 (-11.89 to 74.20)
Other chronic respiratory diseases	95.8 (78.3 to 113.8)	116.1 (99.2 to 136.9)	21.2 (7.78 to 40.66)	2.2 (1.8 to 2.7)	1.9 (1.6 to 2.3)	-15.1 (-24.22 to -3.39)
Cirrhosis of the liver	838.0 (807.0 to 866.7)	1221.1 (1170.3 to 1284.3)	45.6 (38.47 to 54.52)	21.8 (20.9 to 22.5)	18.8 (18.0 to 19.7)	-13.7 (-17.75 to -8.49)
Cirrhosis of the liver secondary to hepatitis B	233.9 (220.8 to 250.0)	317.4 (292.3 to 344.6)	35.6 (22.66 to 49.58)	6.1 (5.7 to 6.5)	4.9 (4.5 to 5.3)	-19.3 (-26.86 to -11.11)
Cirrhosis of the liver secondary to hepatitis C	213.1 (200.4 to 226.7)	357.8 (334.3 to 386.1)	67.3 (54.60 to 83.86)	5.7 (5.4 to 6.0)	5.6 (5.2 to 6.0)	-2.4 (-9.58 to 7.48)
Cirrhosis of the liver secondary to alcohol use	292.2 (276.5 to 307.1)	383.8 (356.2 to 414.7)	31.2 (20.27 to 43.97)	7.8 (7.4 to 8.2)	5.9 (5.5 to 6.4)	-24.1 (-30.24 to -16.92)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Other cirrhosis of the liver	98.8 (92.1 to 106.0)	162.1 (145.5 to 182.9)	63.5 (47.65 to 86.21)	2.2 (2.0 to 2.3)	2.4 (2.1 to 2.7)	9.3 (-1.52 to 24.19)
Digestive diseases	1053.2 (958.6 to 1131.2)	1168.3 (1064.4 to 1275.5)	10.4 (2.11 to 22.38)	28.4 (25.8 to 30.5)	19.0 (17.4 to 20.7)	-33.5 (-38.30 to -26.51)
Peptic ulcer disease	326.9 (288.8 to 388.7)	301.4 (249.8 to 350.5)	-7.6 (-21.26 to 5.52)	9.1 (8.0 to 10.7)	4.9 (4.1 to 5.7)	-45.8 (-53.37 to -38.53)
Gastritis and duodenitis	54.2 (32.1 to 76.3)	59.5 (42.2 to 90.1)	5.8 (-13.46 to 50.38)	1.4 (0.8 to 2.0)	1.0 (0.7 to 1.5)	-35.1 (-46.54 to -6.86)
Appendicitis	87.5 (70.8 to 105.9)	71.9 (51.4 to 89.5)	-17.8 (-34.66 to 2.68)	2.0 (1.6 to 2.4)	1.1 (0.8 to 1.4)	-45.7 (-56.37 to -33.27)
Paralytic ileus and intestinal obstruction	178.0 (116.3 to 228.5)	235.7 (175.6 to 327.0)	29.4 (11.32 to 68.61)	4.7 (3.1 to 6.1)	3.8 (2.8 to 5.3)	-20.3 (-31.07 to 1.80)
Inguinal, femoral, and abdominal hernia	50.5 (33.2 to 61.2)	32.5 (25.6 to 48.8)	-41.8 (-49.26 to -4.88)	1.4 (0.9 to 1.7)	0.5 (0.4 to 0.8)	-64.8 (-69.29 to -44.12)
Inflammatory bowel disease	54.9 (40.4 to 67.2)	51.2 (42.4 to 69.7)	-8.7 (-17.41 to 13.01)	1.4 (1.0 to 1.6)	0.8 (0.7 to 1.1)	-41.8 (-47.30 to -25.30)
Vascular intestinal disorders	52.6 (34.7 to 78.4)	79.5 (51.9 to 113.3)	51.8 (36.03 to 67.16)	1.6 (1.1 to 2.4)	1.4 (0.9 to 1.9)	-16.3 (-24.49 to -8.10)
Gallbladder and biliary diseases	80.5 (68.9 to 94.1)	105.9 (89.1 to 122.3)	32.2 (18.76 to 43.46)	2.4 (2.0 to 2.8)	1.8 (1.5 to 2.1)	-24.5 (-31.76 to -18.21)
Pancreatitis	83.0 (59.2 to 111.3)	122.6 (85.9 to 152.3)	49.1 (16.02 to 76.94)	2.1 (1.5 to 2.9)	1.9 (1.3 to 2.4)	-10.2 (-29.33 to 5.74)
Other digestive diseases	85.2 (73.3 to 99.5)	108.0 (90.4 to 124.2)	27.1 (14.25 to 39.04)	2.3 (2.0 to 2.6)	1.8 (1.5 to 2.0)	-21.9 (-29.04 to -15.13)
Neurological disorders	1017.5 (965.0 to 1072.3)	1976.8 (1875.0 to 2080.7)	94.0 (83.99 to 106.61)	34.2 (32.3 to 36.1)	35.0 (33.2 to 36.9)	2.3 (-3.27 to 9.08)
Alzheimer's disease and other dementias	795.8 (747.9 to 844.3)	1655.1 (1563.5 to 1765.3)	107.2 (94.94 to 124.00)	28.9 (27.1 to 30.7)	29.9 (28.2 to 31.9)	3.2 (-3.01 to 11.61)
Parkinson's disease	43.7 (38.3 to 55.1)	102.5 (79.3 to 112.6)	139.8 (77.36 to 156.99)	1.5 (1.3 to 1.9)	1.8 (1.4 to 2.0)	28.2 (-6.42 to 37.83)
Epilepsy	111.0 (95.5 to 129.9)	115.8 (93.7 to 132.0)	4.7 (-12.05 to 24.00)	2.2 (1.9 to 2.5)	1.7 (1.3 to 1.9)	-22.4 (-33.73 to -10.21)
Multiple sclerosis	12.4 (9.2 to 19.0)	19.8 (12.8 to 25.5)	64.8 (3.60 to 87.09)	0.3 (0.2 to 0.5)	0.3 (0.2 to 0.4)	-1.1 (-38.78 to 11.91)
Other neurological disorders	54.6 (47.1 to 60.8)	83.7 (71.8 to 90.8)	54.2 (37.88 to 60.72)	1.4 (1.2 to 1.5)	1.3 (1.1 to 1.4)	-3.6 (-10.27 to 0.43)
Mental and substance use disorders	188.3 (157.2 to 242.3)	282.4 (233.9 to 329.3)	51.5 (32.26 to 63.84)	4.3 (3.6 to 5.7)	4.0 (3.3 to 4.7)	-5.7 (-18.55 to 2.10)
Schizophrenia	22.8 (14.7 to 28.3)	16.0 (13.7 to 22.8)	-35.5 (-46.52 to 29.94)	0.6 (0.4 to 0.7)	0.2 (0.2 to 0.3)	-59.7 (-66.47 to -20.07)
Alcohol use disorders	111.9 (84.0 to 165.3)	139.2 (90.2 to 178.5)	28.2 (1.78 to 35.66)	2.7 (2.0 to 3.9)	2.0 (1.3 to 2.6)	-22.0 (-38.53 to -17.54)
Drug use disorders	53.2 (47.8 to 64.1)	126.6 (110.8 to 135.5)	140.4 (101.60 to 159.88)	1.1 (1.0 to 1.3)	1.8 (1.6 to 1.9)	63.0 (36.10 to 74.81)
Opioid use disorders	18.0 (16.5 to 22.2)	50.7 (43.4 to 54.4)	187.3 (134.80 to 210.24)	0.4 (0.3 to 0.5)	0.7 (0.6 to 0.8)	92.7 (56.69 to 107.16)
Cocaine use disorders	2.4 (2.2 to 2.9)	4.3 (3.9 to 4.7)	77.2 (49.11 to 102.26)	0.1 (0.0 to 0.1)	0.1 (0.1 to 0.1)	20.9 (1.97 to 36.34)
Amphetamine use disorders	2.1 (1.9 to 2.5)	3.8 (3.4 to 4.1)	80.4 (52.49 to 106.70)	0.0 (0.0 to 0.1)	0.1 (0.0 to 0.1)	23.2 (4.70 to 40.49)
Other drug use disorders	30.7 (26.1 to 37.3)	67.7 (59.5 to 72.8)	122.8 (86.51 to 146.32)	0.6 (0.6 to 0.8)	1.0 (0.8 to 1.0)	51.6 (26.34 to 65.39)
Eating disorders	0.4 (0.3 to 0.4)	0.6 (0.5 to 0.7)	60.4 (41.17 to 84.68)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	13.5 (-0.42 to 30.16)
Anorexia nervosa	0.4 (0.3 to 0.4)	0.6 (0.5 to 0.7)	60.4 (41.17 to 84.68)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	13.5 (-0.42 to 30.16)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Diabetes, urogenital, blood, and endocrine diseases	1569.4 (1456.7 to 1709.2)	2955.0 (2764.0 to 3171.1)	88.9 (76.44 to 99.49)	42.2 (39.5 to 44.7)	48.3 (45.1 to 51.4)	14.4 (9.53 to 20.14)
Diabetes mellitus	684.3 (653.2 to 711.5)	1299.4 (1234.5 to 1374.8)	89.7 (81.77 to 99.94)	19.8 (18.9 to 20.6)	21.6 (20.6 to 22.9)	9.0 (4.59 to 14.69)
Acute glomerulonephritis	23.6 (13.7 to 33.4)	18.8 (14.3 to 22.8)	-21.4 (-36.96 to 14.96)	0.5 (0.3 to 0.8)	0.3 (0.2 to 0.3)	-45.8 (-55.70 to -21.57)
Chronic kidney disease	408.6 (363.8 to 433.4)	956.2 (812.9 to 1034.5)	134.6 (115.70 to 150.20)	11.6 (10.4 to 12.3)	15.8 (13.5 to 17.1)	36.9 (25.43 to 46.11)
Chronic kidney disease due to diabetes mellitus	46.3 (34.8 to 54.8)	173.1 (139.3 to 208.8)	274.1 (243.06 to 309.05)	1.4 (1.0 to 1.6)	2.9 (2.3 to 3.5)	106.5 (89.67 to 127.74)
Chronic kidney disease due to hypertension	120.0 (91.6 to 144.8)	275.7 (196.9 to 336.5)	130.6 (106.28 to 151.38)	3.6 (2.8 to 4.4)	4.6 (3.3 to 5.6)	29.4 (15.20 to 40.43)
Chronic kidney disease due to glomerulonephritis	99.0 (84.5 to 114.7)	116.3 (92.9 to 144.0)	16.9 (1.69 to 35.32)	2.5 (2.1 to 2.9)	1.8 (1.5 to 2.3)	-26.8 (-35.84 to -15.66)
Chronic kidney diseases due to other causes	143.3 (115.3 to 168.0)	391.2 (297.0 to 452.3)	175.3 (140.05 to 202.16)	4.1 (3.3 to 4.8)	6.5 (4.9 to 7.5)	58.8 (37.59 to 74.71)
Urinary diseases and male infertility due to other causes	151.4 (129.1 to 161.1)	245.8 (205.5 to 264.7)	62.8 (49.74 to 72.37)	4.3 (3.7 to 4.6)	4.1 (3.4 to 4.4)	-3.7 (-12.86 to 1.66)
Interstitial nephritis and urinary tract infections	109.9 (92.9 to 118.1)	175.5 (144.6 to 192.0)	58.9 (48.57 to 74.08)	3.1 (2.7 to 3.4)	2.9 (2.4 to 3.2)	-6.3 (-14.36 to 2.19)
Urolithiasis	15.1 (11.1 to 18.7)	14.7 (12.4 to 20.1)	-5.9 (-16.02 to 44.87)	0.4 (0.3 to 0.5)	0.2 (0.2 to 0.3)	-45.3 (-50.97 to -14.32)
Other urinary diseases	26.3 (21.9 to 35.0)	55.5 (40.4 to 66.5)	122.4 (69.54 to 151.57)	0.7 (0.6 to 1.0)	0.9 (0.7 to 1.1)	32.5 (2.75 to 50.04)
Gynaecological diseases	5.3 (3.9 to 7.0)	3.4 (2.9 to 4.8)	-36.7 (-47.76 to -14.33)	0.1 (0.1 to 0.2)	0.1 (0.0 to 0.1)	-59.5 (-67.15 to -45.56)
Uterine fibroids	1.2 (0.9 to 1.7)	0.9 (0.7 to 1.2)	-29.7 (-43.96 to -6.20)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-57.8 (-66.54 to -43.72)
Polycystic ovarian syndrome	0.2 (0.1 to 0.3)	0.1 (0.1 to 0.2)	-56.2 (-63.48 to -29.90)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-68.5 (-73.81 to -49.56)
Endometriosis	0.5 (0.4 to 0.6)	0.2 (0.2 to 0.4)	-54.7 (-62.11 to -29.37)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-68.9 (-74.05 to -51.25)
Genital prolapse	0.9 (0.7 to 1.2)	0.6 (0.5 to 0.9)	-29.9 (-44.02 to -8.28)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	-55.7 (-65.45 to -42.31)
Other gynaecological diseases	2.5 (1.8 to 3.2)	1.6 (1.3 to 2.2)	-37.4 (-48.19 to -15.38)	0.1 (0.0 to 0.1)	0.0 (0.0 to 0.0)	-59.7 (-67.23 to -46.18)
Haemoglobinopathies and haemolytic anaemias	182.7 (91.5 to 302.5)	240.4 (106.0 to 456.1)	20.6 (-1.35 to 92.91)	3.1 (1.6 to 5.0)	3.4 (1.5 to 6.3)	0.4 (-19.05 to 51.95)
Thalassaemias	36.2 (21.2 to 49.4)	24.8 (16.9 to 32.1)	-36.4 (-46.90 to 14.05)	0.6 (0.3 to 0.8)	0.3 (0.2 to 0.4)	-43.7 (-52.63 to -2.83)
Sickle cell disorders	112.9 (39.4 to 222.6)	176.2 (56.3 to 385.7)	45.3 (14.30 to 131.19)	1.8 (0.6 to 3.4)	2.4 (0.8 to 5.3)	28.8 (1.53 to 94.35)
G6PD deficiency	3.4 (2.0 to 4.6)	4.1 (2.6 to 5.6)	12.7 (-7.12 to 91.90)	0.1 (0.0 to 0.1)	0.1 (0.0 to 0.1)	-8.2 (-23.19 to 45.12)
Other haemoglobinopathies and haemolytic anaemias	30.3 (19.8 to 38.6)	35.4 (24.3 to 44.9)	15.1 (3.42 to 46.66)	0.8 (0.5 to 1.0)	0.6 (0.4 to 0.7)	-25.8 (-31.66 to -9.80)
Endocrine, metabolic, blood, and immune disorders	113.5 (90.6 to 134.4)	191.0 (150.5 to 218.5)	69.5 (49.11 to 85.62)	2.7 (2.2 to 3.2)	3.0 (2.4 to 3.4)	11.6 (0.55 to 20.87)
Musculoskeletal disorders	65.9 (55.0 to 73.4)	116.3 (100.4 to 137.7)	77.1 (54.42 to 105.22)	1.7 (1.5 to 1.9)	1.9 (1.6 to 2.2)	8.5 (-4.62 to 23.48)
Rheumatoid arthritis	27.8 (23.8 to 31.7)	38.1 (33.0 to 46.9)	35.6 (16.43 to 64.74)	0.8 (0.7 to 0.9)	0.6 (0.5 to 0.8)	-20.5 (-31.22 to -4.53)
Other musculoskeletal disorders	38.1 (30.3 to 44.1)	78.2 (65.2 to 90.3)	107.2 (76.94 to 145.59)	0.9 (0.8 to 1.1)	1.2 (1.0 to 1.4)	32.7 (14.17 to 51.37)
Other non-communicable diseases	831.7 (690.7 to 1061.0)	746.6 (674.1 to 846.2)	-7.6 (-25.31 to 4.05)	12.9 (10.9 to 16.1)	10.5 (9.5 to 11.9)	-16.4 (-30.83 to -7.20)

(Table 2 continues on next page)

	All ages deaths (thousands)			Age-standardised death rate (per 100 000)		
	1990	2013	Median % change	1990	2013	Median % change
(Continued from previous page)						
Congenital anomalies	750.6 (611.8 to 969.7)	632.1 (561.3 to 730.3)	-13.5 (-30.40 to -0.80)	11.0 (9.0 to 14.1)	8.7 (7.7 to 10.0)	-18.9 (-34.07 to -7.54)
Neural tube defects	151.3 (109.1 to 256.3)	68.9 (40.9 to 124.4)	-54.8 (-65.35 to -42.39)	2.1 (1.5 to 3.6)	0.9 (0.6 to 1.7)	-56.6 (-66.71 to -44.61)
Congenital heart anomalies	366.2 (293.0 to 485.2)	323.4 (288.3 to 372.6)	-9.8 (-29.83 to 7.37)	5.4 (4.4 to 7.0)	4.5 (4.0 to 5.1)	-15.8 (-33.64 to -0.61)
Orofacial clefts	7.6 (4.2 to 11.5)	3.3 (1.9 to 5.2)	-57.8 (-68.83 to -33.93)	0.1 (0.1 to 0.2)	0.0 (0.0 to 0.1)	-58.5 (-69.40 to -35.04)
Down's syndrome	42.5 (16.4 to 73.0)	36.4 (20.4 to 52.4)	-12.9 (-39.13 to 40.14)	0.7 (0.3 to 1.1)	0.5 (0.3 to 0.7)	-22.6 (-45.11 to 19.89)
Chromosomal unbalanced rearrangements	19.1 (8.5 to 41.2)	17.3 (10.6 to 26.8)	5.5 (-40.18 to 35.89)	0.3 (0.1 to 0.6)	0.2 (0.1 to 0.4)	-3.0 (-43.13 to 25.13)
Other congenital anomalies	163.9 (119.9 to 301.9)	182.8 (150.2 to 261.9)	18.0 (-16.45 to 40.74)	2.4 (1.8 to 4.4)	2.5 (2.1 to 3.6)	8.5 (-20.90 to 29.30)
Skin and subcutaneous diseases	59.1 (54.1 to 63.1)	99.4 (89.9 to 107.3)	68.3 (51.36 to 86.44)	1.6 (1.5 to 1.7)	1.6 (1.5 to 1.8)	2.5 (-7.66 to 10.83)
Cellulitis	27.0 (19.0 to 34.1)	29.5 (22.5 to 39.3)	8.0 (-5.23 to 30.03)	0.7 (0.5 to 0.8)	0.5 (0.4 to 0.6)	-29.8 (-38.47 to -16.25)
Pyoderma	16.7 (11.6 to 23.1)	37.7 (30.2 to 42.9)	129.9 (71.83 to 186.99)	0.4 (0.3 to 0.6)	0.6 (0.5 to 0.7)	44.0 (14.02 to 75.43)
Decubitus ulcer	13.7 (11.5 to 16.9)	28.5 (24.4 to 33.0)	109.6 (82.53 to 132.42)	0.5 (0.4 to 0.6)	0.5 (0.4 to 0.6)	8.3 (-4.81 to 19.09)
Other skin and subcutaneous diseases	1.7 (1.2 to 2.2)	3.8 (3.0 to 4.9)	138.4 (74.18 to 201.77)	0.0 (0.0 to 0.1)	0.1 (0.0 to 0.1)	35.9 (4.37 to 69.36)
Sudden infant death syndrome	22.0 (12.7 to 40.2)	15.1 (9.6 to 21.4)	-29.5 (-54.51 to -4.22)	0.3 (0.2 to 0.6)	0.2 (0.1 to 0.3)	-31.0 (-55.52 to -6.34)
Injuries	4325.8 (4095.7 to 4524.0)	4786.9 (4507.9 to 5072.8)	10.4 (4.23 to 18.04)	88.5 (84.5 to 93.0)	70.0 (65.9 to 74.2)	-21.0 (-25.27 to -15.85)
Transport injuries	1150.0 (1092.9 to 1253.9)	1482.7 (1364.8 to 1588.8)	29.3 (17.11 to 38.66)	23.2 (22.1 to 25.1)	21.2 (19.5 to 22.7)	-8.4 (-16.54 to -2.02)
Road injuries	1058.4 (1005.0 to 1167.2)	1395.8 (1286.1 to 1492.7)	32.4 (19.21 to 41.84)	21.3 (20.3 to 23.4)	20.0 (18.4 to 21.3)	-6.1 (-15.12 to 0.28)
Pedestrian road injuries	389.7 (339.6 to 472.0)	543.8 (452.0 to 629.1)	40.2 (17.55 to 58.63)	8.0 (7.0 to 9.6)	8.0 (6.7 to 9.2)	0.1 (-15.84 to 12.51)
Cyclist road injuries	68.6 (58.5 to 83.3)	90.6 (74.2 to 106.6)	32.0 (13.51 to 51.06)	1.4 (1.2 to 1.7)	1.3 (1.1 to 1.6)	-7.5 (-20.14 to 5.51)
Motorcyclist road injuries	202.0 (169.3 to 236.4)	248.5 (200.9 to 294.4)	22.8 (7.72 to 40.45)	3.9 (3.2 to 4.5)	3.4 (2.8 to 4.0)	-12.2 (-22.77 to 0.56)
Motor vehicle road injuries	364.4 (324.4 to 409.1)	492.7 (431.0 to 555.1)	35.5 (24.24 to 46.49)	7.3 (6.5 to 8.2)	6.9 (6.1 to 7.8)	-4.9 (-12.90 to 2.69)
Other road injuries	33.8 (21.9 to 44.1)	20.2 (14.4 to 25.5)	-40.7 (-54.01 to -7.44)	0.7 (0.4 to 0.9)	0.3 (0.2 to 0.4)	-57.3 (-67.23 to -34.33)
Other transport injuries	91.6 (77.4 to 102.0)	86.9 (72.0 to 97.2)	-5.3 (-18.27 to 10.72)	1.9 (1.6 to 2.1)	1.2 (1.0 to 1.4)	-33.6 (-42.61 to -22.72)
Unintentional injuries other than transport injuries	2017.2 (1848.6 to 2165.7)	2006.7 (1857.1 to 2183.1)	-1.0 (-8.96 to 10.95)	40.8 (38.2 to 43.8)	30.4 (28.0 to 32.9)	-25.7 (-31.89 to -18.23)
Falls	340.5 (311.7 to 411.5)	556.4 (448.5 to 610.7)	66.7 (21.25 to 82.98)	9.0 (8.2 to 10.8)	9.1 (7.3 to 9.9)	3.4 (-23.97 to 11.61)
Drowning	544.9 (409.2 to 635.8)	368.1 (311.0 to 515.4)	-35.0 (-43.35 to 17.98)	9.4 (7.2 to 10.8)	5.2 (4.4 to 7.3)	-46.3 (-52.33 to -6.00)
Fire, heat, and hot substances	299.6 (262.7 to 352.9)	237.5 (199.3 to 282.9)	-21.2 (-33.96 to -1.98)	5.9 (5.2 to 7.0)	3.5 (2.9 to 4.1)	-41.9 (-50.85 to -29.74)
Poisonings	120.2 (104.1 to 168.5)	98.0 (70.2 to 110.8)	-12.7 (-44.83 to -0.08)	2.4 (2.1 to 3.3)	1.4 (1.0 to 1.6)	-36.0 (-58.97 to -27.57)
Exposure to mechanical forces	232.7 (186.3 to 273.9)	196.8 (177.9 to 244.6)	-15.6 (-31.65 to 18.68)	4.1 (3.4 to 4.8)	2.8 (2.5 to 3.5)	-32.6 (-43.48 to -9.05)

(Table 2 continues on next page)