

## Supplementary material

### Supplementary Methods

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## **Supplementary Methods**

### **GBD Database**

The Global Burden of Disease (GBD) 2021 study, supported by more than 11 500 collaborators from 164 countries, examined an overall range of data sources, including vital registration systems, censuses, household surveys, specific disease registries, verbal autopsies, health service contact data, and other relevant sources, to systematically assess the state of global health and burden of diseases worldwide. This database comprises a comprehensive compilation of 371 causes of disease and injury, systematically organized within three groups: communicable, maternal, neonatal, and nutritional diseases; non-communicable diseases; and injuries. In this study, we used the GBD 2021 to assess the trends for infectious diseases burden in children under 5 years old.

### **Metrics of measures**

We recorded the absolute numbers and rates of deaths and disability-adjusted life-years (DALYs) for all causes of infectious disease. DALY is a widely employed metric that integrates the years of life lost due to premature mortality and the years lived with disability, serving as an objective measure in assessing population health outcomes. The burden of infections was described using the number and rate of mortality and DALYs, which were expressed as means with their corresponding 95% uncertainty intervals (UIs). The 95% UIs were defined as the range between the 2.5th and 97.5th percentiles, corresponding to the 25th and 975th ordered 1000 draw values of the posterior distribution. Additionally, the percentage changes (PCs) were computed by subtracting the initial value (for the year 1990) from the final value (for the year 2021), dividing it by the initial value, and then multiplying by 100.

### **Estimated annual percentage change**

We computed the estimated annual percentage change (EAPC) to depict the average annual percentage variation in disease burden from 1990 to 2021. The natural logarithm of deaths rate is assumed to fit the linear regressions model:

$$Y = \alpha + \beta x + \varepsilon$$

where  $Y$  is  $\ln$  (deaths rate),  $\alpha$  is a constant,  $\beta$  indicates the positive or negative changing trends,  $x$  refers to calendar year, and  $\varepsilon$  is error term. Therefore:

$$EAPC = 100 \times (e^{\beta} - 1)$$

The 95% confidence intervals (CIs) of EAPCs were determined by linear modeling. We interpreted the mortality rate as a significant increasing or decreasing trend if both the EAPC and its 95% CI were above or below zero, respectively. In cases where the 95% CI spanned zero, we regarded the change in mortality rates as statistically non-significant.

### **Socio-demographic index**

Sociodemographic Index (SDI) is a comprehensive measure of social development, which ranges from 0 to 1. The higher levels indicate greater socioeconomic development. All the countries and geographic regions were classified into 5 levels

according to the SDI values, including high SDI ( $> 0.81$ ), high-middle SDI (0.70–0.81), middle SDI (0.61–0.69), low-middle SDI (0.46–0.60), and low SDI ( $< 0.46$ ).

The non-parametric method of locally weighted scatterplot smoothing (LOESS) regression has been widely employed to model the correlation between two variables by fitting a smooth curve to the data, which can automatically determine the number, degree, and location of knots based on the data and span parameter. In our study, we applied LOESS regression to evaluate the relationship between burdens of infectious diseases among young children and SDI across 21 regions. The expected values were determined by performing a calculation that incorporated SDI and mortality rates across all locations. The Spearman correlation analysis was employed to calculate the  $r$  indices and  $p$  values, examining the association of deaths rate with SDI.

### **Change in deaths rate attributed to specific infections**

Drawing on the concept of population attributable fraction (PAF), we calculate the proportion of deaths that could be increased or decreased due to changes in the risk exposure levels of specific infections from the initial year to final year, relative to the actual deaths caused by that infection in both initial and final years. The formula is as follows:

$$\text{Change in disease burden contributed by certain infection} = p_c \times (1 - 1/RR)$$

$RR$  represents the ratio of the mortality rate due to certain infection in initial year compared to its mortality rate in final year; and  $p_c$  represents the proportion of death cases due to that infection in initial year relative to the total number of deaths caused by the infection in both initial and final years. If the infection in final year is not controlled and thus higher than in initial year, resulting in an  $RR$  less than 1, the formula's outcome will be negative. Conversely, if the infection in final year is effectively controlled and lower than in initial year, with an  $RR$  greater than 1, the result will be positive.

For example, the global number of deaths due to HIV/AIDS and sexually transmitted infections in 1990 and 2021 were 130,340.5195 and 92,742.36329, respectively. The population of under-5 children in 1990 and 2021 were 619,937,922 and 658,171,689.3, respectively.  $RR$  represents the ratio of the mortality rate due to HIV/AIDS and sexually transmitted infections in 1990 compared to that mortality rate in 2021 (that is, 1.492), indicating that this infectious disease has been controlled. The proportion of death numbers attributed to this infection in 1990 accounts for 58.4% of the total deaths cases caused by this infection in both 1990 and 2021 ( $p_c$ ). Then  $PAF = 0.584 \times (1 - 0.670) = 0.193$  (that is, 19.3%), which means that there is a 19.3% decrease in the disease burden due to HIV/AIDS and sexually transmitted infections between the years 1990 and 2021.

**Table S1** Disease categories and included infections

<b>Category</b>	<b>Included Diseases</b>
Respiratory infections and tuberculosis	Lower respiratory infections Upper respiratory infections Otitis media Tuberculosis
Enteric infections	Diarrheal diseases Typhoid and paratyphoid Invasive Non-typhoidal Salmonella Other intestinal infectious diseases
HIV/AIDS and sexually transmitted infections	Sexually transmitted infections excluding HIV HIV/AIDS
Neonatal infections	Neonatal sepsis and other neonatal infections
Neglected tropical diseases and malaria	Malaria Dengue Leishmaniasis Schistosomiasis Cystic echinococcosis African trypanosomiasis Cysticercosis Chagas disease Zika virus disease Yellow fever Ebola virus disease Rabies Intestinal nematode infections Other neglected tropical diseases
Other infectious diseases	Pertussis Measles Diphtheria Varicella and herpes zoster Acute hepatitis Meningitis Encephalitis Tetanus Endocarditis Bacterial skin diseases Acute glomerulonephritis Rheumatic heart disease Other unspecified infectious diseases

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
<b>Children under 5 years old</b>					
Neonatal sepsis and other neonatal infections	304045.3 (269775.8, 338701.4)	49.0 (43.5, 54.6)	232656.3 (197143.8, 272484.7)	35.4 (30.0, 41.4)	-27.9 (-39.8, -13.5)
Lower respiratory infections	1944976.3 (1694280.4, 2219137.5)	313.7 (273.3, 358.0)	501909.5 (407757.0, 605404.9)	76.3 (62.0, 92.0)	-75.7 (-79.8, -70.7)
Diarrheal diseases	1636314.4 (1285401.8, 1930942.8)	264.0 (207.3, 311.5)	340429.2 (250952.3, 464258.4)	51.7 (38.1, 70.5)	-80.4 (-85.5, -74.0)
Malaria	494074.3 (264277.8, 912735.7)	79.7 (42.6, 147.2)	424386.2 (169320.3, 797104.8)	64.5 (25.7, 121.1)	-19.1 (-41.9, 2.8)
Meningitis	272225.1 (230421.2, 326872.7)	43.9 (37.2, 52.7)	91147.4 (63151.1, 129446.2)	13.9 (9.6, 19.7)	-68.5 (-76.6, -56.7)
Pertussis	224674.0 (99849.7, 471687.6)	36.2 (16.1, 76.1)	44481.1 (19854.1, 88764.6)	6.8 (3.0, 13.5)	-81.4 (-89.68, -64.39)
Sexually transmitted infections excluding HIV	86596.1 (31497.3, 167553.1)	14.0 (5.1, 27.0)	72148.1 (27129.4, 144529.5)	11.0 (4.1, 22.0)	-21.5 (-35.0, -7.4)
Measles	579314.8 (216222.2, 1167248.8)	93.5 (34.9, 188.3)	48137.9 (27267.0, 75009.0)	7.3 (4.1, 11.4)	-92.2 (-96.8, -78.8)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Tuberculosis	227744.8 (189326.7, 264326.8)	36.7 (30.5, 42.6)	55167.4 (39887.5, 71633.2)	8.38 (6.1, 10.9)	-77.2 (-82.9, -68.8)
Invasive Non-typhoidal Salmonella	24895.7 (13958.5, 41485.6)	4.0 (2.3, 6.7)	32898.0 (17814.9, 55743.3)	5.0 (2.7, 8.5)	24.5 (-1.3, 57.1)
HIV/AIDS	43744.4 (38062.5, 48832.6)	7.1 (6.1, 7.9)	20594.3 (15723.8, 27328.3)	3.1 (2.4, 4.2)	-55.7 (-66.0, -42.7)
Typhoid and paratyphoid	97109.8 (45719.3, 175642.1)	15.7 (7.4, 28.3)	42944.7 (20451.7, 78705.4)	6.5 (3.1, 12.0)	-58.4 (-70.1, -44.3)
Tetanus	152643.9 (91815.1, 201197.7)	24.6 (14.8, 32.5)	8811.2 (3556.5, 16168.3)	1.3 (0.5, 2.5)	-94.6 (-96.6, -90.7)
Other unspecified infectious diseases	31698.5 (15008.8, 41473.4)	5.1 (2.4, 6.7)	19708.8 (9262.5, 32917.9)	3.0 (1.4, 5.0)	-41.4 (-59.8, 17.4)
Encephalitis	38794.1 (27131.7, 48190.3)	6.3 (4.4, 7.8)	19992.7 (14157.5, 25319.8)	3.0 (2.2, 3.9)	-51.5 (-65.5, -27.9)
Acute hepatitis	49368.6 (40484.4, 59272.5)	8.0 (6.5, 9.6)	14128.8 (9064.0, 21991.8)	2.2 (1.4, 3.3)	-73.0 (-84.0, -56.4)
Acute hepatitis B	11123.2 (5097.6, 18022.5)	1.8 (0.8, 2.9)	5568.3 (3818.3, 7544.8)	0.85 (0.58, 1.15)	-52.8 (-74.5, 6.1)
Dengue	5754.5 (3164.6, 10248.8)	0.93 (0.51, 1.65)	5664.0 (3081.9, 8374.0)	0.86 (0.47, 1.27)	-7.3 (-67.2, 115.8)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Other neglected tropical diseases	7637.3 (5188.0, 12077.3)	1.2 (0.8, 2.0)	10521.4 (6032.1, 14334.0)	1.6 (0.9, 2.2)	29.8 (-39.8, 98.2)
Varicella and herpes zoster	6816.7 (5738.6, 8263.8)	1.10 (0.93, 1.33)	4309.2 (3314.5, 5378.0)	0.65 (0.50, 0.82)	-40.5 (-52.0, -26.1)
Upper respiratory infections	19554.9 (6325.0, 35677.7)	3.2 (1.0, 5.8)	10767.3 (1833.4, 26640.2)	1.6 (0.3, 4.1)	-48.1 (-80.5, -14.0)
Diphtheria	20113.1 (14776.6, 28400.2)	3.2 (2.4, 4.6)	2931.3 (1792.0, 4345.2)	0.45 (0.27, 0.66)	-86.3 (-90.7, -80.6)
Bacterial skin diseases	7361.4 (5716.9, 9387.5)	1.2 (0.9, 1.5)	3638.1 (2028.0, 5204.9)	0.55 (0.31, 0.79)	-53.5 (-71.1, -23.9)
Rabies	2513.4 (1683.2, 3671.5)	0.41 (0.27, 0.59)	959.7 (334.1, 1820.1)	0.15 (0.05, 0.28)	-64.0 (-86.6, -31.4)
Endocarditis	3014.1 (1516.6, 4082.9)	0.49 (0.24, 0.66)	1420.2 (933.0, 1832.0)	0.22 (0.14, 0.28)	-55.6 (-66.2, -31.5)
Rheumatic heart disease	10825.5 (8079.4, 14889.8)	1.75 (1.30, 2.40)	1974.6 (1381.2, 2658.0)	0.30 (0.21, 0.40)	-82.8 (-86.9, -77.1)
Leishmaniasis	23823.6 (8274.4, 64638.5)	3.84 (1.33, 10.43)	1603.5 (511.7, 4339.2)	0.24 (0.08, 0.66)	-93.7 (-95.2, -90.9)
Intestinal nematode infections	12975.2 (7607.7, 18282.5)	2.1 (1.2, 3.0)	2695.1 (1555.2, 3766.7)	0.41 (0.24, 0.57)	-80.4 (-85.4, -74.2)
Other intestinal infectious diseases	2801.4 (2128.1, 3626.8)	0.45 (0.34, 0.59)	842.7 (556.3, 1214.9)	0.13 (0.08, 0.18)	-71.7 (-81.5, -58.2)
Yellow fever	1823.9 (665.6, 4126.5)	0.29 (0.11, 0.67)	510.8 (171.7, 1195.8)	0.08 (0.03, 0.18)	-73.6 (-81.6, -61.9)
Ebola virus disease	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.2 (3.4, 4.9)	0.0 (0.0, 0.0)	NA
Otitis media	710.5 (383.6, 1320.6)	0.11 (0.06, 0.21)	198.9 (44.1, 653.3)	0.03 (0.01, 0.10)	-73.6 (-90.3, -37.8)
Acute glomerulonephritis	1154.4 (790.8, 1506.0)	0.19 (0.13, 0.24)	254.4 (131.8, 330.6)	0.04 (0.02, 0.05)	-79.3 (-86.3, -70.7)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Schistosomiasis	795.0 (579.9, 1083.8)	0.13 (0.09, 0.17)	347.8 (221.1, 479.4)	0.05 (0.03, 0.07)	-58.8 (-70.1, -44.8)
Cystic echinococcosis	1303.2 (878.2, 1844.1)	0.21 (0.14, 0.30)	158.8 (53.5, 304.7)	0.02 (0.01, 0.05)	-88.5 (-95.7, -77.6)
African trypanosomiasis	254.9 (105.8, 502.2)	0.04 (0.02, 0.08)	9.8 (3.2, 27.7)	0.0 (0.0, 0.0)	-96.4 (-98.3, -91.6)
Cysticercosis	189.9 (63.0, 370.9)	0.03 (0.01, 0.06)	62.4 (5.1, 144.6)	0.01 (0.00, 0.02)	-69.0 (-96.5, 1.1)
Chagas disease	12.7 (10.4, 15.5)	0.0 (0.0, 0.0)	1.2 (0.8, 2.0)	0.0 (0.0, 0.0)	-91.1 (-94.2, -85.8)
Zika virus disease	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.02 (0.01, 0.05)	3.0e-6 (1.2e-6, 7.5e-6)	NA
<b>Infants</b>					
Neonatal sepsis and other neonatal infections	302235.9 (268413.5, 336366.6)	236.6 (210.1, 263.3)	231342.5 (196032.3, 270886.0)	182.6 (154.7, 213.8)	-22.8 (-35.5, -7.5)
Lower respiratory infections	1320937.7 (1174747.5, 1470935.8)	1034.0 (919.6, 1151.4)	358131.0 (301308.8, 420585.4)	282.7 (237.8, 332.0)	-72.7 (-76.9, -67.0)
Diarrheal diseases	1036017.4 (820816.9, 1203655.3)	811.0 (642.5, 942.2)	214333.8 (164006.8, 285940.6)	169.2 (129.5, 225.7)	-79.1 (-84.3, -72.6)
Malaria	192374.2 (100248.7, 362363.7)	150.6 (78.5, 283.7)	171573.1 (65518.6, 341934.3)	135.4 (51.7, 269.9)	-10.1 (-36.7, 12.7)
Meningitis	142567.8 (122671.5, 171571.4)	111.6 (96.0, 134.3)	52075.4 (39048.2, 69301.6)	41.1 (30.8, 54.7)	-63.2 (-71.2, -50.2)
Pertussis	103804.1 (45596.3, 224120.0)	81.3 (35.7, 175.4)	19799.0 (8435.6, 38995.1)	15.6 (6.7, 30.8)	-80.8 (-89.3, -62.8)
Sexually transmitted infections excluding HIV	85190.7 (30962.9, 164687.0)	66.7 (24.2, 128.9)	70776.1 (26578.1, 141865.3)	55.9 (21.0, 112.0)	-16.2 (-30.6, -1.2)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Measles	162230.2 (60885.7, 330067.1)	127.0 (47.7, 258.4)	14475.3 (8345.2, 22912.5)	11.4 (6.6, 18.1)	-91.0 (-96.3, -75.2)
Tuberculosis	106042.5 (90074.1, 121870.1)	83.0 (70.5, 95.4)	28575.9 (22028.3, 35988.5)	22.6 (17.4, 28.4)	-72.8 (-79.2, -63.7)
Invasive Non-typhoidal Salmonella	7266.1 (3937.3, 12208.2)	5.7 (3.1, 9.6)	9308.1 (5206.0, 15399.7)	7.3 (4.1, 12.2)	29.2 (5.6, 58.5)
HIV/AIDS	7653.1 (7565.2, 7753.3)	6.0 (5.9, 6.1)	2706.8 (2567.0, 3079.1)	2.1 (2.0, 2.4)	-64.3 (-66.3, -59.2)
Typhoid and paratyphoid	17288.1 (7661.6, 33867.4)	13.5 (6.0, 26.5)	8645.8 (3424.3, 18131.0)	6.8 (2.7, 14.3)	-49.6 (-64.4, -32.3)
Tetanus	146289.3 (85685.5, 194513.8)	114.5 (67.1, 152.3)	8264.5 (3316.6, 15398.8)	6.5 (2.6, 12.2)	-94.3 (-96.5, -90.3)
Other unspecified infectious diseases	20389.6 (10175.1, 26219.8)	16.0 (8.0, 20.5)	13682.1 (6811.0, 21943.6)	10.8 (5.4, 17.3)	-32.3 (-50.8, 20.1)
Encephalitis	17224.8 (12580.6, 20421.9)	13.5 (9.8, 16.0)	9639.6 (6809.2, 12632.1)	7.6 (5.4, 10.0)	-43.6 (-59.4, -17.7)
Acute hepatitis	26308.0 (22201.3, 30658.1)	20.6 (17.4, 24.0)	8713.9 (5715.3, 13168.4)	6.9 (4.5, 10.4)	-66.6 (-80.2, -45.6)
Acute hepatitis B	7150.8 (3258.2, 11648.9)	5.6 (2.6, 9.1)	3979.7 (2724.1, 5496.1)	3.1 (2.2, 4.3)	-43.9 (-70.9, 25.5)
Dengue	2191.9 (1239.9, 3829.9)	1.72 (0.97, 3.00)	2267.9 (1107.2, 3582.0)	1.79 (0.87, 2.83)	4.3 (-68.1, 149.5)
Other neglected tropical diseases	3453.4 (2573.2, 4508.6)	2.7 (2.0, 3.5)	4597.9 (2836.5, 6068.4)	3.6 (2.2, 4.8)	34.2 (-26.7, 92.1)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Varicella and herpes zoster	3389.3 (2931.2, 4025.0)	2.7 (2.3, 3.2)	2135.8 (1622.9, 2721.3)	1.7 (1.3, 2.1)	-36.5 (-49.3, -20.3)
Upper respiratory infections	10368.5 (3035.9, 20251.8)	8.1 (2.4, 15.9)	5710.9 (947.6, 14447.4)	4.5 (0.7, 11.4)	-44.5 (-78.4, -7.6)
Diphtheria	3637.7 (2700.3, 4933.3)	2.85 (2.11, 3.86)	639.0 (418.4, 917.9)	0.50 (0.33, 0.72)	-82.3 (-88.1, -74.9)
Bacterial skin diseases	5057.1 (4115.1, 6187.4)	4.0 (3.2, 4.8)	2704.8 (1577.0, 3803.3)	2.13 (1.24, 3.00)	-46.1 (-65.0, -16.7)
Rabies	331.4 (161.0, 577.0)	0.26 (0.13, 0.45)	141.1 (33.6, 271.5)	0.11 (0.03, 0.21)	-57.1 (-82.7, -25.2)
Endocarditis	2133.4 (1065.5, 2952.0)	1.67 (0.83, 2.31)	960.2 (651.7, 1210.1)	0.76 (0.51, 0.96)	-54.6 (-66.8, -28.2)
Rheumatic heart disease	NA	NA	NA	NA	NA
Leishmaniasis	1316.2 (829.1, 2017.6)	1.03 (0.65, 1.58)	92.0 (47.1, 153.5)	0.07 (0.04, 0.12)	-92.9 (-95.2, -90.4)
Intestinal nematode infections	947.6 (641.8, 1268.0)	0.74 (0.50, 0.99)	252.6 (142.7, 346.1)	0.20 (0.11, 0.27)	-73.1 (-79.8, -64.7)
Other intestinal infectious diseases	1585.3 (1162.1, 2106.5)	1.24 (0.91, 1.65)	534.4 (340.6, 780.2)	0.42 (0.27, 0.62)	-66.0 (-79.8, -46.4)
Yellow fever	166.4 (62.5, 354.7)	0.13 (0.05, 0.28)	43.7 (16.4, 93.1)	0.03 (0.01, 0.07)	-73.5 (-80.9, -62.1)
Ebola virus disease	0 (0, 0)	0 (0, 0)	0.63 (0.52, 0.75)	0.0005 (0.0004, 0.0006)	NA
Otitis media	409.4 (248.0, 676.4)	0.32 (0.19, 0.53)	96.4 (29.2, 259.7)	0.08 (0.02, 0.20)	-76.3 (-89.6, -46.0)
Acute glomerulonephritis	315.2 (232.1, 370.4)	0.25 (0.18, 0.29)	74.4 (43.0, 101.5)	0.06 (0.03, 0.08)	-76.2 (-84.1, -67.1)
Schistosomiasis	46.7 (33.8, 64.9)	0.04 (0.03, 0.05)	41.4 (26.0, 61.0)	0.03 (0.02, 0.05)	-10.5 (-39.7, 31.8)
Cystic echinococcosis	NA	NA	NA	NA	NA

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
African trypanosomiasis	NA	NA	NA	NA	NA
Cysticercosis	NA	NA	NA	NA	NA
Chagas disease	8.3 (6.5, 10.6)	0.0065 (0.005, 0.008)	0.70 (0.41, 1.28)	0.0006 (0.0003, 0.001)	-91.5 (-94.6, -85.4)
Zika virus disease	0 (0, 0)	0 (0, 0)	0.004 (0.002, 0.01)	0.000003 (0.000001,0.000008)	NA
<b>Neonates</b>					
Neonatal sepsis and other neonatal infections	265947.4 (234708.2, 296555.6)	2649.0 (2337.8, 2953.9)	206451.3 (174477.5, 242725.3)	2118.5 (1790.4, 2490.7)	-20.0 (-33.0, -5.1)
Lower respiratory infections	506110.9 (447316.1, 559507.6)	5041.2 (4455.5, 5573.0)	152087.4 (127554.2, 178893.5)	1560.6 (1308.9, 1835.7)	-69.0 (-74.2, -62.9)
Diarrheal diseases	173540.3 (121913.4, 213654.4)	1728.6 (1214.3, 2128.1)	24474.4 (18314.4, 34191.1)	251.1 (187.9, 350.9)	-85.5 (-89.5, -78.2)
Malaria	26166.2 (13606.0, 49609.1)	260.6 (135.5, 494.1)	21587.1 (7029.1, 47461.5)	221.5 (72.1, 487.0)	-15.0 (-47.1, 5.0)
Meningitis	30463.7 (26318.7, 39235.6)	303.4 (262.2, 390.8)	12638.9 (9819.0, 16642.5)	129.7 (100.8, 170.8)	-57.3 (-66.2, -43.0)
Pertussis	NA	NA	NA	NA	NA
Sexually transmitted infections excluding HIV	62715.0 (22959.7, 121866.5)	624.7 (228.7, 1213.9)	49455.3 (18278.7, 100459.8)	507.5 (187.6, 1030.9)	-18.8 (-31.8, -4.6)
Measles	NA	NA	NA	NA	NA

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Tuberculosis	NA	NA	NA	NA	NA
Invasive Non-typhoidal Salmonella	545.8 (296.5, 924.3)	5.4 (3.0, 9.2)	493.0 (275.0, 784.4)	5.1 (2.8, 8.1)	-6.9 (-25.7, 13.2)
HIV/AIDS	NA	NA	NA	NA	NA
Typhoid and paratyphoid	46.72 (20.15, 91.95)	0.47 (0.20, 0.92)	17.4 (6.9, 38.1)	0.18 (0.07, 0.39)	-61.6 (-72.6, -49.9)
Tetanus	130006.6 (76968.7, 172612.6)	1294.9 (766.7, 1719.3)	7291.6 (3017.9, 13534.0)	74.8 (31.0, 138.9)	-94.2 (-96.3, -90.1)
Other unspecified infectious diseases	8372.4 (4227.0, 10775.3)	83.4 (42.1, 107.3)	6263.1 (3048.5, 9525.4)	64.3 (31.3, 97.7)	-22.9 (-40.8, 19.5)
Encephalitis	1828.3 (1358.1, 2086.6)	18.2 (13.5, 20.8)	1155.4 (869.8, 1458.4)	11.9 (8.9, 15.0)	-34.9 (-49.8, -15.9)
Acute hepatitis	NA	NA	NA	NA	NA
Acute hepatitis B	NA	NA	NA	NA	NA
Dengue	434.3 (221.1, 848.4)	4.3 (2.2, 8.5)	358.2 (162.4, 652.8)	3.7 (1.7, 6.7)	-15.0 (-76.4, 132.0)
Other neglected tropical diseases	679.2 (512.0, 873.2)	6.8 (5.1, 8.7)	842.6 (623.7, 1055.2)	8.7 (6.4, 10.8)	27.8 (-2.8, 61.1)

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
Varicella and herpes zoster	616.8 (539.3, 713.6)	6.1 (5.4, 7.1)	308.3 (255.2, 371.2)	3.2 (2.6, 3.8)	-48.5 (-58.1, -35.3)
Upper respiratory infections	1109.8 (334.3, 2079.8)	11.1 (3.3, 20.7)	450.4 (99.1, 1093.1)	4.6 (1.0, 11.2)	-58.2 (-82.8, -32.8)
Diphtheria	NA	NA	NA	NA	NA
Bacterial skin diseases	1301.3 (1052.6, 1529.1)	13.0 (10.5, 15.2)	719.8 (457.8, 929.7)	7.4 (4.7, 9.5)	-43.0 (-59.0, -24.6)
Rabies	NA	NA	NA	NA	NA
Endocarditis	428.9 (238.1, 598.8)	4.3 (2.4, 6.0)	170.0 (117.4, 208.9)	1.7 (1.2, 2.1)	-59.2 (-71.0, -39.7)
Rheumatic heart disease	NA	NA	NA	NA	NA
Leishmaniasis	NA	NA	NA	NA	NA
Intestinal nematode infections	NA	NA	NA	NA	NA
Other intestinal infectious diseases	NA	NA	NA	NA	NA
Yellow fever	8.6 (3.1, 19.6)	0.09 (0.03, 0.20)	1.8 (0.7, 4.0)	0.02 (0.01, 0.04)	-78.6 (-86.6, -66.3)
Ebola virus disease	NA	NA	NA	NA	NA
Otitis media	55.2 (21.6, 116.3)	0.55 (0.21, 1.16)	7.4 (2.7, 17.4)	0.08 (0.03, 0.18)	-86.2 (-94.6, -68.1)
Acute glomerulonephritis	35.7 (26.4, 46.0)	0.36 (0.26, 0.46)	13.2 (8.4, 18.8)	0.14 (0.09, 0.19)	-61.9 (-72.7, -50.6)
Schistosomiasis	NA	NA	NA	NA	NA
Cystic echinococcosis	NA	NA	NA	NA	NA

**Table S2** The number and rate of deaths and DALYs, and percentage change of rates from 1990 to 2021 due to infectious diseases among children under age 5 years, infants, and neonates globally (continued)

Infectious diseases	Deaths (95% UI)				
	Counts (1990)	Rates per 100 000 (1990)	Counts (2021)	Rates per 100 000 (2021)	Percentage change in rates, 1990-2021, %
African trypanosomiasis	NA	NA	NA	NA	NA
Cysticercosis	NA	NA	NA	NA	NA
Chagas disease	NA	NA	NA	NA	NA
Zika virus disease	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0003 (0.0001, 0.0007)	3.0e-6 (1.2e-6, 7.1e-6)	NA

PC, percentage change; 95% UI, 95% uncertainty interval.

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021

	EAPC in deaths rate per 100 000 (95% CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
<b>Total infectious diseases</b>					
Both sexes	-2.9 (-3.0, -2.8)	-3.9 (-4.1, -3.7)	-3.5 (-3.8, -3.3)	-4.2 (-4.5, -3.9)	-4.0 (-4.3, -3.7)
Male	-2.86 (-2.94, -2.78)	-4.0 (-4.2, -3.8)	-3.6 (-3.7, -3.4)	-4.0 (-4.3, -3.8)	-3.8 (-4.2, -3.5)
Female	-3.0 (-3.1, -2.9)	-3.8 (-4.0, -3.5)	-3.5 (-3.8, -3.3)	-4.4 (-4.6, -4.1)	-4.2 (-4.5, -3.8)
<b>Neonatal sepsis and other neonatal infections</b>					
Both sexes	-0.9 (-1.0, -0.8)	-1.2 (-1.5, -1.0)	-1.4 (-1.6, -1.3)	-1.0 (-1.1, -0.9)	-1.5 (-1.6, -1.3)
Male	-0.9 (-1.0, -0.8)	-1.4 (-1.7, -1.1)	-1.4 (-1.6, -1.3)	-0.8 (-1.0, -0.7)	-1.3 (-1.4, -1.2)
Female	-0.9 (-1.0, -0.8)	-1.0 (-1.2, -0.8)	-1.4 (-1.6, -1.2)	-1.2 (-1.3, -1.1)	-1.6 (-1.7, -1.4)
<b>Lower respiratory infections</b>					
Both sexes	-3.5 (-3.7, -3.3)	-4.0 (-4.3, -3.8)	-3.6 (-3.8, -3.4)	-4.3 (-4.5, -4.1)	-4.6 (-4.9, -4.4)
Male	-3.5 (-3.6, -3.3)	-4.2 (-4.4, -3.9)	-3.7 (-3.9, -3.5)	-4.0 (-4.2, -3.9)	-4.2 (-4.5, -4.0)
Female	-3.6 (-3.8, -3.4)	-3.9 (-4.1, -3.6)	-3.5 (-3.8, -3.2)	-4.6 (-4.8, -4.3)	-5.0 (-5.3, -4.7)
<b>Diarrheal diseases</b>					
Both sexes	-6.2 (-6.5, -6.0)	-5.2 (-5.5, -4.9)	-4.2 (-4.5, -3.9)	-4.9 (-5.2, -4.7)	-5.2 (-5.5, -4.9)
Male	-6.0 (-6.1, -5.8)	-5.2 (-5.5, -4.9)	-4.0 (-4.2, -3.8)	-4.8 (-5.0, -4.6)	-5.3 (-5.6, -4.9)
Female	-6.5 (-6.9, -6.2)	-5.1 (-5.5, -4.8)	-4.4 (-4.8, -4.1)	-5.0 (-5.3, -4.7)	-5.2 (-5.5, -4.8)
<b>Malaria</b>					
Both sexes	-1.6 (-2.1, -1.1)	-1.74 (-2.19, -1.28)	-0.77 (-1.22, -0.31)	-1.3 (-1.7, -0.8)	-1.3 (-1.7, -0.8)
Male	-1.8 (-2.3, -1.3)	-1.91 (-2.37, -1.46)	-0.86 (-1.30, -0.42)	-1.3 (-1.7, -0.8)	-1.2 (-1.7, -0.8)
Female	-1.4 (-1.9, -0.9)	-1.57 (-2.03, -1.11)	-0.67 (-1.14, -0.20)	-1.3 (-1.8, -0.9)	-1.4 (-1.8, -0.9)
<b>Meningitis</b>					
Both sexes	-2.8 (-3.2, -2.4)	-3.5 (-3.9, -3.1)	-2.7 (-3.0, -2.4)	-4.0 (-4.3, -3.6)	-3.9 (-4.3, -3.5)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95% CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
Male	-2.9 (-3.3, -2.6)	-3.8 (-4.1, -3.4)	-2.8 (-3.1, -2.5)	-3.9 (-4.2, -3.6)	-3.7 (-4.1, -3.3)
Female	-2.6 (-3.0, -2.2)	-3.2 (-3.6, -2.8)	-2.5 (-2.9, -2.2)	-4.0 (-4.4, -3.7)	-4.1 (-4.5, -3.7)
<b>Pertussis</b>					
Both sexes	NA	-3.5 (-4.2, -2.8)	-2.7 (-3.4, -2.0)	-3.1 (-3.7, -2.4)	-3.3 (-4.0, -2.6)
Male	NA	-3.6 (-4.2, -2.9)	-2.7 (-3.3, -2.0)	-3.0 (-3.6, -2.3)	-3.1 (-3.8, -2.5)
Female	NA	-3.4 (-4.2, -2.7)	-2.8 (-3.5, -2.0)	-3.2 (-3.9, -2.5)	-3.5 (-4.1, -2.8)
<b>Sexually transmitted infections excluding HIV</b>					
Both sexes	-1.4 (-1.6, -1.2)	-0.8 (-1.0, -0.6)	-0.14 (-0.28, -0.01)	-0.41 (-0.52, -0.30)	-0.85 (-0.96, -0.74)
Male	-1.4 (-1.6, -1.1)	-0.9 (-1.1, -0.7)	-0.11 (-0.22, 0.01)	-0.29 (-0.39, -0.19)	-0.72 (-0.82, -0.61)
Female	-1.4 (-1.7, -1.2)	-0.7 (-0.9, -0.5)	-0.18 (-0.34, -0.03)	-0.52 (-0.64, -0.40)	-1.00 (-1.11, -0.89)
<b>Measles</b>					
Both sexes	NA	NA	-7.6 (-8.2, -7.0)	-8.1 (-8.7, -7.5)	-8.1 (-8.7, -7.5)
Male	NA	NA	-7.6 (-8.1, -7.0)	-7.9 (-8.5, -7.3)	-7.9 (-8.5, -7.3)
Female	NA	NA	-7.7 (-8.4, -7.1)	-8.3 (-8.9, -7.6)	-8.3 (-8.9, -7.6)
<b>Tuberculosis</b>					
Both sexes	NA	-4.6 (-4.8, -4.3)	-3.6 (-3.8, -3.4)	-4.7 (-4.9, -4.6)	-5.0 (-5.3, -4.7)
Male	NA	-4.8 (-5.0, -4.5)	-3.6 (-3.8, -3.4)	-4.4 (-4.6, -4.2)	-4.5 (-4.8, -4.2)
Female	NA	-4.4 (-4.6, -4.2)	-3.6 (-3.9, -3.4)	-5.0 (-5.1, -4.8)	-5.3 (-5.6, -5.0)
<b>Invasive Non-typhoidal Salmonella (iNTS)</b>					
Both sexes	-0.38 (-1.20, 0.46)	0.38 (-0.40, 1.18)	1.3 (0.5, 2.2)	1.01 (0.17, 1.87)	0.80 (-0.00, 1.61)
Male	-0.32 (-1.16, 0.52)	0.39 (-0.41, 1.20)	1.3 (0.4, 2.2)	1.09 (0.24, 1.96)	0.88 (0.09, 1.67)
Female	-0.44 (-1.26, 0.38)	0.37 (-0.40, 1.15)	1.5 (0.6, 2.3)	0.91 (0.08, 1.76)	0.70 (-0.13, 1.54)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95% CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
<b>HIV/AIDS</b>					
Both sexes	NA	-5.0 (-6.7, -3.2)	-4.7 (-6.2, -3.1)	-4.7 (-6.5, -2.9)	-3.7 (-5.6, -1.9)
Male	NA	-5.1 (-6.9, -3.3)	-4.8 (-6.3, -3.2)	-4.7 (-6.6, -2.8)	-3.7 (-5.6, -1.9)
Female	NA	-4.9 (-6.6, -3.1)	-4.5 (-6.2, -2.9)	-4.73 (-6.5, -2.9)	-3.7 (-5.6, -1.9)
<b>Typhoid and paratyphoid</b>					
Both sexes	-3.4 (-3.7, -3.1)	-2.6 (-2.8, -2.3)	-2.1 (-2.3, -1.9)	-2.5 (-2.7, -2.4)	-3.3 (-3.5, -3.1)
Male	-3.4 (-3.7, -3.1)	-2.6 (-2.8, -2.3)	-2.2 (-2.4, -2.0)	-2.5 (-2.63, -2.3)	-3.2 (-3.5, -3.0)
Female	-3.4 (-3.7, -3.1)	-2.6 (-2.8, -2.3)	-2.0 (-2.3, -1.7)	-2.6 (-2.8, -2.4)	-3.4 (-3.7, -3.1)
<b>Tetanus</b>					
Both sexes	-8.8 (-9.1, -8.5)	-8.6 (-9.0, -8.1)	-7.5 (-8.0, -7.1)	-6.8 (-7.1, -6.5)	-7.5 (-7.9, -7.1)
Male	-8.9 (-9.1, -8.6)	-8.8 (-9.2, -8.3)	-7.7 (-8.1, -7.3)	-8.5 (-8.8, -8.2)	-8.7 (-9.2, -8.1)
Female	-8.8 (-9.2, -8.5)	-8.3 (-8.8, -7.9)	-7.3 (-7.8, -6.8)	-6.2 (-6.5, -5.9)	-6.8 (-7.2, -6.5)
<b>Other unspecified infectious diseases</b>					
Both sexes	-1.3 (-1.6, -1.1)	-2.1 (-2.3, -1.8)	-0.95 (-1.11, -0.80)	-2.1 (-2.3, -1.9)	-2.3 (-2.5, -2.1)
Male	-1.6 (-1.8, -1.3)	-2.7 (-2.9, -2.4)	-1.6 (-1.8, -1.5)	-2.6 (-2.8, -2.3)	-2.7 (-2.9, -2.6)
Female	-0.95 (-1.27, -0.63)	-1.3 (-1.5, -1.0)	-0.17 (-0.33, -0.01)	-1.6 (-1.8, -1.4)	-1.5 (-1.7, -1.4)
<b>Encephalitis</b>					
Both sexes	-1.7 (-1.9, -1.6)	-2.3 (-2.5, -2.1)	-2.1 (-2.2, -1.9)	-2.6 (-2.7, -2.5)	-3.0 (-3.2, -2.8)
Male	-2.3 (-2.5, -2.2)	-1.8 (-2.0, -1.6)	-1.8 (-1.9, -1.7)	-1.7 (-1.9, -1.6)	-2.0 (-2.1, -1.8)
Female	-1.2 (-1.4, -1.1)	-2.8 (-3.0, -2.6)	-2.3 (-2.5, -2.1)	-3.4 (-3.5, -3.2)	-3.8 (-4.1, -3.6)
<b>Acute hepatitis</b>					
Both sexes	NA	-2.9 (-3.4, -2.4)	-2.9 (-3.3, -2.6)	-4.2 (-4.9, -3.6)	-4.9 (-5.6, -4.1)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
Male	NA	-2.8 (-3.3, -2.3)	-3.1 (-3.4, -2.8)	-3.4 (-3.9, -3.0)	-3.6 (-4.2, -3.0)
Female	NA	-3.0 (-3.5, -2.5)	-2.8 (-3.2, -2.4)	-5.0 (-5.8, -4.2)	-5.9 (-6.8, -5.0)
<b>Dengue</b>					
Both sexes	-0.66 (-0.73, -0.59)	-0.11 (-0.29, 0.06)	1.4 (1.0, 1.7)	-0.26 (-0.40, -0.12)	0.39 (0.05, 0.74)
Male	-0.62 (-0.70, -0.55)	0.27 (0.10, 0.44)	1.7 (1.4, 2.0)	-0.02 (-0.15, 0.12)	0.24 (0.01, 0.47)
Female	-0.74 (-0.87, -0.61)	-0.42 (-0.62, -0.22)	1.1 (0.7, 1.5)	-0.67 (-0.82, -0.52)	0.68 (0.09, 1.27)
<b>Other neglected tropical diseases</b>					
Both sexes	0.76 (0.70, 0.82)	0.7 (0.63, 0.74)	1.7 (1.6, 1.8)	1.3 (1.2, 1.4)	1.2 (1.1, 1.3)
Male	0.84 (0.78, 0.89)	0.80 (0.75, 0.86)	1.8 (1.7, 1.9)	1.5 (1.4, 1.6)	1.4 (1.2, 1.5)
Female	0.64 (0.58, 0.71)	0.50 (0.43, 0.56)	1.6 (1.4, 1.7)	1.0 (0.9, 1.2)	1.0 (0.9, 1.2)
<b>Varicella and herpes zoster</b>					
Both sexes	-2.3 (-2.4, -2.2)	-1.7 (-1.8, -1.6)	-1.1 (-1.2, -1.0)	-1.38 (-1.44, -1.32)	-1.7 (-1.8, -1.6)
Male	-2.3 (-2.5, -2.2)	-1.8 (-1.9, -1.7)	-1.1 (-1.2, -1.1)	-1.32 (-1.37, -1.26)	-1.7 (-1.8, -1.5)
Female	-2.3 (-2.4, -2.1)	-1.6 (-1.6, -1.5)	-1.1 (-1.1, -1.0)	-1.45 (-1.51, -1.39)	-1.8 (-1.9, -1.7)
<b>Upper respiratory infections</b>					
Both sexes	-2.9 (-3.0, -2.8)	-2.02 (-2.09, -1.95)	-1.4 (-1.5, -1.3)	-1.8 (-2.0, -1.6)	-2.2 (-2.4, -2.0)
Male	-3.0 (-3.2, -2.9)	-2.20 (-2.28, -2.13)	-1.5 (-1.7, -1.3)	-1.6 (-1.8, -1.4)	-1.8 (-2.0, -1.6)
Female	-2.8 (-2.9, -2.7)	-1.85 (-1.92, -1.79)	-1.3 (-1.4, -1.2)	-2.0 (-2.2, -1.8)	-2.7 (-3.0, -2.5)
<b>Diphtheria</b>					
Both sexes	NA	-6.1 (-6.5, -5.7)	-4.7 (-5.0, -4.4)	-5.9 (-6.3, -5.4)	-5.7 (-6.3, -5.2)
Male	NA	-6.1 (-6.5, -5.7)	-4.7 (-5.0, -4.4)	-5.8 (-6.3, -5.3)	-5.4 (-6.0, -4.9)
Female	NA	-6.0 (-6.4, -5.7)	-4.7 (-5.0, -4.3)	-6.0 (-6.4, -5.5)	-6.1 (-6.6, -5.5)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95% CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
<b>Bacterial skin diseases</b>					
Both sexes	-2.0 (-2.2, -1.9)	-2.3 (-2.6, -2.0)	-1.5 (-1.8, -1.2)	-3.0 (-3.1, -2.9)	-3.3 (-3.7, -2.9)
Male	-2.5 (-2.6, -2.4)	-2.3 (-2.5, -2.2)	-1.3 (-1.4, -1.2)	-1.90 (-1.95, -1.85)	-2.3 (-2.5, -2.1)
Female	-1.4 (-1.7, -1.1)	-2.3 (-2.6, -1.9)	-1.7 (-2.1, -1.3)	-4.3 (-4.5, -4.0)	-4.1 (-4.6, -3.6)
<b>Rabies</b>					
Both sexes	NA	-3.1 (-3.6, -2.7)	-2.5 (-2.9, -2.1)	-4.6 (-5.1, -4.0)	-3.3 (-3.7, -2.9)
Male	NA	-2.7 (-3.1, -2.3)	-2.0 (-2.3, -1.7)	-3.7 (-4.2, -3.2)	-2.5 (-2.8, -2.2)
Female	NA	-3.9 (-4.4, -3.5)	-3.3 (-3.9, -2.7)	-5.3 (-5.9, -4.7)	-4.0 (-4.5, -3.6)
<b>Endocarditis</b>					
Both sexes	-3.1 (-3.2, -2.9)	-2.2 (-2.3, -2.1)	-2.7 (-2.8, -2.5)	-2.2 (-2.3, -2.1)	-2.2 (-2.3, -2.0)
Male	-2.9 (-3.1, -2.8)	-2.0 (-2.1, -1.8)	-2.3 (-2.5, -2.1)	-1.8 (-1.9, -1.7)	-1.9 (-2.0, -1.8)
Female	-3.3 (-3.4, -3.2)	-2.5 (-2.6, -2.4)	-3.0 (-3.1, -2.8)	-2.6 (-2.7, -2.5)	-2.4 (-2.5, -2.2)
<b>Rheumatic heart disease</b>					
Both sexes	NA	NA	NA	-5.3 (-5.4, -5.2)	-5.6 (-5.8, -5.4)
Male	NA	NA	NA	-4.7 (-4.8, -4.6)	-5.2 (-5.4, -5.0)
Female	NA	NA	NA	-5.7 (-5.8, -5.5)	-5.9 (-6.1, -5.7)
<b>Leishmaniasis</b>					
Both sexes	NA	-6.3 (-8.2, -4.4)	-5.2 (-7.2, -3.2)	-7.0 (-7.9, -6.1)	-7.3 (-8.2, -6.4)
Male	NA	-6.3 (-8.2, -4.4)	-5.2 (-7.1, -3.2)	-6.9 (-7.8, -6.0)	-7.1 (-8.0, -6.3)
Female	NA	-6.2 (-8.2, -4.3)	-5.4 (-7.3, -3.4)	-7.2 (-8.1, -6.3)	-7.6 (-8.6, -6.7)
<b>Intestinal nematode infections</b>					
Both sexes	NA	-4.9 (-5.1, -4.7)	-4.0 (-4.1, -3.8)	-4.9 (-5.0, -4.7)	-5.3 (-5.5, -5.1)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
Male	NA	-5.1 (-5.3, -4.8)	-3.9 (-4.0, -3.8)	-4.7 (-4.8, -4.5)	-5.1 (-5.2, -4.9)
Female	NA	-4.8 (-4.9, -4.6)	-4.0 (-4.2, -3.8)	-5.1 (-5.2, -4.9)	-5.6 (-5.8, -5.4)
<b>Other intestinal infectious diseases</b>					
Both sexes	NA	-3.9 (-4.1, -3.8)	-3.0 (-3.1, -2.8)	-4.3 (-4.5, -4.1)	-4.6 (-4.9, -4.3)
Male	NA	-4.1 (-4.3, -4.0)	-3.0 (-3.1, -2.9)	-4.1 (-4.2, -3.9)	-4.2 (-4.5, -4.0)
Female	NA	-3.8 (-3.9, -3.6)	-2.9 (-3.1, -2.8)	-4.4 (-4.6, -4.3)	-4.8 (-5.1, -4.6)
<b>Yellow fever</b>					
Both sexes	-4.8 (-5.2, -4.4)	-4.4 (-4.7, -4.0)	-3.4 (-3.8, -3.1)	-3.7 (-4.1, -3.4)	-3.7 (-4.1, -3.4)
Male	-4.8 (-5.2, -4.4)	-4.4 (-4.8, -4.1)	-3.4 (-3.8, -3.1)	-3.7 (-4.0, -3.3)	-3.7 (-4.1, -3.3)
Female	-4.8 (-5.1, -4.4)	-4.3 (-4.6, -4.0)	-3.4 (-3.8, -3.1)	-3.8 (-4.1, -3.5)	-3.9 (-4.2, -3.5)
<b>Ebola virus disease</b>					
Both sexes	NA	NA	4.3 (-7.4, 17.4)	4.4 (-7.8, 18.2)	4.9 (-7.7, 19.2)
Male	NA	NA	4.0 (-7.6, 17.1)	5.3 (-6.7, 18.9)	4.1 (-8.2, 18.0)
Female	NA	NA	3.9 (-8.3, 17.7)	3.3 (-9.2, 17.4)	4.6 (-8.0, 18.9)
<b>Otitis media</b>					
Both sexes	-6.2 (-6.6, -5.8)	-4.4 (-4.7, -4.1)	-3.1 (-3.5, -2.7)	-3.4 (-3.6, -3.2)	-3.2 (-3.4, -3.0)
Male	-4.6 (-4.7, -4.5)	-4.4 (-4.6, -4.2)	-2.7 (-3.1, -2.3)	-3.1 (-3.2, -2.9)	-2.9 (-3.1, -2.6)
Female	-8.4 (-9.4, -7.4)	-4.4 (-4.8, -4.0)	-3.7 (-4.1, -3.4)	-3.8 (-4.0, -3.6)	-3.7 (-3.9, -3.5)
<b>Acute glomerulonephritis</b>					
Both sexes	-2.7 (-2.9, -2.5)	-3.9 (-4.1, -3.7)	-5.0 (-5.3, -4.7)	-4.2 (-4.4, -3.9)	-5.15 (-5.24, -5.07)
Male	-3.7 (-4.0, -3.3)	-4.3 (-4.5, -4.1)	-5.1 (-5.4, -4.8)	-4.0 (-4.3, -3.7)	-4.86 (-4.96, -4.75)
Female	-2.0 (-2.2, -1.8)	-3.5 (-3.7, -3.4)	-4.9 (-5.3, -4.6)	-4.4 (-4.7, -4.0)	-5.56 (-5.65, -5.47)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95% CI), 1990-2021				
	<28 days	1-5 months	6-11 months	12-23 months	2-4 years
<b>Schistosomiasis</b>					
Both sexes	NA	NA	-0.13 (-0.23, -0.04)	-2.1 (-2.3, -2.0)	-3.1 (-3.3, -3.0)
Male	NA	NA	-0.01 (-0.13, 0.10)	-2.1 (-2.2, -2.0)	-3.1 (-3.2, -2.9)
Female	NA	NA	-0.25 (-0.33, -0.16)	-2.2 (-2.3, -2.0)	-3.2 (-3.4, -3.0)
<b>Cystic echinococcosis</b>					
Both sexes	NA	NA	NA	NA	-6.9 (-7.1, -6.8)
Male	NA	NA	NA	NA	-6.6 (-6.8, -6.5)
Female	NA	NA	NA	NA	-7.3 (-7.5, -7.1)
<b>African trypanosomiasis</b>					
Both sexes	NA	NA	NA	NA	-12.1 (-13.7, -10.4)
Male	NA	NA	NA	NA	-12.0 (-13.6, -10.3)
Female	NA	NA	NA	NA	-12.2 (-13.8, -10.5)
<b>Cysticercosis</b>					
Both sexes	NA	NA	NA	NA	-3.8 (-4.0, -3.5)
Male	NA	NA	NA	NA	-3.5 (-3.8, -3.3)
Female	NA	NA	NA	NA	-4.0 (-4.2, -3.7)
<b>Chagas disease</b>					
Both sexes	NA	-7.7 (-7.8, -7.6)	-7.6 (-7.9, -7.3)	-6.6 (-6.7, -6.4)	-6.4 (-6.7, -6.0)
Male	NA	-7.6 (-7.8, -7.5)	-7.5 (-7.8, -7.1)	-6.8 (-7.0, -6.7)	-6.9 (-7.2, -6.7)
Female	NA	-7.8 (-7.9, -7.7)	-7.8 (-8.0, -7.5)	-6.3 (-6.4, -6.2)	-5.8 (-6.3, -5.4)
<b>Zika virus disease</b>					
Both sexes	-51.5 (-65.3, -32.1)	-51.4 (-65.2, -32.2)	-51.9 (-65.5, -32.9)	-51.5 (-65.5, -31.9)	-52.1 (-66.0, -32.7)

**Table S3** EAPC in global mortality rate for overall and specific infectious diseases by sex and age, 1990–2021 (continued)

	<b>EAPC in deaths rate per 100 000 (95% CI), 1990-2021</b>				
	<b>&lt;28 days</b>	<b>1-5 months</b>	<b>6-11 months</b>	<b>12-23 months</b>	<b>2-4 years</b>
Male	-51.4 (-65.3, -31.9)	-51.4 (-65.2, -32.1)	-51.8 (-65.5, -32.7)	-51.5 (-65.5, -31.8)	-52.2 (-66.0, -32.9)
Female	-51.6 (-65.4, -32.2)	-51.4 (-65.2, -32.3)	-52.0 (-65.5, -33.3)	-51.5 (-65.5, -31.9)	-52.0 (-65.9, -32.5)

EAPC, estimated annual percentage change. EAPC is expressed as 95% CIs.

**Table S4** The correlation between mortality rates of infectious diseases and the SDI in under-5 children, infants, and neonates, 1990–2021

	< 5 years		< 1 year		< 28 days	
	r	P value	r	P value	r	P value
Total infectious diseases	-0.93	<0.001	-0.93	<0.001	-0.92	<0.001
Neonatal sepsis and other neonatal infections	-0.79	<0.001	-0.78	<0.001	-0.77	<0.001
Lower respiratory infections	-0.91	<0.001	-0.89	<0.001	-0.88	<0.001
Diarrheal diseases	-0.91	<0.001	-0.89	<0.001	-0.88	<0.001
Malaria	-0.87	<0.001	-0.87	<0.001	-0.87	<0.001
Meningitis	-0.90	<0.001	-0.89	<0.001	-0.83	<0.001
Pertussis	-0.88	<0.001	-0.88	<0.001	NA	NA
Sexually transmitted infections excluding HIV	-0.83	<0.001	-0.82	<0.001	-0.82	<0.001
Measles	-0.71	<0.001	-0.72	<0.001	NA	NA
Tuberculosis	-0.89	<0.001	-0.88	<0.001	NA	NA
Invasive Non-typhoidal Salmonella (iNTS)	-0.82	<0.001	-0.77	<0.001	-0.73	<0.001
HIV/AIDS	-0.63	<0.001	-0.55	<0.001	NA	NA
Typhoid and paratyphoid	-0.84	<0.001	-0.81	<0.001	-0.76	<0.001
Tetanus	-0.85	<0.001	-0.84	<0.001	-0.83	<0.001
Other unspecified infectious diseases	-0.68	<0.001	-0.60	<0.001	-0.49	<0.001
Encephalitis	-0.66	<0.001	-0.61	<0.001	-0.54	<0.001
Acute hepatitis	-0.80	<0.001	-0.76	<0.001	NA	NA
Dengue	-0.46	<0.001	-0.43	<0.001	-0.45	<0.001
Other neglected tropical diseases	-0.67	<0.001	-0.65	<0.001	-0.53	<0.001
Varicella and herpes zoster	-0.91	<0.001	-0.91	<0.001	-0.86	<0.001
Upper respiratory infections	-0.56	<0.001	-0.57	<0.001	-0.56	<0.001

**Table S4** The correlation between mortality rates of infectious diseases and the SDI in under-5 children, infants, and neonates, 1990–2021 (continued)

	< 5 years		< 1 year		< 28 days	
	r	P value	r	P value	r	P value
Diphtheria	-0.86	<0.001	-0.86	<0.001	NA	NA
Bacterial skin diseases	-0.80	<0.001	-0.80	<0.001	-0.78	<0.001
Rabies	-0.66	<0.001	-0.56	<0.001	NA	NA
Endocarditis	-0.76	<0.001	-0.73	<0.001	-0.66	<0.001
Rheumatic heart disease	-0.84	<0.001	NA	NA	NA	NA
Leishmaniasis	-0.51	<0.001	-0.37	<0.001	NA	NA
Intestinal nematode infections	-0.91	<0.001	-0.91	<0.001	NA	NA
Other intestinal infectious diseases	-0.93	<0.001	-0.93	<0.001	NA	NA
Yellow fever	-0.56	<0.001	-0.56	<0.001	-0.56	<0.001
Ebola	-0.19	<0.001	-0.17	<0.001	NA	NA
Otitis media	-0.18	<0.001	-0.14	<0.001	-0.19	<0.001
Acute glomerulonephritis	-0.58	<0.001	-0.50	<0.001	-0.55	<0.001
Schistosomiasis	-0.62	<0.001	-0.62	<0.001	NA	NA
Cystic echinococcosis	-0.81	<0.001	NA	NA	NA	NA
African trypanosomiasis	-0.52	<0.001	NA	NA	NA	NA
Cysticercosis	-0.84	<0.001	NA	NA	NA	NA
Chagas disease	-0.03	0.37	-0.03	0.41	NA	NA
Zika virus	0.15	<0.001	0.15	<0.001	0.15	<0.001

SDI, Sociodemographic Index. The Spearman correlation analysis is employed to calculate the r indices and p values, examining the association of deaths rate with SDI.

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
<b>Total infectious diseases</b>			
Global	-3.8 (-4.0, -3.5)	-3.5 (-3.7, -3.3)	-2.9 (-3.0, -2.8)
East Asia	-9.7 (-10.0, -9.4)	-9.2 (-9.6, -8.8)	-7.5 (-7.8, -7.3)
Southeast Asia	-5.1 (-5.2, -5.0)	-4.7 (-4.8, -4.6)	-3.6 (-3.7, -3.6)
Oceania	-1.7 (-2.0, -1.5)	-1.5 (-1.8, -1.3)	-0.9 (-1.1, -0.8)
Central Asia	-4.9 (-5.2, -4.7)	-5.0 (-5.3, -4.7)	-4.2 (-4.5, -3.9)
Central Europe	-6.0 (-6.2, -5.7)	-6.2 (-6.5, 6.0)	-4.7 (-5.1, -4.4)
Eastern Europe	-4.0 (-4.5, -3.6)	-4.1 (-4.5, -3.8)	-3.2 (-3.5, -2.9)
High-income Asia Pacific	-4.9 (-5.0, -4.7)	-4.5 (-4.7, -4.4)	-4.1 (-4.3, -4.0)
Australasia	-3.1 (-3.4, -2.8)	-2.9 (-3.2, -2.5)	-2.7 (-3.2, -2.2)
Western Europe	-3.2 (-3.4, -3.0)	-2.8 (-3.0, -2.6)	-1.7 (-1.9, -1.5)
Southern Latin America	-4.6 (-4.8, -4.3)	-4.7 (-4.8, -4.5)	-3.3 (-3.6, -3.1)
High-income North America	-2.3 (-2.5, -2.1)	-2.0 (-2.2, -1.9)	-1.1 (-1.3, -0.8)
Caribbean	-2.4 (-2.7, -2.1)	-2.0 (-2.2, -1.7)	-0.87 (-1.05, -0.69)
Andean Latin America	-5.9 (-6.1, -5.6)	-5.2 (-5.4, -5.0)	-3.7 (-3.9, -3.5)
Central Latin America	-4.8 (-5.0, -4.5)	-4.4 (-4.6, -4.2)	-2.1 (-2.2, -1.9)
Tropical Latin America	-6.8 (-7.0, -6.6)	-7.0 (-7.2, -6.8)	-4.2 (-4.5, -3.9)
North Africa and Middle East	-6.0 (-6.3, -5.8)	-5.7 (-5.9, -5.5)	-5.0 (-5.2, -4.8)
South Asia	-4.9 (-5.1, -4.7)	-4.1 (-4.3, -3.9)	-3.9 (-4.0, -3.8)
Central Sub-Saharan Africa	-4.8 (-5.2, -4.4)	-4.3 (-4.7, -3.9)	-3.8 (-4.1, -3.5)
Eastern Sub-Saharan Africa	-5.1 (-5.3, -4.9)	-4.2 (-4.4, -4.0)	-2.89 (-2.96, -2.81)
Southern Sub-Saharan Africa	-3.1 (-3.9, -2.2)	-2.6 (-3.3, -2.0)	-1.5 (-1.6, -1.3)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Western Sub-Saharan Africa	-3.6 (-3.9, -3.3)	-2.8 (-3.0, -2.6)	-2.4 (-2.6, -2.3)
<b>Neonatal sepsis and other neonatal infections</b>			
Global	-1.1 (-1.3, -0.9)	-0.99 (-1.13, -0.85)	-0.89 (-1.01, -0.78)
East Asia	-3.9 (-4.3, -3.6)	-3.6 (-3.9, -3.4)	-3.6 (-3.8, -3.4)
Southeast Asia	-2.1 (-2.3, -1.9)	-2.0 (-2.2, -1.9)	-1.97 (-2.11, -1.82)
Oceania	-0.1 (-0.42, 0.16)	-0.17 (-0.44, 0.11)	-0.12 (-0.37, 0.13)
Central Asia	0.8 (0.31, 1.31)	0.45 (0.07, 0.83)	0.45 (0.11, 0.78)
Central Europe	-5.9 (-6.7, -5.2)	-6.1 (-6.8, -5.4)	-5.8 (-6.5, -5.1)
Eastern Europe	-0.6 (-1.23, 0.06)	-0.88 (-1.36, -0.39)	-0.95 (-1.43, -0.48)
High-income Asia Pacific	-4.3 (-4.5, -4.2)	-4.2 (-4.4, -4.0)	-4.3 (-4.5, -4.1)
Australasia	-2.3 (-3.1, -1.5)	-2.3 (-3.1, -1.6)	-2.4 (-3.2, -1.7)
Western Europe	-1.8 (-2.0, -1.6)	-1.7 (-2.0, -1.5)	-1.6 (-1.8, -1.4)
Southern Latin America	-3.7 (-4.0, -3.4)	-3.6 (-3.9, -3.3)	-3.4 (-3.7, -3.1)
High-income North America	-0.7 (-1.12, -0.33)	-0.67 (-1.01, -0.33)	-0.73 (-1.03, -0.42)
Caribbean	0.3 (0.12, 0.44)	0.35 (0.20, 0.49)	0.48 (0.34, 0.63)
Andean Latin America	-2.0 (-2.3, -1.7)	-1.9 (-2.1, -1.7)	-1.8 (-2.1, -1.6)
Central Latin America	-0.9 (-1.06, -0.72)	-0.71 (-0.87, -0.56)	-0.65 (-0.80, -0.51)
Tropical Latin America	-3.2 (-3.8, -2.6)	-3.3 (-3.8, -2.8)	-3.2 (-3.7, -2.7)
North Africa and Middle East	-3.1 (-3.3, -2.9)	-3.0 (-3.1, -2.9)	-2.8 (-2.9, -2.7)
South Asia	-2.0 (-2.12, -1.96)	-1.82 (-1.90, -1.74)	-1.80 (-1.88, -1.72)
Central Sub-Saharan Africa	-0.3 (-0.70, 0.04)	0.05 (-0.29, 0.39)	-0.27 (-0.56, 0.02)
Eastern Sub-Saharan Africa	-2.0 (-2.03, -1.86)	-1.57 (-1.65, -1.48)	-1.10 (-1.19, -1.02)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Southern Sub-Saharan Africa	0.3 (0.04, 0.57)	0.40 (0.19, 0.60)	0.38 (0.20, 0.56)
Western Sub-Saharan Africa	-1.7 (-1.75, -1.56)	-1.33 (-1.40, -1.26)	-1.17 (-1.23, -1.11)
<b>Lower respiratory infections</b>			
Global	-4.1 (-4.3, -3.8)	-3.8 (-4.0, -3.5)	-3.5 (-3.7, -3.3)
East Asia	-10.1 (-10.5, -9.7)	-9.6 (-10.0, -9.2)	-8.6 (-9.0, -8.3)
Southeast Asia	-5.1 (-5.3, -4.9)	-4.7 (-5.0, -4.5)	-4.7 (-4.9, -4.6)
Oceania	-1.3 (-1.7, -1.0)	-1.3 (-1.6, -0.9)	-0.77 (-0.97, -0.56)
Central Asia	-4.8 (-5.2, -4.4)	-4.9 (-5.2, -4.5)	-4.9 (-5.3, -4.5)
Central Europe	-6.4 (-6.7, -6.1)	-6.8 (-7.0, -6.5)	-4.7 (-5.1, -4.3)
Eastern Europe	-6.2 (-6.8, -5.7)	-6.5 (-6.9, -6.1)	-6.9 (-7.3, -6.5)
High-income Asia Pacific	-5.7 (-6.1, -5.3)	-6.0 (-6.4, -5.6)	-6.7 (-7.2, -6.2)
Australasia	-3.9 (-4.5, -3.2)	-3.8 (-4.4, -3.2)	-3.4 (-4.1, -2.8)
Western Europe	-4.9 (-5.3, -4.5)	-4.9 (-5.4, -4.5)	-3.5 (-3.9, -3.2)
Southern Latin America	-5.0 (-5.5, -4.5)	-5.5 (-6.0, -5.1)	-3.5 (-3.9, -3.1)
High-income North America	-3.2 (-3.5, -2.8)	-3.5 (-3.8, -3.1)	-4.1 (-4.3, -3.8)
Caribbean	-2.4 (-2.6, -2.2)	-2.1 (-2.3, -1.9)	-1.6 (-1.9, -1.4)
Andean Latin America	-6.4 (-6.7, -6.1)	-6.2 (-6.5, -5.9)	-6.4 (-6.7, -6.0)
Central Latin America	-4.7 (-5.0, -4.4)	-4.6 (-4.8, -4.4)	-3.4 (-3.7, -3.1)
Tropical Latin America	-7.1 (-7.5, -6.6)	-7.6 (-8.1, -7.2)	-7.2 (-7.6, -6.8)
North Africa and Middle East	-5.8 (-6.1, -5.5)	-5.6 (-5.8, -5.4)	-5.5 (-5.8, -5.3)
South Asia	-3.8 (-4.1, -3.5)	-3.1 (-3.4, -2.8)	-3.4 (-3.6, -3.2)
Central Sub-Saharan Africa	-5.8 (-6.3, -5.4)	-5.2 (-5.5, -4.8)	-4.9 (-5.2, -4.6)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Eastern Sub-Saharan Africa	-5.4 (-5.6, -5.1)	-4.7 (-5.0, -4.4)	-4.2 (-4.4, -3.9)
Southern Sub-Saharan Africa	-2.2 (-2.7, -1.7)	-2.3 (-3.0, -1.6)	-2.0 (-2.3, -1.8)
Western Sub-Saharan Africa	-3.5 (-3.8, -3.2)	-2.6 (-2.9, -2.3)	-2.6 (-2.9, -2.3)
<b>Diarrheal diseases</b>			
Global	-5.1 (-5.4, -4.8)	-5.0 (-5.2, -4.7)	-6.2 (-6.5, -6.0)
East Asia	-13.7 (-14.2, -13.2)	-13.3 (-14.0, -12.6)	-12.1 (-12.4, -11.7)
Southeast Asia	-7.8 (-7.9, -7.7)	-7.7 (-7.8, -7.6)	-8.4 (-8.7, -8.2)
Oceania	-1.8 (-2.1, -1.6)	-1.9 (-2.1, -1.6)	-2.1 (-2.2, -1.9)
Central Asia	-7.7 (-8.0, -7.4)	-7.9 (-8.3, -7.5)	-7.4 (-7.7, -7.0)
Central Europe	-2.7 (-3.9, -1.4)	-3.2 (-4.4, -1.9)	0.6 (-0.8, 2.0)
Eastern Europe	-8.3 (-8.9, -7.6)	-9.0 (-9.6, -8.3)	-8.6 (-9.4, -7.9)
High-income Asia Pacific	-2.2 (-2.6, -1.8)	-2.2 (-2.4, -1.9)	-2.0 (-2.3, -1.8)
Australasia	-0.4 (-1.63, 0.85)	-0.08 (-1.26, 1.12)	0.60 (-0.61, 1.83)
Western Europe	0.7 (-0.22, 1.53)	0.55 (-0.28, 1.38)	2.89 (2.11, 3.67)
Southern Latin America	-5.8 (-6.2, -5.5)	-6.2 (-6.6, -5.8)	-2.4 (-2.9, -1.9)
High-income North America	-2.0 (-2.6, -1.4)	-2.5 (-3.1, -1.9)	0.9 (0.2, 1.6)
Caribbean	-3.1 (-3.63, -2.63)	-3.10 (-3.60, -2.60)	-3.07 (-3.53, -2.61)
Andean Latin America	-9.1 (-9.3, -8.8)	-8.9 (-9.2, -8.6)	-8.9 (-9.2, -8.5)
Central Latin America	-7.6 (-8.1, -7.2)	-8.1 (-8.6, -7.6)	-8.1 (-8.8, -7.3)
Tropical Latin America	-11.6 (-11.9, -11.4)	-12.3 (-12.5, -12.0)	-12.3 (-12.9, -11.6)
North Africa and Middle East	-7.2 (-7.4, -6.9)	-7.0 (-7.3, -6.8)	-7.5 (-7.8, -7.3)
South Asia	-7.2 (-7.6, -6.9)	-6.6 (-7.0, -6.2)	-7.8 (-8.1, -7.5)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Sub-Saharan Africa	-6.7 (-7.73, -5.73)	-6.23 (-7.17, -5.28)	-6.91 (-7.95, -5.85)
Eastern Sub-Saharan Africa	-5.3 (-5.51, -5.16)	-4.95 (-5.17, -4.73)	-4.66 (-4.92, -4.41)
Southern Sub-Saharan Africa	-3.3 (-3.84, -2.78)	-3.54 (-4.25, -2.82)	-4.46 (-4.72, -4.20)
Western Sub-Saharan Africa	-4.4 (-4.76, -3.95)	-3.70 (-4.08, -3.31)	-5.05 (-5.47, -4.62)
<b>Malaria</b>			
Global	-1.3 (-1.8, -0.8)	-1.2 (-1.7, -0.8)	-1.6 (-2.1, -1.1)
East Asia	-25.7 (-27.6, -23.7)	-29.7 (-32.7, -26.5)	-29.1 (-33.1, -24.8)
Southeast Asia	-6.3 (-8.6, -4.0)	-5.6 (-7.9, -3.2)	-6.7 (-8.7, -4.6)
Oceania	-3.5 (-4.6, -2.4)	-2.6 (-3.7, -1.5)	-1.6 (-2.6, -0.5)
Central Asia	-31.8 (-39.6, -23.0)	-33.1 (-41.0, -24.3)	-30.3 (-37.6, -22.2)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	-11.9 (-12.3, -11.5)	-12.1 (-12.6, -11.5)	-10.0 (-10.3, -9.8)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-7.5 (-7.8, -7.2)	-8.2 (-8.5, -7.8)	-6.2 (-6.5, -6.0)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-5.9 (-7.6, -4.2)	-4.9 (-6.5, -3.3)	-4.6 (-6.3, -2.8)
Andean Latin America	-20.0 (-22.3, -17.5)	-19.0 (-21.5, -16.4)	-17.6 (-19.7, -15.5)
Central Latin America	-6.7 (-8.6, -4.7)	-6.3 (-8.3, -4.2)	-5.6 (-7.6, -3.6)
Tropical Latin America	-15.8 (-16.8, -14.7)	-15.9 (-17.0, -14.8)	-16.0 (-16.9, -15.0)
North Africa and Middle East	-4.2 (-5.1, -3.4)	-4.4 (-5.7, -3.2)	-3.5 (-4.8, -2.3)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
South Asia	-6.0 (-6.8, -5.1)	-5.4 (-6.3, -4.4)	-6.1 (-7.0, -5.2)
Central Sub-Saharan Africa	-3.6 (-4.1, -3.2)	-3.1 (-3.6, -2.7)	-3.6 (-4.0, -3.1)
Eastern Sub-Saharan Africa	-4.8 (-5.3, -4.2)	-4.3 (-4.9, -3.7)	-4.1 (-4.8, -3.5)
Southern Sub-Saharan Africa	1.9 (0.7, 3.2)	1.0 (-0.5, 2.6)	0.2 (-1.8, 2.1)
Western Sub-Saharan Africa	-2.2 (-2.5, -1.8)	-1.7 (-2.0, -1.3)	-2.5 (-2.9, -2.1)
<b>Meningitis</b>			
Global	-3.5 (-3.9, -3.1)	-3.1 (-3.4, -2.7)	-2.8 (-3.2, -2.4)
East Asia	-8.9 (-9.3, -8.6)	-8.7 (-9.3, -8.2)	-6.9 (-7.4, -6.5)
Southeast Asia	-4.5 (-4.9, -4.2)	-4.2 (-4.6, -3.8)	-3.7 (-3.9, -3.5)
Oceania	-4.5 (-5.0, -3.9)	-4.4 (-4.9, -3.8)	-5.5 (-6.7, -4.2)
Central Asia	-7.3 (-7.8, -6.8)	-7.4 (-8.1, -6.8)	-6.7 (-7.3, -6.1)
Central Europe	-7.7 (-7.9, -7.4)	-8.2 (-8.4, -7.9)	-6.6 (-6.9, -6.4)
Eastern Europe	-5.5 (-6.0, -5.1)	-6.4 (-6.7, -6.1)	-6.8 (-7.1, -6.5)
High-income Asia Pacific	-6.5 (-6.8, -6.2)	-6.1 (-6.5, -5.8)	-6.2 (-6.5, -5.8)
Australasia	-5.7 (-6.4, -5.1)	-5.3 (-6.0, -4.6)	-4.7 (-5.3, -4.2)
Western Europe	-5.6 (-5.8, -5.3)	-5.3 (-5.5, -5.1)	-4.1 (-4.3, -3.8)
Southern Latin America	-6.2 (-6.4, -5.9)	-6.5 (-6.7, -6.3)	-5.4 (-5.6, -5.2)
High-income North America	-5.3 (-5.6, -4.9)	-4.7 (-5.1, -4.4)	-3.4 (-3.7, -3.1)
Caribbean	-2.9 (-3.1, -2.7)	-2.6 (-2.8, -2.5)	-1.9 (-2.2, -1.7)
Andean Latin America	-7.5 (-7.7, -7.2)	-7.1 (-7.4, -6.7)	-6.6 (-6.8, -6.3)
Central Latin America	-6.3 (-6.8, -5.8)	-6.2 (-6.8, -5.6)	-5.0 (-5.5, -4.5)
Tropical Latin America	-9.1 (-9.6, -8.7)	-9.3 (-9.7, -8.9)	-8.8 (-9.1, -8.5)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
North Africa and Middle East	-5.3 (-5.9, -4.8)	-5.1 (-5.5, -4.6)	-5.1 (-5.6, -4.6)
South Asia	-3.3 (-3.7, -3.0)	-2.4 (-2.8, -1.9)	-2.7 (-3.2, -2.3)
Central Sub-Saharan Africa	-5.7 (-6.3, -5.0)	-5.0 (-5.6, -4.4)	-4.9 (-5.5, -4.4)
Eastern Sub-Saharan Africa	-5.5 (-5.8, -5.3)	-4.9 (-5.2, -4.5)	-4.0 (-4.3, -3.7)
Southern Sub-Saharan Africa	-2.8 (-3.2, -2.4)	-3.0 (-3.7, -2.3)	-2.9 (-3.2, -2.6)
Western Sub-Saharan Africa	-3.9 (-4.4, -3.5)	-3.2 (-3.6, -2.7)	-3.6 (-4.0, -3.2 )
<b>Pertussis</b>			
Global	-3.2 (-3.9, -2.5)	-3.1 (-3.8, -2.5)	NA (NA, NA)
East Asia	-9.5 (-10.0, -9.0)	-8.9 (-9.4, -8.5)	NA (NA, NA)
Southeast Asia	-4.1 (-5.7, -2.5)	-4.1 (-5.6, -2.5)	NA (NA, NA)
Oceania	-1.2 (-2.6, 0.2)	-1.3 (-2.6, 0.1)	NA (NA, NA)
Central Asia	-5.4 (-6.8, -3.9)	-5.4 (-6.7, -4.1)	NA (NA, NA)
Central Europe	-6.3 (-7.5, -5.1)	-6.2 (-7.1, -5.3)	NA (NA, NA)
Eastern Europe	-7.2 (-8.3, -6.0)	-7.3 (-8.6, -6.0)	NA (NA, NA)
High-income Asia Pacific	-12.2 (-14.4, -10.0)	-12.3 (-14.2, -10.3)	NA (NA, NA)
Australasia	4.0 (0.1, 8.1)	4.1 (0.2, 8.2)	NA (NA, NA)
Western Europe	-2.7 (-4.8, -0.5)	-1.8 (-4.0, 0.4)	NA (NA, NA)
Southern Latin America	-5.1 (-8.1, -2.0)	-5.1 (-8.0, -2.0)	NA (NA, NA)
High-income North America	-0.02 (-2.21, 2.21)	0.22 (-2.00, 2.48)	NA (NA, NA)
Caribbean	-3.0 (-4.9, -1.0)	-2.6 (-4.3, -0.8)	NA (NA, NA)
Andean Latin America	-7.1 (-8.5, -5.8)	-7.0 (-8.3, -5.7)	NA (NA, NA)
Central Latin America	-6.4 (-7.4, -5.4)	-5.9 (-6.9, -4.9)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Tropical Latin America	-6.3 (-8.5, -4.1)	-6.2 (-8.5, -3.9)	NA (NA, NA)
North Africa and Middle East	-4.2 (-5.1, -3.3)	-4.3 (-5.1, -3.4)	NA (NA, NA)
South Asia	-4.9 (-5.8, -3.9)	-4.5 (-5.5, -3.4)	NA (NA, NA)
Central Sub-Saharan Africa	-2.9 (-3.3, -2.5)	-2.7 (-3.1, -2.3)	NA (NA, NA)
Eastern Sub-Saharan Africa	-3.9 (-4.6, -3.3)	-3.8 (-4.4, -3.1)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.8 (-3.8, 0.2)	-1.8 (-3.9, 0.3)	NA (NA, NA)
Western Sub-Saharan Africa	-2.9 (-3.6, -2.3)	-2.7 (-3.4, -2.0)	NA (NA, NA)
<b>Sexually transmitted infections excluding HIV</b>			
Global	-1.4 (-1.6, -1.1)	-1.3 (-1.5, -1.0)	-1.4 (-1.6, -1.2)
East Asia	-2.2 (-2.8, -1.6)	-1.9 (-2.5, -1.4)	-1.9 (-2.4, -1.4)
Southeast Asia	0.7 (0.3, 1.0)	0.7 (0.4, 1.1)	0.7 (0.3, 1.0)
Oceania	-1.4 (-1.9, -1.0)	-1.5 (-1.9, -1.0)	-1.4 (-1.9, -1.0)
Central Asia	0.5 (-0.11, 1.07)	0.11 (-0.43, 0.65)	-0.17 (-0.69, 0.36)
Central Europe	-1.7 (-1.9, -1.5)	-1.9 (-2.1, -1.7)	-1.8 (-2.0, -1.5)
Eastern Europe	-5.8 (-8.0, -3.6)	-6.1 (-8.1, -4.1)	-6.3 (-8.2, -4.3)
High-income Asia Pacific	-1.7 (-2.0, -1.4)	-1.6 (-1.7, -1.4)	-1.4 (-1.6, -1.3)
Australasia	-3.0 (-5.2, -0.8)	-2.8 (-4.9, -0.7)	-2.3 (-4.4, -0.2)
Western Europe	0.6 (0.28, 0.85)	0.64 (0.33, 0.96)	0.65 (0.32, 0.98)
Southern Latin America	-2.0 (-3.0, -1.0)	-1.9 (-3.0, -0.7)	-1.4 (-2.6, -0.2)
High-income North America	-4.1 (-5.0, -3.2)	-4.0 (-4.9, -3.1)	-4.0 (-5.0, -3.1)
Caribbean	0.3 (0.07, 0.56)	0.37 (0.14, 0.60)	0.23 (0.01, 0.46)
Andean Latin America	-3.7 (-4.2, -3.2)	-3.6 (-4.2, -3.1)	-3.7 (-4.3, -3.2)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Latin America	-3.9 (-4.5, -3.2)	-3.7 (-4.4, -3.0)	-3.4 (-4.1, -2.7)
Tropical Latin America	0.2 (-0.47, 0.95)	0.12 (-0.60, 0.85)	0.23 (-0.51, 0.98)
North Africa and Middle East	-1.6 (-2.1, -1)	-1.5 (-1.9, -1.0)	-1.4 (-1.9, -1.0)
South Asia	-3.0 (-3.6, -2.3)	-2.8 (-3.4, -2.1)	-3.1 (-3.8, -2.4)
Central Sub-Saharan Africa	-3.8 (-4.3, -3.4)	-3.5 (-3.9, -3.1)	-3.7 (-4.1, -3.2)
Eastern Sub-Saharan Africa	-2.6 (-2.9, -2.4)	-2.3 (-2.5, -2.0)	-2.2 (-2.5, -2.0)
Southern Sub-Saharan Africa	-2.5 (-3.3, -1.6)	-2.40 (-3.30, -1.49)	-2.51 (-3.42, -1.58)
Western Sub-Saharan Africa	-1.3 (-1.5, -1.1)	-0.99 (-1.17, -0.80)	-1.06 (-1.23, -0.90)
<b>Measles</b>			
Global	-8.0 (-8.6, -7.4)	-7.6 (-8.2, -7.0)	NA (NA, NA)
East Asia	-12.5 (-15.3, -9.6)	-11.8 (-14.5, -9.0)	NA (NA, NA)
Southeast Asia	-11.0 (-12.2, -9.7)	-10.9 (-12.2, -9.6)	NA (NA, NA)
Oceania	-5.1 (-7.0, -3.1)	-5.1 (-7.2, -3.0)	NA (NA, NA)
Central Asia	-10.2 (-15.7, -4.3)	-9.7 (-15.3, -3.7)	NA (NA, NA)
Central Europe	-6.4 (-12.9, 0.6)	-5.6 (-12.7, 2.0)	NA (NA, NA)
Eastern Europe	-8.6 (-13.7, -3.2)	-9.0 (-13.8, -4.0)	NA (NA, NA)
High-income Asia Pacific	-17.6 (-20.5, -14.6)	-16.9 (-19.6, -14.1)	NA (NA, NA)
Australasia	-10.0 (-16.9, -2.6)	-7.8 (-15.4, 0.6)	NA (NA, NA)
Western Europe	-7.9 (-10.1, -5.7)	-8.8 (-11.7, -5.8)	NA (NA, NA)
Southern Latin America	-26.8 (-33.6, -19.4)	-28.1 (-34.9, -20.6)	NA (NA, NA)
High-income North America	-8.7 (-12.1, -5.1)	-10.0 (-13.6, -6.4)	NA (NA, NA)
Caribbean	-33.5 (-44.4, -20.5)	-35.5 (-47.6, -20.5)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Andean Latin America	-35.2 (-41.8, -27.8)	-35.7 (-42.2, -28.5)	NA (NA, NA)
Central Latin America	-36.6 (-41.2, -31.6)	-39.1 (-44.3, -33.5)	NA (NA, NA)
Tropical Latin America	-13.6 (-24.8, -0.7)	-13.6 (-25.2, -0.3)	NA (NA, NA)
North Africa and Middle East	-10.5 (-11.4, -9.6)	-10.2 (-11.1, -9.3)	NA (NA, NA)
South Asia	-11.1 (-12.9, -9.3)	-10.6 (-12.5, -8.6)	NA (NA, NA)
Central Sub-Saharan Africa	-9.6 (-11.1, -8.1)	-9.4 (-10.9, -7.8)	NA (NA, NA)
Eastern Sub-Saharan Africa	-8.1 (-8.5, -7.6)	-7.5 (-8.0, -7.0)	NA (NA, NA)
Southern Sub-Saharan Africa	-8.2 (-10.5, -5.9)	-8.9 (-11.1, -6.6)	NA (NA, NA)
Western Sub-Saharan Africa	-9.1 (-9.9, -8.2)	-8.4 (-9.2, -7.6)	NA (NA, NA)
<b>Tuberculosis</b>			
Global	-4.6 (-4.8, -4.3)	-4.1 (-4.4, -3.9)	NA (NA, NA)
East Asia	-11.9 (-12.3, -11.5)	-11.9 (-12.2, -11.5)	NA (NA, NA)
Southeast Asia	-6.5 (-6.6, -6.3)	-6.0 (-6.3, -5.8)	NA (NA, NA)
Oceania	-1.5 (-1.9, -1.0)	-1.6 (-2.0, -1.1)	NA (NA, NA)
Central Asia	-5.4 (-6.0, -4.8)	-5.4 (-6.1, -4.7)	NA (NA, NA)
Central Europe	-7.0 (-7.6, -6.5)	-7.0 (-7.7, -6.3)	NA (NA, NA)
Eastern Europe	-5.9 (-7.2, -4.6)	-6.4 (-7.5, -5.2)	NA (NA, NA)
High-income Asia Pacific	-9.9 (-10.1, -9.7)	-9.5 (-9.7, -9.2)	NA (NA, NA)
Australasia	-6.3 (-6.7, -5.9)	-5.8 (-6.2, -5.4)	NA (NA, NA)
Western Europe	-7.1 (-7.3, -6.9)	-7.1 (-7.3, -6.9)	NA (NA, NA)
Southern Latin America	-7.8 (-8.1, -7.5)	-8.9 (-9.2, -8.6)	NA (NA, NA)
High-income North America	-6.0 (-6.6, -5.4)	-5.8 (-6.3, -5.3)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Caribbean	-4.0 (-4.3, -3.6)	-3.7 (-3.9, -3.5)	NA (NA, NA)
Andean Latin America	-9.9 (-10.2, -9.7)	-9.2 (-9.3, -9.0)	NA (NA, NA)
Central Latin America	-9.1 (-9.8, -8.5)	-9.8 (-10.4, -9.1)	NA (NA, NA)
Tropical Latin America	-8.4 (-8.7, -8.1)	-8.7 (-9.0, -8.4)	NA (NA, NA)
North Africa and Middle East	-5.6 (-5.9, -5.3)	-5.2 (-5.4, -5.0)	NA (NA, NA)
South Asia	-5.9 (-6.0, -5.8)	-4.5 (-4.6, -4.4)	NA (NA, NA)
Central Sub-Saharan Africa	-5.2 (-5.9, -4.6)	-4.4 (-4.9, -3.8)	NA (NA, NA)
Eastern Sub-Saharan Africa	-5.8 (-5.9, -5.7)	-5.0 (-5.1, -4.8)	NA (NA, NA)
Southern Sub-Saharan Africa	-2.2 (-2.7, -1.7)	-2.4 (-3.3, -1.5)	NA (NA, NA)
Western Sub-Saharan Africa	-4.4 (-4.7, -4.0)	-3.3 (-3.5, -3.0)	NA (NA, NA)
<b>Invasive Non-typhoidal Salmonella (iNTS)</b>			
Global	0.8 (0.01, 1.67)	0.80 (-0.02, 1.64)	-0.38 (-1.20, 0.46)
East Asia	-3.7 (-4.1, -3.4)	-2.9 (-3.3, -2.4)	-3.2 (-3.6, -2.8)
Southeast Asia	-1.9 (-2.0, -1.9)	-2.0 (-2.1, -1.9)	-2.3 (-2.4, -2.2)
Oceania	-0.1 (-0.55, 0.30)	-0.34 (-0.76, 0.09)	-0.24 (-0.60, 0.12)
Central Asia	-3.7 (-4.3, -3.2)	-6.6 (-7.6, -5.7)	-3.5 (-4.1, -2.9)
Central Europe	-8.6 (-10.2, -7.0)	-9.8 (-11.8, -7.9)	-8.3 (-10.2, -6.3)
Eastern Europe	-3.0 (-3.6, -2.4)	-4.2 (-5.1, -3.3)	-3.8 (-4.7, 3.0)
High-income Asia Pacific	-3.3 (-3.8, -2.9)	-4.5 (-5.3, -3.6)	-6.1 (-7.4, -4.8)
Australasia	-2.7 (-5.1, -0.3)	-2.5 (-4.8, -0.1)	-1.5 (-3.6, 0.6)
Western Europe	-9.6 (-10.3, -8.8)	-9.7 (-10.5, -8.9)	-8.0 (-8.7, -7.3)
Southern Latin America	-7.6 (-8.7, -6.5)	-8.3 (-9.5, -7.1)	-5.4 (-6.6, -4.3)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
High-income North America	-4.0 (-5.1, -2.8)	-3.8 (-5.0, -2.7)	-3.2 (-4.2, -2.4)
Caribbean	0.7 (0.5, 0.8)	1.3 (1.1, 1.6)	1.1 (0.8, 1.4)
Andean Latin America	-1.2 (-1.4, -1.0)	-1.1 (-1.3, -0.9)	-1.5 (-1.8, -1.3)
Central Latin America	-9.3 (-11.4, -7.1)	-8.5 (-11.3, -5.6)	-12.7 (-14.8, -10.6)
Tropical Latin America	-4.1 (-4.5, -3.7)	-6.1 (-6.5, -5.6)	-6.8 (-7.0, -6.5)
North Africa and Middle East	-1.0 (-1.2, -0.7)	-1.2 (-1.3, -1.1)	-1.3 (-1.4, -1.2)
South Asia	-0.4 (-0.64, -0.13)	0.11 (-0.18, 0.40)	-1.21 (-1.36, -1.07)
Central Sub-Saharan Africa	-4.0 (-5.2, -2.8)	-4.0 (-5.1, -2.9)	-5.0 (-6.2, -3.8)
Eastern Sub-Saharan Africa	-5.1 (-5.6, -4.7)	-5.4 (-5.9, -4.9)	-6.1 (-6.5, -5.8)
Southern Sub-Saharan Africa	-1.8 (-2.5, -1.1)	-1.4 (-1.6, -1.1)	-2.0 (-2.3, -1.7)
Western Sub-Saharan Africa	-0.1 (-0.93, 0.79)	0.33 (-0.58, 1.24)	-0.87 (-1.77, 0.05)
<b>HIV/AIDS</b>			
Global	-4.3 (-6.1, -2.4)	-4.8 (-6.5, -3.2)	NA (NA, NA)
East Asia	7.7 (6.4, 9.1)	7.6 (6.2, 8.9)	NA (NA, NA)
Southeast Asia	1.8 (0.1, 3.6)	0.80 (-0.76, 2.38)	NA (NA, NA)
Oceania	8.9 (5.0, 12.9)	7.2 (3.7, 10.8)	NA (NA, NA)
Central Asia	-0.2 (-0.78, 0.30)	0.30 (-0.42, 1.01)	NA (NA, NA)
Central Europe	-4.9 (-5.3, -4.5)	-3.6 (-4.3, -2.8)	NA (NA, NA)
Eastern Europe	3.3 (2.6, 4.0)	3.7 (3.1, 4.4)	NA (NA, NA)
High-income Asia Pacific	0.7 (-0.22, 1.58)	1.17 (0.30, 2.06)	NA (NA, NA)
Australasia	-6.4 (-7.0, -5.9)	-6.6 (-7.1, -6.0)	NA (NA, NA)
Western Europe	-5.9 (-6.6, -5.1)	-5.9 (-6.7, -5.2)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Southern Latin America	-1.4 (-2.6, -0.19)	-1.6 (-3.2, -0.6)	NA (NA, NA)
High-income North America	-8.4 (-9.1, -7.6)	-8.1 (-8.7, -7.5)	NA (NA, NA)
Caribbean	-5.3 (-6.3, -4.3)	-5.6 (-6.4, -4.7)	NA (NA, NA)
Andean Latin America	0.5 (-1.73, 2.75)	0.77 (-1.12, 2.70)	NA (NA, NA)
Central Latin America	-2.7 (-3.3, -2.0)	-3.4 (-4.1, -2.7)	NA (NA, NA)
Tropical Latin America	-4.1 (-4.8, -3.4)	-4.3 (-5.1, -3.6)	NA (NA, NA)
North Africa and Middle East	3.9 (2.8, 5.0)	2.3 (1.6, 3.1)	NA (NA, NA)
South Asia	6.4 (2.5, 10.5)	11.6 (3.8, 20.0)	NA (NA, NA)
Central Sub-Saharan Africa	-4.4 (-5.5, -3.2)	-5.1 (-6.2, -4.0)	NA (NA, NA)
Eastern Sub-Saharan Africa	-7.3 (-8.9, -5.7)	-7.8 (-9.2, -6.6)	NA (NA, NA)
Southern Sub-Saharan Africa	-6.8 (-9.7, -3.8)	-7.4 (-10.3, -4.4)	NA (NA, NA)
Western Sub-Saharan Africa	-3.5 (-5.1, -1.9)	-4.0 (-5.5, -2.5)	NA (NA, NA)
<b>Typhoid and paratyphoid</b>			
Global	-2.9 (-3.1, -2.7)	-2.2 (-2.5, -2.0)	-3.4 (-3.7, -3.1)
East Asia	-3.9 (-4.3, -3.4)	-2.8 (-3.3, -2.4)	-3.0 (-3.2, -2.7)
Southeast Asia	-2.9 (-3.01, -2.89)	-2.90 (-2.96, -2.85)	-3.22 (-3.27, -3.18)
Oceania	-2.4 (-2.7, -2.2)	-2.2 (-2.4, -2.0)	-3.1 (-3.3, -2.9)
Central Asia	-9.7 (-10.1, -9.4)	-9.8 (-10.2, -9.4)	0.64 (0.36, 0.91)
Central Europe	-1.7 (-2.5, -1.0)	-4.6 (-5.9, -3.4)	-1.6 (-2.0, -1.3)
Eastern Europe	-3.0 (-3.6, -2.4)	-6.0 (-7.2, -4.7)	0.23 (-0.09, 0.56)
High-income Asia Pacific	-2.5 (-2.9, -2.0)	-2.4 (-3.0, -1.8)	-1.3 (-1.5, -1.2)
Australasia	-3.5 (-6.4, -0.5)	-2.1 (-5.2, 1.1)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Western Europe	-4.1 (-5.0, -3.2)	-3.7 (-5.1, -2.4)	-0.12 (-0.39, 0.16)
Southern Latin America	-11.7 (-13.9, -9.4)	-11.9 (-14.5, -9.2)	NA (NA, NA)
High-income North America	2.7 (1.4, 4.0)	3.0 (1.7, 4.3)	-0.28 (-0.91, 0.35)
Caribbean	-2.0 (-2.1, -1.9)	-1.8 (-1.9, -1.7)	-2.2 (-2.4, -2.1)
Andean Latin America	-11.5 (-12.5, -10.6)	-13.6 (-14.6, -12.7)	-0.7 (-0.9, -0.6)
Central Latin America	-9.7 (-11.0, -8.4)	-9.2 (-10.7, -7.6)	-0.8 (-0.9, -0.7)
Tropical Latin America	-4.5 (-4.9, -4.1)	-7.4 (-8.2, -6.7)	-3.4 (-4.0, -2.9)
North Africa and Middle East	-4.4 (-4.5, -4.2)	-4.8 (-4.9, -4.6)	-4.6 (-4.6, -4.5)
South Asia	-3.0 (-3.1, -2.8)	-2.0 (-2.2, -1.8)	-3.2 (-3.5, -2.9)
Central Sub-Saharan Africa	-2.8 (-3.0, -2.6)	-2.7 (-3.0, -2.5)	-4.0 (-4.1, -3.8)
Eastern Sub-Saharan Africa	-2.7 (-2.9, -2.4)	-2.6 (-2.7, -2.5)	-3.6 (-3.7, -3.4)
Southern Sub-Saharan Africa	0.6 (-0.07, 1.20)	0.48 (0.32, 0.64)	0.10 (-0.08, 0.28)
Western Sub-Saharan Africa	-3.4 (-3.5, -3.2)	-2.8 (-2.9, -2.7)	-4.3 (-4.3, -4.2)
<b>Tetanus</b>			
Global	-8.8 (-9.2, -8.5)	-8.8 (-9.1, -8.5)	-8.8 (-9.1, -8.5)
East Asia	-17.2 (-17.9, -16.5)	-17.0 (-17.8, -16.3)	-16.9 (-17.7, -16.1)
Southeast Asia	-9.7 (-9.9, -9.6)	-9.8 (-10.0, -9.7)	-9.9 (-10.1, -9.8)
Oceania	-2.8 (-3.0, -2.5)	-3.0 (-3.4, -2.7)	-4.4 (-4.8, 4.0)
Central Asia	-6.0 (-7.2, -4.8)	-6.3 (-7.6, -5.1)	-5.6 (-6.8, -4.5)
Central Europe	-11.0 (-11.3, -10.8)	-11.9 (-12.1, -11.6)	-10.8 (-11.0, -10.5)
Eastern Europe	-13.2 (-14.4, -12.0)	-13.3 (-14.7, -11.9)	-13.4 (-14.8, -11.9)
High-income Asia Pacific	-12.4 (-12.8, -11.9)	-12.4 (-12.9, -11.9)	-12.5 (-13.0, -12.0)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Australasia	-5.8 (-8.0, -3.5)	-5.5 (-7.5, -3.4)	-6.1 (-6.9, -5.4)
Western Europe	-11.7 (-13.0, -10.3)	-11.8 (-13.2, -10.4)	-11.7 (-13.1, -10.4)
Southern Latin America	-11.1 (-11.6, -10.7)	-11.2 (-11.7, -10.6)	-10.8 (-11.4, -10.2)
High-income North America	-5.9 (-6.5, -5.2)	-5.7 (-6.6, -5.1)	-5.6 (-6.2, -5.0)
Caribbean	-7.3 (-7.6, -6.9)	-7.2 (-7.6, -6.8)	-7.2 (-7.5, -6.8)
Andean Latin America	-13.5 (-13.9, -13.1)	-13.4 (-13.8, -13.0)	-13.3 (-13.7, -12.9)
Central Latin America	-14.1 (-14.8, -13.4)	-14.1 (-14.8, -13.4)	-14.2 (-14.9, -13.5)
Tropical Latin America	-15.5 (-16.0, -15.1)	-15.9 (-16.4, -15.5)	-16.0 (-16.5, -15.5)
North Africa and Middle East	-10.2 (-10.9, -9.5)	-10.1 (-10.8, -9.5)	-10.2 (-11.0, -9.5)
South Asia	-10.3 (-10.7, -9.9)	-10.2 (-10.5, -9.8)	-10.4 (-10.8, -10.1)
Central Sub-Saharan Africa	-4.7 (-5.4, -4.0)	-4.2 (-4.8, -3.5)	-4.1 (-4.8, -3.4)
Eastern Sub-Saharan Africa	-7.1 (-7.4, -6.8)	-6.8 (-7.1, -6.5)	-6.7 (-7.1, -6.4)
Southern Sub-Saharan Africa	-4.7 (-5.1, -4.4)	-4.9 (-5.5, -4.6)	-5.6 (-5.9, -5.4)
Western Sub-Saharan Africa	-8.1 (-8.7, -7.5)	-8.0 (-8.6, -7.4)	-8.0 (-8.5, -7.4)
<b>Other unspecified infectious diseases</b>			
Global	-1.9 (-2.1, -1.7)	-1.6 (-1.8, -1.4)	-1.3 (-1.6, -1.1)
East Asia	-8.1 (-8.6, -7.6)	-7.5 (-8.1, -6.9)	-5.7 (-5.9, -5.5)
Southeast Asia	-2.5 (-2.6, -2.4)	-2.2 (-2.3, -2.1)	-2.05 (-2.17, -1.92)
Oceania	-0.4 (-0.97, 0.17)	-0.64 (-1.35, 0.07)	-0.36 (-1.40, 0.68)
Central Asia	8.0 (5.9, 10.2)	7.9 (5.8, 10.1)	8.9 (6.5, 11.3)
Central Europe	-6.4 (-7.0, -5.8)	-6.9 (-7.3, -6.0)	-5.3 (-5.9, -4.7)
Eastern Europe	0.1 (-0.64, 0.77)	-0.24 (-0.69, 0.21)	-0.52 (-1.03, -0.01)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
High-income Asia Pacific	-1.2 (-1.38, -0.97)	-0.90 (-1.11, -0.70)	-0.98 (-1.25, -0.71)
Australasia	-0.5 (-0.84, -0.10)	-0.40 (-0.73, -0.07)	-0.32 (-0.61, -0.03)
Western Europe	-1.5 (-1.67, -1.28)	-1.30 (-1.52, -1.08)	-0.67 (-0.90, -0.45)
Southern Latin America	-0.6 (-0.94, -0.21)	-0.49 (-0.81, -0.16)	0.24 (-0.05, 0.53)
High-income North America	-0.7 (-0.99, -0.49)	-0.43 (-0.68, -0.18)	0.38 (0.07, 0.68)
Caribbean	0.1 (-0.00, 0.26)	0.31 (0.14, 0.48)	0.42 (0.13, 0.70)
Andean Latin America	-4.4 (-6.9, -1.8)	-4.0 (-6.8, -1.1)	-3.8 (-6.9, -0.6)
Central Latin America	-3.9 (-4.1, -3.7)	-3.4 (-3.6, -3.1)	-3.4 (-3.7, -3.1)
Tropical Latin America	-3.3 (-3.8, -2.8)	-3.3 (-3.8, -2.9)	-3.4 (-4.0, -2.8)
North Africa and Middle East	-3.1 (-3.9, -2.2)	-3.1 (-3.9, -2.3)	-2.4 (-3.4, -1.3)
South Asia	-1.3 (-1.6, -0.9)	-0.9 (-1.4, -0.4)	-1.8 (-2.6, -1.1)
Central Sub-Saharan Africa	-2.9 (-3.4, -2.5)	-2.7 (-3.2, -2.3)	-3.1 (-3.7, -2.4)
Eastern Sub-Saharan Africa	-3.2 (-3.3, -3.1)	-2.7 (-2.8, -2.6)	-2.2 (-2.3, -2.1)
Southern Sub-Saharan Africa	-1.2 (-1.9, -0.5)	-1.2 (-1.9, -0.5)	-1.6 (-2.2, -1.0)
Western Sub-Saharan Africa	-3.0 (-3.6, -2.5)	-2.6 (-3.3, -1.9)	-3.0 (-3.7, -2.2)
<b>Encephalitis</b>			
Global	-2.6 (-2.7, -2.4)	-2.2 (-2.3, -2.0)	-1.7 (-1.9, -1.6)
East Asia	-5.8 (-6.3, -5.3)	-5.6 (-6.2, -4.9)	-4.4 (-4.9, -3.9)
Southeast Asia	-0.9 (-0.92, -0.80)	-0.80 (-0.89, -0.72)	-0.66 (-0.71, -0.62)
Oceania	0.9 (0.68, 1.16)	0.99 (0.82, 1.17)	0.47 (0.29, 0.65)
Central Asia	-1.6 (-2.1, -1.1)	-2.1 (-2.6, -1.6)	-1.2 (-1.6, -0.8)
Central Europe	-5.1 (-5.9, -5.0)	-6.0 (-6.5, -5.5)	-4.1 (-4.6, -3.7)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Eastern Europe	-2.4 (-2.6, -2.2)	-2.8 (-3.00, -2.6)	-2.6 (-3.0, -2.3)
High-income Asia Pacific	-1.9 (-2.5, -1.3)	-1.1 (-1.6, -0.6)	-1.4 (-1.9, -0.9)
Australasia	2.6 (1.9, 3.3)	3.1 (2.4, 3.8)	2.5 (1.8, 3.2)
Western Europe	0.1 (-0.13, 0.30)	0.05 (-0.17, 0.26)	1.08 (0.88, 1.28)
Southern Latin America	-1.5 (-2.2, -0.8)	-2.1 (-2.8, -1.3)	-1.1 (-1.7, -0.5)
High-income North America	1.7 (1.1, 2.3)	2.1 (1.4, 2.7)	1.9 (1.2, 2.5)
Caribbean	-2.3 (-3.0, -1.6)	-2.1 (-2.8, -1.3)	-2.1 (-2.7, -1.5)
Andean Latin America	-3.2 (-3.6, -2.7)	-3.1 (-3.6, -2.6)	-2.6 (-2.9, -2.2)
Central Latin America	-2.4 (-2.9, -1.9)	-2.1 (-2.6, -1.7)	-1.7 (-2.2, -1.2)
Tropical Latin America	-3.1 (-3.4, -2.9)	-4.0 (-4.2, -3.7)	-2.9 (-3.2, -2.6)
North Africa and Middle East	-2.0 (-2.2, -1.9)	-2.2 (-2.3, -2.0)	-1.9 (-2.0, -1.7)
South Asia	-2.7 (-3.0, -2.5)	-2.0 (-2.3, -1.8)	-2.0 (-2.3, -1.8)
Central Sub-Saharan Africa	-1.4 (-1.6, -1.2)	-1.6 (-1.8, -1.5)	-2.2 (-2.4, -1.9)
Eastern Sub-Saharan Africa	-1.5 (-1.56, -1.42)	-1.15 (-1.21, -1.10)	-0.29 (-0.36, -0.23)
Southern Sub-Saharan Africa	-0.2 (-0.46, 0.05)	-0.42 (-0.78, -0.06)	-0.37 (-0.60, -0.14)
Western Sub-Saharan Africa	-1.7 (-2.0, -1.4)	-1.4 (-1.8, -1.1)	-2.8 (-3.3, -2.3)
<b>Acute hepatitis</b>			
Global	-3.7 (-4.3, -3.1)	-2.9 (-3.4, -2.5)	NA (NA, NA)
East Asia	-14.0 (-14.6, -13.3)	-13.8 (-14.6, -12.9)	NA (NA, NA)
Southeast Asia	-7.2 (-7.5, -7.0)	-6.3 (-6.6, -6.1)	NA (NA, NA)
Oceania	-4.9 (-5.3, -4.6)	-5.0 (-5.3, -4.6)	NA (NA, NA)
Central Asia	-8.8 (-9.2, -8.5)	-8.5 (-8.9, -8.1)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Europe	-5.8 (-6.5, -5.1)	-6.0 (-6.6, -5.3)	NA (NA, NA)
Eastern Europe	-6.3 (-7.0, -5.6)	-6.3 (-6.7, -5.8)	NA (NA, NA)
High-income Asia Pacific	-8.5 (-9.8, -7.2)	-8.4 (-9.7, -7.1)	NA (NA, NA)
Australasia	-4.3 (-5.1, -3.6)	-4.1 (-4.9, -3.4)	NA (NA, NA)
Western Europe	-4.0 (-4.9, -3.2)	-4.0 (-4.8, -3.2)	NA (NA, NA)
Southern Latin America	-7.2 (-7.6, -6.8)	-8.3 (-8.8, -7.8)	NA (NA, NA)
High-income North America	-5.0 (-6.0, -3.9)	-4.8 (-5.8, -3.8)	NA (NA, NA)
Caribbean	-2.6 (-2.7, -2.5)	-2.2 (-2.4, -2.0)	NA (NA, NA)
Andean Latin America	-6.4 (-6.66, -6.06)	-5.8 (-6.2, -5.5)	NA (NA, NA)
Central Latin America	-4.1 (-4.5, -3.8)	-4.2 (-4.4, -4.0)	NA (NA, NA)
Tropical Latin America	-6.5 (-7.1, -6.0)	-6.8 (-7.2, -6.3)	NA (NA, NA)
North Africa and Middle East	-6.7 (-7.1, -6.3)	-6.3 (-6.6, -5.9)	NA (NA, NA)
South Asia	-2.4 (-3.0, -1.8)	-1.2 (-1.8, -0.6)	NA (NA, NA)
Central Sub-Saharan Africa	-7.6 (-8.1, -7.0)	-6.2 (-6.8, -5.7)	NA (NA, NA)
Eastern Sub-Saharan Africa	-4.4 (-4.53, -4.35)	-4.1 (-4.3, -3.9)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.5 (-2.5, -0.5)	-3.1 (-3.6, -2.6)	NA (NA, NA)
Western Sub-Saharan Africa	-7.4 (-8.0, -6.7)	-6.3 (-6.9, -5.7)	NA (NA, NA)
<b>Dengue</b>			
Global	0.2 (0.01, 0.49)	0.42 (0.21, 0.63)	-0.66 (-0.73, -0.59)
East Asia	-8.5 (-9.0, -8.1)	-8.4 (-9.1, -7.8)	-7.3 (-7.8, -6.9)
Southeast Asia	0.4 (0.21, 0.65)	0.29 (0.08, 0.49)	-0.49 (-0.60, -0.38)
Oceania	-4.4 (-6.7, -2.1)	-4.4 (-5.8, -3.0)	-3.8 (-5.2, -2.4)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	-3.7 (-4.4, -3.0)	-3.4 (-4.0, -2.8)	-3.8 (-4.2, -3.3)
Australasia	11.5 (9.2, 13.7)	13.2 (11.0, 15.3)	11.2 (8.8, 13.6)
Western Europe	-0.1 (-1.75, 1.67)	1.2 (-0.7, 3.1)	2.9 (0.9, 4.8)
Southern Latin America	-10.7 (-11.6, -9.7)	-4.7 (-5.3, -4.0)	-1.4 (-2.2, -0.5)
High-income North America	8.4 (7.2, 9.5)	8.4 (7.2, 9.6)	9.1 (7.9, 10.3)
Caribbean	0.3 (-2.67, 3.34)	-0.11 (-2.93, 2.80)	2.0 (-0.2, 4.6)
Andean Latin America	1.2 (-1.7, 4.2)	1.5 (-1.2, 4.2)	0.3 (-2.6, 3.4)
Central Latin America	5.3 (3.7, 6.8)	5.4 (4.2, 6.6)	4.6 (3.0, 6.4)
Tropical Latin America	6.2 (4.5, 8.0)	5.8 (4.2, 7.5)	7.5 (5.8, 9.2)
North Africa and Middle East	-3.9 (-7.3, -0.3)	-5.4 (-8.5, -2.2)	-4.9 (-7.5, -2.2)
South Asia	1.3 (1.0, 1.6)	2.9 (2.6, 3.3)	1.9 (1.6, 2.2)
Central Sub-Saharan Africa	6.8 (5.5, 8.1)	8.5 (7.4, 9.6)	-0.9 (-1.4, -0.3)
Eastern Sub-Saharan Africa	2.7 (2.0, 3.3)	1.4 (1.0, 1.9)	-0.7 (-1.0, -0.5)
Southern Sub-Saharan Africa	1.4 (0.2, 2.6)	0.09 (-0.04, 0.22)	1.5 (1.3, 1.7)
Western Sub-Saharan Africa	0.2 (-1.98, 2.42)	0.83 (-1.03, 2.72)	0.07 (-1.66, 1.83)
<b>Other neglected tropical diseases</b>			
Global	1.1 (1.05, 1.24)	1.11 (1.06, 1.17)	0.76 (0.70, 0.82)
East Asia	-5.0 (-5.7, -4.2)	-4.6 (-5.3, -3.9)	-3.7 (-4.4, -3.0)
Southeast Asia	-0.8 (-0.90, -0.61)	-0.68 (-0.86, -0.50)	-1.01 (-1.14, -0.87)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Oceania	-1.0 (-1.33, -0.74)	-1.10 (-1.35, -0.85)	0.10 (-0.03, 0.24)
Central Asia	-0.2 (-0.41, 0.08)	-1.02 (-1.40, -0.63)	-0.99 (-1.32, -0.66)
Central Europe	-6.5 (-6.9, -6.0)	-6.8 (-7.3, -6.4)	-4.9 (-5.2, -4.6)
Eastern Europe	-2.0 (-2.2, -1.5)	-2.3 (-2.5, -2.0)	-2.0 (-2.3, -1.8)
High-income Asia Pacific	-3.1 (-3.7, -2.4)	-2.8 (-3.6, -2.0)	-3.3 (-4.1, -2.5)
Australasia	-3.2 (-3.9, -2.5)	-3.2 (-3.9, -2.6)	-3.8 (-4.3, -3.3)
Western Europe	-3.3 (-3.7, 3.0)	-3.2 (-3.6, -2.7)	-2.4 (-2.8, -2.1)
Southern Latin America	-1.3 (-2.2, -0.3)	-1.3 (-2.4, -0.3)	-0.14 (-1.15, 0.89)
High-income North America	3.1 (2.5, 3.7)	3.3 (2.6, 3.9)	3.3 (2.6, 3.9)
Caribbean	-1.6 (-1.9, -1.4)	-1.1 (-1.4, -0.8)	-0.24 (-0.57, 0.09)
Andean Latin America	-4.9 (-5.4, -4.5)	-4.3 (-4.9, -3.7)	-4.0 (-4.5, -3.5)
Central Latin America	-5.7 (-6.6, -4.8)	-4.6 (-5.4, -3.8)	-3.5 (-4.3, -2.8)
Tropical Latin America	-3.9 (-4.4, -3.3)	-3.8 (-4.4, -3.3)	-1.5 (-2.0, -1.1)
North Africa and Middle East	-0.2 (-0.64, 0.25)	-0.20 (-0.60, 0.19)	1.12 (0.58, 1.65)
South Asia	0.7 (0.32, 0.99)	0.87 (0.52, 1.22)	0.28 (-0.05, 0.61)
Central Sub-Saharan Africa	-1.2 (-1.31, -1.00)	-0.82 (-0.97, -0.67)	-1.73 (-1.88, -1.59)
Eastern Sub-Saharan Africa	-0.6 (-0.80, -0.48)	-0.42 (-0.53, -0.30)	-0.81 (-0.86, -0.75)
Southern Sub-Saharan Africa	1.0 (0.70, 1.26)	0.71 (0.53, 0.90)	0.20 (0.05, 0.35)
Western Sub-Saharan Africa	-0.3 (-0.38, -0.15)	0.11 (0.00, 0.22)	-0.74 (-0.78, -0.70)
<b>Varicella and herpes zoster</b>			
Global	-1.6 (-1.7, -1.5)	-1.5 (-1.6, -1.4)	-2.3 (-2.4, -2.2)
East Asia	-7.5 (-7.8, -7.2)	-7.2 (-7.5, -6.8)	-7.1 (-7.4, -6.8)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Southeast Asia	-2.1 (-2.3, -1.8)	-2.0 (-2.2, -1.8)	-2.5 (-2.6, -2.3)
Oceania	0.1 (-0.16, 0.38)	0.03 (-0.19, 0.26)	-0.24 (-0.36, -0.12)
Central Asia	-1.2 (-1.4, -0.9)	-1.3 (-1.6, -1.0)	-1.0 (-1.3, -0.6)
Central Europe	-7.0 (-7.4, -6.6)	-7.7 (-8.8, -7.3)	-7.2 (-7.8, -6.7)
Eastern Europe	-0.0 (-0.51, 0.51)	-0.21 (-0.61, 0.20)	-1.67 (-1.94, -1.41)
High-income Asia Pacific	-5.4 (-6.2, -4.7)	-5.3 (-6.2, -4.5)	-5.3 (-6.2, -4.4)
Australasia	-0.5 (-1.12, 0.14)	0.04 (-0.60, 0.68)	0.27 (-0.36, 0.90)
Western Europe	-2.4 (-2.7, -2.2)	-2.1 (-2.4, -1.8)	-1.1 (-1.4, -0.8)
Southern Latin America	-3.0 (-3.3, -2.8)	-4.7 (-4.3, -3.9)	-2.4 (-2.6, -2.2)
High-income North America	-1.4 (-1.8, -0.9)	-0.8 (-1.2, -0.4)	-0.38 (-0.73, -0.03)
Caribbean	-0.4 (-0.58, -0.14)	-0.23 (-0.42, -0.04)	-0.85 (-1.06, -0.63)
Andean Latin America	-4.3 (-4.4, -4.1)	-4.1 (-4.2, -4.00)	-4.2 (-4.4, -4.1)
Central Latin America	-5.1 (-5.6, -4.5)	-5.7 (-6.2, -5.2)	-4.3 (-4.9, -3.7)
Tropical Latin America	-2.5 (-3.6, -1.5)	-2.9 (-3.8, -1.9)	-0.4 (-0.9, 0.2)
North Africa and Middle East	-2.5 (-2.6, -2.3)	-2.56 (-2.63, -2.48)	-3.0 (-3.1, -2.9)
South Asia	-1.9 (-2.0, -1.8)	-1.56 (-1.64, -1.49)	-2.8 (-2.9, -2.7)
Central Sub-Saharan Africa	-2.1 (-2.3, -1.9)	-2.0 (-2.1, -1.8)	-3.0 (-3.6, -2.8)
Eastern Sub-Saharan Africa	-1.6 (-1.8, -1.5)	-1.5 (-1.6, -1.4)	-2.16 (-2.22, -2.10)
Southern Sub-Saharan Africa	-0.1 (-0.32, 0.12)	-0.20 (-0.54, 0.15)	-0.59 (-0.94, -0.24)
Western Sub-Saharan Africa	-1.2 (-1.4, -1.1)	-0.96 (-1.07, -0.85)	-1.88 (-1.98, -1.78)
<b>Upper respiratory infections</b>			
Global	-2.0 (-2.1, -1.9)	-1.9 (-2.0, -1.8)	-2.9 (-3.0, -2.8)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
East Asia	-12.4 (-13.1, -11.8)	-12.1 (-13.0, -11.2)	-11.7 (-12.3, -11.0)
Southeast Asia	-3.8 (-3.86, -3.75)	-3.84 (-3.92, -3.75)	-3.89 (-3.96, -3.83)
Oceania	-2.7 (-2.8, -2.6)	-2.7 (-2.8, -2.7)	-1.9 (-2.0, -1.7)
Central Asia	-2.8 (-3.2, -2.4)	-3.1 (-3.5, -2.7)	-2.5 (-3.0, -2.1)
Central Europe	-8.2 (-8.7, -7.7)	-8.5 (-9.0, -8.0)	-7.6 (-8.1, -7.0)
Eastern Europe	-6.9 (-7.2, -6.5)	-7.1 (-7.5, -6.7)	-7.9 (-8.2, -7.2)
High-income Asia Pacific	-11.0 (-11.4, -10.5)	-10.5 (-11.1, -9.9)	-11.3 (-11.9, -10.8)
Australasia	-4.1 (-5.2, -2.9)	-3.6 (-4.7, -2.4)	-3.6 (-4.7, -2.5)
Western Europe	-6.0 (-6.3, -5.7)	-6.5 (-6.9, -6.1)	-5.7 (-6.0, -5.5)
Southern Latin America	-6.9 (-7.5, -6.3)	-7.7 (-8.3, -7.0)	-5.8 (-6.6, -5.1)
High-income North America	-3.3 (-3.9, -2.6)	-3.1 (-3.8, -2.4)	-3.0 (-3.5, -2.5)
Caribbean	-1.8 (-2.1, -1.6)	-1.6 (-1.9, -1.4)	-1.3 (-1.6, -1.1)
Andean Latin America	-6.8 (-7.1, -6.5)	-6.6 (-6.9, -6.3)	-6.3 (-6.6, -6.0)
Central Latin America	-9.1 (-9.5, -8.7)	-9.0 (-9.5, -8.5)	-8.1 (-8.6, -7.6)
Tropical Latin America	-5.0 (-5.4, -4.7)	-5.6 (-5.9, -5.2)	-3.9 (-4.2, -3.5)
North Africa and Middle East	-2.9 (-3.4, -2.5)	-3.0 (-3.4, -2.5)	-2.6 (-3.0, -2.1)
South Asia	-2.4 (-2.5, -2.3)	-2.0 (-2.2, -1.8)	-3.0 (-3.1, -2.9)
Central Sub-Saharan Africa	-2.5 (-2.9, -2.2)	-2.6 (-2.9, -2.3)	-3.6 (-3.9, -3.3)
Eastern Sub-Saharan Africa	-1.8 (-1.9, -1.7)	-1.9 (-2.0, -1.8)	-2.14 (-2.21, -2.07)
Southern Sub-Saharan Africa	-1.3 (-1.5, -1.2)	-1.6 (-1.8, -1.3)	-1.5 (-1.6, -1.3)
Western Sub-Saharan Africa	-1.3 (-1.5, -1.2)	-1.3 (-1.4, -1.2)	-2.2 (-2.3, -2.1)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
<b>Diphtheria</b>			
Global	-5.6 (-6.1, -5.2)	-5.0 (-5.4, -4.7)	NA (NA, NA)
East Asia	-14.8 (-15.2, -14.5)	-15.0 (-15.4, -14.6)	NA (NA, NA)
Southeast Asia	-8.9 (-9.4, -8.4)	-8.3 (-8.7, -7.9)	NA (NA, NA)
Oceania	-0.8 (-1.8, 0.2)	-0.6 (-1.4, 0.3)	NA (NA, NA)
Central Asia	-10.8 (-11.8, -9.9)	-11.0 (-12.1, -9.9)	NA (NA, NA)
Central Europe	-9.1 (-10.3, -7.8)	-9.2 (-11.0, -7.3)	NA (NA, NA)
Eastern Europe	-21.2 (-24.6, -17.5)	-16.6 (-21.2, -11.7)	NA (NA, NA)
High-income Asia Pacific	-4.0 (-5.3, -2.6)	-3.1 (-4.5, -1.7)	NA (NA, NA)
Australasia	2.4 (-2.5, 7.6)	4.5 (-0.8, 10.1)	NA (NA, NA)
Western Europe	-1.8 (-3.9, 0.3)	-2.3 (-4.3, -0.2)	NA (NA, NA)
Southern Latin America	-15.1 (-20.2, -9.6)	-17.2 (-21.9, -12.1)	NA (NA, NA)
High-income North America	2.8 (2.0, 3.7)	3.1 (2.3, 3.9)	NA (NA, NA)
Caribbean	-5.4 (-6.2, -4.5)	-4.9 (-5.7, -4.2)	NA (NA, NA)
Andean Latin America	-12.6 (-13.4, -11.9)	-12.0 (-12.7, -11.3)	NA (NA, NA)
Central Latin America	-11.5 (-12.9, -10.1)	-13.2 (-14.5, -11.8)	NA (NA, NA)
Tropical Latin America	-11.7 (-14.2, -9.2)	-11.0 (-13.4, -8.5)	NA (NA, NA)
North Africa and Middle East	-10.5 (-11.4, -9.7)	-9.2 (-9.9, -8.5)	NA (NA, NA)
South Asia	-11.7 (-12.4, -11.0)	-9.1 (-9.8, -8.4)	NA (NA, NA)
Central Sub-Saharan Africa	-9.2 (-10.1, -8.7)	-8.2 (-9.1, -7.3)	NA (NA, NA)
Eastern Sub-Saharan Africa	-7.5 (-7.9, -7.2)	-5.9 (-6.3, -5.6)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.6 (-2.1, -1.0)	-1.8 (-3.0, -0.6)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Western Sub-Saharan Africa	-6.1 (-6.8, -5.5)	-4.5 (-5.0, -4.1)	NA (NA, NA)
<b>Bacterial skin diseases</b>			
Global	-2.4 (-2.7, -2.1)	-2.0 (-2.2, -1.8)	-2.0 (-2.2, -1.9)
East Asia	-10.7 (-11.4, -10.1)	-10.3 (-11.0, -9.6)	-8.8 (-9.4, -8.2)
Southeast Asia	-1.4 (-1.5, -1.2)	-1.5 (-1.6, -1.4)	-1.9 (-2.1, -1.8)
Oceania	0.01 (-0.21, 0.24)	-0.04 (-0.23, 0.15)	-0.39 (-0.58, -0.20)
Central Asia	4.1 (3.4, 4.9)	3.9 (3.1, 4.6)	7.2 (6.2, 8.1)
Central Europe	-0.7 (-2.0, 0.5)	-1.0 (-2.3, 0.3)	-0.1 (-1.4, 1.2)
Eastern Europe	-0.6 (-0.95, -0.18)	-0.90 (-1.35, -0.44)	-0.52 (-0.96, -0.08)
High-income Asia Pacific	1.1 (0.9, 1.3)	1.1 (0.9, 1.4)	0.18 (-0.11, 0.47)
Australasia	1.9 (1.3, 2.5)	2.0 (1.4, 2.7)	1.2 (0.7, 1.6)
Western Europe	1.0 (0.7, 1.3)	0.72 (0.50, 0.93)	1.00 (0.87, 1.14)
Southern Latin America	3.7 (2.9, 4.4)	3.4 (2.6, 4.2)	5.0 (3.9, 6.1)
High-income North America	1.8 (1.0, 2.5)	1.8 (1.1, 2.5)	1.8 (1.2, 2.4)
Caribbean	1.4 (1.3, 1.6)	2.1 (1.8, 2.4)	3.2 (2.7, 3.8)
Andean Latin America	-2.0 (-3.3, -0.9)	-1.1 (-2.4, 0.2)	1.5 (0.3, 2.7)
Central Latin America	-0.5 (-1.17, 0.09)	-0.17 (-0.80, 0.47)	0.30 (-0.23, 0.82)
Tropical Latin America	-0.9 (-1.4, -0.5)	-1.2 (-1.7, -0.8)	-0.4 (-0.9, 0.02)
North Africa and Middle East	-2.3 (-2.6, -2.1)	-2.5 (-2.7, -2.3)	-2.3 (-2.5, -2.0)
South Asia	-3.1 (-3.5, -2.8)	-2.4 (-2.7, -2.1)	-3.5 (-3.6, -3.4)
Central Sub-Saharan Africa	-2.6 (-2.9, -2.2)	-2.5 (-2.7, -2.2)	-2.9 (-3.2, -2.7)
Eastern Sub-Saharan Africa	-2.3 (-2.4, -2.2)	-2.08 (-2.17, -1.99)	-2.04 (-2.08, -2.01)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Southern Sub-Saharan Africa	-1.8 (-2.2, -1.5)	-1.9 (-2.3, -1.4)	-0.90 (-1.02, -0.79)
Western Sub-Saharan Africa	1.2 (0.3, 2.1)	1.4 (0.5, 2.3)	0.66 (-0.23, 1.56)
<b>Rabies</b>			
Global	-3.3 (-3.7, -2.9)	-2.9 (-3.3, -2.5)	NA (NA, NA)
East Asia	-5.2 (-7.4, -2.9)	-3.3 (-6.0, -0.5)	NA (NA, NA)
Southeast Asia	-5.6 (-6.0, -5.3)	-5.8 (-6.4, -5.1)	NA (NA, NA)
Oceania	3.4 (2.6, 4.2)	3.3 (2.5, 4.1)	NA (NA, NA)
Central Asia	-2.8 (-3.7, -1.9)	4.5 (1.5, 7.6)	NA (NA, NA)
Central Europe	-9.2 (-11.2, -7.1)	-10.3 (-12.4, -8.0)	NA (NA, NA)
Eastern Europe	-5.9 (-6.6, -5.2)	-6.6 (-7.6, -5.5)	NA (NA, NA)
High-income Asia Pacific	-7.0 (-8.8, -5.3)	-6.7 (-8.4, -4.9)	NA (NA, NA)
Australasia	6.4 (1.6, 11.3)	5.5 (0.8, 10.4)	NA (NA, NA)
Western Europe	3.4 (2.2, 4.5)	3.6 (2.3, 4.8)	NA (NA, NA)
Southern Latin America	-4.8 (-6.1, -3.4)	-5.2 (-6.8, -3.6)	NA (NA, NA)
High-income North America	2.7 (2.0, 3.3)	2.9 (2.3, 3.6)	NA (NA, NA)
Caribbean	-0.4 (-1.7, 0.9)	-1.4 (-2.4, -0.3)	NA (NA, NA)
Andean Latin America	-25.8 (-28.8, -22.7)	-20.2 (-22.5, -17.9)	NA (NA, NA)
Central Latin America	-23.6 (-24.7, -22.4)	-20.0 (-21.3, -18.6)	NA (NA, NA)
Tropical Latin America	-19.0 (-20.9, -17.1)	-17.8 (-19.3, -16.2)	NA (NA, NA)
North Africa and Middle East	-9.4 (-10.1, -8.7)	-9.0 (-9.7, -8.3)	NA (NA, NA)
South Asia	-5.2 (-5.6, -4.9)	-3.1 (-3.5, -2.7)	NA (NA, NA)
Central Sub-Saharan Africa	-3.0 (-3.3, -2.6)	-3.7 (-4.0, -3.5)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Eastern Sub-Saharan Africa	-4.6 (-4.7, -4.5)	-4.4 (-4.5, -4.2)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.3 (-2.0, -0.5)	-1.2 (-1.6, -0.7)	NA (NA, NA)
Western Sub-Saharan Africa	-2.2 (-2.5, -2.0)	-1.5 (-1.7, -1.2)	NA (NA, NA)
<b>Endocarditis</b>			
Global	-2.5 (-2.6, -2.4)	-2.5 (-2.6, -2.4)	-3.1 (-3.2, -2.9)
East Asia	-8.7 (-9.3, -8.2)	-8.6 (-9.3, -7.9)	-7.2 (-7.9, -6.6)
Southeast Asia	-2.1 (-2.2, -2.0)	-2.0 (-2.1, -1.9)	-1.9 (-2.0, -1.8)
Oceania	0.8 (0.3, 1.4)	0.9 (0.3, 1.5)	0.44 (0.12, 0.76)
Central Asia	-3.0 (-3.5, -2.4)	-3.4 (-3.9, -3.0)	-3.0 (-3.4, -2.5)
Central Europe	-2.4 (-2.7, -2.1)	-3.0 (-3.2, -2.7)	-1.5 (-1.7, -1.2)
Eastern Europe	0.3 (-0.22, 0.80)	0.03 (-0.37, 0.43)	-0.26 (-0.64, 0.12)
High-income Asia Pacific	-3.5 (-4.1, -3.0)	-3.5 (-3.9, -3.0)	-3.9 (-4.4, -3.4)
Australasia	-0.1 (-0.62, 0.51)	0.42 (-0.08, 0.93)	-0.46 (-0.77, -0.15)
Western Europe	0.7 (0.2, 1.2)	0.8 (0.4, 1.2)	1.5 (1.2, 1.9)
Southern Latin America	-4.1 (-4.5, -3.8)	-4.9 (-5.3, -4.5)	-2.9 (-3.2, -2.6)
High-income North America	-1.7 (-1.9, -1.4)	-1.8 (-2.1, -1.6)	-3.4 (-3.8, -3.0)
Caribbean	0.6 (0.5, 0.8)	0.77 (0.67, 0.86)	0.86 (0.66, 1.05)
Andean Latin America	-2.3 (-2.5, -2.0)	-2.2 (-2.4, -1.9)	-2.1 (-2.4, -1.8)
Central Latin America	-0.9 (-1.5, -0.2)	-0.8 (-1.4, -0.2)	-0.60 (-1.25, 0.06)
Tropical Latin America	-1.8 (-2.4, -1.2)	-1.8 (-2.4, -1.2)	-1.9 (-2.4, -1.4)
North Africa and Middle East	-3.7 (-3.9, -3.6)	-3.9 (-4.0, -3.8)	-3.6 (-3.8, -3.5)
South Asia	-1.0 (-1.2, -0.9)	-0.8 (-1.0, -0.6)	-1.41 (-1.45, -1.37)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Sub-Saharan Africa	-3.0 (-3.2, -2.7)	-2.9 (-3.2, -2.7)	-3.1 (-3.3, -2.9)
Eastern Sub-Saharan Africa	-2.6 (-2.7, -2.5)	-2.2 (-2.3, -2.1)	-1.3 (-1.4, -1.3)
Southern Sub-Saharan Africa	-1.1 (-1.9, -0.2)	-0.7 (-1.1, -0.2)	-1.1 (-1.3, -1.0)
Western Sub-Saharan Africa	-0.7 (-0.9, -0.5)	-0.5 (-0.6, -0.3)	-1.2 (-1.4, -1.1)
<b>Rheumatic heart disease</b>			
Global	-5.5 (-5.6, -5.4)	NA (NA, NA)	NA (NA, NA)
East Asia	-11.5 (-11.9, -11.1)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	-6.2 (-6.3, -6.1)	NA (NA, NA)	NA (NA, NA)
Oceania	-1.0 (-1.4, -0.6)	NA (NA, NA)	NA (NA, NA)
Central Asia	-4.3 (-4.5, -4.0)	NA (NA, NA)	NA (NA, NA)
Central Europe	-8.1 (-8.7, -7.6)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	-9.4 (-9.9, 9.0)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	-5.8 (-6.0, -5.5)	NA (NA, NA)	NA (NA, NA)
Australasia	-5.3 (-5.8, -4.8)	NA (NA, NA)	NA (NA, NA)
Western Europe	-4.6 (-4.8, -4.4)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-7.3 (-7.5, -7.1)	NA (NA, NA)	NA (NA, NA)
High-income North America	-4.3 (-5.0, -3.7)	NA (NA, NA)	NA (NA, NA)
Caribbean	-3.2 (-3.6, -2.8)	NA (NA, NA)	NA (NA, NA)
Andean Latin America	-6.7 (-7.0, -6.5)	NA (NA, NA)	NA (NA, NA)
Central Latin America	-7.8 (-8.2, -7.3)	NA (NA, NA)	NA (NA, NA)
Tropical Latin America	-5.8 (-6.2, -5.4)	NA (NA, NA)	NA (NA, NA)
North Africa and Middle East	-6.1 (-6.2, -5.9)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
South Asia	-5.4 (-5.5, -5.3)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-6.6 (-7.0, -6.1)	NA (NA, NA)	NA (NA, NA)
Eastern Sub-Saharan Africa	-6.7 (-6.9, -6.5)	NA (NA, NA)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.2 (-3.6, 1.3)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	-5.7 (-5.8, -5.5)	NA (NA, NA)	NA (NA, NA)
<b>Leishmaniasis</b>			
Global	-7.1 (-8.1, -6.2)	-5.5 (-7.4, -3.5)	NA (NA, NA)
East Asia	-6.2 (-6.5, -5.9)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	-7.1 (-7.8, -6.4)	NA (NA, NA)	NA (NA, NA)
Oceania	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Asia	2.2 (1.5, 2.9)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	-11.2 (-12.1, -10.3)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	-4.1 (-4.9, -3.2)	-5.2 (-6.1, -4.2)	NA (NA, NA)
Southern Latin America	-3.0 (-3.9, -2.2)	NA (NA, NA)	NA (NA, NA)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-6.1 (-7.2, -4.9)	NA (NA, NA)	NA (NA, NA)
Andean Latin America	-7.4 (-8.5, -6.3)	NA (NA, NA)	NA (NA, NA)
Central Latin America	-5.1 (-6.0, -4.2)	NA (NA, NA)	NA (NA, NA)
Tropical Latin America	-1.7 (-2.1, -1.4)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
North Africa and Middle East	-7.2 (-7.6, -6.8)	NA (NA, NA)	NA (NA, NA)
South Asia	-9.8 (-11.0, -8.5)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-3.2 (-5.9, -0.4)	-3.0 (-5.8, -0.2)	NA (NA, NA)
Eastern Sub-Saharan Africa	-8.0 (-9.8, -6.1)	-7.8 (-9.7, -5.9)	NA (NA, NA)
Southern Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	7.4 (3.9, 11.1)	7.8 (4.2, 11.6)	NA (NA, NA)
<b>Intestinal nematode infections</b>			
Global	-5.1 (-5.2, -4.9)	-4.2 (-4.3, -3.99)	NA (NA, NA)
East Asia	-14.1 (-14.8, -13.5)	-14.9 (-15.8, -13.9)	NA (NA, NA)
Southeast Asia	-8.5 (-8.8, -8.1)	-8.0 (-8.3, -7.7)	NA (NA, NA)
Oceania	-1.6 (-1.8, -1.3)	-0.8 (-1.3, -0.3)	NA (NA, NA)
Central Asia	-4.9 (-5.2, -4.6)	-4.5 (-4.8, -4.2)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	-9.4 (-9.9, -8.8)	-8.9 (-9.5, -8.3)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-4.1 (-4.6, -3.7)	-5.9 (-6.3, -5.5)	NA (NA, NA)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-4.8 (-5.0, -4.5)	-4.4 (-4.7, -4.0)	NA (NA, NA)
Andean Latin America	-5.0 (-5.2, -4.7)	-4.2 (-4.6, -3.9)	NA (NA, NA)
Central Latin America	-6.6 (-7.0, -6.1)	-6.6 (-6.9, -6.2)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Tropical Latin America	-5.6 (-6.4, -4.8)	-6.3 (-7.2, -5.3)	NA (NA, NA)
North Africa and Middle East	-5.5 (-6.0, -5.0)	-4.2 (-5.0, -3.8)	NA (NA, NA)
South Asia	-7.4 (-7.7, -7.2)	-4.7 (-5.0, -4.4)	NA (NA, NA)
Central Sub-Saharan Africa	-7.2 (-8.0, -6.4)	-6.2 (-6.8, -5.5)	NA (NA, NA)
Eastern Sub-Saharan Africa	-6.4 (-6.6, -6.1)	-5.2 (-5.3, -5.0)	NA (NA, NA)
Southern Sub-Saharan Africa	1.1 (-0.7, 2.8)	-0.4 (-0.8, -0.1)	NA (NA, NA)
Western Sub-Saharan Africa	-5.9 (-6.2, -5.7)	-4.1 (-4.4, -3.9)	NA (NA, NA)
<b>Other intestinal infectious diseases</b>			
Global	-3.9 (-4.7, -3.7)	-3.4 (-3.5, -3.2)	NA (NA, NA)
East Asia	-10.0 (-10.3, -9.7)	-10.1 (-10.7, -9.6)	NA (NA, NA)
Southeast Asia	-5.1 (-5.2, -5.0)	-4.8 (-5.0, -4.7)	NA (NA, NA)
Oceania	-1.2 (-1.7, -0.8)	-1.1 (-1.6, -0.7)	NA (NA, NA)
Central Asia	-4.3 (-4.5, -4.1)	-4.5 (-4.8, -4.2)	NA (NA, NA)
Central Europe	-7.1 (-7.2, -6.9)	-7.6 (-7.8, -7.4)	NA (NA, NA)
Eastern Europe	-4.8 (-5.4, -4.3)	-5.1 (-5.5, -4.7)	NA (NA, NA)
High-income Asia Pacific	-4.7 (-4.9, -4.6)	-4.5 (-4.6, -4.4)	NA (NA, NA)
Australasia	-3.8 (-4.1, -3.5)	-3.6 (-3.9, -3.3)	NA (NA, NA)
Western Europe	-4.8 (-4.9, -4.6)	-4.9 (-5.1, -4.7)	NA (NA, NA)
Southern Latin America	-4.8 (-5.1, -4.6)	-5.2 (-5.4, -5.0)	NA (NA, NA)
High-income North America	-2.5 (-2.7, -2.3)	-2.3 (-2.5, -2.2)	NA (NA, NA)
Caribbean	-2.5 (-2.8, -2.2)	-2.3 (-2.5, -2.1)	NA (NA, NA)
Andean Latin America	-6.1 (-6.2, -5.9)	-5.6 (-5.8, -5.5)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Latin America	-5.1 (-5.3, -4.8)	-5.0 (-5.2, -4.7)	NA (NA, NA)
Tropical Latin America	-6.2 (-6.5, -6.0)	-6.5 (-6.8, -6.3)	NA (NA, NA)
North Africa and Middle East	-5.5 (-5.7, -5.3)	-5.3 (-5.4, -5.2)	NA (NA, NA)
South Asia	-4.4 (-4.5, -4.2)	-3.3 (-3.5, -3.1)	NA (NA, NA)
Central Sub-Saharan Africa	-5.2 (-5.8, -4.7)	-4.5 (-5.0, -4.0)	NA (NA, NA)
Eastern Sub-Saharan Africa	-5.7 (-5.8, -5.6)	-4.9 (-5.0, -4.8)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.9 (-2.2, -1.6)	-2.0 (-2.6, -1.4)	NA (NA, NA)
Western Sub-Saharan Africa	-4.3 (-4.6, -4.0)	-3.1 (-3.3, -2.9)	NA (NA, NA)
<b>Yellow fever</b>			
Global	-3.7 (-4.1, -3.4)	-3.9 (-4.3, -3.6)	-4.8 (-5.2, -4.4)
East Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Oceania	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-4.7 (-4.9, -4.6)	-4.6 (-4.8, -4.4)	-4.5 (-4.8, -4.3)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-5.3 (-5.6, -4.9)	-5.4 (-5.8, -5.1)	-6.0 (-6.4, -5.5)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Andean Latin America	-7.0 (-8.1, -5.8)	-6.9 (-8.1, -5.7)	-7.4 (-8.5, -6.2)
Central Latin America	-4.8 (-5.9, -3.7)	-4.8 (-6.0, -3.7)	-5.2 (-6.3, -4.0)
Tropical Latin America	-3.3 (-6.5, -0.1)	-3.2 (-6.4, 0.01)	-3.9 (-7.7, -0.6)
North Africa and Middle East	-7.6 (-8.1, -7.2)	-8.1 (-8.5, -7.7)	-8.8 (-9.2, -8.4)
South Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-5.5 (-6.5, -4.6)	-5.4 (-6.4, -4.5)	-6.6 (-7.5, -5.6)
Eastern Sub-Saharan Africa	-5.4 (-5.5, -5.3)	-5.6 (-5.7, -5.4)	-6.09 (-6.23, -5.95)
Southern Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	-5.3 (-5.7, -4.9)	-5.1 (-5.5, -4.7)	-6.0 (-6.5, -5.6)
<b>Otitis media</b>			
Global	-3.8 (-4.0, -3.5)	-4.1 (-4.4, -3.8)	-6.2 (-6.6, -5.8)
East Asia	-13.9 (-15.9, -11.8)	-12.5 (-14.4, -10.5)	-12.2 (-13.4, -11.1)
Southeast Asia	-3.1 (-3.7, -2.6)	-2.7 (-3.1, -2.2)	-5.76 (-5.82, -5.70)
Oceania	-0.8 (-0.9, -0.7)	-1.5 (-1.8, -1.2)	-1.3 (-1.5, -1.1)
Central Asia	-10.3 (-11.9, -8.7)	-10.5 (-12.2, -8.7)	-8.4 (-9.8, -7.0)
Central Europe	-11.4 (-14.4, -8.3)	-11.6 (-14.7, -8.5)	-10.4 (-13.5, -7.3)
Eastern Europe	-7.5 (-9.7, -5.2)	-9.6 (-11.9, -7.3)	-9.7 (-12.2, -7.1)
High-income Asia Pacific	-14.6 (-16.8, -12.4)	-13.7 (-15.6, -11.7)	-15.8 (-17.9, -13.6)
Australasia	-6.3 (-7.7, -4.84)	-6.0 (-7.4, -4.6)	-6.3 (-7.5, -5.1)
Western Europe	-7.0 (-8.8, -5.1)	-7.0 (-9.0, -5.1)	-5.2 (-7.0, -3.4)
Southern Latin America	-11.6 (-13.9, -9.1)	-11.8 (-14.2, -9.4)	-9.4 (-11.8, -7.0)
High-income North America	-4.1 (-5.4, -2.8)	-4.0 (-5.3, -2.8)	-3.4 (-4.6, -2.3)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Caribbean	-3.3 (-4.7, -1.8)	-2.8 (-4.2, -1.4)	-2.3 (-3.6, -1.1)
Andean Latin America	-3.0 (-4.0, -1.9)	-3.0 (-4.0, 2.0)	-4.3 (-4.9, -3.7)
Central Latin America	-11.1 (-13.6, -8.5)	-10.9 (-13.4, -8.3)	-9.5 (-11.9, -7.0)
Tropical Latin America	-5.9 (-8.5, -3.4)	-6.3 (-8.9, -3.7)	-3.4 (-5.8, -0.9)
North Africa and Middle East	-5.8 (-6.1, -5.5)	-5.8 (-6.2, -5.4)	-4.0 (-4.1, -3.9)
South Asia	-18.5 (-20.5, -16.4)	-17.8 (-19.7, -15.8)	-19.5 (-21.1, -18.0)
Central Sub-Saharan Africa	-4.1 (-4.4, -3.7)	-3.8 (-4.1, -3.5)	-5.8 (-6.1, -5.5)
Eastern Sub-Saharan Africa	-4.1 (-4.3, -4.0)	-3.6 (-3.8, -3.5)	-5.2 (-5.5, -4.9)
Southern Sub-Saharan Africa	-1.6 (-2.3, -1.0)	-2.2 (-2.8, -1.7)	-1.7 (-2.3, -1.1)
Western Sub-Saharan Africa	-3.0 (-3.2, -2.8)	-2.6 (-2.7, -2.4)	-3.6 (-3.8, -3.4)
<b>Acute glomerulonephritis</b>			
Global	-4.7 (-4.9, -4.6)	-4.3 (-4.5, -4.0)	-2.7 (-2.9, -2.5)
East Asia	-8.8 (-9.2, -8.4)	-8.3 (-8.7, -8.0)	-6.2 (-6.4, -6.0)
Southeast Asia	-4.1 (-4.3, -4.0)	-3.6 (-3.7, -3.44)	-3.5 (-3.6, -3.5)
Oceania	-1.8 (-2.2, -1.5)	-1.5 (-1.9, -1.2)	-1.5 (-1.6, -1.3)
Central Asia	-5.6 (-6.1, -5.1)	-6.0 (-6.5, -5.5)	-4.9 (-5.4, -4.4)
Central Europe	-4.7 (-6.2, -3.2)	-5.1 (-6.7, -3.4)	-2.0 (-3.8, -0.2)
Eastern Europe	-9.3 (-10.1, -8.5)	-9.7 (-10.7, -8.7)	-10.5 (-11.7, -9.3)
High-income Asia Pacific	-3.6 (-3.8, -3.3)	-3.5 (-3.8, -3.1)	-3.0 (-3.3, -2.7)
Australasia	3.1 (0.1, 6.3)	5.0 (1.5, 8.6)	3.8 (0.5, 7.3)
Western Europe	-0.1 (-2.50, 2.33)	-0.5 (-2.8, 1.9)	0.9 (-1.3, 3.1)
Southern Latin America	-0.8 (-2.4, 0.8)	-3.9 (-4.1, -3.7)	-3.9 (-4.0, -3.6)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
High-income North America	4.9 (2, 7.96)	5.1 (2.1, 8.1)	5.2 (2.2, 8.3)
Caribbean	-2.9 (-3.4, -2.3)	-1.6 (-2.1, -1.1)	0.1 (-0.5, 0.6)
Andean Latin America	-5.2 (-6.1, -4.3)	-4.3 (-5.0, -3.5)	-3.4 (-3.9, -3.0)
Central Latin America	4.7 (1.5, 8.0)	5.3 (2.0, 8.7)	6.4 (3.1, 10.0)
Tropical Latin America	-7.7 (-8.1, -7.3)	-7.5 (-8.0, -7.1)	-5.8 (-6.5, -5.2)
North Africa and Middle East	-2.2 (-2.8, -1.6)	-2.1 (-2.6, -1.5)	-1.9 (-2.4, -1.4)
South Asia	-4.3 (-4.4, -4.2)	-3.2 (-3.4, 3.0)	-3.9 (-3.99, -3.79)
Central Sub-Saharan Africa	-3.6 (-3.9, -3.2)	-3.3 (-3.6, -3.0)	-3.7 (-3.9, -3.5)
Eastern Sub-Saharan Africa	-3.0 (-3.1, -2.8)	-2.6 (-2.8, -2.5)	-2.2 (-2.4, -2.1)
Southern Sub-Saharan Africa	-0.3 (-0.9, 0.2)	-1.0 (-1.2, -0.7)	-0.1 (-0.4, 0.2)
Western Sub-Saharan Africa	-2.0 (-2.2, -1.8)	-1.4 (-1.6, -1.2)	-1.8 (-1.9, -1.6)
<b>Schistosomiasis</b>			
Global	-2.7 (-2.8, -2.5)	-0.1 (-0.2, -0.02)	NA (NA, NA)
East Asia	-7.8 (-8.2, -7.5)	-5.9 (-6.5, -5.4)	NA (NA, NA)
Southeast Asia	-3.4 (-3.6, -3.2)	-2.9 (-3.2, -2.6)	NA (NA, NA)
Oceania	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Southern Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-5.2 (-5.5, -4.9)	-4.6 (-5.1, -4.2)	NA (NA, NA)
Andean Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Latin America	-1.0 (-1.8, -0.2)	0.2 (-1.0, 1.4)	NA (NA, NA)
Tropical Latin America	-4.4 (-4.7, -4.2)	-4.1 (-4.5, -3.8)	NA (NA, NA)
North Africa and Middle East	-4.7 (-5.0, -4.5)	-2.5 (-2.9, -2.2)	NA (NA, NA)
South Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-5.4 (-5.8, -5.0)	-2.6 (-2.8, -2.4)	NA (NA, NA)
Eastern Sub-Saharan Africa	-4.8 (-5.1, -4.5)	-1.8 (-2.0, -1.6)	NA (NA, NA)
Southern Sub-Saharan Africa	0.5 (-0.4, 1.5)	-1.0 (-1.5, -0.5)	NA (NA, NA)
Western Sub-Saharan Africa	-4.1 (-4.2, -4.0)	-0.3 (-0.5, -0.2)	NA (NA, NA)
<b>Cystic echinococcosis</b>			
Global	-6.9 (-7.0, -6.7)	NA (NA, NA)	NA (NA, NA)
East Asia	-13.0 (-13.7, -12.2)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	-8.1 (-8.2, -8.0)	NA (NA, NA)	NA (NA, NA)
Oceania	-3.6 (-4.0, -3.2)	NA (NA, NA)	NA (NA, NA)
Central Asia	-6.4 (-6.7, -6.1)	NA (NA, NA)	NA (NA, NA)
Central Europe	-8.9 (-9.1, -8.7)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	-7.7 (-8.3, -7.2)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	-9.2 (-9.4, -8.9)	NA (NA, NA)	NA (NA, NA)
Australasia	-6.8 (-7.1, -6.6)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Western Europe	-7.4 (-7.5, -7.3)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-5.3 (-5.6, -5.0)	NA (NA, NA)	NA (NA, NA)
High-income North America	-4.7 (-4.8, -4.5)	NA (NA, NA)	NA (NA, NA)
Caribbean	-5.2 (-5.5, -4.8)	NA (NA, NA)	NA (NA, NA)
Andean Latin America	-9.7 (-10.0, -9.4)	NA (NA, NA)	NA (NA, NA)
Central Latin America	-8.4 (-8.6, -8.1)	NA (NA, NA)	NA (NA, NA)
Tropical Latin America	-8.2 (-8.5, -7.8)	NA (NA, NA)	NA (NA, NA)
North Africa and Middle East	-8.9 (-9.2, -8.5)	NA (NA, NA)	NA (NA, NA)
South Asia	-8.6 (-8.7, -8.5)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-8.1 (-8.6, -7.6)	NA (NA, NA)	NA (NA, NA)
Eastern Sub-Saharan Africa	-8.0 (-8.2, -7.8)	NA (NA, NA)	NA (NA, NA)
Southern Sub-Saharan Africa	-4.1 (-6.1, -2.1)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	-6.3 (-6.4, -6.1)	NA (NA, NA)	NA (NA, NA)
<b>African trypanosomiasis</b>			
Global	-12.0 (-13.6, -10.4)	NA (NA, NA)	NA (NA, NA)
East Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Oceania	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Andean Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Tropical Latin America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
North Africa and Middle East	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
South Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-14.9 (-17.0, -12.8)	NA (NA, NA)	NA (NA, NA)
Eastern Sub-Saharan Africa	-15.2 (-17.0, -13.3)	NA (NA, NA)	NA (NA, NA)
Southern Sub-Saharan Africa	-0.5 (-7.0, 6.4)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	-8.9 (-10.0, -7.9)	NA (NA, NA)	NA (NA, NA)
<b>Cysticercosis</b>			
Global	-3.7 (-3.9, -3.5)	NA (NA, NA)	NA (NA, NA)
East Asia	-13.4 (-14.1, -12.7)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	-8.5 (-8.7, -8.4)	NA (NA, NA)	NA (NA, NA)
Oceania	-2.0 (-2.3, -1.6)	NA (NA, NA)	NA (NA, NA)
Central Asia	-7.7 (-8.0, -7.4)	NA (NA, NA)	NA (NA, NA)
Central Europe	-8.6 (-8.9, -8.3)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	-6.3 (-6.9, -5.8)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
High-income Asia Pacific	-10.9 (-11.3, -10.6)	NA (NA, NA)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	-6.9 (-7.2, -6. 6)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-7.5 (-7.7, -7.2)	NA (NA, NA)	NA (NA, NA)
High-income North America	-4.5 (-4.7, -4.4)	NA (NA, NA)	NA (NA, NA)
Caribbean	-3.6 (-3.9, -3.2)	NA (NA, NA)	NA (NA, NA)
Andean Latin America	-8.4 (-8.7, -8.2)	NA (NA, NA)	NA (NA, NA)
Central Latin America	-8.0 (-8.2, -7.7)	NA (NA, NA)	NA (NA, NA)
Tropical Latin America	-6.8 (-7.3, -6.4)	NA (NA, NA)	NA (NA, NA)
North Africa and Middle East	-8.4 (-8.9, -7.9)	NA (NA, NA)	NA (NA, NA)
South Asia	-9.0 (-9.4, -8.6)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	-6.6 (-7.3, -5.8)	NA (NA, NA)	NA (NA, NA)
Eastern Sub-Saharan Africa	-6.0 (-6.2, -5.8)	NA (NA, NA)	NA (NA, NA)
Southern Sub-Saharan Africa	-1.8 (-3.7, 0.2)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	-4.8 (-5.0, -4.5)	NA (NA, NA)	NA (NA, NA)
<b>Chagas disease</b>			
Global	-7.3 (-7.4, -7.1)	-7.6 (-7.8, -7.5)	NA (NA, NA)
East Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southeast Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Oceania	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)

**Table S5** EAPC in regional mortality rate for infectious diseases by age, 1990–2021 (continued)

	EAPC in deaths rate per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Central Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
High-income Asia Pacific	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Australasia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Europe	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Latin America	-7.4 (-7.5, -7.2)	-7.7 (-7.8, -7.5)	NA (NA, NA)
High-income North America	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Caribbean	-10.3 (-11.6, -8.9)	-9.1 (-10.7, -7.5)	NA (NA, NA)
Andean Latin America	-7.1 (-7.2, -7.0)	-7.00 (-7.1, -6.9)	NA (NA, NA)
Central Latin America	-4.7 (-5.2, -4.3)	-5.0 (-5.7, -4.3)	NA (NA, NA)
Tropical Latin America	-8.0 (-8.3, -7.8)	-8.5 (-8.7, -8.2)	NA (NA, NA)
North Africa and Middle East	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
South Asia	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Central Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Eastern Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Southern Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)
Western Sub-Saharan Africa	NA (NA, NA)	NA (NA, NA)	NA (NA, NA)

EAPC, estimated annual percentage change. EAPC is expressed as 95% CIs.

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
China	23.9 (23.6, 24.3)	121.3 (119.3, 123.3)	605.3 (588.8, 622.1)
Democratic People's Republic of Korea	45.1 (41.8, 48.7)	151.9 (138.2, 166.7)	930.5 (808.8, 1065.2)
Taiwan (Province of China)	12.9 (10.6, 15.5)	56.6 (45.5, 69.6)	408.3 (302.2, 539.4)
Cambodia	214.4 (207.6, 221.4)	857.4 (827.1, 888.5)	5310.2 (5045.5, 5584.5)
Indonesia	181.0 (179.2, 182.8)	667.1 (659.4, 674.8)	3896.0 (3830.6, 3962.2)
Lao People's Democratic Republic	278.4 (267.1, 289.9)	1130.9 (1081.2, 1182.2)	4979.3 (4615.1, 5363.3)
Malaysia	31.2 (29.0, 33.4)	121.0 (111.3, 131.3)	845.0 (753.4, 944.5)
Maldives	47.2 (26.4, 77.9)	183.2 (91.5, 327.6)	1094.1 (356.2, 2534.7)
Myanmar	290.0 (285.4, 294.6)	1145.0 (1124.7, 1165.6)	6946.2 (6772.0, 7123.5)
Philippines	164.1 (161.8, 166.0)	592.3 (582.2, 602.4)	3938.8 (3847.4, 4031.7)
Sri Lanka	24.3 (21.9, 26.8)	99.0 (88.1, 110.9)	758.4 (650.3, 879.3)
Thailand	47.6 (45.1, 50.2)	175.9 (164.8, 187.4)	927.6 (836.9, 1025.4)
Timor-Leste	289.4 (265.5, 315.0)	1003.8 (907.5, 1107.4)	4378.9 (3683.9, 5161.9)
Viet Nam	68.1 (66.3, 69.9)	275.4 (267.2, 283.8)	2217.2 (2133.9, 2302.9)
Fiji	113.1 (92.4, 137.2)	374.1 (290.1, 475.0)	2262.8 (1542.5, 3196.6)
Kiribati	265.9 (188.2, 364.8)	734.3 (455.1, 1120.2)	2262.4 (738.6, 5200.5)
Marshall Islands	158.7 (72.6, 301.0)	443.3 (144.1, 1031.4)	2325.6 (282.9, 8149.4)
Federated States of Micronesia	116.2 (58.0, 207.7)	379.6 (152.8, 780.6)	1418.4 (172.2, 5029.8)
Papua New Guinea	516.7 (505.4, 528.3)	1661.2 (1617.7, 1705.5)	7567.8 (7247.6, 7897.5)
Samoa	92.3 (60.9, 134.3)	247.1 (138.4, 407.3)	852.9 (232.9, 2169.2)
Solomon Islands	223.4 (194.4, 255.5)	752.8 (637.5, 882.8)	4536.6 (3553.3, 5697.3)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Tonga	90.2 (48.1, 154.3)	271.7 (117.4, 534.6)	1333.3 (275.8, 3846.9)
Vanuatu	161.3 (125.3, 204.5)	513.6 (373.4, 688.9)	2416.9 (1387.6, 3895.3)
Armenia	77.9 (65.7, 91.6)	361.6 (301.3, 430.4)	2552.4 (1983.4, 3230.2)
Azerbaijan	185.4 (175.6, 195.6)	856.2 (807.4, 907.1)	5426.4 (4993.7, 5884.9)
Georgia	44.4 (36.4, 53.6)	197.4 (158.6, 242.9)	1587.8 (1195.0, 2066.7)
Kazakhstan	43.3 (40.4, 46.3)	165.3 (153.1, 178.2)	1129.7 (1015.2, 1253.6)
Kyrgyzstan	73.3 (67.5, 79.5)	268.9 (243.7, 295.9)	1357.3 (1156.8, 1582.1)
Mongolia	97.5 (88.00, 107.8)	393.5 (350.2, 440.7)	2053.5 (1704.0, 2452.3)
Tajikistan	321.4 (311.9, 331.1)	1196.5 (1156.4, 1237.7)	4584.3 (4308.1, 4872.9)
Turkmenistan	185.5 (174.2, 197.3)	619.5 (573.6, 668.0)	2874.9 (2527.0, 3256.3)
Uzbekistan	159.5 (155.5, 163.5)	634.5 (617.0, 652.3)	4468.1 (4304.7, 4635.9)
Albania	33.7 (24.8, 44.6)	108.2 (73.0, 154.4)	473.7 (227.4, 869.4)
Bosnia and Herzegovina	10.6 (6.1, 17.2)	46.7 (24.9, 79.9)	378.1 (163.4, 743.6)
Bulgaria	24.8 (19.5, 31.1)	99.2 (75.4, 128.2)	339.2 (190.0, 558.9)
Croatia	12.1 (7.6, 18.3)	51.1 (30.3, 80.7)	336.1 (153.8, 637.0)
Czechia	12.6 (9.9, 15.9)	52.2 (39.4, 67.8)	234.3 (141.1, 365.6)
Hungary	13.2 (10.1, 17.0)	54.0 (39.8, 71.6)	222.0 (124.3, 365.9)
North Macedonia	14.9 (8.4, 24.6)	68.6 (36.5, 117.2)	278.2 (75.8, 710.7)
Montenegro	5.5 (0.7, 20.0)	14.2 (0.4, 79.1)	186.9 (4.7, 1037.0)
Poland	7.8 (6.6, 9.2)	33.9 (28.0, 40.6)	184.3 (135.9, 244.3)
Romania	31.1 (27.7, 34.9)	129.8 (113.7, 147.6)	412.2 (311.5, 535.0)
Serbia	9.2 (6.4, 12.9)	40.2 (26.5, 58.4)	273.9 (149.8, 459.1)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Slovakia	16.8 (12.4, 22.2)	67.8 (48.0, 93.0)	165.0 (66.4, 339.6)
Slovenia	7.2 (2.9, 14.7)	26.7 (8.7, 62.2)	211.7 (43.7, 617.5)
Belarus	19.3 (15.5, 23.7)	90.3 (71.2, 113.0)	664.1 (479.1, 896.7)
Estonia	10.1 (4.1, 20.9)	45.9 (16.9, 99.9)	303.0 (62.5, 883.0)
Latvia	13.9 (7.4, 23.7)	58.6 (28.1, 107.8)	466.9 (171.5, 1013.5)
Lithuania	12.9 (7.5, 20.7)	58.3 (31.9, 97.8)	441.0 (190.6, 867.1)
Republic of Moldova	64.8 (52.8, 78.9)	312.6 (251.1, 384.5)	2886.4 (2220.0, 3685.1)
Russian Federation	28.1 (26.9, 29.3)	131.9 (125.9, 138.1)	921.4 (864.0, 981.6)
Ukraine	30.7 (28.1, 33.6)	149.3 (135.3, 164.4)	1155.8 (1015.4, 1309.9)
Brunei Darussalam	25.9 (11.2, 51.0)	115.2 (46.3, 237.2)	858.4 (234.4, 2183.1)
Japan	3.5 (3.0, 4.1)	12.6 (10.3, 15.2)	61.0 (43.6, 83.1)
Republic of Korea	7.5 (6.2, 9.0)	37.7 (30.7, 45.7)	274.9 (207.8, 356.9)
Singapore	4.2 (2.2, 7.3)	14.5 (6.3, 28.6)	71.5 (14.8, 208.9)
Australia	4.3 (3.3, 5.4)	17.8 (13.3, 23.3)	128.6 (86.1, 184.6)
New Zealand	7.4 (4.7, 11.0)	31.2 (18.8, 48.7)	234.9 (117.3, 419.9)
Andorra	2.3 (0.0, 146.0)	8.3 (0.0, 802.2)	81.99 (0.0, 10003.2)
Austria	2.6 (1.3, 4.6)	9.5 (4.1, 18.7)	77.2 (25.1, 180.0)
Belgium	7.1 (5.1, 9.6)	29.9 (20.7, 41.7)	206.3 (122.3, 325.8)
Cyprus	4.0 (0.8, 11.7)	13.3 (1.6, 48.1)	86.9 (2.2, 483.1)
Denmark	4.8 (2.7, 8.0)	17.5 (8.7, 31.3)	103.0 (33.5, 240.2)
Finland	3.3 (1.4, 6.5)	12.5 (4.6, 27.1)	81.5 (16.8, 237.9)
France	6.9 (6.0, 7.8)	28.1 (24.3, 32.4)	243.5 (203.2, 289.4)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Germany	4.1 (3.5, 4.7)	15.9 (13.2, 18.9)	128.6 (101.5, 160.7)
Greece	4.7 (2.9, 7.3)	18.1 (10.1, 29.9)	111.1 (44.7, 228.8)
Iceland	3.9 (0.1, 28.4)	10.2 (0.0, 80.4)	71.7 (5.2, 1471.6)
Ireland	3.4 (1.6, 6.2)	14.1 (6.1, 27.8)	93.1 (25.4, 238.1)
Israel	4.4 (3.1, 5.9)	17.0 (11.5, 24.1)	121.0 (70.5, 193.6)
Italy	6.2 (5.2, 7.3)	28.0 (23.1, 33.6)	234.1 (183.2, 294.7)
Luxembourg	3.0 (0.1, 16.9)	13.8 (0.6, 95.6)	96.8 (0.0, 715.1)
Malta	4.6 (0.1, 25.3)	17.2 (0.3, 139.9)	118.9 (0.9, 1635.6)
Netherlands	9.1 (7.2, 11.3)	36.9 (28.5, 47.0)	339.5 (248.7, 452.6)
Norway	2.1 (0.8, 4.7)	8.1 (2.8, 21.1)	47.2 (5.7, 170.4)
Portugal	6.4 (4.2, 9.2)	24.3 (14.9, 37.6)	175.9 (87.8, 314.4)
Spain	5.9 (4.9, 7.1)	26.3 (21.1, 32.4)	226.9 (172.3, 293.2)
Sweden	3.6 (2.2, 5.5)	14.2 (8.1, 23.0)	115.1 (55.2, 211.5)
Switzerland	5.7 (3.7, 8.4)	23.0 (14.0, 35.5)	194.1 (103.4, 331.6)
United Kingdom	6.4 (5.6, 7.3)	26.6 (22.9, 30.7)	186.9 (151.9, 227.5)
Argentina	24.5 (22.8, 26.4)	111.2 (102.4, 120.6)	886.0 (797.3, 981.8)
Chile	12.2 (10.2, 14.5)	52.4 (42.9, 63.4)	485.8 (382.3, 608.6)
Uruguay	21.7 (15.6, 29.3)	98.8 (68.8, 137.4)	739.4 (452.2, 1139.6)
Canada	5.3 (4.3, 6.5)	23.8 (19.1, 29.3)	167.4 (123.0, 222.5)
United States of America	8.42 (8.00, 8.84)	35.61 (33.70, 37.60)	268.50 (249.69, 288.35)
Antigua and Barbuda	19.0 (0.5, 105.6)	96.2 (2.4, 534.6)	921.1 (15.7, 7256.4)
Bahamas	42.8 (19.6, 81.1)	176.7 (71.1, 363.8)	1320.1 (360.8, 3345.4)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Barbados	44.1 (16.2, 95.9)	191.6 (62.3, 446.7)	1507.5 (312.0, 4342.2)
Belize	62.9 (40.3, 93.6)	252.5 (152.1, 394.0)	1893.3 (948.8, 3362.3)
Cuba	20.2 (16.6, 24.4)	84.5 (67.5, 104.5)	537.2 (385.8, 728.1)
Dominica	115.0 (31.3, 294.2)	470.2 (97.1, 1368.0)	4166.7 (508.7, 14254.1)
Dominican Republic	144.2 (137.0, 151.7)	644.8 (610.9, 680.0)	5903.9 (5545.1, 6278.6)
Grenada	43.7 (9.0, 127.6)	148.7 (18.0, 536.1)	980.4 (24.8, 5341.5)
Guyana	110.1 (87.4, 136.6)	460.4 (357.7, 583.3)	3362.8 (2390.5, 4586.7)
Haiti	583.8 (572.0, 595.9)	2119.1 (2070.0, 2169.0)	10666.5 (10291.8, 11050.2)
Jamaica	53.7 (43.3, 65.9)	253.5 (202.0, 314.2)	2677.9 (2081.2, 3388.4)
Saint Lucia	34.0 (7.0, 99.2)	179.0 (36.9, 522.2)	1574.8 (191.3, 5572.9)
Saint Vincent and the Grenadines	41.7 (8.6, 121.8)	230.4 (47.5, 671.9)	2020.2 (245.6, 7107.6)
Suriname	123.5 (93.0, 160.7)	525.4 (384.9, 700.2)	3571.4 (2301.4, 5267.6)
Trinidad and Tobago	47.2 (33.4, 64.8)	222.1 (152.9, 311.7)	2039.0 (1296.8, 3043.9)
Bolivia	163.1 (156.0, 170.5)	628.9 (597.6, 661.4)	4539.1 (4243.3, 4849.3)
Ecuador	59.7 (56.1, 63.6)	256.2 (238.9, 274.4)	1638.2 (1482.5, 1805.6)
Peru	96.4 (93.1, 99.8)	386.5 (371.7, 401.7)	2723.4 (2584.0, 2868.2)
Colombia	44.6 (42.4, 46.9)	181.8 (171.7, 192.3)	1378.7 (1279.5, 1483.5)
Costa Rica	20.1 (15.4, 25.8)	85.7 (63.0, 113.9)	601.7 (389.8, 886.9)
El Salvador	45.6 (40.4, 51.3)	193.2 (168.7, 220.2)	1017.2 (818.7, 1248.8)
Guatemala	212.2 (205.1, 219.6)	791.0 (759.3, 823.7)	2713.3 (2505.0, 2933.9)
Honduras	101.0 (95.1, 107.1)	395.9 (370.0, 423.1)	3060.3 (2805.5, 3331.5)
Mexico	62.8 (61.3, 64.4)	281.0 (273.5, 288.7)	2135.4 (2061.2, 2211.6)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Nicaragua	82.4 (75.6, 89.7)	359.1 (326.9, 393.6)	2643.5 (2333.7, 2982.1)
Panama	72.5 (64.1, 81.7)	273.0 (235.7, 314.5)	1548.5 (1235.2, 1916.0)
Venezuela	93.8 (89.8, 98.0)	357.0 (339.7, 375.0)	2635.3 (2468.1, 2810.5)
Brazil	45.6 (44.5, 46.6)	182.9 (178.3, 187.6)	1308.4 (1264.3, 1353.5)
Paraguay	68.0 (61.8, 74.6)	298.4 (269.2, 329.9)	1950.0 (1685.4, 2243.6)
Algeria	30.0 (28.4, 31.6)	120.8 (113.7, 128.1)	728.5 (666.3, 794.8)
Bahrain	13.9 (7.4, 23.7)	56.7 (27.2, 104.3)	298.3 (81.3, 762.0)
Egypt	80.0 (78.4, 81.5)	301.5 (294.8, 308.3)	1466.6 (1413.9, 1520.9)
Iran	11.2 (10.4, 12.1)	46.2 (42.2, 50.5)	361.5 (320.7, 406.0)
Iraq	79.7 (77.0, 82.4)	328.5 (316.3, 341.1)	2338.1 (2221.4, 2459.2)
Jordan	42.1 (38.4, 46.1)	186.9 (168.9, 206.2)	1405.2 (1230.5, 1597.5)
Kuwait	23.8 (18.3, 30.4)	94.3 (69.3, 125.4)	658.9 (426.9, 971.2)
Lebanon	37.2 (31.5, 43.6)	153.7 (127.6, 183.5)	881.9 (661.3, 1151.9)
Libya	36.2 (30.7, 42.4)	106.1 (84.7, 131.4)	575.8 (401.4, 799.8)
Morocco	75.9 (72.9, 78.9)	321.8 (307.3, 335.3)	2335.9 (2203.2, 2474.4)
Palestine	36.6 (31.9, 41.7)	147.6 (126.6, 171.1)	1073.5 (872.4, 1306.7)
Oman	30.0 (25.0, 35.6)	116.4 (93.9, 142.6)	647.6 (460.9, 884.3)
Qatar	9.2 (5.4, 14.8)	33.8 (18.0, 57.7)	204.2 (75.0, 444.0)
Saudi Arabia	17.6 (16.0, 19.3)	72.0 (64.5, 80.1)	561.1 (485.8, 644.6)
Syrian Arab Republic	31.9 (28.5, 35.6)	71.8 (60.4, 84.7)	495.4 (389.2, 621.6)
Tunisia	23.7 (20.6, 27.1)	93.8 (79.7, 109.7)	678.0 (542.7, 836.7)
Turkey	31.2 (29.8, 32.7)	135.0 (127.9, 142.3)	1028.0 (957.8, 1101.9)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
United Arab Emirates	11.8 (8.8, 15.5)	42.0 (28.7, 59.3)	206.8 (106.9, 360.9)
Yemen	126.4 (123.2, 129.6)	454.1 (440.7, 467.9)	1794.4 (1699.5, 1893.1)
Afghanistan	326.3 (321.5, 331.1)	1069.0 (1050.4, 1087.9)	3760.3 (3637.8, 3885.7)
Bangladesh	175.6 (173.5, 177.8)	697.6 (687.9, 707.5)	5602.3 (5504.6, 5701.2)
Bhutan	191.7 (158.6, 229.7)	638.5 (505.0, 796.3)	3715.5 (2601.4, 5129.7)
India	232.8 (231.9, 233.7)	931.2 (927.2, 935.3)	5226.4 (5192.5, 5260.4)
Nepal	185.0 (180.3, 189.9)	712.6 (692.0, 733.8)	4826.6 (4637.3, 5021.0)
Pakistan	340.3 (338.2, 342.4)	1164.9 (1156.3, 1173.5)	6009.0 (5941.0, 6077.5)
Angola	542.9 (536.8, 549.0)	1486.9 (1464.9, 1509.1)	5441.7 (5295.3, 5591.0)
Central African Republic	1346.1 (1321.6, 1371.0)	3779.4 (3691.5, 3868.8)	13072.3 (12521.9, 13637.8)
Congo	396.3 (381.0, 412.1)	1131.7 (1073.7, 1191.9)	4886.2 (4463.9, 5336.0)
Democratic Republic of the Congo	654.9 (650.6, 659.2)	1854.8 (1838.9, 1870.8)	7159.2 (7050.6, 7269.0)
Equatorial Guinea	508.2 (476.5, 541.4)	1476.5 (1355.2, 1605.7)	5691.1 (4865.9, 6609.3)
Gabon	287.1 (264.8, 310.7)	896.0 (808.3, 990.6)	4920.1 (4202.2, 5720.3)
Burundi	818.5 (806.5, 830.6)	2368.2 (2323.9, 2413.1)	10060.8 (9748.4, 10379.9)
Comoros	380.0 (338.9, 424.8)	1351.8 (1181.1, 1539.8)	8600.5 (7121.4, 10273.0)
Djibouti	345.2 (315.8, 376.7)	1102.4 (986.4, 1228.3)	6277.4 (5316.2, 7352.9)
Eritrea	415.2 (402.2, 428.6)	1171.5 (1123.5, 1221.0)	6525.4 (6131.8, 6936.4)
Ethiopia	433.7 (430.5, 436.9)	1359.7 (1347.3, 1372.2)	8146.6 (8042.1, 8252.0)
Kenya	386.3 (381.3, 391.3)	1315.6 (1295.0, 1336.6)	7842.8 (7667.2, 8021.1)
Madagascar	627.6 (620.0, 635.3)	2170.0 (2138.6, 2201.8)	11788.8 (11539.3, 12041.9)
Malawi	569.5 (560.6, 578.5)	1631.4 (1598.2, 1665.2)	8300.7 (8041.3, 8565.8)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Mauritius	46.7 (31.5, 66.6)	190.3 (122.0, 283.1)	1452.3 (796.2, 2424.7)
Mozambique	654.4 (647.5, 661.4)	2076.2 (2049.2, 2103.6)	8895.6 (8703.0, 9091.1)
Rwanda	399.4 (390.1, 408.8)	1188.1 (1152.9, 1224.1)	6580.6 (6292.2, 6878.0)
Seychelles	76.2 (28.0, 165.8)	255.3 (69.6, 652.3)	1680.7 (204.2, 5939.3)
Somalia	1167.7 (1157.4, 1178.2)	3383.9 (3346.7, 3421.4)	14185.9 (13932.0, 14442.7)
United Republic of Tanzania	560.0 (555.1, 564.9)	1715.0 (1696.2, 1733.9)	9700.8 (9547.3, 9856.0)
Uganda	799.9 (793.5, 806.4)	2219.2 (2195.8, 2242.7)	8689.0 (8529.5, 8850.6)
Zambia	481.9 (474.0, 490.0)	1420.9 (1390.8, 1451.5)	7850.0 (7604.6, 8100.7)
Botswana	321.0 (298.6, 344.7)	1038.0 (948.6, 1133.5)	4315.8 (3680.6, 5025.1)
Lesotho	912.1 (871.2, 954.3)	3074.1 (2908.2, 3246.7)	7750.5 (6843.8, 8735.9)
Namibia	294.9 (275.1, 315.7)	1026.4 (944.6, 1113.2)	3918.9 (3361.1, 4539.7)
South Africa	295.2 (290.5, 300.0)	1204.2 (1182.6, 1226.1)	4675.0 (4524.4, 4829.1)
Eswatini	421.6 (388.4, 456.9)	1587.9 (1445.4, 1740.5)	4302.1 (3490.3, 5239.1)
Zimbabwe	469.1 (460.1, 478.2)	1602.5 (1566.1, 1639.5)	6701.0 (6441.9, 6967.2)
Benin	859.2 (847.4, 871.1)	2094.1 (2054.5, 2134.2)	9126.5 (8843.5, 9415.6)
Burkina Faso	1276.7 (1265.8, 1287.6)	3049.8 (3014.4, 3085.5)	12740.2 (12496.4, 12987.1)
Cameroon	738.20 (730.61, 745.85)	1891.66 (1865.04, 1918.56)	8609.32 (8413.51, 8808.21)
Cabo Verde	104.4 (76.5, 139.2)	402.7 (279.0, 562.2)	2954.9 (1788.2, 4576.1)
Chad	1529.9 (1517.3, 1542.6)	3732.3 (3691.1, 3773.9)	14636.3 (14364.8, 14911.1)
Cote d'Ivoire	765.7 (757.5, 773.9)	2075.1 (2045.9, 2104.6)	9918.4 (9699.7, 10140.5)
Gambia	378.7 (358.8, 399.3)	1026.8 (955.8, 1101.6)	6973.6 (6332.4, 7658.2)
Ghana	428.2 (422.3, 434.2)	1249.0 (1226.7, 1271.7)	8048.2 (7851.8, 8247.8)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Guinea	1074.8 (1061.3, 1088.3)	2751.0 (2704.6, 2798.0)	12817.6 (12480.0, 13161.1)
Guinea-Bissau	606.3 (580.2, 633.3)	1523.6 (1433.6, 1617.8)	8571.4 (7837.4, 9350.7)
Liberia	782.8 (763.2, 802.8)	2219.4 (2147.1, 2293.4)	9170.3 (8664.9, 9695.3)
Mali	997.2 (988.2, 1006.4)	2299.1 (2269.8, 2328.6)	9825.6 (9619.7, 10034.4)
Mauritania	286.6 (273.8, 299.8)	930.4 (879.3, 983.6)	6453.8 (5984.8, 6947.9)
Niger	1209.3 (1199.8, 1218.8)	2424.6 (2396.2, 2453.3)	10444.1 (10243.8, 10647.0)
Nigeria	1206.0 (1202.4, 1209.5)	2850.5 (2838.8, 2862.1)	12906.2 (12822.7, 12990.0)
Sao Tome and Principe	148.3 (104.5, 204.4)	533.8 (349.0, 781.1)	3743.3 (2061.4, 6200.9)
Senegal	361.2 (353.4, 369.1)	1101.4 (1071.7, 1131.7)	7448.3 (7180.0, 7723.4)
Sierra Leone	995.6 (978.9, 1012.5)	2647.3 (2588.8, 2706.8)	9192.4 (8819.3, 9575.9)
Togo	632.9 (618.6, 647.4)	1610.2 (1559.8, 1661.8)	7964.1 (7575.6, 8366.0)
American Samoa	80.9 (16.7, 236.2)	150.4 (3.8, 835.0)	1368.7 (18.1, 10909.6)
Bermuda	7.4 (1.2, 200.6)	22.3 (10.3, 1006.5)	106.3 (0.0, 9489.1)
Cook Islands	51.5 (0.1, 513.9)	161.7 (2.8, 2431.7)	840.6 (252.0, 24439.5)
Greenland	16.6 (0.2, 147.1)	44.6 (0.9, 694.2)	191.8 (83.7, 7917.4)
Guam	62.6 (27.0, 123.3)	228.7 (84.0, 497.0)	1390.7 (121.3, 3565.5)
Monaco	7.4 (3.0, 308.4)	21.5 (20.2, 1533.4)	139.1 (0.0, 14247.4)
Nauru	143.2 (17.3, 516.2)	350.9 (8.9, 1939.4)	2487.1 (2.5, 22114.3)
Niue	337.8 (2.5, 4521.2)	1010.3 (99.5, 19566.3)	3848.4 (0.0, 97500.0)
Northern Mariana Islands	29.5 (1.3, 199.6)	110.0 (0.9, 992.6)	686.9 (22.5, 10823.3)
Palau	94.9 (3.6, 665.6)	295.7 (0.1, 3114.6)	1156.8 (277.2, 28907.7)
Puerto Rico	19.0 (11.6, 29.4)	97.0 (57.5, 153.2)	786.8 (393.4, 1403.5)

**Table S6** Mortality rate of total infectious diseases in 204 countries by age, 2021 (continued)

Country	Deaths rate of total infectious diseases per 100 000 in 2021, 95% CI		
	< 5 years	< 1 year	< 28 days
Saint Kitts and Nevis	32.8 (0.8, 182.5)	173.3 (4.4, 961.8)	1113.3 (0.1, 11757.0)
San Marino	5.0 (0.0, 304.7)	16.6 (0.0, 1591.1)	134.2 (0.0, 19506.4)
Tokelau	477.4 (0.2, 5456.8)	1606.5 (81.4, 24689.9)	6593.7 (4532.1, 91363.9)
Tuvalu	77.9 (2.0, 433.5)	384.6 (9.7, 2124.2)	1700.5 (34.6, 22354.1)
United States Virgin Islands	19.9 (0.5, 156.3)	90.1 (0.8, 807.4)	708.3 (5.9, 9253.7)
South Sudan	1562.6 (1543.2, 1582.2)	4363.7 (4296.9, 4431.4)	16058.8 (15634.8, 16489.7)
Sudan	152.7 (149.5, 156.0)	415.8 (404.0, 427.8)	2001.1 (1908.9, 2096.5)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
China	-9.8 (-10.1, -9.5)	-9.3 (-9.7, -8.9)	-7.7 (-8.0, -7.4)
Democratic People's Republic of Korea	-5.2 (-5.5, -4.8)	-4.9 (-5.3, -4.5)	-3.8 (-4.2, -3.5)
Taiwan (Province of China)	-3.1 (-3.4, -2.8)	-2.2 (-2.6, -1.9)	-0.3 (-0.9, 0.4)
Cambodia	-6.7 (-7.0, -6.3)	-6.2 (-6.6, -5.8)	-5.0 (-5.1, -4.9)
Indonesia	-5.2 (-5.3, -5.1)	-5.0 (-5.0, -4.9)	-3.8 (-4.0, -3.6)
Lao People's Democratic Republic	-6.8 (-7.0, -6.6)	-6.1 (-6.3, -5.8)	-5.5 (-5.7, -5.4)
Malaysia	-4.0 (-4.6, -3.4)	-3.5 (-4.1, -3.0)	-2.5 (-3.0, -2.1)
Maldives	-7.1 (-7.6, -6.6)	-6.7 (-7.2, -6.3)	-5.4 (-5.8, -5.0)
Myanmar	-6.1 (-6.4, -5.8)	-5.2 (-5.5, -4.9)	-3.9 (-4.1, -3.8)
Philippines	-3.6 (-3.8, -3.3)	-3.0 (-3.2, -2.7)	-2.3 (-2.5, -2.2)
Sri Lanka	-4.8 (-5.1, -4.5)	-4.2 (-4.4, -4.0)	-3.9 (-4.1, -3.6)
Thailand	-4.8 (-5.0, -4.6)	-4.8 (-5.0, -4.6)	-5.1 (-5.3, -5.0)
Timor-Leste	-6.3 (-6.6, -6.0)	-5.6 (-5.8, -5.4)	-4.8 (-5.0, -4.5)
Viet Nam	-5.4 (-5.5, -5.2)	-5.1 (-5.2, -5.0)	-4.2 (-4.3, -4.1)
Fiji	-1.7 (-2.1, -1.2)	-1.8 (-2.2, -1.4)	-1.2 (-1.4, -1.0)
Kiribati	-3.6 (-3.6, -3.5)	-3.2 (-3.3, -3.1)	-1.6 (-1.8, -1.4)
Marshall Islands	-2.3 (-2.8, -1.8)	-2.4 (-2.9, -1.9)	-0.8 (-1.4, -0.3)
Federated States of Micronesia	-4.0 (-4.3, -3.8)	-4.0 (-4.3, -3.7)	-2.5 (-2.8, -2.1)
Papua New Guinea	-2.1 (-2.3, -1.8)	-1.9 (-2.1, -1.7)	-1.3 (-1.1, -1.2)
Samoa	-2.2 (-3.0, -1.4)	-2.6 (-3.1, -2.1)	-2.5 (-2.7, -2.3)
Solomon Islands	-3.4 (-3.6, -3.2)	-3.1 (-3.3, -2.9)	-2.0 (-2.2, -1.9)
Tonga	-3.1 (-3.3, -3.0)	-3.1 (-3.3, -2.8)	-2.1 (-2.4, -1.8)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Vanuatu	-2.8 (-3.2, -2.4)	-2.4 (-2.8, -2.0)	-1.3 (-1.5, -1.1)
Armenia	-5.3 (-5.4, -5.1)	-5.6 (-5.9, -5.3)	-4.5 (-4.7, -4.2)
Azerbaijan	-5.1 (-5.4, -4.9)	-5.2 (-5.5, -4.9)	-4.3 (-4.5, -4.0)
Georgia	-6.7 (-7.1, -6.4)	-7.3 (-7.8, -6.8)	-4.6 (-4.9, -4.4)
Kazakhstan	-7.7 (-8.3, -7.1)	-8.1 (-8.7, -7.5)	-6.3 (-6.8, -5.8)
Kyrgyzstan	-7.3 (-7.8, -6.8)	-8.0 (-8.5, -7.5)	-8.4 (-8.9, -7.9)
Mongolia	-7.2 (-7.4, -7.0)	-6.8 (-7.1, -6.5)	-4.2 (-4.4, -4.0)
Tajikistan	-4.1 (-4.3, -4.0)	-3.7 (-3.9, -3.4)	-3.4 (-3.6, -3.2)
Turkmenistan	-5.3 (-5.7, -5.0)	-5.3 (-5.6, -4.9)	-5.4 (-5.9, -4.9)
Uzbekistan	-4.2 (-4.5, -3.9)	-4.1 (-4.4, -3.8)	-3.1 (-3.5, -2.7)
Albania	-7.4 (-7.9, -6.8)	-8.2 (-8.7, -7.7)	-5.6 (-5.8, -5.4)
Bosnia and Herzegovina	-4.0 (-4.6, -3.4)	-3.6 (-4.1, -3.1)	-3.3 (-3.7, -2.9)
Bulgaria	-5.0 (-5.5, -4.5)	-5.1 (-5.5, -4.7)	-3.8 (-4.3, -3.4)
Croatia	-2.4 (-2.8, -2.1)	-2.5 (-2.8, -2.1)	-1.2 (-1.9, -0.4)
Czechia	-3.0 (-3.6, -2.4)	-3.1 (-3.7, -2.5)	-2.4 (-2.9, -2.0)
Hungary	-3.0 (-3.6, -2.4)	-3.1 (-3.6, -2.5)	-3.1 (-3.4, -2.8)
North Macedonia	-6.7 (-7.4, -5.9)	-7.0 (-7.8, -6.1)	-3.4 (-3.8, -2.9)
Montenegro	-5.5 (-6.2, -4.9)	-6.7 (-7.5, -5.8)	-5.5 (-6.2, -4.7)
Poland	-5.6 (-5.9, -5.2)	-6.2 (-6.6, -5.8)	-6.5 (-7.0, -6.0)
Romania	-6.2 (-6.6, -5.8)	-6.6 (7.0, -6.3)	-3.6 (-4.4, -2.9)
Serbia	-6.8 (-7.5, -6.1)	-6.5 (-7.0, -6.0)	-5.8 (-6.3, -5.3)
Slovakia	-3.5 (-3.8, -3.2)	-3.8 (-4.1, -3.5)	-4.8 (-5.2, -4.5)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Slovenia	-4.3 (-4.6, -4.1)	-4.5 (-4.8, -4.2)	-2.2 (-2.7, -1.7)
Belarus	-4.7 (-5.1, -4.4)	-5.1 (-5.4, -4.7)	-4.6 (-4.8, -4.3)
Estonia	-6.0 (-6.6, -5.4)	-6.5 (-7.0, -6.1)	-6.4 (-6.8, -5.9)
Latvia	-5.1 (-5.6, -4.5)	-5.5 (-6.1, -5.0)	-5.1 (-5.8, -4.4)
Lithuania	-4.1 (-4.5, -3.6)	-4.2 (-4.6, -3.8)	-3.1 (-3.4, -2.7)
Republic of Moldova	-3.6 (-3.9, -3.3)	-3.7 (-4.1, -3.3)	-2.4 (-3.1, -1.7)
Russian Federation	-4.4 (-5.0, -3.8)	-4.5 (-4.9, -4.1)	-3.5 (-3.9, -3.1)
Ukraine	-2.3 (-2.6, -2.0)	-2.3 (-2.9, -1.7)	-1.7 (-2.4, -1.0)
Brunei Darussalam	-0.9 (-1.2, -0.6)	-0.5 (-0.7, -0.3)	0.1 (-0.2, 0.5)
Japan	-3.8 (-4.1, -3.4)	-3.6 (-3.8, -3.3)	-4.0 (-4.3, -3.7)
Republic of Korea	-5.5 (-5.8, -5.2)	-4.6 (-5.0, -4.2)	-3.5 (-3.9, -3.1)
Singapore	-5.4 (-5.9, -4.9)	-5.1 (-5.5, -4.7)	-4.4 (-4.9, -4.0)
Australia	-3.3 (-3.6, -2.9)	-3.2 (-3.5, -2.8)	-3.3 (-3.9, -2.7)
New Zealand	-2.7 (-3.2, -2.2)	-2.0 (-2.6, -1.3)	-0.3 (-1.2, 0.6)
Andorra	-6.1 (-6.5, -5.7)	-4.8 (-5.3, -4.3)	-3.1 (-3.5, -2.6)
Austria	-3.9 (-4.3, -3.5)	-3.7 (-4.2, -3.3)	-2.3 (-2.8, -1.8)
Belgium	-2.6 (-2.9, -2.3)	-2.2 (-2.6, -1.8)	-1.6 (-2.0, -1.2)
Cyprus	-6.1 (-6.5, -5.6)	-6.2 (-6.6, -5.8)	-6.1 (-6.6, -5.5)
Denmark	-4.0 (-4.4, -3.6)	-3.2 (-3.6, -2.8)	-1.7 (-2.0, -1.4)
Finland	-3.6 (-3.9, -3.3)	-3.4 (-3.6, -3.1)	-2.8 (-3.1, -2.5)
France	-2.8 (-3.1, -2.5)	-2.6 (-2.9, -2.2)	-1.3 (-1.7, -0.9)
Germany	-3.0 (-3.2, -2.7)	-2.7 (-3.1, -2.4)	-1.6 (-1.8, -1.3)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Greece	-2.5 (-3.0, -2.1)	-2.8 (-3.3, -2.2)	-3.1 (-4.1, -2.2)
Iceland	-4.0 (-4.1, -3.8)	-4.1 (-4.3, -3.9)	-3.8 (-3.9, -3.6)
Ireland	-4.3 (-4.8, -3.8)	-3.7 (-4.1, -3.3)	-2.8 (-3.2, -2.4)
Israel	-3.7 (-4.0, -3.4)	-3.5 (-3.8, -3.2)	-2.7 (-3.0, -2.4)
Italy	-2.5 (-3.0, -2.0)	-1.8 (-2.5, -1.2)	-0.5 (-1.2, 0.2)
Luxembourg	-4.2 (-5.0, -3.4)	-3.3 (-3.9, -2.6)	-2.6 (-3.2, -1.9)
Malta	-3.3 (-4.1, -2.5)	-2.4 (-2.8, -2.0)	-2.1 (-2.4, -1.7)
Netherlands	-2.3 (-2.6, -2.0)	-1.4 (-1.6, -1.1)	-0.4 (-0.7, -0.2)
Norway	-4.6 (-5.2, -3.9)	-3.8 (-4.7, -3.0)	-3.5 (-4.7, -2.2)
Portugal	-5.7 (-6.3, -5.1)	-5.4 (-6.0, -4.8)	-4.0 (-4.5, -3.6)
Spain	-3.6 (-3.9, -3.4)	-2.9 (-3.1, -2.6)	-2.0 (-2.3, -1.7)
Sweden	-2.7 (-3.1, -2.2)	-2.6 (-3.0, -2.2)	-2.4 (-2.9, -1.9)
Switzerland	-3.6 (-3.9, -3.4)	-3.0 (-3.3, -2.8)	-1.0 (-1.3, -0.8)
United Kingdom	-3.5 (-3.8, -3.2)	-3.1 (-3.4, -2.8)	-2.4 (-2.8, -2.1)
Argentina	-4.4 (-4.7, -4.1)	-4.5 (-4.7, -4.3)	-3.6 (-3.8, -3.3)
Chile	-5.6 (-6.0, -5.3)	-5.7 (-6.1, -5.2)	-2.6 (-3.2, -2.0)
Uruguay	-4.7 (-5.0, -4.4)	-4.8 (-5.1, -4.5)	-3.4 (-3.7, -3.1)
Canada	-1.5 (-1.8, -1.2)	-1.0 (-1.3, -0.8)	-0.7 (-0.9, -0.5)
United States of America	-2.4 (-2.6, -2.2)	-2.1 (-2.3, -1.9)	-1.1 (-1.3, -0.8)
Antigua and Barbuda	-1.8 (-2.4, -1.2)	-2.2 (-2.7, -1.6)	-0.8 (-1.0, -0.6)
Bahamas	-2.7 (-2.9, -2.4)	-2.4 (-2.6, -2.2)	-1.4 (-1.8, -1.0)
Barbados	-1.3 (-1.6, -1.0)	-0.7 (-1.1, -0.3)	0.3 (-0.3, 0.8)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Belize	-4.4 (-4.5, -4.3)	-4.0 (-4.1, -3.9)	-1.7 (-1.9, -1.4)
Cuba	-3.3 (-3.7, -2.9)	-3.1 (-3.5, -2.7)	-2.5 (-2.9, -2.2)
Dominica	0.9 (0.4, 1.4)	1.5 (1.0, 2.0)	1.7 (1.1, 2.3)
Dominican Republic	-3.7 (-4.0, -3.4)	-3.0 (-3.3, -2.8)	-0.6 (-0.9, -0.4)
Grenada	-2.2 (-2.5, -1.9)	-2.0 (-2.3, -1.7)	-1.4 (-2.1, -0.7)
Guyana	-3.4 (-3.6, -3.2)	-3.3 (-3.5, -3.0)	-1.5 (-1.8, -1.2)
Haiti	-3.6 (-3.9, -3.3)	-3.1 (-3.4, -2.8)	-2.2 (-2.4, -2.0)
Jamaica	-2.1 (-2.7, -1.6)	-1.2 (-1.7, -0.8)	0.2 (-0.1, 0.6)
Saint Lucia	-2.4 (-2.7, -2.1)	-1.8 (-2.1, -1.4)	-0.4 (-1.0, 0.1)
Saint Vincent and the Grenadines	-3.5 (-3.9, -3.2)	-3.2 (-3.5, -2.9)	-1.8 (-2.3, -1.2)
Suriname	-3.2 (-3.3, -3.0)	-3.1 (-3.3, -3.0)	-1.5 (-1.6, -1.4)
Trinidad and Tobago	-2.8 (-3.14, -2.43)	-2.6 (-2.9, -2.4)	-1.17 (-1.41, -0.94)
Bolivia	-6.0 (-6.1, -5.9)	-5.4 (-5.5, -5.3)	-3.7 (-3.8, -3.6)
Ecuador	-5.6 (-6.0, -5.2)	-4.9 (-5.4, -4.4)	-3.9 (-4.4, -3.4)
Peru	-5.8 (-6.2, -5.5)	-5.2 (-5.6, -4.9)	-3.6 (-4.1, -3.2)
Colombia	-4.7 (-4.9, -4.5)	-4.6 (-4.8, -4.4)	-1.9 (-2.3, -1.5)
Costa Rica	-4.2 (-4.7, -3.8)	-4.2 (-4.7, -3.7)	-2.4 (-2.8, -2.1)
El Salvador	-7.1 (-7.4, -6.8)	-6.8 (-7.0, -6.6)	-4.4 (-4.6, -4.2)
Guatemala	-3.7 (-3.9, -3.5)	-2.8 (-3.0, -2.6)	-1.7 (-2.0, -1.4)
Honduras	-5.1 (-5.3, -4.9)	-4.7 (-4.8, -4.6)	-2.6 (-2.8, -2.5)
Mexico	-5.6 (-5.9, -5.3)	-5.1 (-5.4, -4.8)	-2.4 (-2.6, -2.3)
Nicaragua	-6.3 (-6.5, -6.2)	-5.9 (-6.1, -5.7)	-2.7 (-2.9, -2.5)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Panama	-2.2 (-2.5, -1.9)	-2.1 (-2.4, -1.9)	-1.7 (-1.9, -1.5)
Venezuela	-2.8 (-3.4, -2.3)	-2.9 (-3.5, -2.3)	-0.8 (-1.2, -0.4)
Brazil	-6.9 (-7.1, -6.7)	-7.1 (-7.3, -6.9)	-4.3 (-4.6, -4.0)
Paraguay	-4.4 (-4.6, -4.2)	-4.1 (-4.3, -3.9)	-3.8 (-4.0, -3.6)
Algeria	-5.7 (-6.0, -5.3)	-5.8 (-5.9, -5.5)	-3.6 (-3.8, -3.4)
Bahrain	-4.4 (-4.9, -3.9)	-4.4 (-4.9, -3.9)	-4.1 (-4.5, -3.7)
Egypt	-6.8 (-7.1, -6.5)	-6.6 (-6.8, -6.4)	-7.0 (-7.3, -6.8)
Iran	-6.9 (-7.8, -6.1)	-7.1 (-7.8, -6.3)	-4.6 (-5.1, -4.1)
Iraq	-5.0 (-5.2, -4.7)	-4.6 (-4.7, -4.4)	-3.3 (-3.5, -3.2)
Jordan	-4.2 (-4.3, -4.1)	-3.7 (-3.8, -3.6)	-3.0 (-3.1, -2.96)
Kuwait	-1.3 (-2.0, -0.6)	-1.0 (-1.8, -0.3)	-0.5 (-1.5, 0.5)
Lebanon	-5.2 (-5.4, -5.1)	-5.0 (-5.1, -4.8)	-4.4 (-4.5, -4.3)
Libya	-3.6 (-4.3, -2.9)	-3.9 (-4.8, -3.1)	-3.3 (-3.9, -2.7)
Morocco	-6.8 (-7.2, -6.4)	-6.3 (-6.6, -6.0)	-4.6 (-5.1, -4.2)
Palestine	-5.9 (-6.1, -5.6)	-5.0 (-5.1, -4.8)	-2.9 (-3.1, -2.7)
Oman	-4.1 (-5.0, -3.3)	-4.0 (-4.9, -3.1)	-3.5 (-4.2, -2.7)
Qatar	-5.5 (-5.8, -5.2)	-5.1 (-5.3, -4.8)	-3.6 (-3.9, -3.2)
Saudi Arabia	-8.0 (-8.2, -7.9)	-7.8 (-8.0, -7.7)	-6.5 (-6.9, -6.2)
Syrian Arab Republic	-4.3 (-5.4, -3.2)	-6.1 (-7.2, -4.9)	-3.9 (-4.5, -3.3)
Tunisia	-6.4 (-6.7, -6.1)	-6.5 (-6.8, -6.2)	-4.6 (-4.8, -4.5)
Turkey	-8.6 (-8.9, -8.3)	-8.2 (-8.6, -7.8)	-5.8 (-6.1, -5.5)
United Arab Emirates	-4.4 (-4.9, -3.8)	-4.1 (-4.6, -3.6)	-4.1 (-4.5, -3.6)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Yemen	-7.4 (-7.7, -7.1)	-6.8 (-7.0, -6.5)	-5.3 (-5.5, -5.2)
Afghanistan	-6.0 (-6.4, -5.5)	-5.3 (-5.7, -4.8)	-5.5 (-6.0, -5.1)
Bangladesh	-6.5 (-6.6, -6.3)	-5.8 (-6.0, -5.6)	-4.8 (-5.0, -4.7)
Bhutan	-7.3 (-7.5, -7.1)	-6.4 (-6.6, -6.3)	-5.3 (-5.5, -5.2)
India	-5.0 (-5.4, -4.7)	-4.1 (-4.3, -3.8)	-3.7 (-3.8, -3.6)
Nepal	-7.2 (-7.3, -7.1)	-6.2 (-6.4, -6.0)	-5.7 (-5.8, -5.6)
Pakistan	-3.7 (-4.0, -3.4)	-3.4 (-3.7, -3.2)	-3.5 (-3.6, -3.4)
Angola	-6.0 (-6.5, -5.6)	-5.1 (-5.5, -4.8)	-4.7 (-4.9, -4.4)
Central African Republic	-2.5 (-2.8, -2.2)	-2.3 (-2.5, -2.1)	-2.1 (-2.2, -2.0)
Congo	-4.8 (-5.3, -4.3)	-4.3 (-4.7, -3.9)	-2.7 (-2.9, -2.5)
Democratic Republic of the Congo	-4.7 (-5.2, -4.1)	-4.2 (-4.7, -3.7)	-3.7 (-4.1, -3.3)
Equatorial Guinea	-6.2 (-6.5, -5.9)	-5.5 (-5.8, -5.3)	-4.9 (-5.2, -4.5)
Gabon	-4.1 (-4.5, -3.7)	-3.9 (-4.2, -3.6)	-2.9 (-3.1, -2.8)
Burundi	-4.9 (-5.2, -4.5)	-3.8 (-4.1, -3.5)	-2.9 (-3.1, -2.6)
Comoros	-4.7 (-4.9, -4.5)	-4.2 (-4.4, -4.0)	-3.3 (-3.4, -3.2)
Djibouti	-4.5 (-4.9, -4.1)	-4.0 (-4.4, -3.7)	-2.7 (-2.9, -2.5)
Eritrea	-5.1 (-5.3, -4.9)	-4.31 (-4.5, -4.2)	-3.4 (-3.5, -3.2)
Ethiopia	-6.2 (-6.5, -6.0)	-5.1 (-5.3, -4.9)	-3.8 (-4.0, -3.7)
Kenya	-4.9 (-5.3, -4.5)	-4.0 (-4.4, -3.7)	-2.7 (-2.9, -2.4)
Madagascar	-3.6 (-3.8, -3.4)	-2.8 (-3.0, -2.6)	-2.2 (-2.4, -2.1)
Malawi	-6.5 (-6.8, -6.2)	-5.2 (-5.4, -5.1)	-3.0 (-3.1, -2.9)
Mauritius	-1.1 (-1.4, -0.7)	-0.8 (-1.2, -0.5)	-0.4 (-0.8, -0.1)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Mozambique	-5.5 (-5.8, -5.3)	-4.6 (-4.8, -4.3)	-3.6 (-3.5, -3.3)
Rwanda	-7.0 (-7.6, -6.4)	-5.8 (-6.2, -5.3)	-3.9 (-4.1, -3.7)
Seychelles	-1.3 (-1.8, -0.7)	-1.0 (-1.5, -0.4)	-1.1 (-1.4, -0.8)
Somalia	-3.2 (-3.4, -3.1)	-2.5 (-2.6, -2.4)	-2.13 (-2.20, -2.05)
United Republic of Tanzania	-5.3 (-5.5, -5.0)	-4.8 (-5.0, -4.6)	-2.8 (-2.9, -2.7)
Uganda	-5.2 (-5.4, -4.9)	-4.2 (-4.5, -3.9)	-1.99 (-2.04, -1.93)
Zambia	-6.1 (-6.5, -5.6)	-5.1 (-5.5, -4.7)	-2.8 (-3.1, -2.5)
Botswana	-3.5 (-4.2, -2.8)	-2.9 (-3.4, -2.4)	-2.2 (-2.3, -2.0)
Lesotho	-1.0 (-1.5, -0.4)	-1.1 (-1.6, -0.6)	-1.5 (-1.7, -1.4)
Namibia	-3.5 (-4.2, -2.8)	-2.9 (-3.5, -2.3)	-2.4 (-2.6, -2.3)
South Africa	-3.6 (-4.5, -2.6)	-3.1 (-3.9, -2.4)	-2.2 (-2.4, -2.0)
Eswatini	-2.9 (-4.1, -1.7)	-2.4 (-3.4, -1.3)	-2.2 (-2.5, -2.0)
Zimbabwe	-2.3 (-3.0, -1.6)	-1.6 (-2.2, -1.1)	0.14 (-0.19, 0.48)
Benin	-3.3 (-3.5, -3.1)	-3.0 (-3.2, -2.9)	-2.1 (-2.2, -2.1)
Burkina Faso	-3.4 (-3.6, -3.1)	-2.8 (-3.0, -2.6)	-2.7 (-2.8, -2.6)
Cameroon	-3.4 (-3.9, -3.0)	-2.9 (-3.2, -2.6)	-2.6 (-2.7, -2.5)
Cabo Verde	-7.1 (-7.5, -6.8)	-6.6 (-7.0, -6.2)	-2.9 (-3.1, -2.8)
Chad	-2.6 (-2.8, -2.4)	-2.2 (-2.3, -2.0)	-2.0 (-2.0, -1.9)
Cote d'Ivoire	-3.5 (-4.0, -3.1)	-3.2 (-3.6, -2.9)	-2.7 (-3.0, -2.5)
Gambia	-4.9 (-5.1, -4.7)	-4.0 (-4.2, -3.9)	-3.1 (-3.2, -3.0)
Ghana	-4.0 (-4.4, -3.6)	-3.1 (-3.4, -2.8)	-2.8 (-2.5, -2.1)
Guinea	-3.7 (-3.9, -3.5)	-3.0 (-3.1, -2.8)	-2.6 (-2.7, -2.5)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
Guinea-Bissau	-5.6 (-6.0, -5.2)	-4.7 (-5.1, -4.3)	-3.5 (-3.8, -3.2)
Liberia	-5.8 (-6.2, -5.5)	-4.8 (-5.2, -4.5)	-2.9 (-3.1, -2.7)
Mali	-4.1 (-4.3, -3.9)	-3.2 (-3.4, -3.0)	-3.0 (-3.1, -2.8)
Mauritania	-4.6 (-4.9, -4.3)	-3.8 (-4.1, -3.5)	-3.1 (-3.3, -2.9)
Niger	-5.1 (-5.3, -4.9)	-4.3 (-4.5, -4.1)	-3.3 (-3.6, -3.1)
Nigeria	-3.4 (-3.7, -3.1)	-2.5 (-2.7, -2.2)	-2.2 (-2.4, -2.0)
Sao Tome and Principe	-7.8 (-8.4, -7.1)	-6.3 (-6.9, -5.8)	-3.9 (-4.3, -3.5)
Senegal	-5.8 (-6.2, -5.4)	-4.2 (-4.5, -3.8)	-2.8 (-3.0, -2.6)
Sierra Leone	-4.8 (-5.2, -4.4)	-4.1 (-4.4, -3.7)	-3.3 (-3.5, -3.1)
Togo	-3.7 (-4.1, -3.3)	-3.2 (-3.5, -3.0)	-2.7 (-2.9, -2.5)
American Samoa	-2.3 (-2.6, -2.0)	-2.1 (-2.6, -1.7)	-1.2 (-1.5, -0.9)
Bermuda	-4.2 (-4.6, -3.8)	-4.3 (-4.7, -3.9)	-3.7 (-4.1, -3.3)
Cook Islands	-6.5 (-7.3, -5.8)	-6.3 (-7.0, -5.6)	-5.0 (-5.5, -4.7)
Greenland	-5.0 (-5.3, -4.6)	-5.5 (-5.9, -5.2)	-3.5 (-3.9, -3.2)
Guam	0.2 (-0.2, 0.5)	0.3 (-0.01, 0.67)	1.1 (0.6, 1.7)
Monaco	-3.5 (-4.2, -2.9)	-3.1 (-3.6, -2.6)	-2.6 (-3.1, -2.1)
Nauru	-2.2 (-3.3, -1.1)	-2.5 (-3.6, -1.3)	-0.5 (-1.0, -0.1)
Niue	-0.7 (-1.6, 0.3)	-0.9 (-1.9, 0.1)	-0.4 (-1.4, 0.6)
Northern Mariana Islands	-2.0 (-2.4, -1.6)	-1.5 (-1.7, -1.3)	-1.5 (-1.7, -1.3)
Palau	-2.7 (-2.9, -2.4)	-2.6 (-2.8, -2.4)	-1.8 (-1.9, -1.7)
Puerto Rico	-2.5 (-3.1, -2.0)	-1.7 (-2.3, -1.1)	-1.2 (-2.0, -0.4)
Saint Kitts and Nevis	-2.7 (-3.3, -2.1)	-3.4 (-4.1, -2.7)	-1.6 (-1.8, -1.4)

**Table S7** EAPC in mortality rate of total infectious diseases in 204 countries by age, 1990–2021 (continued)

Country	EAPC in deaths rate of total infectious diseases per 100 000 (95%CI), 1990-2021		
	< 5 years	< 1 year	< 28 days
San Marino	-4.1 (-4.4, -3.7)	-3.9 (-4.4, -3.5)	-3.2 (-3.6, -2.9)
Tokelau	-2.4 (-4.1, -0.7)	-1.9 (-3.7, -0.1)	-1.2 (-2.7, 0.5)
Tuvalu	-7.1 (-7.7, -6.4)	-6.05 (-6.9, -5.2)	-3.5 (-3.7, -3.4)
United States Virgin Islands	-2.5 (-2.9, -2.1)	-2.2 (-2.5, -1.9)	-1.4 (-1.6, -1.2)
South Sudan	-2.15 (-2.5, -1.8)	-1.8 (-2.0, -1.7)	-1.3 (-1.4, -1.2)
Sudan	-7.2 (-7.5, -6.9)	-6.3 (-6.6, -6.0)	-4.7 (-4.9, -4.4)

EAPC, estimated annual percentage change. EAPC is expressed as 95% CIs.

**Table S8** Change in disease burden contributed by specific infectious diseases among children under-5 years of age, by super-regions, from 1990 to 2021 and 2021 to 2030

	<b>HIV/AIDS and sexually transmitted infections</b>	<b>Respiratory infections and tuberculosis</b>	<b>Enteric infections</b>	<b>Neglected tropical diseases and malaria</b>	<b>Neonatal sepsis and other neonatal infections</b>	<b>Other infectious diseases</b>
<b>Change in disease burden contributed by specific infectious diseases from 1990 to 2021, %</b>						
Global	19.3	59.1	62.8	13.0	15.8	69.8
Central Europe, Eastern Europe, and Central Asia	-7.7	62.6	73.2	75.1	4.9	55.6
Southeast Asia, East Asia, and Oceania	1.2	81.6	83.2	30.6	29.4	82.9
High-income	53.1	69.9	55.1	25.8	36.7	58.5
Latin America and Caribbean	25.3	73.0	83.2	70.2	29.4	74.9
North Africa and Middle East	18.9	75.0	78.7	49.8	41.5	79.7
South Asia	16.7	60.2	77.6	75.8	28.5	79.6
Sub-Saharan Africa	37.1	51.0	51.7	27.0	18.8	66.1
<b>Change in disease burden contributed by specific infectious diseases from 2021 to 2030, %</b>						
Global	5.1	35.9	30.1	4.9	9.6	34.1
Central Europe, Eastern Europe, and Central Asia	-12.5	-46.4	39.9	37.2	11.4	15.0
Southeast Asia, East Asia, and Oceania	-5.4	58.0	47.7	15.8	18.2	53.8
High-income	6.0	-1.6	0.6	30.8	9.3	20.5
Latin America and Caribbean	-9.1	48.8	43.7	25.1	20.2	32.5
North Africa and Middle East	15.9	33.5	45.1	4.9	17.9	33.9
South Asia	-6.7	2.6	38.0	38.0	8.5	39.4
Sub-Saharan Africa	7.6	35.6	33.1	10.1	11.5	29.0

A negative value indicates that the burden attributed to certain infection has increased compared to the initial year, while a positive value signifies a decrease in the disease burden.