

Appendix to the Global Burden of Dengue: A systematic analysis from the Global Burden of Disease Study 2013

This appendix provides details on the modelling methodology, data used in both the fatal and non-fatal models, and tables of country-level results

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Appendix A: Methods

A.1: Model flowchart

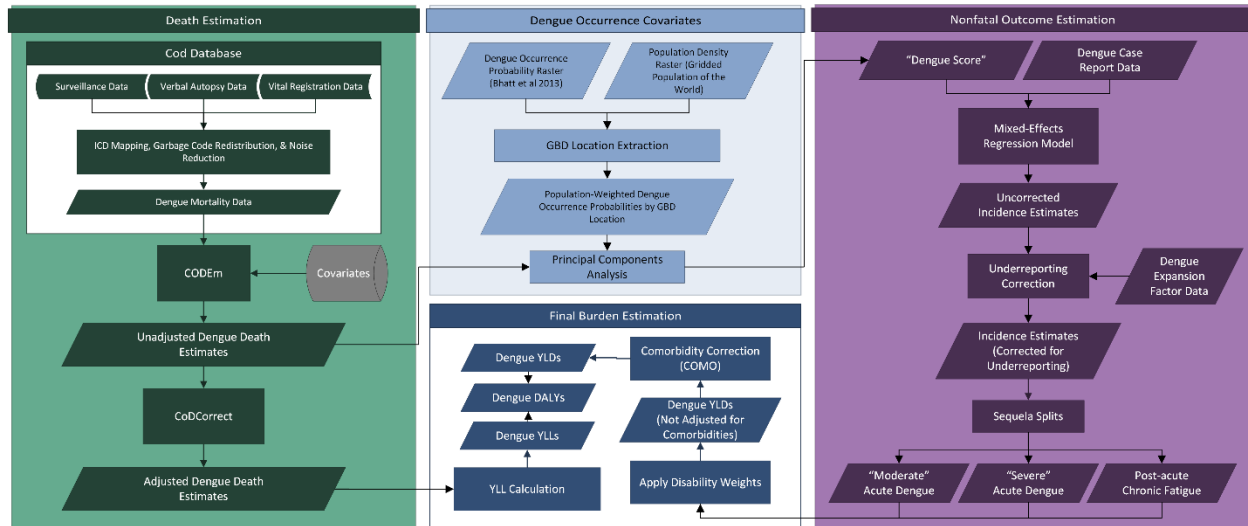


Figure S1: GBD 2013 data and model flow chart

A.2: CODEm model

We modelled dengue mortality using the Cause-of-Death Ensemble Model (CODEm) tool, which has been described in detail by Foreman et al.¹ Briefly, rather than producing a single model, CODEm produces several submodels using different combinations of covariates (based on potential covariates that are specified by the modeller), different dependent variables (cause fraction or mortality rate), and different model types (linear or spacetime). Each submodel is trained on 70% of the data and its predictions are tested against the remaining 30% to allow for the assessment of out-of-sample predictive performance. The training and holdout sample differ for each submodel. Submodels are ranked based on out-of-sample predictive performance, and a final prediction is made based on a combination of submodels in which the best performers are given greatest weight in the final prediction, moderate performers are given moderate weight, and poor performers are given little or no weight. For each cause, CODEm models are run separately for males and females.

The GBD CoD database contained a total of 167,962 data points for dengue mortality (Figure S1). The database is built from a combination of publically available and restricted data sources. Where our data use agreements allow us to publicly share data, the data used in the model may be interactively explored in the online CoD Visualization tool (<http://vizhub.healthdata.org/cod/>). These data were age, sex, country and year specific. Of these, 9,447 (5.6%) were excluded from the analysis: most exclusions were data points where zero dengue deaths were reported from a small sample in a dengue endemic location. In all cases, data were excluded if they reported an implausible fraction of deaths due to dengue and if they exerted an unduly strong influence on the model. Of the 158,515 included data points, 153,626 (96.9%) were from vital registration, 4,590 (2.9%) were from surveillance sources, and 299 (0.19%) were from verbal autopsy. A roughly equal number of data points existed for males (50.4%) and females (49.6%), and data were roughly evenly divided between age groups.

For dengue, a total 88 submodels were used: 50 submodels for females and 38 submodels for males. These were evenly split between linear and spacetime models, with a slight majority of models using cause fraction as the dependent variable (Table S1). The most successful covariate, based on inclusion in submodels, was the probability of dengue occurrence variable (PrDen). This variable was constructed by overlaying dengue risk maps developed by Bhatt et al² and population density maps from the Gridded Population of the World, version 3³:

$$PrDen_c = \frac{\sum_{i=1}^n pop_i \times dengue_i}{\sum_{i=1}^n pop_i}$$

where $PrDen_c$ is the population-weighted probability of dengue transmission in country, c , pop_i is the population in pixel i , and $dengue_i$ is the probability of dengue transmission in pixel i , and n is the total number of pixels in country c . This was the only covariate that was used in all included submodels. Health system access — a variable derived through principal components analysis (PCA) of numerous variables including skilled birth attendance, hospital beds per capita and vaccination rates, among others — was the next most successful covariate and was used in 77% of included submodels. Interestingly, the proportion of the population living where the population density exceeds 1,000 people per square-kilometer — a proxy for urbanity, a known risk factor for dengue — was used in none of the included models. This is likely a consequence of the dengue probability variable accounting for urbanicity (Table S2).

Table S1: The number of sub-models in which the dependent variable was cause-fraction versus mortality rate, by model type, for each sex.

Sex	Model Type	Dependent Variable		
		Cause Fraction	Rate	Both
Females	Linear	13	12	25
	Spacetime	13	12	25
	Both	26	24	50
Males	Linear	11	8	19
	Spacetime	11	8	19
	Both	22	16	38

Table S2: The number (and percent) of sub-models in which each covariate was used, among those models that were included in the final ensemble.

Covariate	Sex	
	Female	Male
Probability of dengue occurrence	50 (100.0)	38 (100.0)
Dengue anomalies (annual deviations in dengue case reports, by country, in standard deviations)	20 (40.0)	16 (42.1)
Health system access	40 (80.0)	28 (73.7)
Proportion of the population living between -15 and 15° latitude	20 (40.0)	12 (31.6)
Education (years per capita)	20 (40.0)	14 (36.8)
Log lag distributed income (LDI) per capita	20 (40.0)	18 (47.4)
Population living under 100 meters elevation (proportion)	0 (0.0)	8 (21.1)
Proportion of the population living where rainfall is in the 4th quintile	0 (0.0)	0 (0.0)
Proportion of the population living where rainfall is in the 5th quintile	20 (40.0)	16 (42.1)
Proportion of the population living where the population density exceeds 1,000 people per square-kilometer	0 (0.0)	0 (0.0)
Dengue outbreaks (binary indicator)	20 (40.0)	12 (31.6)

A.3: Incidence estimation

We attempted to correct for underreporting using a three-phase modelling approach: first, we defined the expected spatial distribution of disease; second, we modelled the association between this expected distribution and reported

incidence with the assumption that deviations from the expected distribution reflect deviations in completeness of reporting; and, third, we calibrated the model by benchmarking these deviations against published empirical expansion factors.

We had two potential sources to inform our expected distribution of cases, each with its own strengths and limitations. First, estimated mortality rates are linked to empirical mortality data and exist as a complete time series, but may suffer from non-uniform underreporting. Second, cartographic-based estimates of dengue transmission probability are free from problems of underreporting and are theoretically robust, but do not offer a time-series and may be considered disconnected from empirical data. Moreover, the collinearity of these two variables, mortality rates and dengue transmission probability, prevented us from including both in the model. To capture information from both sources while avoiding collinearity, we performed a principal components analysis of these two variables and created a dengue score variable from the first component.

We developed a mixed-effects negative binomial model with the expected number of reported cases in each country, i , and year, t , as the dependent variable, number in the population (pop) as the exposure or offset variable, fixed effects on dengue score ($score$), year (t), binary income category (high income, including countries classified by the World Bank as “high income, OECD” and “high income, non-OECD”, vs low/middle income, including countries classified as “low-income”, “lower-middle income” and “upper-middle income”)⁴ ($income$), and an interaction between year and income category, and random effects on location (α):

$$E(\ln(\text{reported}_{it})) = \beta_0 + \beta_1 \text{score}_{it} + \beta_2 t + \beta_3 \text{income}_i + \beta_4 t \times \text{income}_i + \alpha_i + \ln(\text{pop}_{it})$$

For simplicity, we rewrite this model as

$$E(\ln(\text{reported}_{it})) = X\beta + \alpha_i + \ln(\text{pop}_{it})$$

The fixed effects portion of this model, $X\beta$, therefore, captures the expected reported incidence in a given location and year, assuming that completeness of reporting in all locations and years is equal to the global mean level of completeness. And, α_i , therefore, captures the degree to which a country’s reporting deviates from the global mean level of completeness.

We are then able to make post-regression corrections for underreporting based on the random effect from the model and published expansion factor data. Expansion factors represent the ratio of true apparent infections to reported infections for a given country:

$$EF_i = \frac{\text{actual}_i}{\text{reported}_i}$$

or, alternatively,

$$\text{actual}_i = EF_i \times \text{reported}_i$$

With that, we can see that the expected actual number of cases may be represented as,

$$\ln(\text{actual}_{it}) = \ln(\text{pop}_{it}) + X\beta + \alpha_i + \ln(EF_i)$$

Expansion factor data are limited, leaving $\ln(EF_i)$ unknown for most countries. However, by pooling expansion factor data across countries, we may estimate a global expansion factor. And, since α_i captures deviations in reporting from the global mean, we may then also derive the true number of cases as,

$$\ln(\text{actual}_{it}) = \ln(\text{pop}_{it}) + X\beta + \overline{\ln(EF)}$$

where, $\overline{\ln(EF)}$ is the global mean log expansion factor:

$$\overline{\ln(EF)} = \frac{\sum_{i=1}^{n_i} \alpha_i + \ln(EF_i)}{n_i}$$

where n_i is the number of countries. From this we see that, for any given country,

$$\overline{\ln(EF)} = \alpha_i + \ln(EF_i)$$

Or, alternatively,

$$\ln(EF_i) = \overline{\ln(EF)} - \alpha_i$$

We conducted a literature review for studies that reported expansion factors or reporting rates (the inverse of an expansion factor). For each study, s , we calculated an estimate of $\overline{\ln(EF_s)}$ as the sum of log of the reported expansion factor, $\ln(EF_{s[i]})$, and the model-based random effect for the corresponding country and year, α_i . Where a study covered a range of years, we used the midpoint.

$$\overline{\ln(EF_s)} = \alpha_i + \ln(EF_{s[i]})$$

We then estimated $\overline{\ln(EF)}$ as the mean value of each study-specific estimate,

$$\overline{\ln(EF)} \approx \frac{\sum_{s=1}^{n_s} \overline{\ln(EF_s)}}{n_s}$$

where n_s is the number of expansion factor studies. This allowed us to pool information about expansion factors across studies and estimate a global mean that could be applied to all countries.

We estimated the log-incidence rate (IR) in each country and year, then, as the sum of the fixed effects and log-global expansion factor:

$$\ln(\widehat{IR}_{it}) = X\hat{\beta} + \overline{\ln(EF)}$$

We propagated uncertainty from both our fixed effects and our estimate of \overline{EF} into our final estimates using posterior simulation: we created 1,000 draws of each incidence rate estimate, where each draw was the sum of a draw from the distribution of fixed effects and a draw from the distribution of global expansion factors, using a log-normal distribution with the standard deviation $\overline{\ln(EF_s)}$, under the assumption of exchangeability, by the observed between-study standard deviation in estimates of $\overline{\ln(EF_s)}$. For each country-year, the mean draw was taken as the point estimate, and the 2.5th and 97.5th percentile draws were taken as the bounds of the 95% uncertainty interval.

We had a total of 1,636 country-years of dengue case reports from 76 countries and 34 subnational divisions, between 1988 and 2013 (Figure S2). We found published expansion factor estimates for 14 countries: nine from the Southeast Asia region,⁵⁻¹¹ two from high-income Asia Pacific,¹⁰ two from Central Latin America,^{12,13} and one from South Asia.¹⁰

The case reports used in the analysis do not disaggregate cases by age and sex. We therefore modelled total cases by country and year and then distributed cases to age-sex groups based on the age-sex distribution of dengue cases captured by the Hospital Information System of the Brazilian Unified National Health System (SIH-SUS).¹⁴

A.4: Burden estimation

We estimated three burden metrics: years of life lost to premature mortality (YLL), years lived with disability (YLD) and disability adjusted life years (DALY). YLLs were estimated as the difference between the age of death

and the corresponding life expectancy goal for those surviving to that age of death; here, the life-expectancy goal is based on a theoretical composite life table in which the target life-expectancy for each age is equal to the longest observed life-expectancy among people of that age in any country.¹⁵ YLDs were calculated as the product of the number of cases having a given health state, the duration of that health state, and the disability weight for that health state. DALYs were calculated as the sum of YLLs and YLDs. GBD studies conducted prior to 2010 applied a discount rate to burden estimates; however, discounting has not been applied in recent GBD studies and, as such, we used no discounting in our burden estimation. To estimate years lived with disability (YLD), we assigned a health state and corresponding disability weight to each case. GBD 2013 uses 235 health states, each having a disability weight based on pooled results from the GBD 2010 Disability Weights Measurement study¹⁶ and the more recent European disability weights study.¹⁷ We assigned each dengue case to one of two acute health states: 94·5% of cases were assigned the disability weight for “infectious disease, acute episode, moderate” (0·051 [0·032 – 0·074]) with a mean duration of 6 days; and 5·5% were assigned the disability weight for “infectious disease, acute episode, severe” (0·133 [0·088 – 0·190]) with a mean duration of 14 days.¹⁸ We derived the proportions for the split between moderate and severe states based on a meta-analysis of the subset of case notification data that presented both the total number of cases, and the number of severe cases (defined as either dengue hemorrhagic fever or dengue shock syndrome). Additionally, 8·5% of cases were assumed to experience post-dengue chronic fatigue, and assigned the disability weight for “Infectious disease, post-acute consequences (0·219 [0·148 – 0·308]), with a mean duration of six-months.¹⁹ Finally, we account for comorbidities through a micro-simulation in which each sequela modelled in GBD 2013 is probabilistically assigned to a population of simulated individuals. Within individuals who are assigned more than one sequela, their total disability is calculated as one minus the product of one minus the disability weight for each sequela assigned to that individual. This ensures that no set of comorbidities results in a combined disability weight greater than one.²⁰

Appendix B: Comparison of GBD incidence estimates to incidence observed in vaccine trials

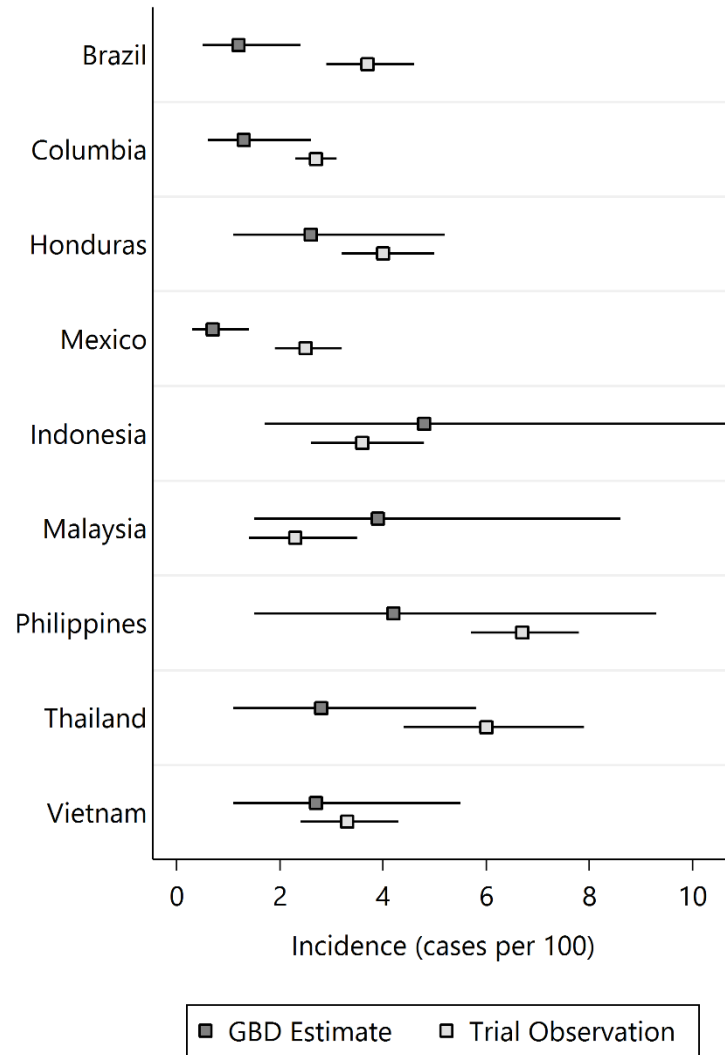


Figure S2: Comparison of GBD dengue incidence estimates to incidence observed in the control arms of two recent dengue vaccine trials, showing point estimates and 95% uncertainty intervals. Observed incidence in Latin American countries were among children ages 9 to 16, from 2011 through 2013,²¹ and are compared here to GBD estimates among children ages 10 through 14 in 2013. Observed incidence in Southeast Asian countries were among children ages 2 to 14 years, in 2011 and 2012,²² and are compared here to GBD estimates among children ages 1 to 14 years in 2013.

Appendix C: Country-Level Estimates

Table S3: Dengue cases and deaths (and 95% uncertainty intervals) by country, for 2013				
Country	Cases (thousands)	Age-standardized incidence (per 100,000)	Deaths	Mortality rate (per 100,000)
Afghanistan	104.5 (33.6, 243.6)	332.4 (107.0, 774.9)	13.1 (5.4, 18.9)	0.043 (0.019, 0.064)
Albania	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.3 (0.2, 0.5)	0.010 (0.008, 0.015)
Algeria	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	3.9 (3.2, 5.4)	0.010 (0.009, 0.014)
Andorra	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.007 (0.005, 0.010)
Angola	96.7 (34.6, 216.7)	440.4 (157.4, 986.3)	11.4 (7.0, 19.1)	0.039 (0.025, 0.063)
Antigua and Barbuda	0.7 (0.1, 2.3)	689.9 (115.3, 2,272.1)	0.2 (0.1, 0.3)	0.223 (0.160, 0.298)
Argentina	151.2 (50.3, 351.6)	364.2 (121.1, 846.9)	17.6 (14.3, 27.1)	0.043 (0.034, 0.065)
Armenia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.3 (0.3, 0.4)	0.011 (0.009, 0.014)
Australia	4.3 (0.5, 15.5)	18.1 (2.3, 65.9)	2.3 (1.5, 2.6)	0.010 (0.006, 0.011)
Austria	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.8 (0.5, 0.9)	0.009 (0.006, 0.011)
Azerbaijan	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.0 (0.8, 1.5)	0.010 (0.008, 0.016)
Bahrain	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.1, 0.2)	0.011 (0.009, 0.014)
Bangladesh	2,497.4 (1,089.0, 4,972.4)	1,578.1 (688.1, 3,142.0)	261.6 (143.1, 374.4)	0.223 (0.121, 0.312)
Barbados	2.2 (0.4, 7.1)	671.7 (113.5, 2,206.8)	0.5 (0.4, 0.7)	0.177 (0.133, 0.231)
Belarus	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.0 (0.8, 1.5)	0.010 (0.008, 0.014)
Belgium	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.1 (0.9, 1.4)	0.010 (0.008, 0.012)
Belize	6.5 (2.8, 13.0)	1,718.6 (742.9, 3,434.1)	0.9 (0.7, 1.2)	0.331 (0.243, 0.412)
Benin	114.3 (49.7, 227.8)	1,089.9 (474.0, 2,172.4)	6.1 (3.5, 10.1)	0.058 (0.035, 0.108)
Bhutan	2.9 (1.0, 6.7)	385.6 (131.4, 885.2)	0.5 (0.3, 0.8)	0.077 (0.050, 0.126)
Bolivia	33.4 (10.3, 79.9)	308.2 (94.7, 737.9)	1.9 (1.3, 4.3)	0.022 (0.015, 0.049)
Bosnia and Herzegovina	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 1.1)	0.013 (0.011, 0.027)
Botswana	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.1, 0.2)	0.007 (0.005, 0.010)
Brazil	1,907.9 (818.5, 3,843.6)	951.7 (408.3, 1,917.2)	255.6 (33.6, 316.7)	0.141 (0.017, 0.177)
Brunei	1.2 (0.2, 3.6)	286.3 (57.4, 871.6)	0.1 (0.1, 0.2)	0.025 (0.018, 0.059)
Bulgaria	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.1 (0.9, 1.5)	0.014 (0.012, 0.019)
Burkina Faso	95.4 (36.5, 204.7)	553.7 (212.1, 1,188.6)	9.2 (5.9, 13.4)	0.042 (0.027, 0.068)
Burundi	31.2 (9.5, 75.3)	302.9 (92.0, 729.9)	2.0 (1.2, 2.6)	0.026 (0.011, 0.037)
Cambodia	418.3 (168.1, 869.6)	2,727.9 (1,096.3, 5,670.9)	112.4 (67.2, 145.9)	0.661 (0.413, 0.837)
Cameroon	183.5 (77.8, 373.8)	809.5 (343.4, 1,649.0)	19.1 (12.0, 29.0)	0.069 (0.048, 0.098)
Canada	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	3.4 (2.4, 3.9)	0.010 (0.007, 0.011)
Cape Verde	1.8 (0.6, 4.2)	359.7 (119.5, 836.4)	0.1 (0.1, 0.2)	0.021 (0.011, 0.047)
Central African Republic	25.4 (9.6, 54.7)	540.1 (205.3, 1,163.8)	2.5 (1.4, 3.9)	0.047 (0.029, 0.068)
Chad	52.6 (18.3, 119.6)	402.7 (139.8, 915.2)	6.3 (3.7, 9.8)	0.035 (0.024, 0.051)
Chile	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	2.2 (1.6, 5.4)	0.013 (0.009, 0.031)
China	1,076.4 (356.3, 2,498.6)	79.6 (26.4, 184.8)	135.8 (112.3, 158.0)	0.010 (0.008, 0.011)
Colombia	510.1 (220.7, 1,018.8)	1,054.3 (456.3, 2,105.8)	90.0 (23.3, 115.1)	0.206 (0.053, 0.263)
Comoros	3.9 (1.4, 8.4)	518.5 (192.9, 1,126.5)	0.2 (0.1, 0.4)	0.042 (0.015, 0.068)
Congo	21.8 (8.0, 48.0)	484.8 (177.7, 1,065.9)	1.8 (1.2, 2.8)	0.039 (0.026, 0.059)
Costa Rica	46.5 (20.0, 93.7)	955.7 (410.1, 1,924.4)	1.3 (1.1, 2.5)	0.028 (0.023, 0.056)
Cote d'Ivoire	311.1 (136.0, 618.6)	1,508.8 (659.8, 3,000.4)	22.2 (14.5, 30.5)	0.097 (0.065, 0.136)
Croatia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.4 (0.3, 0.5)	0.009 (0.007, 0.011)
Cuba	243.7 (104.7, 489.3)	1,902.8 (817.6, 3,821.3)	8.4 (6.7, 12.1)	0.076 (0.059, 0.112)
Cyprus	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.1, 0.1)	0.012 (0.009, 0.014)
Czech Republic	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.0 (0.7, 1.1)	0.009 (0.006, 0.011)
Democratic Republic of the Congo	354.2 (131.7, 770.2)	514.7 (191.4, 1,119.2)	44.3 (24.9, 68.7)	0.050 (0.030, 0.082)
Denmark	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.6 (0.4, 0.6)	0.010 (0.007, 0.011)
Djibouti	1.6 (0.4, 4.7)	185.3 (44.0, 532.0)	0.2 (0.1, 0.3)	0.023 (0.012, 0.036)
Dominica	2.3 (0.9, 4.8)	2,850.6 (1,135.3, 5,958.1)	0.1 (0.1, 0.2)	0.213 (0.153, 0.293)
Dominican Republic	310.4 (126.3, 642.5)	2,612.1 (1,063.0, 5,406.1)	83.7 (20.4, 115.5)	0.809 (0.200, 1.101)
Ecuador	163.5 (70.6, 326.7)	1,032.5 (446.0, 2,063.8)	23.4 (15.2, 28.6)	0.153 (0.099, 0.190)
Egypt	412.1 (151.9, 902.1)	499.6 (184.1, 1,093.6)	8.4 (7.0, 13.0)	0.010 (0.009, 0.016)
El Salvador	141.6 (60.1, 288.4)	2,197.0 (931.9, 4,475.4)	3.8 (3.0, 6.3)	0.061 (0.048, 0.102)
Equatorial Guinea	1.6 (0.3, 4.9)	210.9 (43.4, 635.9)	0.8 (0.4, 1.5)	0.087 (0.051, 0.157)
Eritrea	10.5 (2.3, 30.9)	164.7 (36.4, 483.1)	0.9 (0.4, 1.4)	0.019 (0.007, 0.031)
Estonia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.1, 0.1)	0.009 (0.005, 0.011)
Ethiopia	221.9 (57.9, 581.8)	230.5 (60.2, 604.4)	14.3 (8.7, 22.8)	0.020 (0.009, 0.035)
Federated States of Micronesia	5.4 (1.9, 12.3)	4,618.2 (1,608.8, 10,475.5)	2.7 (1.7, 4.2)	4.433 (2.326, 6.594)
Fiji	31.3 (12.2, 66.3)	3,204.4 (1,244.6, 6,780.4)	2.8 (1.6, 8.5)	0.383 (0.233, 1.179)
Finland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.6 (0.5, 0.9)	0.010 (0.009, 0.015)
France	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	6.1 (4.1, 7.0)	0.009 (0.006, 0.011)
Gabon	14.9 (6.4, 30.2)	882.4 (376.9, 1,785.7)	1.3 (0.9, 2.0)	0.075 (0.051, 0.112)
Georgia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 0.7)	0.011 (0.010, 0.015)
Germany	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	8.9 (7.5, 17.1)	0.010 (0.009, 0.017)
Ghana	342.9 (150.5, 680.8)	1,308.3 (574.3, 2,597.6)	20.4 (13.2, 30.0)	0.072 (0.047, 0.118)
Greece	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.4 (1.1, 1.7)	0.012 (0.009, 0.014)
Grenada	3.7 (1.5, 7.9)	3,086.9 (1,211.3, 6,508.8)	0.3 (0.2, 0.3)	0.265 (0.190, 0.332)

Table S3: Dengue cases and deaths (and 95% uncertainty intervals) by country, for 2013

Country	Cases (thousands)	Age-standardized incidence (per 100,000)	Deaths	Mortality rate (per 100,000)
Guatemala	188.2 (82.4, 374.0)	1,193.4 (522.6, 2,371.9)	21.8 (14.5, 28.6)	0.150 (0.102, 0.188)
Guinea	78.3 (31.4, 163.1)	657.7 (263.3, 1,370.0)	6.8 (3.8, 9.8)	0.049 (0.030, 0.082)
Guinea-Bissau	17.4 (7.5, 34.8)	1,006.4 (433.7, 2,013.6)	1.8 (1.0, 2.8)	0.089 (0.056, 0.129)
Guyana	12.0 (5.3, 23.8)	1,310.7 (575.4, 2,602.4)	3.5 (2.4, 4.9)	0.479 (0.331, 0.630)
Haiti	116.8 (50.3, 233.8)	989.0 (425.7, 1,980.6)	2.7 (2.0, 5.2)	0.030 (0.023, 0.052)
Honduras	171.4 (73.0, 347.8)	2,082.4 (887.2, 4,224.5)	24.2 (15.5, 40.2)	0.469 (0.309, 0.742)
Hungary	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.9 (0.6, 1.0)	0.009 (0.006, 0.010)
Iceland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.010 (0.006, 0.013)
India	18,617.1 (8,154.6, 36,999.7)	1,480.4 (648.4, 2,942.1)	1,662.5 (1,318.3, 2,298.3)	0.160 (0.128, 0.222)
Indonesia	11,101.2 (3,939.7, 24,968.5)	4,446.0 (1,577.8, 9,999.7)	3,096.0 (1,256.5, 4,120.3)	1.222 (0.514, 1.609)
Iran	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	7.4 (5.9, 9.1)	0.010 (0.008, 0.012)
Iraq	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	6.2 (4.4, 8.2)	0.016 (0.012, 0.023)
Ireland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.4 (0.3, 0.5)	0.010 (0.007, 0.011)
Israel	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.8 (0.7, 1.4)	0.010 (0.009, 0.018)
Italy	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	5.7 (3.6, 6.5)	0.009 (0.006, 0.010)
Jamaica	75.7 (31.7, 155.0)	2,368.1 (991.9, 4,850.5)	4.1 (3.0, 6.0)	0.150 (0.111, 0.220)
Japan	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	12.2 (8.8, 14.2)	0.010 (0.007, 0.011)
Jordan	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.7 (0.5, 0.9)	0.009 (0.007, 0.012)
Kazakhstan	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.6 (3.6, 7.1)	0.028 (0.022, 0.042)
Kenya	43.5 (7.1, 144.8)	96.4 (15.6, 320.9)	3.8 (2.5, 8.4)	0.009 (0.006, 0.018)
Kiribati	1.5 (0.6, 2.9)	1,274.9 (559.5, 2,531.9)	7.0 (3.4, 9.3)	11.927 (5.356, 16.148)
Kuwait	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.4 (0.3, 0.5)	0.011 (0.010, 0.017)
Kyrgyzstan	6.9 (1.3, 21.5)	124.8 (23.9, 387.2)	0.5 (0.4, 0.7)	0.009 (0.008, 0.012)
Laos	99.0 (43.4, 196.6)	1,441.4 (631.8, 2,863.9)	35.0 (17.9, 56.3)	0.430 (0.224, 0.684)
Latvia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.1, 0.2)	0.010 (0.006, 0.012)
Lebanon	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 0.7)	0.011 (0.008, 0.014)
Lesotho	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.2, 0.3)	0.013 (0.009, 0.016)
Liberia	46.7 (20.3, 93.1)	1,073.4 (466.1, 2,140.8)	2.6 (1.3, 4.6)	0.057 (0.030, 0.115)
Libya	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.7 (0.6, 1.0)	0.012 (0.010, 0.018)
Lithuania	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.3 (0.2, 0.3)	0.009 (0.006, 0.011)
Luxembourg	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.0, 0.1)	0.012 (0.007, 0.014)
Macedonia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.2, 0.3)	0.011 (0.008, 0.013)
Madagascar	62.9 (18.0, 154.9)	270.1 (77.5, 665.1)	3.2 (1.4, 5.6)	0.019 (0.007, 0.035)
Malawi	69.1 (24.2, 156.1)	413.7 (145.1, 934.9)	3.7 (2.8, 5.2)	0.027 (0.016, 0.033)
Malaysia	1,080.2 (402.0, 2,346.4)	3,618.5 (1,346.9, 7,860.4)	167.9 (132.5, 204.9)	0.625 (0.495, 0.771)
Maldives	3.8 (1.7, 7.6)	1,096.3 (476.7, 2,185.3)	2.0 (1.3, 2.8)	0.710 (0.505, 1.044)
Mali	71.9 (26.1, 159.3)	464.1 (168.3, 1,028.5)	8.1 (4.7, 12.2)	0.038 (0.025, 0.057)
Malta	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.1)	0.010 (0.007, 0.012)
Marshall Islands	1.9 (0.8, 4.0)	2,541.5 (1,042.8, 5,245.4)	1.5 (1.0, 2.1)	3.451 (2.150, 4.689)
Mauritania	9.7 (2.6, 24.7)	244.9 (65.7, 626.9)	0.8 (0.5, 1.4)	0.020 (0.013, 0.038)
Mauritius	32.5 (13.3, 67.2)	2,629.5 (1,072.9, 5,437.3)	2.3 (1.7, 3.0)	0.202 (0.156, 0.270)
Mexico	663.2 (263.3, 1,410.6)	538.7 (213.8, 1,145.9)	53.8 (30.8, 60.1)	0.053 (0.029, 0.060)
Moldova	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.3 (0.2, 0.4)	0.009 (0.007, 0.011)
Mongolia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.4 (0.3, 0.8)	0.014 (0.011, 0.028)
Montenegro	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.1 (0.0, 0.1)	0.009 (0.008, 0.012)
Morocco	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	3.4 (2.8, 4.7)	0.011 (0.009, 0.015)
Mozambique	95.0 (31.6, 220.7)	360.3 (120.1, 837.2)	5.4 (3.3, 7.3)	0.028 (0.013, 0.039)
Myanmar	582.6 (253.0, 1,161.9)	1,094.0 (475.1, 2,181.8)	167.9 (83.4, 257.7)	0.339 (0.172, 0.518)
Namibia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.2, 0.3)	0.011 (0.009, 0.013)
Nepal	226.1 (95.8, 460.6)	796.4 (337.4, 1,622.3)	20.3 (13.7, 35.0)	0.103 (0.063, 0.171)
Netherlands	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.7 (1.2, 1.9)	0.010 (0.007, 0.011)
New Zealand	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.4 (0.3, 0.5)	0.010 (0.006, 0.011)
Nicaragua	120.4 (51.5, 243.0)	1,953.2 (836.3, 3,943.2)	12.0 (9.2, 14.3)	0.222 (0.172, 0.266)
Niger	75.5 (26.5, 170.5)	420.2 (147.6, 948.7)	8.2 (5.1, 12.5)	0.033 (0.021, 0.059)
Nigeria	2,285.2 (1,003.2, 4,537.4)	1,303.8 (572.4, 2,588.8)	167.5 (99.8, 262.0)	0.074 (0.047, 0.109)
North Korea	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.2 (2.8, 5.9)	0.017 (0.011, 0.024)
Norway	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 0.6)	0.010 (0.007, 0.011)
Oman	2.0 (0.4, 6.1)	54.3 (10.3, 169.7)	0.5 (0.4, 0.8)	0.023 (0.017, 0.041)
Pakistan	1,403.4 (587.1, 2,876.3)	759.6 (317.7, 1,556.7)	174.3 (132.7, 269.7)	0.123 (0.093, 0.165)
Palestine	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 0.6)	0.012 (0.010, 0.017)
Panama	68.2 (29.4, 136.4)	1,760.9 (759.9, 3,521.0)	4.3 (3.5, 6.0)	0.121 (0.096, 0.165)
Papua New Guinea	71.8 (30.7, 145.4)	881.4 (376.4, 1,783.9)	40.2 (25.8, 83.8)	0.860 (0.576, 1.557)
Paraguay	111.1 (48.4, 221.5)	1,613.8 (702.3, 3,215.8)	23.8 (6.9, 30.5)	0.557 (0.146, 0.727)
Peru	217.6 (89.0, 449.6)	711.6 (291.0, 1,470.5)	18.3 (13.0, 31.9)	0.062 (0.044, 0.105)
Philippines	3,900.0 (1,426.2, 8,593.4)	3,914.8 (1,431.6, 8,626.0)	1,210.3 (450.2, 1,611.6)	1.033 (0.391, 1.353)
Poland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.0 (3.4, 6.9)	0.010 (0.009, 0.018)
Portugal	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.0 (0.7, 1.1)	0.009 (0.006, 0.010)
Qatar	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.2, 0.3)	0.014 (0.011, 0.017)
Romania	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	2.3 (1.8, 5.7)	0.012 (0.008, 0.034)
Russia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	15.2 (12.6, 22.2)	0.010 (0.009, 0.015)

Table S3: Dengue cases and deaths (and 95% uncertainty intervals) by country, for 2013

Country	Cases (thousands)	Age-standardized incidence (per 100,000)	Deaths	Mortality rate (per 100,000)
Rwanda	27.8 (7.3, 72.9)	232.1 (60.6, 608.2)	1.6 (1.1, 2.3)	0.019 (0.009, 0.028)
Saint Lucia	6.2 (2.5, 13.2)	3,001.2 (1,183.7, 6,333.9)	0.4 (0.3, 0.5)	0.210 (0.158, 0.284)
Saint Vincent and the Grenadines	2.5 (1.1, 5.0)	1,978.2 (847.0, 3,993.5)	0.3 (0.2, 0.4)	0.249 (0.186, 0.344)
Samoa	2.0 (0.9, 4.1)	948.9 (407.4, 1,909.0)	1.4 (0.9, 2.5)	1.177 (0.753, 1.910)
Sao Tome and Principe	1.9 (0.8, 3.9)	992.5 (427.3, 1,987.5)	0.1 (0.0, 0.2)	0.047 (0.022, 0.097)
Saudi Arabia	10.3 (1.7, 33.9)	36.1 (6.1, 118.6)	5.3 (3.8, 6.3)	0.021 (0.014, 0.025)
Senegal	118.9 (50.5, 241.8)	829.6 (352.6, 1,687.1)	7.6 (5.0, 12.7)	0.051 (0.033, 0.098)
Serbia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.9 (0.7, 1.1)	0.010 (0.007, 0.011)
Seychelles	1.4 (0.6, 2.8)	1,521.1 (666.0, 3,023.5)	0.3 (0.2, 0.4)	0.324 (0.236, 0.487)
Sierra Leone	71.8 (31.4, 142.9)	1,157.1 (505.6, 2,301.9)	6.5 (3.8, 9.7)	0.088 (0.054, 0.130)
Singapore	15.0 (2.9, 46.5)	393.2 (75.7, 1,215.4)	1.1 (0.8, 1.5)	0.026 (0.020, 0.035)
Slovakia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 0.7)	0.010 (0.007, 0.012)
Slovenia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.1, 0.2)	0.009 (0.006, 0.012)
Solomon Islands	8.8 (3.9, 17.5)	1,400.7 (614.5, 2,781.8)	6.6 (4.0, 10.4)	2.089 (1.130, 3.093)
Somalia	26.0 (6.9, 66.6)	242.9 (65.0, 623.3)	1.8 (1.1, 2.9)	0.021 (0.011, 0.038)
South Africa	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.4 (3.5, 7.0)	0.009 (0.007, 0.014)
South Korea	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.8 (3.8, 6.4)	0.010 (0.007, 0.012)
South Sudan	21.8 (5.3, 62.1)	190.0 (46.1, 541.8)	1.9 (1.4, 2.4)	0.021 (0.012, 0.027)
Spain	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.5 (3.1, 5.2)	0.009 (0.006, 0.011)
Sri Lanka	689.3 (266.8, 1,461.5)	3,258.9 (1,261.6, 6,910.4)	119.5 (50.2, 153.7)	0.592 (0.252, 0.778)
Sudan	181.6 (66.1, 401.3)	468.5 (170.5, 1,035.5)	12.3 (8.2, 17.1)	0.031 (0.022, 0.044)
Suriname	15.9 (6.5, 32.9)	2,596.2 (1,060.3, 5,366.8)	1.8 (1.2, 2.2)	0.353 (0.233, 0.440)
Swaziland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.2 (0.1, 0.2)	0.013 (0.009, 0.018)
Sweden	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.9 (0.7, 1.1)	0.010 (0.006, 0.011)
Switzerland	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.7 (0.5, 0.8)	0.009 (0.006, 0.010)
Syria	49.7 (12.8, 132.9)	223.2 (57.3, 597.0)	3.6 (2.4, 5.3)	0.024 (0.015, 0.032)
Taiwan	182.0 (76.3, 372.7)	787.3 (329.9, 1,612.4)	4.5 (3.7, 5.7)	0.018 (0.015, 0.024)
Tajikistan	22.3 (6.4, 55.1)	269.6 (76.8, 665.6)	1.3 (1.1, 1.8)	0.014 (0.012, 0.020)
Tanzania	179.7 (59.8, 417.7)	359.6 (119.6, 836.0)	11.2 (7.8, 14.6)	0.023 (0.014, 0.030)
Thailand	1,689.8 (696.7, 3,482.0)	2,556.4 (1,054.0, 5,267.8)	175.8 (138.5, 306.6)	0.328 (0.255, 0.572)
The Bahamas	2.3 (0.4, 7.6)	549.5 (98.1, 1,783.3)	0.8 (0.6, 1.1)	0.232 (0.179, 0.314)
The Gambia	21.8 (9.5, 43.3)	1,159.1 (506.6, 2,305.8)	1.2 (0.7, 1.9)	0.060 (0.033, 0.112)
Timor-Leste	9.9 (4.2, 20.0)	843.1 (359.3, 1,710.1)	4.1 (2.7, 5.6)	0.246 (0.171, 0.331)
Togo	62.2 (26.6, 125.7)	901.0 (385.5, 1,820.4)	4.5 (2.7, 6.9)	0.057 (0.035, 0.093)
Tonga	2.9 (1.2, 5.9)	2,413.8 (1,002.7, 4,961.0)	3.8 (1.6, 5.2)	4.787 (1.850, 6.327)
Trinidad and Tobago	10.2 (1.7, 33.4)	670.5 (113.3, 2,202.9)	3.3 (2.5, 4.1)	0.248 (0.189, 0.320)
Tunisia	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.1 (0.9, 1.4)	0.010 (0.008, 0.014)
Turkey	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	8.1 (6.7, 11.2)	0.011 (0.009, 0.015)
Turkmenistan	21.0 (7.3, 48.0)	399.4 (137.6, 911.4)	3.2 (2.0, 4.3)	0.058 (0.036, 0.077)
Uganda	221.0 (85.8, 467.6)	576.3 (223.8, 1,219.5)	10.6 (8.5, 13.6)	0.038 (0.022, 0.046)
Ukraine	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	4.5 (3.5, 5.5)	0.010 (0.007, 0.011)
United Arab Emirates	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	1.2 (0.8, 1.8)	0.013 (0.010, 0.020)
United Kingdom	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	5.8 (4.0, 6.4)	0.009 (0.006, 0.010)
United States	51.0 (6.0, 189.5)	16.2 (1.9, 60.1)	30.7 (23.1, 36.1)	0.010 (0.007, 0.011)
Uruguay	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.5 (0.4, 1.4)	0.015 (0.010, 0.040)
Uzbekistan	42.4 (8.8, 127.5)	145.8 (30.3, 438.1)	2.9 (2.4, 4.3)	0.010 (0.008, 0.015)
Vanuatu	2.8 (1.2, 5.6)	992.6 (427.3, 1,987.3)	2.4 (1.6, 3.9)	1.521 (0.928, 2.244)
Venezuela	496.1 (215.9, 988.5)	1,627.0 (708.1, 3,241.9)	47.5 (34.8, 55.8)	0.172 (0.126, 0.205)
Vietnam	2,267.0 (940.1, 4,662.0)	2,480.9 (1,028.8, 5,102.0)	278.0 (160.9, 413.6)	0.332 (0.190, 0.488)
Yemen	108.1 (38.5, 242.8)	431.4 (153.5, 969.2)	6.9 (4.0, 11.1)	0.030 (0.017, 0.049)
Zambia	41.3 (12.0, 100.9)	278.6 (81.2, 681.6)	2.4 (1.8, 3.2)	0.022 (0.014, 0.028)
Zimbabwe	42.5 (12.8, 102.7)	293.5 (88.4, 709.4)	1.5 (1.0, 3.4)	0.011 (0.007, 0.024)

Table S4: Burden metrics (and 95% uncertainty intervals) by country, for 2013						
Country	YLDs	YLDs per 100,000	YLLs	YLLs per 100,000	DALYs	DALYs per 100,000
Afghanistan	1,016.6 (271.0, 2,802.7)	3.17 (0.86, 8.76)	860.6 (360.4, 1,240.2)	2.37 (0.96, 3.47)	1,877.2 (895.5, 3,710.4)	5.54 (2.62, 11.28)
Albania	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	16.9 (12.4, 24.4)	0.56 (0.40, 0.84)	16.9 (12.4, 24.4)	0.56 (0.40, 0.84)
Algeria	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	218.8 (180.6, 306.0)	0.52 (0.43, 0.74)	218.8 (180.6, 306.0)	0.52 (0.43, 0.74)
Andorra	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	0.3 (0.2, 0.4)	0.38 (0.22, 0.54)	0.3 (0.2, 0.4)	0.38 (0.22, 0.54)
Angola	941.0 (267.0, 2,501.4)	4.20 (1.19, 11.35)	860.5 (508.6, 1,438.6)	2.45 (1.60, 3.97)	1,801.5 (963.3, 3,441.9)	6.65 (3.41, 13.66)
Antigua and Barbuda	6.0 (0.8, 21.7)	6.66 (0.87, 24.25)	8.8 (6.0, 12.4)	9.86 (6.71, 14.04)	14.8 (8.5, 29.9)	16.52 (9.61, 33.32)
Argentina	1,460.9 (389.0, 3,979.2)	3.52 (0.94, 9.59)	948.9 (736.3, 1,458.1)	2.39 (1.84, 3.68)	2,409.8 (1,293.9, 4,869.8)	5.91 (3.21, 11.83)
Armenia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	17.9 (13.5, 21.7)	0.64 (0.48, 0.79)	17.9 (13.5, 21.7)	0.64 (0.48, 0.79)
Australia	43.7 (4.6, 166.0)	0.19 (0.02, 0.71)	112.5 (71.0, 128.6)	0.52 (0.33, 0.60)	156.2 (103.5, 276.9)	0.70 (0.46, 1.22)
Austria	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	35.5 (23.7, 40.6)	0.49 (0.32, 0.58)	35.5 (23.7, 40.6)	0.49 (0.32, 0.58)
Azerbaijan	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	53.7 (44.4, 83.7)	0.56 (0.46, 0.88)	53.7 (44.4, 83.7)	0.56 (0.46, 0.88)
Bahrain	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	6.9 (4.8, 8.4)	0.51 (0.35, 0.61)	6.9 (4.8, 8.4)	0.51 (0.35, 0.61)
Bangladesh	24,002.3 (8,501.0, 57,387.6)	15.03 (5.36, 35.91)	12,391.3 (7,085.3, 18,677.4)	8.27 (4.59, 12.31)	36,393.6 (19,940.7, 69,218.9)	23.30 (12.92, 44.30)
Barbados	18.0 (2.3, 66.9)	6.46 (0.82, 23.80)	20.9 (15.5, 28.8)	7.76 (5.61, 11.14)	38.9 (21.8, 84.8)	14.21 (7.91, 30.36)
Belarus	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	46.7 (37.4, 62.8)	0.54 (0.42, 0.69)	46.7 (37.4, 62.8)	0.54 (0.42, 0.69)
Belgium	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	49.7 (38.7, 59.2)	0.52 (0.39, 0.61)	49.7 (38.7, 59.2)	0.52 (0.39, 0.61)
Belize	56.1 (19.4, 137.6)	16.54 (5.69, 40.64)	49.2 (34.3, 69.0)	14.41 (10.21, 19.36)	105.3 (64.2, 186.1)	30.95 (18.80, 54.92)
Benin	1,108.4 (381.1, 2,712.6)	10.42 (3.61, 25.27)	408.3 (226.2, 638.8)	3.13 (1.85, 5.29)	1,516.7 (743.9, 3,105.6)	13.55 (6.48, 28.55)
Bhutan	28.4 (7.7, 79.6)	3.71 (1.03, 10.33)	22.7 (13.6, 44.5)	3.11 (1.91, 5.78)	51.1 (26.9, 103.3)	6.82 (3.69, 13.53)
Bolivia	324.6 (80.1, 923.2)	2.97 (0.74, 8.48)	95.3 (65.1, 211.2)	0.90 (0.60, 2.09)	420.0 (162.7, 1,007.9)	3.87 (1.51, 9.23)
Bosnia and Herzegovina	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	24.5 (19.8, 46.3)	0.73 (0.57, 1.35)	24.5 (19.8, 46.3)	0.73 (0.57, 1.35)
Botswana	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	8.2 (5.9, 11.3)	0.36 (0.26, 0.49)	8.2 (5.9, 11.3)	0.36 (0.26, 0.49)
Brazil	18,330.2 (6,238.9, 45,335.7)	9.13 (3.12, 22.60)	10,744.5 (1,627.1, 13,098.9)	5.59 (0.80, 6.85)	29,074.6 (13,953.0, 55,442.7)	14.72 (7.11, 27.85)
Brunei	11.7 (1.9, 39.6)	2.80 (0.46, 9.51)	5.6 (4.2, 13.4)	1.29 (0.95, 3.19)	17.2 (6.8, 45.1)	4.09 (1.57, 10.75)
Bulgaria	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	43.6 (36.9, 57.6)	0.75 (0.61, 1.03)	43.6 (36.9, 57.6)	0.75 (0.61, 1.03)
Burkina Faso	925.9 (290.3, 2,309.6)	5.30 (1.68, 13.44)	685.7 (431.5, 1,038.7)	2.65 (1.70, 3.80)	1,611.5 (891.6, 3,053.2)	7.95 (4.13, 16.17)
Burundi	306.3 (75.9, 847.9)	2.92 (0.73, 8.09)	113.6 (83.4, 152.1)	1.13 (0.61, 1.51)	419.9 (184.3, 964.6)	4.05 (1.85, 9.32)
Cambodia	4,027.3 (1,333.1, 9,903.5)	25.92 (8.65, 64.04)	8,114.2 (4,679.6, 10,867.9)	44.16 (25.79, 58.27)	12,141.5 (7,687.7, 18,683.0)	70.07 (44.16, 110.13)
Cameroon	1,776.4 (617.8, 4,322.1)	7.72 (2.67, 18.89)	1,405.6 (809.0, 2,241.4)	4.33 (2.82, 6.46)	3,182.0 (1,798.4, 5,880.7)	12.04 (6.70, 23.33)
Canada	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	162.6 (112.0, 186.0)	0.53 (0.35, 0.62)	162.6 (112.0, 186.0)	0.53 (0.35, 0.62)
Cape Verde	17.8 (4.7, 48.2)	3.47 (0.94, 9.55)	6.3 (3.5, 14.1)	1.15 (0.64, 2.60)	24.0 (10.2, 54.5)	4.63 (1.93, 10.74)
Central African Republic	244.1 (74.4, 641.0)	5.12 (1.57, 13.47)	182.1 (92.5, 289.6)	2.91 (1.63, 4.42)	426.3 (231.5, 838.0)	8.03 (4.24, 16.46)
Chad	511.2 (142.6, 1,430.8)	3.84 (1.09, 10.59)	479.7 (257.0, 768.5)	2.25 (1.45, 3.38)	990.9 (527.7, 1,912.4)	6.09 (3.16, 12.78)
Chile	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	112.3 (82.1, 275.4)	0.67 (0.48, 1.70)	112.3 (82.1, 275.4)	0.67 (0.48, 1.70)
China	10,451.5 (2,782.8, 29,404.5)	0.78 (0.21, 2.20)	6,895.7 (5,653.5, 7,927.7)	0.53 (0.43, 0.59)	17,347.3 (9,634.4, 36,475.9)	1.30 (0.73, 2.72)
Colombia	4,906.6 (1,722.9, 11,910.4)	10.09 (3.53, 24.53)	5,085.9 (1,242.7, 6,719.9)	10.39 (2.53, 13.67)	9,992.5 (5,069.5, 17,253.9)	20.48 (10.38, 35.37)
Comoros	37.6 (11.4, 98.1)	4.96 (1.50, 12.94)	11.2 (5.9, 17.3)	1.74 (0.74, 2.76)	48.8 (21.5, 108.3)	6.70 (3.06, 14.51)
Congo	210.9 (61.1, 554.0)	4.62 (1.35, 12.07)	123.8 (80.7, 189.6)	2.14 (1.43, 3.24)	334.7 (173.7, 662.1)	6.76 (3.41, 13.97)
Costa Rica	448.8 (151.2, 1,076.6)	9.20 (3.09, 22.13)	65.6 (54.1, 124.9)	1.37 (1.12, 2.63)	514.4 (210.7, 1,134.3)	10.56 (4.36, 23.34)
Cote d'Ivoire	3,001.1 (1,071.9, 7,138.7)	14.36 (5.14, 34.39)	1,557.9 (952.2, 2,237.6)	5.72 (3.81, 7.75)	4,559.1 (2,567.0, 8,861.7)	20.08 (10.75, 40.41)
Croatia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	18.3 (13.1, 21.5)	0.50 (0.35, 0.61)	18.3 (13.1, 21.5)	0.50 (0.35, 0.61)
Cuba	2,017.8 (710.5, 4,905.3)	18.31 (6.45, 44.30)	362.5 (282.1, 546.9)	4.01 (3.00, 6.26)	2,380.3 (1,066.9, 5,233.3)	22.31 (10.22, 47.79)
Cyprus	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	4.9 (3.6, 5.7)	0.61 (0.44, 0.71)	4.9 (3.6, 5.7)	0.61 (0.44, 0.71)
Czech Republic	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	44.4 (29.0, 51.2)	0.49 (0.31, 0.59)	44.4 (29.0, 51.2)	0.49 (0.31, 0.59)
Democratic Republic of the Congo	3,405.2 (1,007.7, 8,847.9)	4.86 (1.46, 12.57)	3,288.3 (1,722.9, 5,223.0)	3.16 (1.84, 4.83)	6,693.5 (3,568.3, 11,986.5)	8.02 (4.14, 15.46)
Denmark	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	25.6 (16.9, 29.3)	0.52 (0.33, 0.61)	25.6 (16.9, 29.3)	0.52 (0.33, 0.61)
Djibouti	16.0 (3.0, 49.9)	1.79 (0.34, 5.54)	8.9 (6.1, 13.2)	1.00 (0.65, 1.52)	24.8 (11.4, 57.6)	2.79 (1.29, 6.40)
Dominica	19.4 (6.3, 48.9)	27.43 (8.86, 69.36)	6.9 (4.8, 10.4)	9.96 (6.84, 15.28)	26.3 (12.8, 55.1)	37.39 (18.30, 78.26)
Dominican Republic	2,654.5 (873.5, 6,533.5)	25.19 (8.25, 62.26)	5,421.3 (1,239.2, 7,668.7)	47.74 (11.12, 67.31)	8,075.8 (3,362.0, 12,327.8)	72.92 (31.14, 113.08)
Ecuador	1,583.6 (556.3, 3,845.3)	9.95 (3.50, 24.24)	1,407.3 (933.4, 1,762.9)	8.25 (5.45, 10.28)	2,990.8 (1,904.2, 5,235.0)	18.20 (11.42, 32.30)
Egypt	3,979.2 (1,203.5, 10,242.7)	4.79 (1.45, 12.29)	485.5 (402.2, 752.8)	0.55 (0.46, 0.85)	4,464.7 (1,664.6, 10,663.0)	5.34 (1.98, 12.77)
El Salvador	1,363.1 (470.0, 3,324.9)	20.98 (7.23, 51.35)	219.7 (168.9, 372.6)	3.21 (2.46, 5.47)	1,582.8 (682.7, 3,513.1)	24.19 (10.34, 54.08)

Equatorial Guinea	15.7 (2.6, 54.2)	2.03 (0.34, 6.81)	58.5 (27.4, 114.3)	5.54 (2.92, 10.22)	74.2 (38.0, 139.4)	7.58 (4.14, 14.43)
Eritrea	102.5 (18.6, 331.6)	1.57 (0.29, 5.08)	49.0 (27.5, 74.9)	0.84 (0.37, 1.29)	151.5 (63.0, 374.6)	2.41 (1.03, 5.82)
Estonia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	5.5 (3.1, 6.6)	0.48 (0.25, 0.58)	5.5 (3.1, 6.6)	0.48 (0.25, 0.58)
Ethiopia	2,162.1 (461.6, 6,638.5)	2.21 (0.50, 6.73)	785.1 (539.5, 1,235.6)	0.87 (0.51, 1.39)	2,947.2 (1,173.9, 7,345.8)	3.09 (1.27, 7.51)
Federated States of Micronesia	48.3 (13.8, 130.9)	44.77 (12.70, 121.57)	110.1 (68.2, 193.5)	124.11 (76.85, 197.15)	158.3 (99.8, 263.0)	168.88 (107.64, 270.75)
Fiji	274.3 (87.3, 695.1)	30.95 (9.87, 78.63)	131.4 (74.5, 418.7)	15.12 (8.76, 47.89)	405.7 (184.2, 865.9)	46.07 (21.01, 97.76)
Finland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	24.7 (20.9, 35.7)	0.53 (0.42, 0.68)	24.7 (20.9, 35.7)	0.53 (0.42, 0.68)
France	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	276.5 (178.6, 319.9)	0.50 (0.31, 0.58)	276.5 (178.6, 319.9)	0.50 (0.31, 0.58)
Gabon	143.6 (48.8, 369.8)	8.38 (2.89, 21.29)	86.5 (56.0, 133.4)	4.24 (2.82, 6.34)	230.1 (122.0, 453.5)	12.62 (6.57, 25.60)
Georgia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	23.3 (20.0, 31.6)	0.59 (0.50, 0.80)	23.3 (20.0, 31.6)	0.59 (0.50, 0.80)
Germany	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	365.1 (323.7, 570.0)	0.55 (0.48, 0.87)	365.1 (323.7, 570.0)	0.55 (0.48, 0.87)
Ghana	3,328.6 (1,154.3, 7,978.9)	12.55 (4.40, 29.99)	1,407.6 (903.4, 2,096.9)	4.24 (2.75, 6.24)	4,736.2 (2,490.1, 9,328.8)	16.79 (8.36, 34.07)
Greece	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	56.5 (45.8, 68.6)	0.61 (0.49, 0.74)	56.5 (45.8, 68.6)	0.61 (0.49, 0.74)
Grenada	31.8 (10.3, 81.7)	29.63 (9.65, 76.03)	11.6 (8.6, 15.1)	10.98 (8.13, 14.16)	43.4 (21.6, 92.3)	40.60 (20.14, 86.25)
Guatemala	1,820.6 (631.4, 4,429.9)	11.36 (3.98, 27.36)	1,363.3 (892.8, 1,868.2)	7.02 (4.66, 9.25)	3,183.9 (1,919.1, 5,675.4)	18.38 (10.88, 34.02)
Guinea	759.0 (243.4, 1,930.3)	6.28 (2.04, 15.96)	487.6 (267.2, 726.7)	2.98 (1.69, 4.32)	1,246.6 (686.3, 2,409.0)	9.25 (4.79, 18.82)
Guinea-Bissau	168.3 (59.6, 407.3)	9.60 (3.41, 23.15)	131.1 (64.6, 210.1)	5.54 (3.05, 8.38)	299.4 (165.5, 549.8)	15.14 (8.38, 29.47)
Guyana	103.1 (35.7, 244.1)	12.60 (4.40, 29.94)	207.5 (139.2, 315.3)	24.16 (16.29, 35.66)	310.6 (206.4, 476.1)	36.75 (24.73, 55.96)
Haiti	998.8 (352.6, 2,429.7)	9.45 (3.35, 23.05)	164.9 (116.7, 341.5)	1.42 (1.04, 2.83)	1,163.7 (502.3, 2,580.5)	10.87 (4.66, 24.35)
Honduras	1,663.9 (572.5, 4,035.9)	19.98 (6.92, 48.65)	964.5 (564.1, 1,774.3)	12.34 (7.59, 21.37)	2,628.4 (1,367.7, 5,004.4)	32.32 (17.47, 60.43)
Hungary	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	40.4 (25.3, 46.4)	0.47 (0.28, 0.56)	40.4 (25.3, 46.4)	0.47 (0.28, 0.56)
Iceland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	1.6 (0.9, 2.1)	0.56 (0.31, 0.72)	1.6 (0.9, 2.1)	0.56 (0.31, 0.72)
India	179,728 (63,701, 437,457)	14.18 (5.04, 34.38)	79,929 (62,049, 116,575)	6.42 (5.04, 9.25)	259,657 (141,349, 504,077)	20.60 (11.27, 39.92)
Indonesia	108,254 (31,203, 293,841)	43.16 (12.50, 117.27)	225,399 (86,773, 308,777)	84.74 (32.83, 115.85)	333,653 (166,183, 522,387)	127.90 (64.17, 202.32)
Iran	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	412.0 (325.9, 507.0)	0.51 (0.41, 0.63)	412.0 (325.9, 507.0)	0.51 (0.41, 0.63)
Iraq	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	419.1 (283.6, 555.7)	0.98 (0.71, 1.31)	419.1 (283.6, 555.7)	0.98 (0.71, 1.31)
Ireland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	21.9 (15.3, 26.2)	0.51 (0.36, 0.61)	21.9 (15.3, 26.2)	0.51 (0.36, 0.61)
Israel	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	42.5 (36.4, 69.4)	0.55 (0.47, 0.89)	42.5 (36.4, 69.4)	0.55 (0.47, 0.89)
Italy	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	246.3 (153.4, 285.1)	0.49 (0.30, 0.58)	246.3 (153.4, 285.1)	0.49 (0.30, 0.58)
Jamaica	640.6 (215.5, 1,598.4)	22.76 (7.62, 56.83)	206.8 (137.9, 328.4)	7.32 (4.91, 11.59)	847.4 (411.0, 1,768.1)	30.08 (14.56, 62.83)
Japan	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	511.9 (366.7, 590.9)	0.53 (0.36, 0.62)	511.9 (366.7, 590.9)	0.53 (0.36, 0.62)
Jordan	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	41.5 (31.8, 52.6)	0.51 (0.39, 0.64)	41.5 (31.8, 52.6)	0.51 (0.39, 0.64)
Kazakhstan	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	319.7 (243.4, 492.6)	1.85 (1.42, 2.83)	319.7 (243.4, 492.6)	1.85 (1.42, 2.83)
Kenya	445.5 (56.1, 1,650.8)	0.99 (0.13, 3.62)	245.4 (161.4, 542.0)	0.46 (0.31, 1.00)	690.9 (261.3, 1,832.9)	1.44 (0.52, 3.96)
Kiribati	12.8 (4.6, 31.5)	12.28 (4.49, 30.17)	296.0 (156.7, 423.9)	329.91 (166.37, 451.30)	308.8 (170.6, 438.2)	342.19 (179.62, 464.58)
Kuwait	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	21.6 (18.4, 34.0)	0.60 (0.51, 0.97)	21.6 (18.4, 34.0)	0.60 (0.51, 0.97)
Kyrgyzstan	69.0 (10.4, 238.1)	1.24 (0.19, 4.29)	30.6 (24.7, 39.4)	0.50 (0.40, 0.64)	99.6 (40.1, 265.5)	1.74 (0.68, 4.74)
Laos	964.7 (343.7, 2,316.4)	13.89 (4.97, 33.08)	2,674.2 (1,268.5, 4,338.5)	30.28 (15.10, 48.79)	3,638.9 (2,023.9, 5,760.8)	44.17 (25.41, 70.14)
Latvia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	9.3 (5.8, 10.9)	0.57 (0.33, 0.68)	9.3 (5.8, 10.9)	0.57 (0.33, 0.68)
Lebanon	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	26.5 (19.1, 33.5)	0.55 (0.41, 0.71)	26.5 (19.1, 33.5)	0.55 (0.41, 0.71)
Lesotho	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	14.3 (10.5, 20.6)	0.64 (0.46, 0.87)	14.3 (10.5, 20.6)	0.64 (0.46, 0.87)
Liberia	448.5 (156.3, 1,070.4)	10.13 (3.53, 23.94)	175.0 (89.7, 287.5)	3.14 (1.65, 5.77)	623.5 (315.0, 1,255.7)	13.27 (6.48, 27.13)
Libya	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	40.0 (33.0, 56.6)	0.61 (0.50, 0.86)	40.0 (33.0, 56.6)	0.61 (0.50, 0.86)
Lithuania	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	12.4 (8.4, 14.7)	0.50 (0.31, 0.61)	12.4 (8.4, 14.7)	0.50 (0.31, 0.61)
Luxembourg	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	2.8 (1.8, 3.3)	0.59 (0.36, 0.71)	2.8 (1.8, 3.3)	0.59 (0.36, 0.71)
Macedonia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	11.0 (8.1, 13.3)	0.57 (0.40, 0.73)	11.0 (8.1, 13.3)	0.57 (0.40, 0.73)
Madagascar	609.3 (143.9, 1,840.7)	2.58 (0.61, 7.77)	172.0 (89.0, 287.0)	0.81 (0.34, 1.42)	781.3 (304.9, 2,000.6)	3.39 (1.37, 8.46)
Malawi	670.4 (184.5, 1,824.9)	3.95 (1.10, 10.69)	222.1 (162.5, 373.0)	1.29 (0.95, 1.64)	892.5 (400.1, 2,033.0)	5.24 (2.40, 11.96)
Malaysia	10,500.0 (3,219.2, 27,511.9)	35.02 (10.82, 91.95)	8,242.8 (6,473.0, 10,118.4)	27.36 (21.36, 33.58)	18,742.9 (11,410.7, 35,610.9)	62.38 (37.93, 118.74)
Maldives	37.2 (13.0, 89.2)	10.65 (3.72, 25.52)	133.5 (74.5, 178.5)	36.33 (20.81, 48.26)	170.7 (105.9, 235.8)	46.98 (29.54, 65.26)
Mali	697.7 (194.8, 1,864.3)	4.43 (1.23, 11.94)	618.4 (307.4, 957.8)	2.48 (1.56, 3.57)	1,316.2 (717.3, 2,462.2)	6.91 (3.57, 14.35)
Malta	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	2.0 (1.4, 2.3)	0.53 (0.38, 0.64)	2.0 (1.4, 2.3)	0.53 (0.38, 0.64)
Marshall Islands	17.2 (5.8, 42.4)	24.60 (8.30, 61.24)	70.4 (47.6, 120.1)	107.79 (78.30, 161.03)	87.5 (59.8, 139.7)	132.39 (94.67, 192.91)
Mauritania	93.6 (21.4, 280.2)	2.35 (0.54, 7.07)	56.2 (34.7, 88.1)	1.13 (0.71, 1.91)	149.8 (70.7, 333.4)	3.48 (1.56, 8.06)
Mauritius	314.7 (105.7, 773.0)	25.53 (8.64, 62.70)	77.6 (62.4, 115.2)	6.85 (5.36, 10.06)	392.3 (182.1, 849.2)	32.38 (15.29, 69.57)

Mexico	6,445.0 (2,081.9, 16,361.6)	5.21 (1.68, 13.26)	2,157.3 (1,338.6, 2,358.2)	1.81 (1.11, 1.98)	8,602.3 (4,275.6, 18,598.8)	7.02 (3.53, 15.13)
Moldova	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	16.3 (11.9, 18.9)	0.51 (0.37, 0.60)	16.3 (11.9, 18.9)	0.51 (0.37, 0.60)
Mongolia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	24.6 (19.2, 50.2)	0.80 (0.63, 1.60)	24.6 (19.2, 50.2)	0.80 (0.63, 1.60)
Montenegro	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	2.9 (2.2, 3.8)	0.50 (0.38, 0.67)	2.9 (2.2, 3.8)	0.50 (0.38, 0.67)
Morocco	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	195.8 (158.5, 270.0)	0.56 (0.45, 0.77)	195.8 (158.5, 270.0)	0.56 (0.45, 0.77)
Mozambique	916.5 (234.8, 2,449.4)	3.41 (0.88, 9.16)	295.7 (198.1, 394.2)	1.25 (0.68, 1.69)	1,212.2 (540.8, 2,750.8)	4.66 (2.07, 10.46)
Myanmar	5,667.4 (1,980.9, 13,877.0)	10.59 (3.72, 25.93)	10,962.6 (5,209.4, 16,698.0)	20.96 (10.02, 31.99)	16,630.0 (9,403.6, 26,230.9)	31.55 (17.85, 49.70)
Namibia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	11.6 (9.1, 16.2)	0.49 (0.39, 0.65)	11.6 (9.1, 16.2)	0.49 (0.39, 0.65)
Nepal	2,195.9 (754.2, 5,454.0)	7.66 (2.62, 18.91)	925.1 (614.5, 1,684.2)	3.56 (2.41, 6.25)	3,121.0 (1,540.4, 6,393.8)	11.22 (5.79, 22.61)
Netherlands	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	77.3 (52.1, 87.9)	0.52 (0.34, 0.61)	77.3 (52.1, 87.9)	0.52 (0.34, 0.61)
New Zealand	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	20.9 (13.9, 24.2)	0.51 (0.33, 0.60)	20.9 (13.9, 24.2)	0.51 (0.33, 0.60)
Nicaragua	1,163.1 (407.5, 2,831.3)	18.58 (6.57, 45.14)	705.3 (531.7, 859.4)	10.52 (8.02, 12.77)	1,868.4 (1,090.0, 3,486.4)	29.10 (16.70, 55.16)
Niger	737.5 (205.5, 1,972.2)	4.04 (1.13, 10.86)	619.9 (359.0, 985.5)	2.09 (1.34, 3.15)	1,357.5 (750.1, 2,641.8)	6.13 (3.05, 13.14)
Nigeria	21,991.1 (7,740.9, 51,690.1)	12.33 (4.43, 28.88)	12,560.9 (6,974.4, 20,382.6)	4.72 (2.88, 7.15)	34,552.0 (17,773.1, 66,657.0)	17.06 (8.48, 35.00)
North Korea	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	215.8 (143.9, 303.7)	0.88 (0.58, 1.22)	215.8 (143.9, 303.7)	0.88 (0.58, 1.22)
Norway	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	24.2 (16.3, 27.3)	0.53 (0.35, 0.60)	24.2 (16.3, 27.3)	0.53 (0.35, 0.60)
Oman	20.1 (3.2, 68.6)	0.56 (0.09, 1.90)	25.6 (19.8, 35.9)	0.72 (0.56, 1.07)	45.7 (26.6, 95.0)	1.28 (0.75, 2.63)
Pakistan	13,570.1 (4,419.4, 32,775.0)	7.26 (2.37, 17.64)	9,498.7 (7,187.6, 16,994.8)	5.04 (3.84, 8.26)	23,068.8 (13,200.2, 42,665.9)	12.30 (7.16, 22.84)
Palestine	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	27.6 (21.9, 35.9)	0.57 (0.45, 0.75)	27.6 (21.9, 35.9)	0.57 (0.45, 0.75)
Panama	659.1 (235.2, 1,623.2)	16.95 (6.03, 41.69)	204.6 (164.5, 338.0)	5.22 (4.22, 8.43)	863.7 (426.6, 1,819.9)	22.17 (10.98, 46.73)
Papua New Guinea	637.7 (220.1, 1,543.4)	8.50 (2.95, 20.49)	2,277.3 (1,329.9, 5,026.9)	30.20 (19.37, 62.68)	2,915.0 (1,827.5, 5,881.5)	38.69 (26.10, 73.38)
Paraguay	1,079.8 (377.5, 2,623.6)	15.55 (5.42, 37.73)	654.1 (255.0, 808.0)	12.35 (4.12, 15.52)	1,733.9 (972.1, 3,276.6)	27.90 (15.23, 50.73)
Peru	2,103.8 (697.3, 5,122.7)	6.83 (2.27, 16.66)	1,178.0 (784.1, 2,195.9)	3.65 (2.45, 6.74)	3,281.8 (1,659.3, 6,451.9)	10.48 (5.29, 20.89)
Philippines	37,893 (11,544, 100,244)	37.68 (11.52, 99.53)	92,036 (34,144, 124,524)	73.99 (27.52, 99.50)	129,929 (68,567, 197,634)	111.67 (60.53, 177.13)
Poland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	184.7 (156.2, 309.2)	0.55 (0.45, 0.97)	184.7 (156.2, 309.2)	0.55 (0.45, 0.97)
Portugal	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	42.4 (30.5, 48.7)	0.47 (0.32, 0.54)	42.4 (30.5, 48.7)	0.47 (0.32, 0.54)
Qatar	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	12.4 (9.3, 15.0)	0.60 (0.47, 0.72)	12.4 (9.3, 15.0)	0.60 (0.47, 0.72)
Romania	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	120.9 (83.5, 339.7)	0.71 (0.44, 2.29)	120.9 (83.5, 339.7)	0.71 (0.44, 2.29)
Russia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	734.9 (591.9, 1,024.0)	0.57 (0.45, 0.76)	734.9 (591.9, 1,024.0)	0.57 (0.45, 0.76)
Rwanda	269.8 (56.3, 807.6)	2.21 (0.47, 6.66)	92.7 (68.2, 131.3)	0.81 (0.48, 1.13)	362.4 (146.5, 885.7)	3.02 (1.24, 7.35)
Saint Lucia	52.7 (16.8, 136.0)	28.86 (9.25, 74.66)	17.0 (12.0, 24.4)	9.52 (6.57, 13.78)	69.7 (33.3, 150.5)	38.38 (18.39, 82.67)
Saint Vincent and the Grenadines	21.0 (7.2, 50.0)	19.03 (6.57, 45.47)	12.6 (9.1, 19.1)	11.57 (8.31, 17.71)	33.5 (19.3, 63.3)	30.61 (17.69, 57.65)
Samoa	18.0 (6.3, 43.0)	9.24 (3.18, 22.20)	48.3 (26.9, 101.2)	29.47 (18.05, 55.79)	66.4 (38.8, 122.9)	38.71 (24.57, 66.79)
Sao Tome and Principe	18.9 (6.6, 46.5)	9.54 (3.36, 23.76)	6.3 (2.9, 11.4)	2.59 (1.19, 5.06)	25.2 (12.1, 52.9)	12.13 (5.63, 26.27)
Saudi Arabia	105.6 (14.7, 377.4)	0.37 (0.05, 1.32)	271.9 (202.6, 324.4)	0.89 (0.66, 1.07)	377.4 (262.5, 650.2)	1.26 (0.87, 2.20)
Senegal	1,151.6 (388.6, 2,826.7)	7.92 (2.70, 19.55)	521.7 (337.1, 819.2)	2.80 (1.84, 4.81)	1,673.3 (876.9, 3,355.4)	10.72 (5.29, 22.35)
Serbia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	43.9 (33.6, 51.6)	0.52 (0.39, 0.63)	43.9 (33.6, 51.6)	0.52 (0.39, 0.63)
Seychelles	13.6 (4.8, 32.7)	14.76 (5.24, 35.53)	16.1 (11.7, 23.3)	18.51 (13.40, 27.12)	29.7 (19.1, 49.3)	33.27 (21.64, 54.18)
Sierra Leone	698.1 (246.1, 1,702.0)	11.07 (3.99, 27.18)	474.7 (250.0, 743.0)	5.47 (3.25, 8.00)	1,172.7 (665.5, 2,190.5)	16.55 (9.14, 32.52)
Singapore	145.3 (22.6, 498.2)	3.83 (0.60, 13.09)	37.2 (30.1, 52.6)	1.05 (0.84, 1.49)	182.5 (60.5, 533.8)	4.88 (1.68, 14.08)
Slovakia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	25.0 (18.7, 31.2)	0.51 (0.38, 0.67)	25.0 (18.7, 31.2)	0.51 (0.38, 0.67)
Slovenia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	8.8 (5.5, 11.0)	0.50 (0.30, 0.66)	8.8 (5.5, 11.0)	0.50 (0.30, 0.66)
Solomon Islands	78.5 (27.8, 189.5)	13.57 (4.86, 32.53)	295.1 (174.1, 529.0)	61.26 (37.64, 98.01)	373.6 (232.2, 621.2)	74.83 (47.78, 115.39)
Somalia	252.4 (55.9, 759.6)	2.32 (0.52, 6.95)	102.9 (69.2, 175.0)	0.97 (0.58, 1.59)	355.3 (151.7, 866.1)	3.29 (1.39, 8.02)
South Africa	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	242.9 (188.2, 385.8)	0.43 (0.34, 0.68)	242.9 (188.2, 385.8)	0.43 (0.34, 0.68)
South Korea	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	222.5 (162.8, 262.9)	0.51 (0.36, 0.59)	222.5 (162.8, 262.9)	0.51 (0.36, 0.59)
South Sudan	210.9 (41.3, 665.3)	1.81 (0.36, 5.62)	107.8 (78.9, 153.8)	0.96 (0.67, 1.21)	318.7 (137.4, 770.5)	2.77 (1.24, 6.62)
Spain	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	206.0 (134.6, 234.2)	0.51 (0.32, 0.58)	206.0 (134.6, 234.2)	0.51 (0.32, 0.58)
Sri Lanka	6,675.8 (2,121.3, 17,162.1)	31.59 (10.07, 81.37)	6,422.7 (2,757.3, 8,529.1)	30.58 (13.15, 40.61)	13,098.4 (7,732.5, 23,352.0)	62.17 (36.74, 110.72)
Sudan	1,765.4 (534.7, 4,555.6)	4.48 (1.37, 11.57)	805.9 (526.1, 1,130.9)	1.72 (1.16, 2.39)	2,571.4 (1,285.0, 5,332.2)	6.21 (2.99, 13.35)
Suriname	135.2 (45.1, 335.6)	24.93 (8.32, 61.96)	97.2 (65.6, 122.2)	17.96 (12.03, 22.59)	232.4 (139.5, 435.0)	42.89 (25.77, 80.40)
Swaziland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	8.9 (6.3, 13.5)	0.66 (0.45, 0.93)	8.9 (6.3, 13.5)	0.66 (0.45, 0.93)
Sweden	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	42.4 (28.1, 49.3)	0.51 (0.33, 0.60)	42.4 (28.1, 49.3)	0.51 (0.33, 0.60)
Switzerland	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	32.2 (20.1, 37.0)	0.47 (0.29, 0.54)	32.2 (20.1, 37.0)	0.47 (0.29, 0.54)

Syria	478.8 (103.7, 1,441.8)	2.13 (0.46, 6.49)	178.8 (120.2, 291.2)	0.83 (0.56, 1.27)	657.6 (274.7, 1,648.4)	2.96 (1.27, 7.33)
Taiwan	1,749.6 (577.2, 4,386.6)	7.63 (2.53, 19.11)	172.8 (147.1, 224.1)	0.83 (0.70, 1.10)	1,922.3 (748.3, 4,560.9)	8.46 (3.33, 19.98)
Tajikistan	219.8 (52.0, 638.4)	2.62 (0.62, 7.69)	92.8 (72.9, 130.0)	0.88 (0.70, 1.21)	312.6 (142.2, 722.3)	3.51 (1.50, 8.43)
Tanzania	1,742.3 (489.2, 4,862.0)	3.44 (0.95, 9.71)	742.5 (513.3, 1,013.9)	1.21 (0.83, 1.53)	2,484.8 (1,200.5, 5,599.8)	4.65 (2.14, 10.89)
Thailand	16,313.9 (5,399.0, 40,378.9)	24.82 (8.23, 61.19)	11,292.0 (8,747.7, 19,652.1)	22.29 (16.97, 39.60)	27,605.9 (15,800.4, 51,123.6)	47.10 (28.61, 82.69)
The Bahamas	19.8 (2.9, 71.5)	5.29 (0.77, 19.04)	37.2 (27.2, 50.8)	9.99 (7.22, 13.93)	56.9 (35.6, 108.9)	15.28 (9.56, 29.42)
The Gambia	211.9 (74.0, 511.3)	11.09 (3.92, 26.98)	85.8 (49.4, 131.2)	3.32 (1.89, 5.45)	297.7 (152.0, 596.0)	14.42 (6.80, 30.22)
Timor-Leste	96.9 (32.7, 235.3)	8.17 (2.84, 19.88)	315.9 (203.5, 444.7)	16.91 (11.32, 23.28)	412.8 (282.1, 582.2)	25.08 (16.95, 37.74)
Togo	601.9 (207.7, 1,475.5)	8.60 (2.99, 20.80)	326.9 (194.4, 518.0)	3.43 (2.09, 5.13)	928.9 (502.8, 1,775.3)	12.03 (6.07, 24.24)
Tonga	25.3 (8.6, 62.1)	23.42 (7.90, 57.59)	153.9 (69.3, 243.0)	142.28 (62.06, 204.09)	179.2 (94.2, 274.9)	165.70 (84.85, 241.00)
Trinidad and Tobago	85.6 (11.6, 305.9)	6.47 (0.88, 23.08)	145.0 (107.3, 200.0)	11.15 (8.03, 16.05)	230.6 (144.1, 449.2)	17.61 (10.86, 33.96)
Tunisia	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	55.8 (44.2, 73.8)	0.50 (0.40, 0.66)	55.8 (44.2, 73.8)	0.50 (0.40, 0.66)
Turkey	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	449.4 (371.8, 611.4)	0.59 (0.48, 0.79)	449.4 (371.8, 611.4)	0.59 (0.48, 0.79)
Turkmenistan	205.4 (54.5, 570.2)	3.87 (1.03, 10.77)	225.9 (145.6, 312.4)	3.89 (2.48, 5.36)	431.3 (263.3, 795.5)	7.75 (4.67, 14.58)
Uganda	2,151.8 (645.5, 5,319.5)	5.49 (1.69, 13.82)	632.6 (500.7, 944.1)	1.71 (1.23, 2.10)	2,784.4 (1,240.8, 5,959.1)	7.20 (3.34, 15.67)
Ukraine	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	207.0 (155.3, 244.7)	0.52 (0.38, 0.62)	207.0 (155.3, 244.7)	0.52 (0.38, 0.62)
United Arab Emirates	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	66.1 (48.2, 99.8)	0.62 (0.46, 0.89)	66.1 (48.2, 99.8)	0.62 (0.46, 0.89)
United Kingdom	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	272.4 (186.1, 302.9)	0.49 (0.33, 0.55)	272.4 (186.1, 302.9)	0.49 (0.33, 0.55)
United States	522.0 (51.8, 2,005.3)	0.17 (0.02, 0.64)	1,505.6 (1,104.3, 1,761.2)	0.52 (0.38, 0.62)	2,027.6 (1,407.7, 3,489.9)	0.69 (0.48, 1.15)
Uruguay	0.0 (0.0, 0.0)	0.00 (0.00, 0.00)	25.8 (17.2, 70.5)	0.82 (0.53, 2.26)	25.8 (17.2, 70.5)	0.82 (0.53, 2.26)
Uzbekistan	415.7 (74.5, 1,319.6)	1.42 (0.26, 4.56)	172.8 (139.8, 266.3)	0.55 (0.45, 0.84)	588.5 (235.4, 1,487.7)	1.97 (0.77, 5.09)
Vanuatu	24.8 (8.6, 60.6)	9.64 (3.36, 23.56)	112.1 (70.7, 189.5)	47.77 (31.69, 79.61)	136.9 (90.7, 220.7)	57.41 (39.67, 88.51)
Venezuela	4,809.4 (1,684.7, 11,645.6)	15.68 (5.50, 38.11)	2,528.7 (1,805.5, 3,011.7)	8.07 (5.77, 9.57)	7,338.1 (4,225.1, 14,023.8)	23.75 (13.63, 45.60)
Vietnam	21,876.6 (7,514.5, 54,110.9)	23.90 (8.20, 59.02)	18,007.8 (9,373.5, 27,202.0)	21.38 (10.89, 32.21)	39,884.4 (22,570.5, 73,759.7)	45.27 (26.02, 82.35)
Yemen	1,049.4 (305.1, 2,885.0)	4.13 (1.21, 11.29)	440.3 (251.8, 690.0)	1.55 (0.88, 2.50)	1,489.7 (705.0, 3,326.2)	5.68 (2.62, 13.02)
Zambia	401.5 (96.7, 1,156.0)	2.66 (0.62, 7.76)	141.0 (104.9, 222.5)	1.00 (0.72, 1.24)	542.5 (231.9, 1,297.6)	3.66 (1.62, 8.50)
Zimbabwe	413.2 (101.5, 1,197.2)	2.80 (0.70, 7.99)	90.7 (59.7, 216.0)	0.54 (0.36, 1.26)	503.9 (184.2, 1,276.2)	3.34 (1.20, 8.46)

Years of Dengue Mortality Data

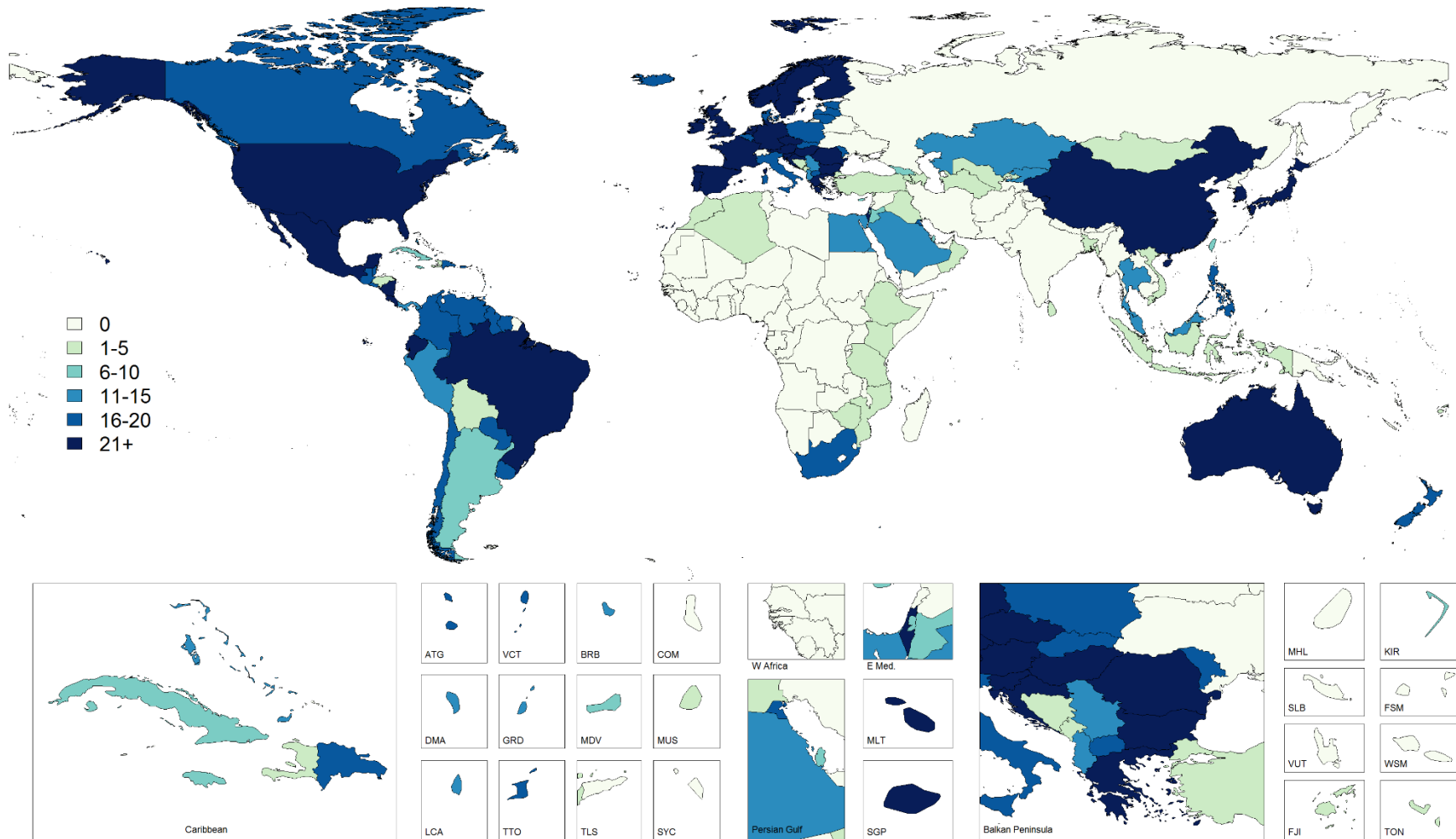


Figure S3: The number of years of dengue mortality data, by country

Years of Case Notification Data

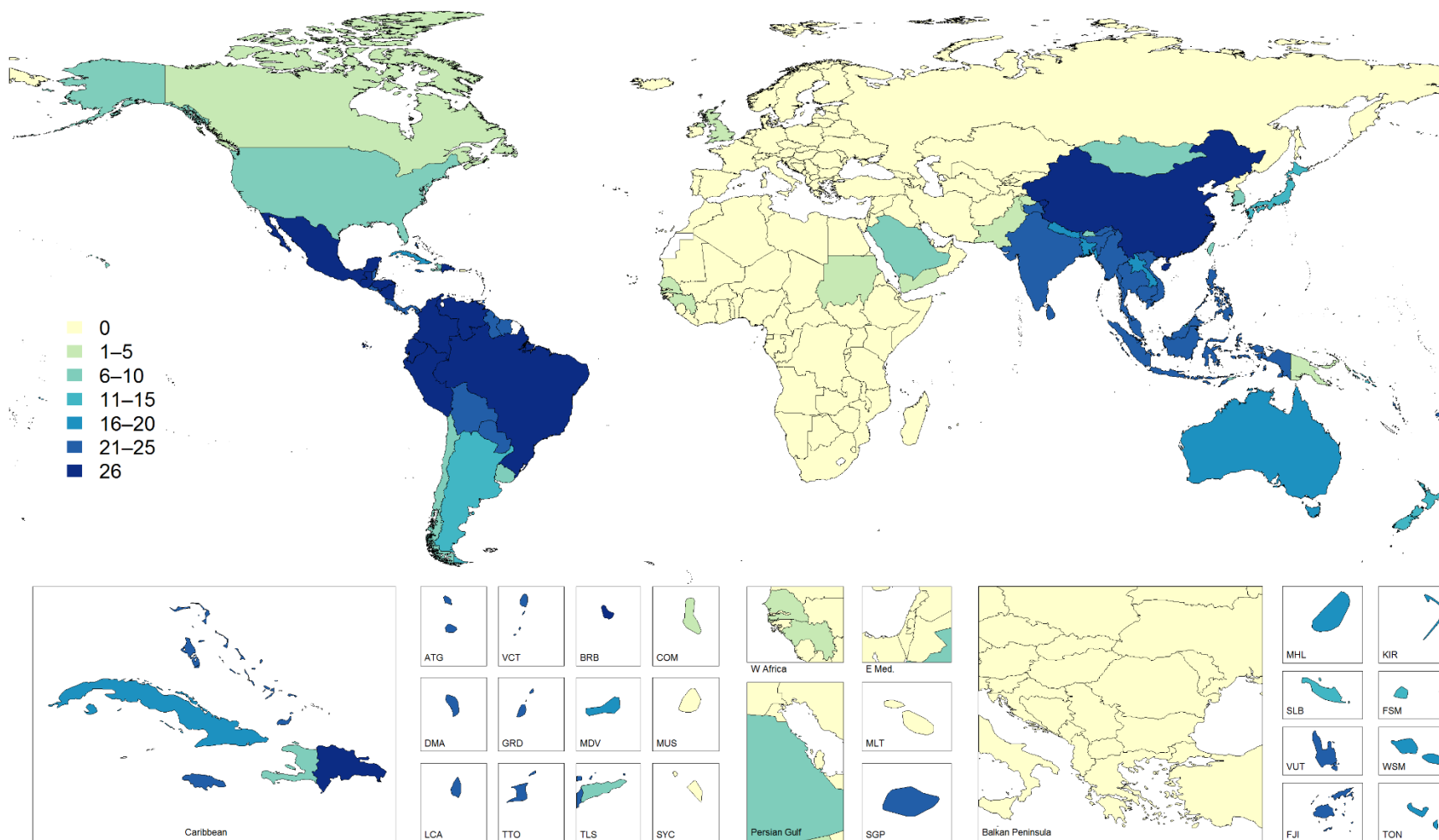


Figure S4: The number of years of dengue case notification data, by country

Antigua and Barbuda

Pan American Health Organization (PAHO). Number of Reported Cases of Dengue and Severe Dengue (DS) in the Americas, by Country 2008. Pan American Health Organization (PAHO).

Pan American Health Organization (PAHO). Number of Reported Cases of Dengue and Severe Dengue (DS) in the Americas, by Country 2009. Pan American Health Organization (PAHO).

Pan American Health Organization (PAHO). Number of Reported Cases of Dengue and Severe Dengue (DS) in the Americas, by Country 2010. Pan American Health Organization (PAHO).

Pan American Health Organization (PAHO). Number of Reported Cases of Dengue and Severe Dengue (DS) in the Americas, by Country 2011. Pan American Health Organization (PAHO).

Pan American Health Organization (PAHO). Number of Reported Cases of Dengue and Severe Dengue (DS) in the Americas, by Country 2012. Pan American Health Organization (PAHO).

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Appendix E: Changes in mortality estimates from GBD 2010

Globally, GBD 2013 estimates of dengue mortality were lower than they were for GBD 2010. Most of the reduction comes from changes in non-endemic regions (e.g. Western Europe) and in regions of marginal endemicity (e.g. East Asia). Estimates have increased for several hyper-endemic regions, including Andean Latin America, Oceania, South and Southeast Asia, and Tropical Latin America (Table S5).

Table S5: Change in the estimates of the absolute number of dengue deaths between GBD 2010 and GBD 2013, by region and year. Positive numbers indicate that dengue mortality estimates for a given year and region were higher for GBD 2013 than GBD 2010, and negative numbers indicate that our GBD 2013 estimates were lower.

Region	1990	1995	2000	2005	2010	All years
Andean Latin America	31	13	6	1	-4	47
Australasia	-31	-31	-30	-31	-33	-155
Caribbean	-172	-155	-163	-174	-163	-828
Central Asia	-90	-106	-96	-91	-91	-474
Central Europe	-124	-168	-177	-177	-182	-828
Central Latin America	8	-15	15	-98	10	-79
Central Sub-Saharan Africa	-82	-96	-94	-106	-141	-519
East Asia	-832	-886	-1021	-984	-947	-4671
Eastern Europe	-200	-232	-203	-201	-190	-1025
Eastern Sub-Saharan Africa	-423	-432	-384	-376	-389	-2004
High-income Asia Pacific	-139	-149	-159	-169	-187	-804
High-income North America	18	19	19	18	16	90
North Africa and Middle East	-879	-806	-631	-647	-704	-3667
Oceania	49	57	61	47	45	260
South Asia	71	106	149	525	359	1210
Southeast Asia	1693	986	451	1184	-53	4263
Southern Latin America	5	-1	-9	-15	-17	-37
Southern Sub-Saharan Africa	-10	-17	-27	-33	-31	-118
Tropical Latin America	0	1	-3	37	111	146
Western Europe	-1093	-1172	-1214	-1231	-1278	-5989
Western Sub-Saharan Africa	-403	-432	-380	-342	-395	-1953
All regions	-2602	-3517	-3891	-2863	-4265	-17137

To look at this another way, we have informally categorized countries by dengue endemicity, based on the population-weighted probability of dengue transmission (derived from Bhatt et al²). Here we developed four categories: non-endemic (dengue probability = 0), low-endemic (lower 50th percentile of dengue probability or dengue probability between 0 and 45.5%), high-endemic (upper 50th percentile of dengue probability or dengue probability greater than 45.5%), and China. We report China separately 1) because it was the country with the greatest absolute change in dengue mortality estimates between GBD 2010 and GBD 2013, and 2) because it is the country for which we acquired the largest amount of new mortality data for GBD 2013. GBD 2013 estimates for high-endemic countries are higher for all years than were those for GBD 2010, and those for other categories are lower. Most of the decline in global estimates comes from declines in China and non-endemic countries (Table S6).

Table S6: Change in estimated number of dengue deaths between GBD 2010 and GBD 2013, by category of endemicity and year. Positive numbers indicate that dengue mortality estimates for a given year and category were higher for GBD 2013 than GBD 2010, and negative numbers indicate that our GBD 2013 estimates were lower.

Category	1990	1995	2000	2005	2010	All years
Non-endemic	-2216	-2320	-2247	-2296	-2396	-11474
Low-endemic	-1093	-1221	-1081	-987	-2353	-6736
High-endemic	1508	869	403	1339	1357	5476
China	-801	-845	-966	-919	-872	-4403
Total	-2602	-3517	-3891	-2863	-4265	-17137

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