**Supplementary materials**

**Figure S1: Monthly Global dengue cases by hemisphere (Northern as red, Southern as green, and total as blue) for 2024. Data were collected from the WHO’s global dengue surveillance system (**[**https://worldhealthorg.shinyapps.io/dengue\_global/**](https://worldhealthorg.shinyapps.io/dengue_global/) **)**

A graph of dengue cases

AI-generated content may be incorrect.

**Table S2: Worldwide dengue cases and deaths in 2024**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **WHO Region** | **Continents** | **Cases** | **Deaths** | **Cases/M** | **Deaths/M** | **CFR (%)** |
| Afghanistan | Eastern Mediterranean Region | Asia | 4722 | 2 | 117.76 | 0.05 | 0.04 |
| Angola | African Region | Africa | 86 | 1 | 2.49 | 0.03 | 1.16 |
| Anguilla | Region of the Americas | North America | 5 | 0 | 317.40 | 0 |  |
| Antigua | Region of the Americas | North America | 169 | 0 | 1812.94 | 0 |  |
| Argentina | Region of the Americas | South America | 581559 | 408 | 12844.53 | 9.01 | 0.07 |
| Aruba | Region of the Americas | South America | 88 | 0 | 826.00 | 0 |  |
| Australia | Western Pacific Region | Oceania | 2358 | 0 | 90.97 | 0 |  |
| Bangladesh | South-East Asia Region | Asia | 101214 | 557 | 597.64 | 3.29 | 0.55 |
| Barbados | Region of the Americas | North America | 1133 | 0 | 4029.16 | 0 |  |
| Belize | Region of the Americas | North America | 1148 | 0 | 2869.78 | 0 |  |
| Benin | African Region | Africa | 41 | 1 | 3.15 | 0.08 | 2.44 |
| Bermuda | Region of the Americas | North America | 3 | 0 | 46.74 | 0 |  |
| Bolivia | Region of the Americas | South America | 50439 | 29 | 4175.60 | 2.40 | 0.06 |
| Bonaire, Saint Eustatius and Saba | Region of the Americas | North America | 207 | 0 | 7751.07 | 0 |  |
| Brazil | Region of the Americas | South America | 10239883 | 6161 | 47777.09 | 28.75 | 0.06 |
| British Virgin Islands | Region of the Americas | North America | 139 | 0 | 4466.29 | 0 |  |
| Burkina Faso | African Region | Africa | 73808 | 94 | 3339.63 | 4.25 | 0.13 |
| Cambodia | Western Pacific Region | Asia | 18983 | 46 | 1144.31 | 2.77 | 0.24 |
| Cameroon | African Region | Africa | 57 | 0 | 2.10 | 0 |  |
| Cape Verde | African Region | Africa | 25290 | 1 | 43015.69 | 1.70 | 0.00 |
| Cayman Islands | Region of the Americas | North America | 9 | 0 | 132.09 | 0 |  |
| Central African Republic | African Region | Africa | 207 | 0 | 37.93 | 0 |  |
| Chile | Region of the Americas | South America | 157 | 0 | 8.05 | 0 |  |
| China | Western Pacific Region | Asia | 24330 | 0 | 17.06 | 0 |  |
| Colombia | Region of the Americas | South America | 320982 | 229 | 6230.66 | 4.45 | 0.07 |
| Costa Rica | Region of the Americas | North America | 31259 | 7 | 6065.05 | 1.36 | 0.02 |
| Cuba | Region of the Americas | North America | 985 | 0 | 87.51 | 0 |  |
| Curacao | Region of the Americas | South America | 262 | 0 | 1376.50 | 0 |  |
| Dominican Republic | Region of the Americas | North America | 10251 | 12 | 922.03 | 1.08 | 0.12 |
| Ecuador | Region of the Americas | South America | 61329 | 74 | 3445.89 | 4.16 | 0.12 |
| El Salvador | Region of the Americas | North America | 8552 | 9 | 1354.42 | 1.43 | 0.11 |
| Eritrea | African Region | Africa | 14679 | 0 | 4054.62 | 0 |  |
| Ethiopia | African Region | Africa | 4016 | 0 | 33.39 | 0 |  |
| Fiji | Western Pacific Region | Oceania | 6238 | 0 | 6746.63 | 0 |  |
| France | European Region | Europe | 85 | 0 | 1.32 | 0 |  |
| French Guiana | Region of the Americas | South America | 16141 | 8 | 54264.76 | 26.90 | 0.05 |
| French Polynesia | Western Pacific Region | Oceania | 147 | 0 | 483.50 | 0 |  |
| Ghana | African Region | Africa | 1163 | 0 | 35.42 | 0 |  |
| Grenada | Region of the Americas | North America | 798 | 0 | 6403.98 | 0 |  |
| Guadeloupe | Region of the Americas | North America | 11025 | 0 | 27837.32 | 0 |  |
| Guatemala | Region of the Americas | North America | 188585 | 188 | 10709.89 | 10.68 | 0.10 |
| Guinea | African Region | Africa | 2 | 0 | 0.15 | 0 |  |
| Guyana | Region of the Americas | South America | 44028 | 8 | 54722.60 | 9.94 | 0.02 |
| Honduras | Region of the Americas | North America | 177209 | 160 | 17241.01 | 15.57 | 0.09 |
| India | South-East Asia Region | Asia | 215066 | 182 | 152.79 | 0.13 | 0.08 |
| Italy | European Region | Europe | 213 | 0 | 3.60 | 0 |  |
| Ivory Coast | African Region | Africa | 6134 | 5 | 223.23 | 0.18 | 0.08 |
| Jamaica | Region of the Americas | North America | 2034 | 1 | 719.31 | 0.35 | 0.05 |
| Kenya | African Region | Africa | 4443 | 0 | 83.82 | 0 |  |
| Laos | Western Pacific Region | Asia | 19486 | 11 | 2624.36 | 1.48 | 0.06 |
| Liberia | African Region | Africa | 45 | 0 | 8.66 | 0 |  |
| Malaysia | Western Pacific Region | Asia | 122423 | 67 | 3646.38 | 2.00 | 0.05 |
| Maldives | South-East Asia Region | Asia | 3294 | 2 | 6316.92 | 3.84 | 0.06 |
| Mali | African Region | Africa | 9556 | 12 | 436.25 | 0.55 | 0.13 |
| Martinique | Region of the Americas | North America | 7371 | 0 | 19986.66 | 0 |  |
| Mauritania | African Region | Africa | 3640 | 0 | 788.74 | 0 |  |
| Mauritius | African Region | Africa | 9917 | 5 | 7634.84 | 3.85 | 0.05 |
| Mayotte | European Region | Africa | 64 | 0 | 202.53 | 0 |  |
| Mexico | Region of the Americas | North America | 558846 | 478 | 4410.60 | 3.77 | 0.09 |
| Micronesia | Western Pacific Region | Oceania | 43 | 0 | 380.09 | 0 |  |
| Montserrat | Region of the Americas | North America | 3 | 0 | 679.19 | 0 |  |
| Myanmar | South-East Asia Region | Asia | 6388 | 13 | 118.74 | 0.24 | 0.20 |
| Nepal | South-East Asia Region | Asia | 41865 | 15 | 1393.87 | 0.50 | 0.04 |
| New Caledonia | Western Pacific Region | Oceania | 16 | 0 | 55.59 | 0 |  |
| Nicaragua | Region of the Americas | North America | 92022 | 1 | 13432.81 | 0.15 | 0.00 |
| Niger | African Region | Africa | 58 | 12 | 2.30 | 0.48 | 20.69 |
| Northern Mariana Islands | Western Pacific Region | Oceania | 1 | 0 | 20.21 | 0 |  |
| Pakistan | Eastern Mediterranean Region | Asia | 58670 | 0 | 253.54 | 0 |  |
| Palau | Western Pacific Region | Oceania | 4 | 0 | 221.93 | 0 |  |
| Panama | Region of the Americas | North America | 37231 | 52 | 8556.34 | 11.95 | 0.14 |
| Paraguay | Region of the Americas | South America | 295785 | 129 | 44122.00 | 19.24 | 0.04 |
| Peru | Region of the Americas | South America | 280726 | 259 | 8326.33 | 7.68 | 0.09 |
| Puerto Rico | Region of the Americas | North America | 5708 | 7 | 1753.06 | 2.15 | 0.12 |
| Reunion | European Region | Africa | 1227 | 4 | 1270.02 | 4.14 | 0.33 |
| Saint Barthelemy | Region of the Americas | North America | 173 | 0 | 15928.55 | 0 |  |
| Saint Kitts | Region of the Americas | North America | 253 | 0 | 5314.46 | 0 |  |
| Saint Lucia | Region of the Americas | North America | 432 | 0 | 2404.66 | 0 |  |
| Saint Martin | Region of the Americas | North America | 624 | 0 | 19531.74 | 0 |  |
| Saint Vincent | Region of the Americas | North America | 971 | 0 | 9306.83 | 0 |  |
| Samoa | Western Pacific Region | Oceania | 473 | 0 | 2162.15 | 0 |  |
| Sao Tome and Principe | African Region | Africa | 32 | 0 | 143.43 | 0 |  |
| Saudi Arabia | Eastern Mediterranean Region | Asia | 8193 | 0 | 227.90 | 0 |  |
| Senegal | African Region | Africa | 1208 | 9 | 71.58 | 0.53 | 0.75 |
| Seychelles | African Region | Africa | 2583 | 0 | 24260.13 | 0 |  |
| Sierra Leone | African Region | Africa | 1 | 0 | 0.12 | 0 |  |
| Singapore | Western Pacific Region | Asia | 13655 | 0 | 2298.41 | 0 |  |
| Sint Maarten | Region of the Americas | North America | 144 | 0 | 3269.61 | 0 |  |
| Solomon Islands | Western Pacific Region | Oceania | 125 | 0 | 176.59 | 0 |  |
| Spain | European Region | Europe | 10 | 0 | 0.21 | 0 |  |
| Sri Lanka | South-East Asia Region | Asia | 33236 | 0 | 1526.45 | 0 |  |
| Sudan | Eastern Mediterranean Region | Africa | 10560 | 8 | 231.29 | 0.18 | 0.08 |
| Suriname | Region of the Americas | South America | 95 | 3 | 154.98 | 4.89 | 3.16 |
| Tanzania | European Region | Africa | 34 | 0 | 0.53 | 0 |  |
| Thailand | South-East Asia Region | Asia | 104681 | 87 | 1462.00 | 1.22 | 0.08 |
| Tokelau | Western Pacific Region | Oceania | 4 | 0 | 2163.33 | 0 |  |
| Tonga | Western Pacific Region | Oceania | 14 | 0 | 132.05 | 0 |  |
| Trinidad | Region of the Americas | North America | 2004 | 19 | 1313.53 | 12.45 | 0.95 |
| Turks and Caicos Islands | Region of the Americas | North America | 117 | 0 | 2593.43 | 0 |  |
| Tuvalu | Western Pacific Region | Oceania | 1 | 0 | 89.25 | 0 |  |
| Uruguay | Region of the Americas | South America | 701 | 2 | 204.60 | 0.58 | 0.29 |
| USA | Region of the Americas | North America | 3071 | 0 | 9.11 | 0 |  |
| Vanuatu | Western Pacific Region | Oceania | 138 | 0 | 432.42 | 0 |  |
| Vietnam | Western Pacific Region | Asia | 108433 | 26 | 1112.50 | 0.27 | 0.02 |
| Virgin Islands | Region of the Americas | North America | 185 | 0 | 1873.42 | 0 |  |
| Wallis and Futuna | Western Pacific Region | Oceania | 78 | 0 | 6708.52 | 0 |  |
| Spain | European Region | Europe | 10 | 0 | 0.21 | 0 |  |