

Reported Dengue in the Americas, 2025

Regional evidence with an Experimental Cumulative USU Pilot Estimate

WSI-DEN-AMR-2025 | Cumulative across reported episodes | P2 - evidence-informed mapping

SOURCE EVIDENCE	EXPERIMENTAL WSI ESTIMATE	MAPPING RANGE
4.46 million suspected dengue episodes	45.4 million USU	18.2-95.5 million USU

What this number means

This is an Experimental USU Pilot Estimate. WSI applies approved intensity and, where relevant, duration assumptions to public source data, then expresses the modeled burden relative to a defined six-hour kidney-stone pain reference. The range is deterministic, not a confidence interval.

The result in plain language

The modeled total is driven mainly by the large number of non-severe episodes; severe episodes contribute about 0.49% of central burden.

Dengue offers a clear episode-based test of the WSI approach: an official regional case total, a small severe subset, and clinically interpretable duration ranges.

What the source reports

8,966 severe cases and 2,207 reported deaths

Source: Pan American Health Organization (PAHO). Geographic scope: Americas region. Time basis: Epidemiological weeks 1-53 of 2025.

What WSI models

WSI separates reported severe cases from non-severe episodes, assigns approved intensity and duration scenarios to each state, and sums the resulting intensity-time burden.

What the model adds

- Adds explicit intensity and duration assumptions to the reported episode count.
- Shows how the regional total is distributed between non-severe and severe episodes.
- Expresses the modeled intensity-time burden in one experimental reporting unit.

How to read the estimate

Element	Public interpretation
Central estimate	45.4 million USU
Deterministic mapping range	18.2-95.5 million USU
Time basis	Cumulative across reported episodes
Mapping maturity	P2 - evidence-informed mapping
Mortality treatment	2,207 reported deaths are shown separately and excluded from USU.

What should not be inferred

- The estimate covers reported surveillance episodes, not every dengue infection.
- It is regional and does not authorize a country ranking.
- The P2 mappings are evidence-informed but not patient-elicited overall suffering scores.
- The 2,207 reported deaths remain separate from USU.

Portfolio comparison warning

This result should not be ranked directly against the other WSI pilot series unless their time basis, population, source construct, and mapping maturity are sufficiently aligned. Current cross-series ordering is not authorized.

Full research report and technical methods are available at worldsufferingindex.org.