Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia

As of epidemiological week 47 of 2022, a total of 11,719 dengue cases and 18 deaths (case fatality rate (CFR) 0.2%) were reported to the National Dengue Surveillance System in Cambodia. The number of cases reported during weeks 41 to 47 of 2022 are higher than the mean number of cases in the same period from 2015–2020 (excluding 2019) however cases have been decreasing since week 43 (Figure 1).

![Figure 1: Dengue cases reported weekly in 2022 vs Mean and Mean+2SD during 2015-2020 (Exclude 2019) in Cambodia; Source: National Dengue Surveillance System (NDCP/CNM/MOH)](image)

China

In September and October 2022, 28 and 326 dengue cases were reported respectively in China. There has been a total of 363 dengue cases and no deaths in the country from January 2022 to August 2022. The trend for 2022 remains low (Figure 2).

![Figure 2: Dengue cases reported monthly from 2015-2022 in China; Source: National Health Commission, China](image)
**Lao People’s Democratic Republic**

During epidemiological week 49 of 2022, 321 dengue cases were reported. This is higher compared to the 231 cases reported in the previous week (Figure 3). The cumulative number of cases reported since epidemiological weeks 1–49, 2022 is 28,680. This is 20 times higher compared to the 1,338 cases reported during the same period in 2021. The cumulative number of deaths in 2022 to date is 28 (CFR 0.1%).

**Malaysia**

During epidemiological week 47 of 2022, 1,734 dengue cases were reported. This is an increase compared to the 1,593 cases reported in the previous week. From epidemiological weeks 1–47 of 2022, a total of 56,304 cases were cumulatively reported. This is an increase of 139% compared to 23,547 cases reported during the same period (epidemiological weeks 1–47) in 2021. Up until epidemiological week 47 of 2022, a total of 37 deaths due to dengue had been reported (CFR 0.07%) in 2022, compared to 18 deaths during the same period in 2021 (CFR 0.08%).
Philippines
During epidemiological week 46 of 2022, a total of 645 dengue cases were reported. The number of cases is 70% lower compared to the same period in 2021 (n=2,123). From 1 January to 19 November 2022 (week 46), there have been 205,679 dengue cases and 672 deaths (CFR 0.3%), which is 187% higher compared to the 71,628 cases reported in the same period in 2021.

Singapore
During epidemiological week 48 of 2022, 242 dengue cases were reported in Singapore, leading to a total of 30,961 cases for the year to date (Figure 6). This is an increase of 522% compared to 4,976 dengue cases reported during the same period (epidemiological weeks 1–48) in 2021. Preliminary results of all positive dengue samples serotyped in November 2022 showed DEN-1 (6.2%), DEN-2 (11.3%), DEN-3 (79.6%) and DEN-4 (2.9%) respectively.
Viet Nam

During epidemiological week 49 of 2022, there were 8,601 cases and no deaths reported in Viet Nam. A reported 7,141 (83.0%) cases were hospitalized. Compared to week 47 (10,068 cases, 8,374 hospitalizations, two deaths), the number of cases decreased 14.6% and the number of hospitalizations decreased 14.7%. From epidemiological weeks 1–49 of 2022, there were 345,234 dengue cases and 131 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (69,140 cases and 26 deaths, CFR 0.04%), the cumulative number of cases was 5 times higher.

![Figure 7: Dengue cases and deaths reported weekly from 2021-2022 in Viet Nam](image)

**Source:** General Department of Preventive Medicine, Ministry of Health, Viet Nam

Note hospitalisations include inpatients and outpatients.

Southern Hemisphere

Australia

There were 66 dengue cases reported in Australia during the last fortnight (31 October to 13 November 2022). In 2022, the number of cases is increasing but remains low at 305 for the year to date (until 13 November 2022), compared with the trend for the years before 2020 (Figure 8). This may be attributed to COVID-19 related travel restrictions in 2020-2021. Prior to COVID-19, Australia had seen notifications in overseas-acquired cases from travellers returning from dengue endemic areas.

![Figure 8: Laboratory-confirmed dengue cases reported monthly from 2015-2022 in Australia](image)

**Source:** Department of Health, Australia
Pacific Islands Countries
New Caledonia
There are no further updates since the previous report. From 1 January to 30 September 2022, 3 confirmed dengue cases were reported in New Caledonia (Figure 9). This is lower compared to the same period in 2021 when a total of 116 dengue cases were reported. Of the 3 confirmed dengue cases in 2022, two were imported cases. All 3 dengue cases were DENV-2.

![Figure 9: Dengue cases reported by week from 2020 to 2022 in New Caledonia](source: Network of sentinel physicians, New Caledonia)

Pacific Island Countries and Areas (PICs) – Dengue-like illness (DLI) Surveillance
During epidemiological week 48 of 2022, Pacific Island Countries and Areas with available surveillance data (15/18 PICs) are reporting no or low numbers of DLI cases. Fiji, French Polynesia, Vanuatu, and Wallis & Futuna reported a higher weekly number of cases compared with the corresponding epidemiological week of 2021.
*Caution should be taken in interpreting these data as there may be changes in the number of sentinel sites reporting to the Pacific Syndromic Surveillance System.

FSM: Federated States of Micronesia

Figure 10. Reported cases of dengue-like illness in Pacific Islands Countries and Areas

Source: WHO Division of Pacific Technical Support