Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia

As of epidemiological week 38 of 2022, a total of 7,917 dengue cases and 14 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. The number of cases reported weekly is lower than mean cases during 2015–2020 (Figure 1). The number of cases is expected to increase as dengue usually occurs during the rainy season between June and October.

![Figure 1: Dengue cases reported weekly in 2022 vs Mean and Mean+2SD during 2015-2020, *excluding 2019 in Cambodia](source)

Source: National Dengue Surveillance System (NDCP/CNM/MOH)

China

There are no further updates since the previous report. In July 2022, three (3) dengue case were reported in China. There have been a total of eight (8) dengue cases and no deaths in the country from January to July, 2022. The trend for 2022 remains low (Figure 2).

![Figure 2: Dengue cases reported monthly from 2015-2022 in China](source)

Source: National Health Commission, China
**Lao People’s Democratic Republic**

During epidemiological week 41 of 2022, 558 dengue cases and no death were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological weeks 1–41, 2022 is 25,721. This is 22 times higher compared to the 1,189 cases reported during the same period (epidemiological weeks 1–41 in 2021). The cumulative number of deaths in 2022 to date is 20 (CFR 0.08%).

![Figure 3: Dengue cases reported weekly from 2015-2022 in Lao PDR](image)

*Source: National Centre for Laboratory and Epidemiology, Ministry of Health, Lao PDR*

**Malaysia**

During epidemiological week 40 of 2022, 1,474 dengue cases were reported. This is an increase compared to 1,460 cases in the previous week. From epidemiological weeks 1–40 of 2022, a total of 45,018 cases were cumulatively reported. This is an increase of 24,642 cases (121%) compared to 20,376 cases reported during the same period (epidemiological weeks 1–40) in 2021. Up until epidemiological week 40, a total of 28 deaths due to dengue had been reported (CFR 0.06%) in 2022, compared to 14 deaths during the same period in 2021 (CFR 0.07%).

![Figure 4: Dengue cases reported weekly from 2021, 2022 and median 2017-2021 in Malaysia](image)

*Source: Department of Health, Malaysia*
Philippines
During epidemiological week 39 of 2022, a total of 248 dengue cases and no death were reported. The number of cases is 82% lower compared to the same period in 2021 (n=1,357). However, reported cases in week 39 of 2022 may change since cases are still being validated and confirmed. From 1 January to 01 October 2022 (week 39), there have been 173,233 cases and 528 deaths (CFR 0.3%), which is 191% higher compared to the 59,514 cases reported in the same period in 2021.

![Figure 5: Dengue cases reported weekly from 2021 and 2022 in the Philippines](source)

Singapore
During epidemiological week 40 of 2022, 402 dengue cases were reported in Singapore, leading to a total of 28,590 cases for the year to date (Figure 6). This is an increase of 637% compared to 4,488 dengue cases reported during the same period (epidemiological weeks 1–40) in 2021. Preliminary results of all positive dengue samples serotyped in September 2022 showed DEN-1(4.0%), DEN-2(15.1%), DEN-3(77.7%) and DEN-4(3.2%) respectively.

![Figure 6: Dengue cases reported weekly from 2015-2022 in Singapore](source)
Viet Nam

During epidemiological week 41 of 2022, there were 9,750 cases and one (1) deaths reported in Viet Nam. A reported 7,736 (79.3%) cases were hospitalized. Compared to week 39 (11,211 cases, 8,944 hospitalizations, two (2) deaths), the number of cases decreased 13% and the number of hospitalizations decreased 13.2%. From epidemiological weeks 1–41 of 2022, there were 258,480 dengue cases and 102 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (54,219 cases and 21 deaths, CFR 0.04%), the cumulative number of cases was 4.8 times higher.

Southern Hemisphere

Australia

There are no further updates since the previous report. There were 18 dengue cases reported in Australia during epidemiological weeks 35 and 36 2022 (Figure 8). In 2021, there were a total of eight (8) reported cases. In 2022, the number of cases is increasing but remains low at 188 for the year to date compared with the trend for the years before 2019, which may be attributed to COVID-19 related travel restrictions. Prior to COVID-19, Australia had seen increasing notifications in overseas-acquired cases from returning travellers to dengue endemic areas.

Figure 7: Dengue cases and deaths reported weekly from 2021-2022 in Viet Nam
Source: General Department of Preventive Medicine, Ministry of Health, Viet Nam
Note hospitalisations include inpatients and outpatients.

Figure 8: Laboratory-confirmed dengue cases reported monthly from 2015-2022 in Australia
Source: Department of Health, Australia
Pacific Islands Countries
New Caledonia
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 during the same period. This may be related to COVID-19 including travel restrictions in New Caledonia. The 3 confirmed dengue cases in 2022 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 40 of 2022, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases. Fiji and Vanuatu reported a higher number of cases compared to week 40 of 2021.
N Mariana Is DLI Trend - 2021-2022 (W40)

New Caledonia DLI Trend - 2021-2022 (W40)

Niue DLI Trend - 2021-2022 (W40)

Palau DLI Trend - 2021-2022 (W40)

Pitcairn Islands DLI Trend - 2021-2022 (W40)

Samoa DLI Trend - 2021-2022 (W40)
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: PacNet Bulletin