Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
As of epidemiological week 42 of 2022, a total of 9,482 dengue cases and 16 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. The number of cases reported weekly is higher during week 42 2022 than mean cases during the same period 2015–2020 (Figure 1).

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

China
There are no further updates since the previous report. In August 2022, one (1) dengue case was reported in China. There have been a total of nine (9) 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 45 of 2022, 438 dengue cases and two (2) deaths were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological weeks 1–45, 2022 is 27,513. This is 20 times higher compared to the 1,281 cases reported during the same period (epidemiological weeks 1–45 in 2021). The cumulative number of deaths in 2022 to date is 23 (CFR 0.08%).

Malaysia
During epidemiological week 45 of 2022, 1,715 dengue cases were reported. This is an increase compared to the 1,693 cases reported in the previous week. From epidemiological weeks 1–45 of 2022, a total of 52,977 cases were cumulatively reported. This is an increase of 137% compared to 22,581 cases reported during the same period (epidemiological weeks 1–45 in 2021). Up until epidemiological week 45 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 43 of 2022, a total of 413 dengue cases and two (2) deaths were reported. The number of cases is 73% lower compared to the same period in 2021 (n=1,558). However, reported cases in week 43 of 2022 may change since cases are still being validated and confirmed. From 1 January to 29 October 2022 (week 43), there have been 193,010 dengue cases and 629 deaths (CFR 0.3%), which is 194% higher compared to the 65,684 cases reported in the same period in 2021.

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

*Source: Department of Health, the Philippines*

**Singapore**

During epidemiological week 44 of 2022, 322 dengue cases were reported in Singapore, leading to a total of 29,894 cases for the year to date (Figure 6). This is an increase of 523% compared to 4,799 dengue cases reported during the same period (epidemiological weeks 1–44) in 2021. Preliminary results of all positive dengue samples serotyped in October 2022 showed DEN-1 (6.3%), DEN-2 (19.2%), DEN-3 (71.9%) and DEN-4 (2.7%) respectively.

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

*Source: Communicable Diseases Division, Ministry of Health, Singapore*
Viet Nam
During epidemiological week 45 of 2022, there were 10,306 cases and no deaths reported in Viet Nam. A reported 8,331 (80.8%) cases were hospitalized. Compared to week 44 (10,386 cases, 8,379 hospitalizations, one (1) death), the number of cases decreased 0.8% and the number of hospitalizations decreased 0.6%. From epidemiological weeks 1–45 of 2022, there were 303,637 dengue cases and 112 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (62,106 cases and 24 deaths, CFR 0.04%), the cumulative number of cases was 4.9 times higher.

Southern Hemisphere
Australia
There were 36 dengue cases reported in Australia during epidemiological weeks 40 and 41 of 2022. In 2021, there were a total of eight (8) reported cases across the year. In 2022, the number of cases is increasing but remains low at 205 for the year to date (until 16 October 2022), compared with the trend for the years before 2019 (Figure 8). This may be attributed to COVID-19 related travel restrictions. Prior to COVID-19, Australia had seen increasing notifications in overseas-acquired cases from travellers returning from dengue endemic areas.
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 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 44 of 2022, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases. Palau and Wallis and Futuna reported a similar number of cases compared with week 44 of 2021. Fiji (week 43) and Vanuatu (week 44) reported a higher 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