Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
As of epidemiological week 41 of 2022, a total of 9,067 dengue cases and 16 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. The number of cases reported weekly is higher in week 41 of 2022 than mean cases during 2015–2020 (Figure 1). A peak of dengue cases is expected 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: National Dengue Surveillance System (NDCP/CNM/MOH))

China
In August 2022, one (1) dengue case were reported in China. There have been a total of nine (9) dengue cases and no deaths in the country from January to August, 2022. The trend for 2022 remains low (Fig 2).

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

During epidemiological week 43 of 2022, 449 dengue cases and no death were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological weeks 1–43, 2022 is 26,689. This is 21 times higher compared to the 1,205 cases reported during the same period (epidemiological weeks 1–43 in 2021). The cumulative number of deaths in 2022 to date is 21 (CFR 0.08%).

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

**Malaysia**

During epidemiological week 41 of 2022, 1,477 dengue cases were reported. This is an increase compared to 1,474 cases in the previous week. From epidemiological weeks 1–41 of 2022, a total of 46,495 cases were cumulatively reported. This is an increase of 123% compared to the 20,847 cases reported during the same period (epidemiological weeks 1–41) in 2021. Up until epidemiological week 41, a total of 28 deaths due to dengue had been reported (CFR 0.06%) in 2022, compared to 15 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](source)
Philippines
During epidemiological week 41 of 2022, a total of 143 dengue cases and no death were reported. The number of cases is 91% lower compared to the same period in 2021 (n=1,532). However, reported cases in week 41 of 2022 may change since cases are still being validated and confirmed. From 1 January to 15 October 2022 (week 41), there have been 181,971 cases and 559 deaths (CFR 0.3%), which is 198% higher compared to the 62,611 cases reported in the same period in 2021.

Figure 5: Dengue cases reported weekly from 2021 and 2022 in the Philippines
Source: Department of Health, the Philippines

Singapore
During epidemiological week 42 of 2022, 375 dengue cases were reported in Singapore, leading to a total of 29,254 cases for the year to date (Figure 6). This is an increase of 531% compared to 4,633 dengue cases reported during the same period (epidemiological weeks 1–42) in 2021. Preliminary results of all positive dengue samples serotyped in September 2022 showed DEN-1 (6.1%), DEN-2 (21.3%), DEN-3 (69.5%) and DEN-4 (3.0%) respectively.

Figure 6: Dengue cases reported weekly from 2015-2022 in Singapore
Source: Communicable Diseases Division, Ministry of Health, Singapore

Viet Nam
During epidemiological week 43 of 2022, there were 9,441 cases and one (1) death reported in Viet Nam. A reported 7,582 (80.3%) cases were hospitalized. Compared to week 42 (10,973 cases, 8,811 hospitalizations, two (2) deaths), the number of cases decreased 14% and the number of hospitalizations decreased 14%. From epidemiological weeks 1–43 of 2022, there were 281,189 dengue cases and 110 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (58,177 cases and 21 deaths, CFR 0.04%), the cumulative number of cases was 4.8 times higher.

**Southern Hemisphere**

**Australia**
There were 36 dengue cases reported in Australia during epidemiological weeks 39 and 40 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 261 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.
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 42 of 2022, Pacific Island Countries and Areas with available surveillance data (12/18) are reporting no or low numbers of DLI cases. Fiji, Vanuatu and Wallis and Futuna reported a higher number of cases compared to week 42 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: PacNet Bulletin