Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
There are no further updates since the previous report. As of epidemiological week 36 of 2022, a total of 7,229 dengue cases and 13 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: 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: National Health Commission, China)

Lao People’s Democratic Republic
During epidemiological week 39 of 2022, 740 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 1–39, 2022 is 24,255. This is 22 times higher compared to the 1,100 cases reported during the same period (epidemiological weeks 1–39 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](Source: National Centre for Laboratory and Epidemiology, Ministry of Health, Lao PDR)
**Malaysia**

During epidemiological week 38 of 2022, 1,533 dengue cases were reported. This is an increase compared to 1,363 cases in the previous week. From epidemiological weeks 1–38 of 2022, a total of 42,084 cases were cumulatively reported. This is an increase of 22,661 cases (117%) compared to 19,423 cases reported during the same period (epidemiological weeks 1–38) in 2021. Up until epidemiological week 38, a total of 24 deaths due to dengue had been reported (CFR 0.06%) in 2022, compared to 13 deaths during the same period in 2021 (CFR 0.07%).

**Philippines**

During epidemiological week 37 of 2022, a total of 362 dengue cases and one (1) death were reported. The number of cases is 69% lower compared to the same period in 2021 (n=1,184). However, reported cases in week 37 of 2022 may change since cases are still being validated and confirmed. From 1 January to 17 September 2022 (week 37), there have been 160,956 cases and 508 deaths (CFR 0.3%), which is 183% higher compared to the 56,834 cases reported in the same period in 2021.
Singapore

During epidemiological week 38 of 2022, 478 dengue cases were reported in Singapore, leading to a total of 27,761 cases for the year to date (Figure 6). This is an increase of 648% compared to 4,284 dengue cases reported during the same period (epidemiological weeks 1–38) in 2021. Preliminary results of all positive dengue samples serotyped in August 2022 showed DEN-1 (2.0%), DEN-2 (15.2%), DEN-3 (77.0%) and DEN-4 (5.9%) respectively.

Viet Nam

During epidemiological week 38 of 2022, there were 11,472 cases and three (3) deaths reported in Viet Nam. A reported 8,874 (77.4%) cases were hospitalized. Compared to week 37 (11,740 cases, 9,317 hospitalizations, four (4) deaths), the number of cases decreased 2.3% and the number of hospitalizations decreased 4.8%. From epidemiological weeks 1–38 of 2022, there were 224,771 dengue cases and 92 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (49,759 cases and 20 deaths, CFR 0.04%), the cumulative number of cases was 4.5 times higher.
Southern Hemisphere

Australia
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 8: Laboratory-confirmed dengue cases reported monthly from 2015-2022 in Australia](Source: Department of Health, Australia)

Pacific Islands Countries

New Caledonia
There are no further updates since the previous report. From 1 January to 31 July 2022, one confirmed dengue case was 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 one confirmed dengue case in 2022 was 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 38 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 38 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