Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
As of epidemiological week 31 of 2022, a total of 5,357 dengue cases and 11 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. This is 452% higher compared to the number of cases reported in the same period of 2021 (971 cases; 3 death). The number of cases reported weekly is lower than mean cases during 2015-2020 (Figure 1).

China
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).
Lao People’s Democratic Republic
During epidemiological week 33 of 2022, 1,731 dengue cases and 0 death were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological week 1 to week 33, 2022 is 17,545. This is 2.082% higher compared to the 804 cases reported during the same period (epidemiological week 1 to week 33) in 2021. The cumulative number of deaths in 2022 to date is 17 (CFR 0.1%).

Malaysia
During epidemiological week 32 of 2022, 1,390 dengue cases were reported. From epidemiological week 1 to week 32 of 2022, a total of 33,911 cases cumulatively reported. This is an increase of 98% compared to 17,122 cases reported during the same period (epidemiological week 1 to week 32) in 2021. Up until epidemiological week 32, a total of 22 deaths due to dengue had been reported (CFR 0.06%) in 2022, compared to 10 deaths during the same period in 2021 (CFR 0.06%).
Philippines

During epidemiological week 31, a total of 3,417 dengue cases with eight (8) reported deaths. The number of cases is 42% higher compared to the same period in 2021 (n=2,400). From 1 January to 6 August (week 31) 2022, there have been 118,526 cases and 399 deaths (CFR 0.3%), which is 153% higher compared to the 46,761 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 32 of 2022, 890 dengue cases were reported in Singapore, leading to a total of 24,254 cases for the year to date (Figure 6). This is an increase of 526% compared to 3,875 dengue cases reported during the same period (epidemiological week 1 to week 32) in 2021. The number of hospital admissions remain the same, 78 in both week 31 and 32. 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.

![Figure 6: Dengue cases reported weekly from 2015-2022 in Singapore](Source: Communicable Diseases Division, Ministry of Health, Singapore)
Viet Nam
During week 33, there were 10,212 cases and three deaths, of whom 7,776 (76.1%) were hospitalized. Compared to week 32 (10,765 cases including 8,467 hospitalizations and five deaths), the number of cases decreased 5.1% and the number of hospitalizations decreased 8.2%. From epidemiological week 1 to week 33 of 2022, there were 169,136 dengue cases and 62 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (45,261 cases and 17 deaths (CFR 0.04%)), the cumulative number of cases increased by 274%.

![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.](image)

Southern Hemisphere
Australia
There were 25 dengue cases reported in Australia during epidemiological week 30 and week 31 2022 (Figure 8). In 2021, there were only eight cases in total. In 2022, the number of cases is increasing but remains low at 127 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](image)
Pacific Islands Countries
New Caledonia
There have been no new report from New Caledonia since the last update. From 1 January to 31 July 2022, one confirmed dengue case was reported in New Caledonia (Figure 10). 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.

Wallis and Futuna
There have been no new report from Wallis and Futuna since the last update. Wallis and Futuna has been reporting zero cases since week 34 of 2021 to week 28 2022 (Figure 11). In 2021, there were 68 cases reported including 63 in Futuna and five in Wallis. In 2020, there was a total of 124 confirmed dengue cases (47 cases in Wallis and 77 cases in Futuna).

Figure 10: Dengue cases reported by week from 2020 to 2022 in New Caledonia
Source: Network of sentinel physicians, New Caledonia

Figure 11: Dengue cases reported by week from 2020 to 2021 in Wallis and Futuna
Source: Health Agency, Wallis and Futuna
*Since week 44 in 2021, the dengue surveillance bulletin of Wallis and Futuna has discontinued updating this graph.
Pacific Island Countries and Areas (PICs) – Dengue-like illness (DLI) Surveillance

During epidemiological week 32 of 2022, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases. Fiji, Samoa, Vanuatu and Wallis & Futuna have reported a higher number of cases compared to week 32 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 12. Reported cases of dengue-like illness in Pacific Islands Countries and Areas

Source: PacNet Bulletin**