Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
As of epidemiological week 30 of 2022, a total of 4,985 dengue cases and 11 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. This is 428% higher compared to the number of cases reported in the same period of 2021 (945 cases; 2 death). The number of cases reported weekly is lower than mean cases during 2015-2020* (Figure 1).

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

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*Monthly and weekly reports from the National Dengue Surveillance System (NDSS) have been received from member states and analyzed, and the data are made available through the Dengue Situation Update. The reports are based on ongoing surveillance and investigations in the countries and regions and do not necessarily reflect the total number of cases in the countries.

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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 (NDSS/CNM/MOH)

Figure 2: Dengue cases reported monthly from 2015-2022 in China
Source: National Health Commission, China
Lao People’s Democratic Republic
During epidemiological week 31 of 2022, 2,023 dengue cases and 2 deaths were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological week 1 to week 31, 2022 is 13,967. This is 1,873% higher compared to the 708 cases reported during the same period (epidemiological week 1 to week 31) in 2021. The cumulative number of deaths in 2022 to date is 16 (CFR 0.1%).

Malaysia
During epidemiological week 31 of 2022, 1,394 dengue cases were reported, leading to a total of 32,522 cases cumulatively reported in 2022 to date. This is an increase of 94.7% compared to 16,702 cases reported during the same period (epidemiological week 1 to week 31) in 2021. As of epidemiological week 31 of 2022, 22 deaths due to dengue had been reported (CFR 0.07%), compared to 10 deaths during the same period in 2021 (CFR 0.06%).
Philippines
During epidemiological week 29, a total of 772 dengue cases were reported. There have been no death during week 29. The number of cases is 65% lower compared to the same period in 2021 (n=2,198). From 1 January to 23 July (week 30) 2022, there has been 92,343 cases and 344 deaths (CFR 0.4%), which is 118% higher compared to the 42,294 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 30 of 2022, 1106 dengue cases were reported in Singapore, leading to a total of 22,457 cases for the year to date (Figure 6). This is an increase of 504% compared to 3,726 dengue cases reported during the same period (epidemiological week 1 to week 30) in 2021. The number of hospital admissions decreased to 94 in week 30, compared to 91 in week 30. Preliminary results of all positive dengue samples serotyped in July 2022 showed DEN-1(0.8%), DEN-2(11.2%), DEN-3(84.8%) and DEN-4(3.2%) respectively.

![Figure 6: Dengue cases reported weekly from 2015-2022 in Singapore](Source: Communicable Diseases Division, Ministry of Health, Singapore)
Viet Nam
During week 31, there were 8,781 cases and three deaths, of whom 6,598 (75.1%) were hospitalized. Compared to week 30 (10,024 cases including 7,692 hospitalizations and two deaths), the number of cases decreased 12.4% and the number of hospitalizations decreased 17.1%. From epidemiological week 1 to week 31 of 2022, there were 145,536 dengue cases and 53 deaths (CFR 0.04%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (43,469 cases and 14 deaths (CFR 0.03%)), the cumulative number of cases increased by 235%.

Southern Hemisphere
Australia
There were 29 dengue cases reported in Australia during epidemiological week 28 and week 29 2022 (Figure 8). In 2021, there were only eight cases in total. In 2022, the number of cases is increasing but remains low at 98 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 have been no reports from New Caledonia since the last update. From 1 January to 30 June 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 58 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 10: Dengue cases reported by week from 2020 to 2022 in New Caledonia](Source: Network of sentinel physicians, New Caledonia)

Wallis and Futuna

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 11: Dengue cases reported by week from 2020 to 2021 in Wallis and Futuna](Source: Health Agency, Wallis and Futuna)

*Since week 44, 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 30 of 2022, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases. Fiji reported an increase in cases compared to week 30 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