Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
From epidemiological week 1 to 50 in 2021, a total of 1,811 dengue cases, including eight deaths (case fatality rate (CRF) 0.4%), have been reported in Cambodia. The number of cases reported weekly remains lower than the normal range of cases reported from 2015 to 2020 (Figure 1). The reported number of dengue cases is lower in all provinces compared to trends observed in 2020.

![Figure 1: Dengue cases reported weekly from 2021 vs 2020 Mean and Mean+2SD during 2015-2020, *excluding 2019 in Cambodia](source: Ministry of Health, Cambodia)

China
In November 2021, five dengue cases and no deaths were reported in China. The trend in 2021 is below usual seasonal trend, as compared to previous years (Figure 2).

![Figure 2: Dengue cases reported monthly from 2013-2021 in China](source: National Health Commission, China)
Lao People’s Democratic Republic
During epidemiological 50 of 2021, eight dengue cases and no deaths were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported as of epidemiological week 50 2021 is 1,346. This is lower compared to 7,618 cases reported during the same period in 2020.

Malaysia
During epidemiological week 51 of 2021, a total of 633 dengue cases and no death were reported. As of 25 December 2021, the cumulative number of reported cases is 25,794. This is a significant decrease of 71% compared to 88,845 cases reported during the same period in 2020. As of epidemiological week 51 of 2021, a total of 19 deaths due to dengue have been reported in 2021, compared to 142 deaths during the same period in 2020.
Philippines (no update)
In epidemiological week 45, from 7 to 13 November 2021, there was a total of three hundred ten (310) dengue cases with two (2) deaths reported. This is 77% lower compared to the same period in 2020 (n=1,138). From 1 January to 23 October 2021, there has been a total of 61,170 dengue cases with 216 deaths (CFR 0.4%) reported, this is 21% lower compared to the 77,859 cases reported in the same period in 2020.

![Figure 5: Dengue cases reported weekly from 2021 in the Philippines](source: Department of Health, the Philippines)

Singapore
In epidemiological week 50 of 2021, 63 dengue cases were reported in Singapore and a total of 5,116 cases have been reported since epidemiological week 1 of 2021 (Figure 6). Weekly trends are within expected seasonal levels.

![Figure 6: Dengue cases reported weekly from 2015-2021 in Singapore](source: Communicable Diseases Division, Ministry of Health, Singapore)
Viet Nam

In epidemiological week 50 of 2021, there were 1,057 cases and no deaths reported from 35 out of 63 provinces in Viet Nam. The number of cases decreased by 6.7% compared to the previous week (1,127 cases including no deaths). As of 19 December 2021, a total of 70,944 cases of dengue, including 22 deaths, have been reported in Viet Nam. Compared to the same period in 2020 (133,321 cases including 27 deaths), the cumulative number of cases decreased by 46.8%.

![Number of dengue hospital admission cases and deaths by week in 2021 compared to 2020, As of week 50th 2021, Viet Nam](Image)

**Figure 7: Dengue cases and deaths reported weekly from 2020-2021 in Viet Nam**
*Source: General Department of Preventive Medicine, Ministry of Health, Viet Nam*

Southern Hemisphere

Australia

As of 5 December 2021, seven cumulative cases of dengue have been reported in Australia to-date (Figure 8). There were 249 dengue cases reported in Australia from 1 January to 5 December 2020 indicating a marked reduction in the number of cases. The significant drop in dengue cases for 2021 in Australia as compared to previous years during the same time period 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.

![Laboratory-confirmed dengue cases reported monthly from 2015-2021 in Australia](Image)

**Figure 8: Laboratory-confirmed dengue cases reported monthly from 2015-2021 in Australia**
*Source: Department of Health, Australia*
Pacific Islands Countries

French Polynesia (no update)
During epidemiological weeks 43 and 44 of 2021, out of 16 suspected dengue cases tested for dengue-specific IgM, no samples tested positive. In 2021, the proportion of dengue-like illness (DLI) cases among consultations at sentinel sites (Figure 9) increased between weeks 31 and 34, along with a peak in COVID-19 cases.

![Figure 9: Number of dengue consultation and proportion of DLI cases among consultations at sentinel sites by week from 2020-2021 in French Polynesia](source: Centre for Occupational Health and Public Safety, French Polynesia)

New Caledonia (no update)
From epidemiological weeks 1 to 45 of 2021, a total of 116 dengue cases were reported in New Caledonia, including 92 confirmed cases, 23 probable cases, and one suspected case (Figure 10). This is an increase compared to the same period in 2020 when a total of 63 total dengue cases were reported, but the peak and majority of cases were reported at the beginning of the year and current trend is similar to last year. DENV-2 was detected in 85 out of the 92 confirmed cases as of 15 November 2021.

![Figure 10: Dengue cases reported by week from 2021 in New Caledonia](source: Network of sentinel physicians, New Caledonia)
Wallis and Futuna (no update)
During epidemiological weeks 46 to 47 of 2021, no confirmed cases of dengue were reported in Wallis and Futuna (Figure 11). As of epidemiological week 47, 2021, there were 68 cases reported. Among them, 63 cases were reported in Futuna and five cases reported in Wallis. In 2020, there were a cumulative of 124 confirmed dengue cases.

Pacific Island Countries and Areas (PICs) – Dengue-like illness (DLI) Surveillance
During epidemiological week 50 of 2021, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases.

*Since week 44, the dengue surveillance bulletin of Wallis and Futuna has discontinued updating this graph.
* 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.

Figure 12. Reported cases of dengue-like illness in Pacific Islands Countries and Areas

Source: PacNet Bulletin