Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia

From epidemiological week 52 in 2021, a total of 1,903 dengue cases, including eight deaths (case fatality rate (CFR) 0.4%), have been reported in Cambodia for 2021. 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)

China

In December 2021, 5 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 2015-2021 in China](source)
Lao People’s Democratic Republic (no update)
During epidemiological week from 49 to 50 of 2021, 18 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 52 of 2021, a total of 571 dengue cases were reported. As of 1 January 2022, the cumulative number of reported cases is 26,365. This is a significant decrease of 70.8% compared to 90,304 cases reported during the same period in 2020. As of epidemiological week 52 of 2021, a total of 20 deaths due to dengue have been reported in 2021, compared to 145 deaths during the same period in 2020.
Philippines
In epidemiological week 51, from 9 to 25 December 2021, there was a total of 179 dengue cases with no death reported. This is 86% lower compared to the same period in 2020 (n=1,265). From 1 January to 25 December 2021, there has been a total of 78,208 dengue cases with 277 deaths (CFR 0.4%) reported, this is 13% lower compared to the 90,135 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](Image)

Singapore
In epidemiological week 52 of 2021, 76 dengue cases were reported in Singapore and a total of 5,258 cases have been reported since epidemiological week 1 of 2021 (Figure 6). Weekly trends were within expected seasonal levels.

![Figure 6: Dengue cases reported weekly from 2015-2021 in Singapore
Source: Communicable Diseases Division, Ministry of Health, Singapore](Image)
Viet Nam (no update)
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%.

Southern Hemisphere
Australia
As of 2 January 2022, eight cases of dengue have been reported in Australia since 3 January 2021. (Figure 8). In contrast, there were 249 dengue cases reported in Australia from 1 January 2020 to 3 January 2021 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.
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) started to increase 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)

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)
**Wallis and Futuna (no update)**
During epidemiological week 48 of 2021, no confirmed cases of dengue were reported in Wallis and Futuna (Figure 11). As of epidemiological week 48 of 2021, there have been 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.

![Figure 11: Dengue cases reported by week from 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 52 of 2021, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases.
Kiribati

Marshall Islands

N Mariana Is

New Caledonia

Niue

Palau

Pitcairn Islands

Samoa
* 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*