Update on the Dengue situation in the Western Pacific Region

Northern Hemisphere

Cambodia
As of epidemiological week 28 of 2022, a total of 4,197 dengue cases and 10 deaths (case fatality rate (CFR) 0.2%) were reported in Cambodia. This is 367% higher compared to the number of cases reported in the same period of 2021 (899 cases; 2 death). The number of cases reported weekly is higher than mean cases during 2015-2020 but lower than mean cases plus two standard deviations during 2015-2020 (Figure 1).

![Figure 1: Dengue cases reported weekly in 2022 vs Mean and Mean+2SD during 2015-2020, *excluding 2019 in Cambodia](source)

China
There have been no new report from China since the last update. In May 2022, two dengue cases were reported in China. There have been a total of four dengue cases and no death in the country from January to May, 2022. The trend for 2022 remains low (Figure 2).

![Figure 2: Dengue cases reported monthly from 2015-2022 in China](source)
### Lao People’s Democratic Republic

During epidemiological week 29 of 2022, 1,869 dengue cases and one death were reported in Lao People’s Democratic Republic (Figure 3). The cumulative number of cases reported since epidemiological week 1 to week 29, 2022 is 10,087. This is 1,615% higher compared to the 588 cases reported during the same period (epidemiological week 1 to week 29) in 2021. The cumulative number of death in 2022 to date is 13 (CFR 0.2%).

![Figure 3: Dengue cases reported weekly from 2015-2022 in Lao PDR](image)

*Source: National Centre for Laboratory and Epidemiology, Ministry of Health, Lao PDR*

### Malaysia

During epidemiological week 28 of 2022, 1,495 dengue cases were reported, leading to a total of 27,915 cumulative reported dengue cases in 2022 to date. This is an increase of 83.3% compared to 15,226 cases reported during the same period (epidemiological week 1 to week 28) in 2021. As of epidemiological week 28 of 2022, 19 deaths due to dengue had been reported (CFR 0.07%), compared to nine deaths during the same period in 2021 (CFR 0.06%).

![Figure 4: Dengue cases reported weekly from 2021 and 2022 in Malaysia](image)

*Source: Department of Health, Malaysia*
Philippines
During epidemiological week 27, a total of 537 dengue cases were reported. There have been no death during week 27. The number of cases is 73% lower compared to the same period in 2021 (n=1,954). From 1 January to 27 June 2022, there has been 73,909 dengue cases and 299 deaths (CFR 0.4%) reported, which is 96% higher compared to the 37,699 cases reported in the same period in 2021.

Singapore
During epidemiological week 28 of 2022, 922 dengue cases were reported in Singapore, leading to a total of 20,291 cases reported for the year to date (Figure 6). This is an increase of 469% compared to 3,564 dengue cases reported during the same period (epidemiological week 1 to week 28) in 2021. The number of hospital admissions decreased to 90 in week 28, compared to 100 in week 27. Preliminary results of all positive dengue samples serotyped in July 2022 showed DEN-1(0.6%), DEN-2(11.5%), DEN-3(84.1%) and DEN-4(3.8%) respectively.
**Viet Nam**

During week 29, there were 8,348 cases and no death, of whom 6,294 (75.4%) were hospitalized. Compared to week 28 (10,363 cases including 7,711 hospitalizations and one death), the number of cases decreased 19.4% and the number of hospitalizations decreased 18.4%. From epidemiological week 1 to week 29 of 2022, there were 124,095 dengue cases and 40 deaths (CFR 0.03%) cumulatively reported in Viet Nam. Compared to the same period in 2021 (41,385 cases and 12 deaths (CFR 0.03%)), the cumulative number of cases increased by 200%.

![Figure 7: Dengue cases and deaths reported weekly from 2021-2022 in Viet Nam](source)

*Source: General Department of Preventive Medicine, Ministry of Health, Viet Nam*

*Note hospitalisations include inpatients and outpatients.*

**Southern Hemisphere**

**Australia**

There were 14 dengue cases reported in Australia during epidemiological week 26 and week 27 2022 (Figure 8). In 2021, there were only eight cases in total. In 2022, the number of cases is increasing but remains low at 66 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)

*Source: Department of Health, Australia*
Pacific Islands Countries

New Caledonia

There have been no new report 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.

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).

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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, 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 28 of 2022, Pacific Island Countries and Areas with available surveillance data are reporting no or low numbers of DLI cases. Fiji, Palau, Samoa, and Solomon Islands have reported an increase in cases compared to week 28 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*