Virological Surveillance Summary

The total number of specimens and number of positive specimens reported to FluNet by Western Pacific Region countries and areas between week 1 of 2023 and week 1 of 2024 are presented in Table 1 below. Influenza A and B are co-circulating, however, the majority of cases reported in week 1 have been Influenza A (H3) (Figure 1). Caution should be taken when interpreting this data as there are reporting delays.

Table 1: Cumulative data reported to FluNet from Western Pacific Region, week 1, 2023 to week 1, 2024

<table>
<thead>
<tr>
<th>Country (most recent week of report)</th>
<th>Total number of specimens processed</th>
<th>Total number of influenza-positive specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia (1 of 2024)</td>
<td>267,031</td>
<td>15,450</td>
</tr>
<tr>
<td>Cambodia (50 of 2023)</td>
<td>5,127</td>
<td>570</td>
</tr>
<tr>
<td>China (1 of 2024)</td>
<td>1,653,879</td>
<td>272,190</td>
</tr>
<tr>
<td>Fiji (48 of 2023)</td>
<td>3,166</td>
<td>521</td>
</tr>
<tr>
<td>Japan (1 of 2024)</td>
<td>-</td>
<td>6,218</td>
</tr>
<tr>
<td>Lao People's Democratic Republic (1 of 2024)</td>
<td>7745</td>
<td>782</td>
</tr>
<tr>
<td>Malaysia (1 of 2024)</td>
<td>52,029</td>
<td>8,158</td>
</tr>
<tr>
<td>Mongolia (1 of 2024)</td>
<td>12,687</td>
<td>1,802</td>
</tr>
<tr>
<td>New Zealand (42 of 2023)</td>
<td>2,678</td>
<td>592</td>
</tr>
<tr>
<td>Papua New Guinea</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Philippines (52 of 2023)</td>
<td>7,025</td>
<td>685</td>
</tr>
<tr>
<td>Republic of Korea (1 of 2024)</td>
<td>16,283</td>
<td>2,707</td>
</tr>
<tr>
<td>Singapore (1 of 2024)</td>
<td>15,025</td>
<td>2,939</td>
</tr>
<tr>
<td>Viet Nam (51 of 2023)</td>
<td>1,536</td>
<td>419</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>2,044,211</td>
<td>313,033</td>
</tr>
</tbody>
</table>

Figure 1: Number of specimens positive for influenza by subtype, Western Pacific Region, week 1, 2023 to week 1, 2024 (Source: WHO FLUNET)
Influenza surveillance summary

Influenza surveillance in the WHO Western Pacific Region is based on outpatient and inpatient indicator-based surveillance (IBS) systems, as well as event-based surveillance. Case definitions, population groups included and data formats differ among countries. This influenza surveillance summary includes countries and areas where routine IBS is conducted and information is available.

The WHO surveillance case definition for influenza-like illness (ILI) is an acute respiratory infection with a measured fever of ≥38°C and cough, with symptom onset within the last 10 days. For SARI, it is an acute respiratory infection (ARI) with a history of fever or measured fever of ≥38°C and cough, with symptom onset within 10 days that requires hospitalization.

Sentinel site data should be interpreted with caution since the number of sites reporting may vary between weeks.

Countries in the temperate zone of the Northern Hemisphere

In countries within the temperate zone of the Northern Hemisphere, ILI and influenza activity are similar to the corresponding period from previous years.

Outpatient ILI Surveillance

China (North)

During week 1, sentinel hospitals in the northern provinces reported ILI% of 7.1%, which is higher than the last week (6.7%), higher than the same week of 2021-2023 (2.5%, 4.1% and 2.9%) (Figure 2).

![Figure 2: Percentage of visits for ILI at sentinel hospitals in northern China, 2020-2024 (as of week 1) (Source: China National Influenza Center)](image-url)
Mongolia
There was no update in this reporting period. During week 45 of 2023, the ILI activity in Mongolia increased to 38 ILI cases per 10,000 population. This is above the upper tolerance limit (Figure 3).

Figure 3: Proportion of outpatient ILI visits per 10,000 people in Mongolia, 2021 (from week 16-49)-2023 (as of week 45)
(Source: Mongolia National Influenza Center)

Republic of Korea
In week 1 (31 December 2023 to 6 January 2024), the overall weekly influenza-like illness (ILI) rate was 51.9 per 1,000 outpatient visits, which was higher than the rate recorded in the previous weeks (49.9 in week 52) (Figure 4).

Figure 4: Weekly ILI incidence rate per 1,000 outpatient consultations, Republic of Korea, 2019 (from week 36-52)-2024 (as of week 1)
(Source: Korea Disease Control and Prevention Agency).
Sentinel influenza surveillance

Japan
In week 52 of 2023, the weekly number of cases reported by sentinel hospital sites in Japan slightly decreased compared to the previous week. Overall, the decreasing trend in the number of cases has continued since week 49 (Figure 5).

![Weekly number of influenza cases reported per reporting sentinel hospital site, Japan 2013-2023](Source: Japan National Institute of Infectious Diseases)

Countries/areas in the tropical zone
ILI and influenza activity is similar to the corresponding period from previous years in some of the countries and areas in the tropical zone.

Hong Kong SAR (China) – ILI and hospital Surveillance
The latest surveillance data showed a increase in the overall seasonal influenza activity in the middle of December 2023. In week 1 of 2024, the average consultation rate for influenza-like illness (ILI) among sentinel general outpatient clinics (GOPC) was 10.1 ILI cases per 1,000 consultations, which was higher than 7.4 recorded in the previous week (Figure 6). The average consultation rate for ILI among sentinel private medical practitioner (PMP) clinics was 48.3 ILI cases per 1,000 consultations, which was higher than 35.3 recorded in the previous week (Figure 7).

![ILI consultation rates at sentinel general outpatient clinics, Hong Kong SAR 2020-2024](Source: Hong Kong Centre for Health Protection)

![ILI consultation rates at sentinel private medical practitioner clinics, Hong Kong SAR 2020-2024](Source: Hong Kong Centre for Health Protection)
China (South) - ILI Surveillance
During week 1, the percentage of outpatient or emergency visits for ILI (ILI%) at national sentinel hospitals in southern provinces was 9.7%, lower than the last week (10.2%), higher than the same week in 2021-2023 (3.4%, 4.3% and 3.6%) (Figure 8).

![Figure 8: Percentage of visits due to ILI at national sentinel hospitals in Southern China, 2020-2024](Source: China National Influenza Center)

Singapore – Acute Respiratory Infection (ARI) Surveillance
In week 52 (24 to 30 December), the average daily number of patients seeking treatment in the polyclinics for ARI is 2,467 (over 4.5 working days) (Figure 9). The proportion of patients with influenza-like illness (ILI) among the polyclinic attendances for ARI is 0.3%. The overall positivity rate for influenza among ILI samples (n=1,451) in the community was 12.5% in the past four weeks. Of the 143 specimens tested positive for influenza in November 2023, 89 were positive for Influenza A(H3N2) (62.2%), 36 were positive for Influenza A(pH1N1) (25.2%), and 18 were positive for Influenza B (12.6%) (Figure 10).

![Figure 9: Average daily polyclinic attendances for ARI in Singapore, 2022-2023](Source: Singapore Ministry of Health)

![Figure 10: Monthly influenza surveillance for ARI in Singapore, 2018-2023](Source: Singapore Ministry of Health)
**Lao PDR**

During week 1 (1 to 7 January 2024), the National Center for Laboratory and Epidemiology received data from all sentinel sites in Lao PDR. There have been 14 ILI cases more presenting at sentinel sites compared to the previous week (Figure 11). There were 103 samples tested for influenza in week 1. Influenza A/pdmH1N1 (n=2), Influenza A/H3 (n=6), and Influenza B-Victoria (n=11) were identified.

![Figure 11: Weekly number of ILI cases at sentinel sites (2019 to 2024)](source: Lao National Center for Laboratory and Epidemiology)

**Cambodia**

In week 1 of 2024, the Ministry of Health received data from all seven sentinel sites in Cambodia. The number of ILI cases in Cambodia is remain stable between week 52 of 2023 (184 cases) and week 1 of 2024(162 cases). The positivity rate for week 1 was 20% (Figure 12).

![Figure 12: Number of ILI samples from sentinel sites and influenza positivity rate by the week, of 2022-2024, Cambodia](source: Communicable Disease Control Department, Cambodia Ministry of Health)

**Countries in the temperate zone of the southern hemisphere**

In the temperate zone of the southern hemisphere, influenza activity is reported during the influenza season, usually starting in May in Australia and New Zealand.
**Australia – Laboratory-confirmed influenza**

There is no update for this reporting period. In the year-to-date (1 January to 15 October 2023), there have been 251,095 notifications of laboratory-confirmed influenza reported to the National Notifiable Diseases Surveillance System in Australia. There were 6,037 laboratory-confirmed influenza notifications with a diagnosis date this fortnight (2 October to 15 October 2023), compared to 7,725 notifications in the previous fortnight. The number of notifications of laboratory confirmed influenza has continued to decrease since the peak in July. *(Figure 13)*

![Figure 13: Notifications of laboratory-confirmed influenza by month and week from 2016 to 2023 in Australia](Source: National Notifiable Diseases Surveillance System, Australian Department of Health)

**New Zealand – ILI Surveillance**

There is no update for this reporting period. Indicators of influenza like illness in the community are currently lower than at the same point in 2022. Since the week ending 26 November 2023, the rate of ILI related Healthline calls and percentage of FluTracking participants with fever and cough have remained relatively stable *(Figure 14)*.

![Figure 14: Weekly rates of general practice ILI consultations per 100,000 people in New Zealand in 2015-2023](Source: New Zealand Institute of Environmental Science and Research)
**Pacific Island Countries and Areas (PICs) - ILI Surveillance**

In week 1 (1 to 7 January), 18 out of 21 PICs reported ILI surveillance data. No reports are available for American Samoa, Guam, and Nauru. Countries observed a stable or decreased ILI trend compared to the past week. (Figure 15).

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![Graph of Cook Islands ILI Trend 2019-2024 (WK 1)](image1)

![Graph of Fiji ILI Trend 2019-2024 (WK 1)](image2)

![Graph of French Polynesia ILI Trend 2019-2023 (WK 52)](image3)

![Graph of FSM ILI Trend 2019-2023 (WK43)](image4)

![Graph of Kiribati ILI Trend 2019-2024 (WK1)](image5)

![Graph of Marshall Islands ILI Trend 2019-2024 (WK 1)](image6)
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, CMNI: Commonwealth of Northern Mariana Islands

**Figure 15: Reported cases of influenza-like illness in Pacific Island Countries, 2019-2024**
(Source: Pacific Syndromic Surveillance System Weekly Bulletin)
Global influenza situation updates

Virological update

Global update

Others:

- Recommended composition of influenza virus vaccines for use in the 2023-2024 northern hemisphere influenza season [Link]
- New recommended composition of influenza virus vaccines for use in the 2023 southern hemisphere influenza season [Link]
- Recommended composition of influenza virus vaccines for use in the 2024 southern hemisphere influenza season [Link]
- WHO Consultation on the Composition of Influenza Virus Vaccines for Use in the 2023 Southern Hemisphere Influenza Season 19-22 September 2022 [Link]
- WHO issues updated influenza vaccines position paper [Link]

WHO's YouTube Channel: film exploring a number of key aspects of the constant evolution of influenza viruses and associated impacts on public health. [Arabic], [Chinese], [English], [French], [Russian], [Spanish]