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 and week 8 of 2023 are presented in Table 1 below. Influenza A and B are co-circulating, however, the majority of cases reported to week 8 of 2023 have been Influenza A(H1N1)pdm09 (Figure 1). Caution should be taken when interpreting these data as there are reporting delays.

Table 1: Cumulative data reported to FluNet from Western Pacific Region, week 1, 2023 to week 8 2023

<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 (7 of 2023)</td>
<td>14,901</td>
<td>192</td>
</tr>
<tr>
<td>Cambodia (6 of 2023)</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>China (7 of 2023)</td>
<td>78,838</td>
<td>21,313</td>
</tr>
<tr>
<td>Fiji (3 of 2023)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Japan (6 of 2023)</td>
<td>-</td>
<td>154</td>
</tr>
<tr>
<td>Lao People’s Democratic Republic (7 of 2023)</td>
<td>449</td>
<td>11</td>
</tr>
<tr>
<td>Malaysia (7 of 2023)</td>
<td>3,595</td>
<td>855</td>
</tr>
<tr>
<td>Mongolia (6 of 2023)</td>
<td>1,454</td>
<td>3,298</td>
</tr>
<tr>
<td>New Caledonia</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>New Zealand</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Papua New Guinea</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Philippines (6 of 2023)</td>
<td>133</td>
<td>14</td>
</tr>
<tr>
<td>Republic of Korea (5 of 2023)</td>
<td>1,048</td>
<td>73</td>
</tr>
<tr>
<td>Singapore (7 of 2023)</td>
<td>959</td>
<td>223</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Figure 1: Number of specimens positive for influenza by subtype, Western Pacific Region, Week 8 2022 to week 8, 2023 (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 8 of 2023, sentinel hospitals in the northern provinces reported an ILI% of 4.4%, higher than the previous week of 1.9% and lower than the same week in 2020 (4.4%) and higher than the same week of 2021-2022 (1.6%, 1.9%) (Figure 2).

![Figure 2: Percentage of visits for ILI at sentinel hospitals in Northern China, 2019-2023](Source: China National Influenza Center)

**Mongolia**

During week 8 of 2023, the ILI activity in Mongolia decreased to 57 ILI cases per 10,000 population. This is higher than the upper tolerance limit (Figure 3).
**Republic of Korea**

In week 9 of 2023, the overall weekly ILI rate was 11.9 ILI cases per 1,000 outpatient visits, which is lower than the previous week (15 per 1,000 outpatients) (Figure 4).

![Figure 3: Proportion of outpatient ILI visits per 10,000 people in Mongolia, 2020-2023](Source: Mongolia National Influenza Center)

![Figure 4: Weekly ILI incidence rate per 1,000 outpatient consultations, Republic of Korea, 2018-2023](Source: Korean Centres for Disease Control and Prevention)
Sentinel influenza surveillance

Japan
In week 10 of 2023, the number of cases reported weekly by sentinel hospital sites remained very low in Japan. The number of cases in 2022 was consistently low (Figure 5).

Influenza cases reported per sentinel weekly [定点当たり報告数]

Figure 5: Number of influenza cases reported weekly 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 that the overall seasonal influenza activity in Hong Kong remained low. In week 9, the average consultation rate for influenza-like illness (ILI) among sentinel general outpatient clinics (GOPC) was 1.3 ILI cases per 1,000 consultations, which was higher than the 0.8 recorded in the previous week (Figure 6). The average consultation rate for ILI among sentinel private medical practitioner (PMP) clinics was 20.9 ILI cases per 1,000 consultations, which was lower than the 25.7 recorded in the previous week (Figure 7).
China (South) - ILI Surveillance
During week 8 of 2023, the percentage of visits for ILI at national sentinel hospitals in Southern China was 3.9%, higher than the last week (1.8%) and lower than the same week of 2020-2022 (3.7%, 2.2% and 3.1%) (Figure 8).

Singapore – Acute Respiratory Infection (ARI) Surveillance
In week 9 of 2023, the average daily number of patients seeking treatment in the polyclinics for ARI is 2,535 (over 5.5 working days) (Figure 9). The proportion of patients with influenza-like illness (ILI) among the polyclinic attendances for ARI is 0.5%. Of 959 samples tested for influenza in the past four weeks, the positivity rate in the community was 23.4%. Of the 198 specimens that tested positive for influenza in January 2023, 127 were positive for Influenza A(H3N2) (64%), 23 were positive for Influenza A(H1N1) pdm09 (12%) and 48 were positive for Influenza B (24%) (Figure 10).
Lao PDR
During week 8 of 2023, the National Center for Laboratory and Epidemiology received data from all seven sentinel sites in Lao PDR. The number of ILI cases presenting at sentinel sites was 10 cases higher than the previous week. There were 128 samples tested for influenza in week 8, 2023. Influenza Flu B Vic was identified (n=1) (Figure 11).

Cambodia
In week 9 of 2023, the Ministry of Health received data from all seven sentinel sites in Cambodia. The number of ILI cases in Cambodia slightly increased in week 9 of 2023 (166 cases) compared to week 8 of 2023 (152 cases). The influenza positivity rate increased slightly in week 9 of 2023 (16.67%) compared to the influenza positivity rate in week 6 of 2023 (6.7%) (Figure 12).
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

In the year to 13 November 2022, there have been 227,359 notifications reported to the National Notifiable Diseases Surveillance System in Australia. Of these, 824 notifications had a diagnosis date in the latest reported fortnight (31 October 2022 - 13 November 2022). This is higher than the number of notifications with a diagnosis date in the previous fortnight (778). The weekly number of notifications of laboratory-confirmed influenza in 2022 has decreased to below the weekly 5-year average since mid-July (Figure 13).

New Zealand – Influenza like Illness

In the four weeks to 25 November 2022, the influenza like illness (ILI) general practitioner consultation rate declined (Figure 14). GP consultation rates remain lower than the historical rate for this time of
year. Rates were highest in Counties Manukau, which were higher than observed historically, though showed a decrease throughout the month.

Figure 14: Weekly rates of general practice ILI consultations per 100,000 people in New Zealand in 2020-2022
(Source: New Zealand Institute of Environmental Science and Research)

Pacific Island Countries and Areas (PICs) - ILI Surveillance
In week 9 of 2023, 18 out of 21 PICs reported ILI surveillance data. No reports are available for American Samoa, Guam, and Nauru. The following countries reported increased influenza-like illness activity, compared with the same weeks in 2022: Cook Islands, Federated States of Micronesia, Kiribati, Republic of Marshall Islands, Commonwealth of the Northern Mariana Islands, Samoa, Tonga (Influenza B outbreak is ongoing), Vanuatu and Wallis and Futuna. (Figure 15).
Global influenza situation updates

Virological update

Global update

Others:

- 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 2022-2023 northern 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]