Taiwan CDC

2023-2024 Influenza Season

Week 10. March 3 - 9. 2024

Synopsis

The number of outpatient and emergency department (ER) visits for influenza-like illness (ILI) has slightly decreased. However, it is still higher than that of the same period in the past six years. In the community, the predominant influenza strain is A/H3N2. The number of influenza cases with severe complications continues to be high, and the risk of severe illness should be noted.

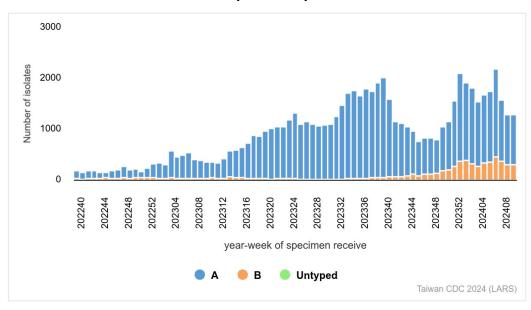
- The number of outpatient and ER visits for ILI has slightly decreased. However, it is still higher than that of the same period in the past six years.
- During the last four weeks, A/H3N2 has been the predominant influenza strain circulating in the community, followed by influenza B.
- During 2023-2024 influenza season (since October 1, 2023), there have been 617 influenza cases with severe complications, of which 107 cases were fatal.

Laboratory Surveillance¹

Laboratory Automated Reporting System (LARS)

The number of influenza-positive specimens was similar to the previous week. Over the last four weeks, influenza A positive specimens accounted for 77%, and influenza B positive specimens accounted for 23%. Data are available at https://nidss.cdc.gov.tw/.

Numbers of influenza-positive specimens from LARS



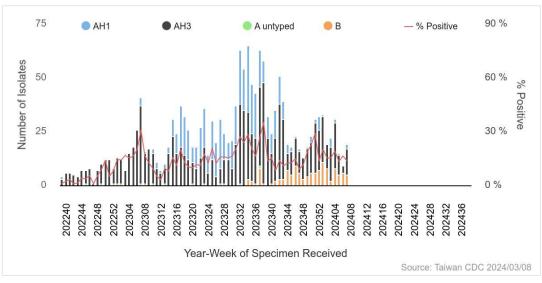
¹ In terms of the surveillance systems in Taiwan, please see: Jian, S. W., Chen, C. M., Lee, C. Y., & Liu, D. P. (2017). Real-Time Surveillance of Infectious Diseases: Taiwan's Experience. Health security, 15(2), 144-153.



Contracted Virology Laboratories Surveillance

During week 5 to 8, 2024, the predominant isolated influenza virus was A/H3N2 (60.8%), followed by influenza B (32.4%) and A/H1N1 (6.8%). The proportion of influenza B has slightly increased recently. Data are available at https://nidss.cdc.gov.tw/.

Influenza isolates according to Contracted Virology Laboratories



Antigenicity

During the 2023-2024 influenza season (since Oct 1, 2023), 76 of 78 influenza A/H1N1 viruses (97.4%) were antigenically similar to the vaccine reference strain A/Victoria/4897/2022 (H1N1)pdm09, 214 of 219 influenza A/H3N2 viruses (97.7%) were antigenically similar to the vaccine reference strain A/Darwin/9/2021 (H3N2), and 66 of 66 influenza B/Victoria viruses (100%) were antigenically similar to the vaccine reference strain B/Austria/1359417/2021 (B/Victoria lineage).

WHO recommended vaccine strains for the northern hemisphere in the 2023-2024 influenza season	Vaccine-like (%)	Low reactor (%)
A/Victoria/4897/2022 (H1N1)pdm09-like virus	76 (97.4%)	2 (2.6%)
A/Darwin/9/2021 (H3N2)-like virus	214 (97.7%)	5 (2.3%)
B/Austria/1359417/2021 (B/Victoria lineage)-like virus	66 (100%)	0 (0.0%)

Note: The hemagglutination inhibition (HI) method was used to investigate the antigenicity, and the titer of the isolated virus was at least 8-fold lower than that of the reference virus, identifying it as a low reactor.

Antiviral Resistance

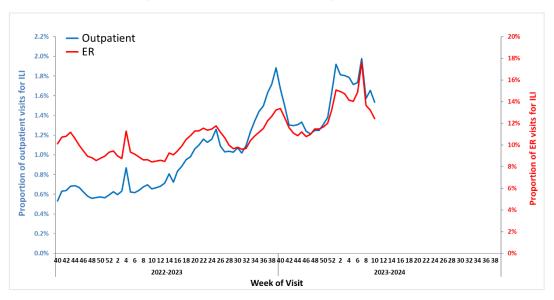
The table below summarizes the antiviral resistance to neuraminidase inhibitor (Oseltamivir) of the isolates during the 2023-2024 influenza season.

	No. of isolates tested	Resistance Viruses, n (%)
A (H1N1)	77	0 (0%)
A (H3N2)	285 0 (0%)	
В	86	0 (0%)

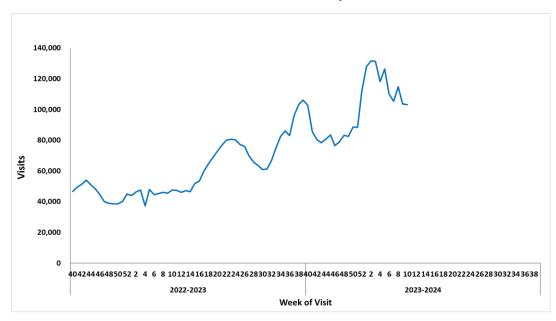
Influenza-like Illness (ILI) Surveillance

During week 10, the proportions of ILI visits were 1.5% in outpatient and 12.4% in the ER, with the latter percentage remaining above the threshold of 11.0%. The total number of visits for ILI was 103,041, which has slightly decreased but is still the highest of the same period in the past six years. Data are available at https://nidss.cdc.gov.tw/.

Proportions of ILI visits in outpatient and ER



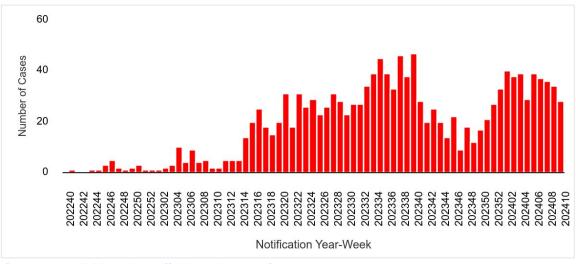
Total number of ILI visits in outpatient and ER



Influenza Case with Severe Complications

There were 31 newly confirmed influenza cases with severe complications (5 of H1N1, 21 of H3N2, 1 of untyped influenza A, and 4 of influenza B), and 8 fatal cases (1 of H1N1, 5 of H3N2, and 2 of influenza B). During 2023-2024 influenza season, a total of 617 influenza cases with severe complications (172 of H1N1, 394 of H3N2, 7 of untyped influenza A, and 44 of influenza B) were confirmed, of which 107 cases were fatal (33 of H1N1, 65 of H3N2, 2 of untyped influenza A, and 7 of influenza B).

Notification trend of confirmed influenza cases with severe complications



Data are available at https://nidss.cdc.gov.tw/.

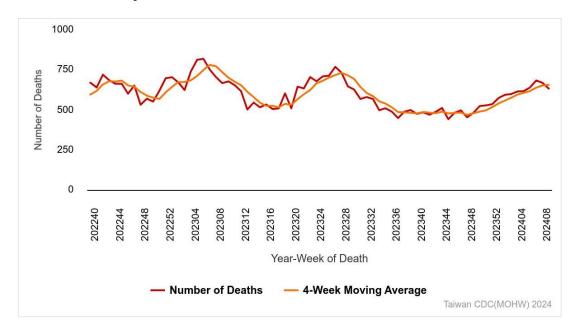
Incidence of influenza cases with severe complications and mortality rate during 2023-2024 influenza season

Age Group	Cases	Deaths	Cumulative incidence per 100,000 population	Cumulative mortality per 100,000 population
< 3 y	5	1	1.13	0.23
3-6 y	14	1	1.88	0.13
7-18 y	30	1	1.23	0.04
19-24 y	3	1	0.19	0.06
25-49 y	95	12	1.09	0.14
50-64 y	114	14	2.15	0.26
65 +	356	77	8.50	1.84
Total	617	107	2.64	0.46

Pneumonia and Influenza (P&I) Mortality Surveillance

Based on the Internet System for Death Reporting (ISDR)² data, the number of deaths attributed to pneumonia and influenza (P&I) has increased recently. The proportion of deaths attributed to P&I for adults aged 65 and older was the highest among the three age groups (0-49, 50-64, and 65+). Weekly data are available at https://nidss.cdc.gov.tw/.

Weekly Number of Deaths from Pneumonia and Influenza



² Medical institutions are required to report any mortality case to the Ministry of Health and Welfare (MOHW) within 7 days after a death certificate is issued through the Internet System for Death Reporting (ISDR). Either the immediate cause of death or the underlying cause of death was used to identify P&I death cases. Only those with keyword texts containing 'pneumonia', 'influenza' or 'common cold' were counted as a P&I death.



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