



Chinese Weekly Influenza Surveillance Report

April 29 to May 5, 2024 (Week 18)

(All data are preliminary and may change as more reports are received)

Summary

- Influenza detections were the same as last week in the southern provinces and were decreasing in the northern provinces this week, A(H1N1)pdm09 was predominated, followed by B/Victoria and A(H3N2). There was no ILI outbreak reported in week 18.
- Among influenza viruses antigenically characterized by CNIC since October 2, 2023, 242(95.7%) influenza A(H1N1)pdm09 viruses were characterized as A/Victoria/4897/2022-like; 868(37.9%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 812(35.4%) influenza A(H3N2) viruses were characterized as A/Darwin/6/2021(cell)-like; 2106(99.0%) influenza B/Victoria viruses were characterized as B/Austria/1359417/2021-like.
- Among the influenza viruses tested by CNIC for antiviral resistance analysis since October 2, 2023, all but 1 influenza A(H1N1)pdm09 were sensitive to neuraminidase inhibitors, all A(H3N2) and B viruses were sensitive to neuraminidase inhibitors; all A(H1N1)pdm09, A(H3N2) and B viruses were sensitive to endonuclease inhibitors.

Surveillance of outpatient or emergency visits for Influenza-like Illness (ILI)

During week 18, the percentage of outpatient or emergency visits for ILI (ILI%) at national sentinel hospitals in southern provinces was 5.0%, higher than the last week (4.7%), higher than the same week of 2021 ~ 2022(3.8% and 3.2%), lower than the same week of 2023(6.3%). (Figure 1)

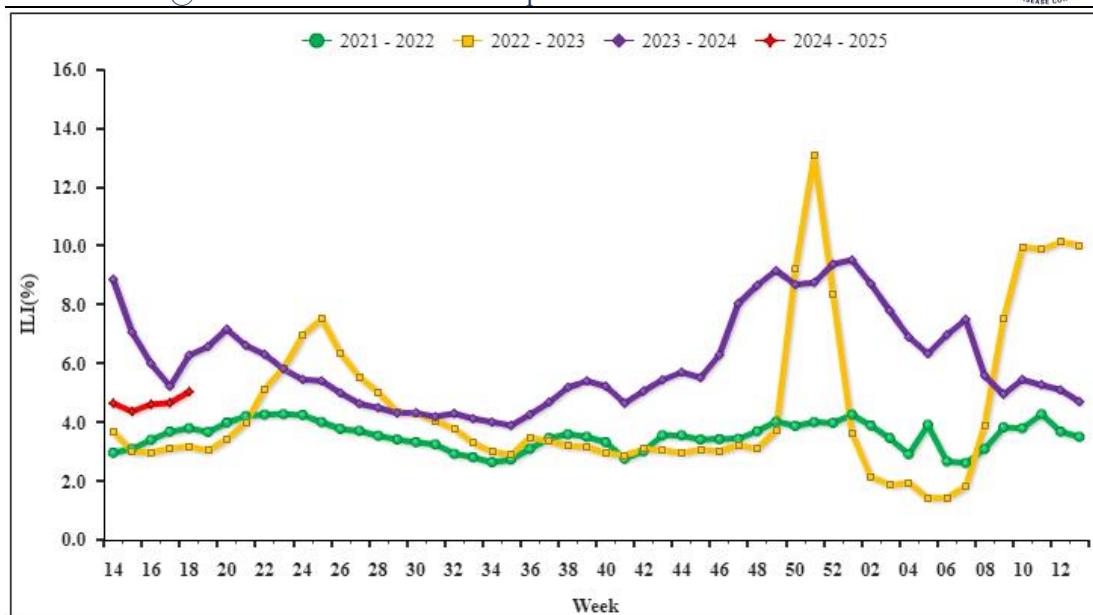


Figure 1. Percentage of Visits for ILI at Sentinel Hospitals in Southern Provinces

Note: Analysis in this part was based on data from sentinel hospitals belong to national influenza surveillance network.

During week 18, ILI% at national sentinel hospitals in northern provinces was 3.8%, higher than the last week (3.6%), higher than the same week of 2021~2023(2.8%, 1.5% and 3.5%). (Figure 2)

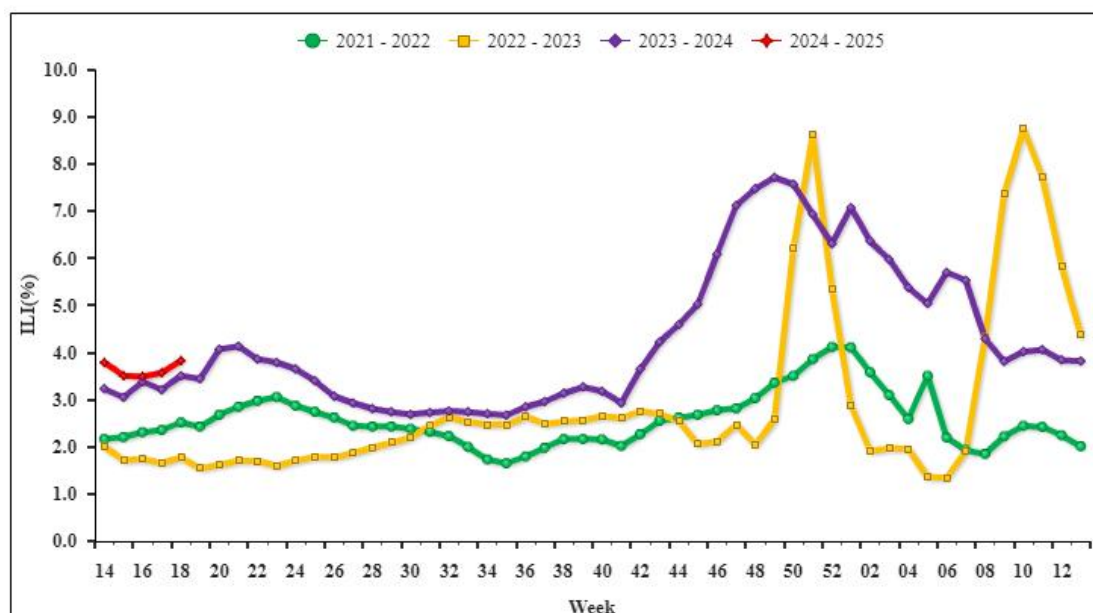


Figure 2. Percentage of Visits for ILI at Sentinel Hospitals in Northern Provinces

Note: Analysis in this part was based on data from sentinel hospitals belong to national influenza surveillance network.



Virologic Surveillance

During week 18, influenza network laboratories tested 7780 specimens, there were 545 positive detections for influenza. The number and proportion of influenza types and subtypes detected in southern and northern provinces were shown in Table 1.

Table 1 Laboratory Detections of ILI Specimens (Week 18, 2024)

	Week 18		
	Southern provinces	Northern provinces	Total
No. of specimens tested	4474	3306	7780
No. of positive specimens (%)	400(8.9%)	145(4.4%)	545(7.0%)
Influenza A	355(88.8%)	119(82.1%)	474(87.0%)
A(H1N1)pdm09	321(90.4%)	106(89.1%)	427(90.1%)
A(H3N2)	34(9.6%)	13(10.9%)	47(9.9%)
A (subtype not determined)	0	0	0
Influenza B	45(11.3%)	26(17.9%)	71(13.0%)
B (lineage not determined)	0	0	0
Victoria	45(100%)	26(100%)	71(100%)
Yamagata	0	0	0

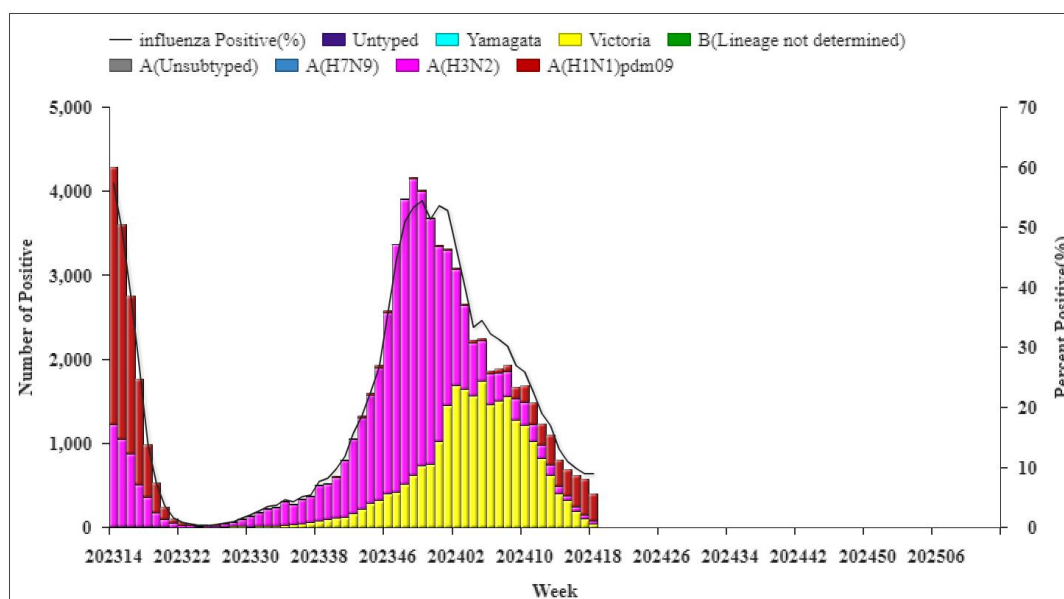


Figure 3. Influenza Positive Tests Reported by Southern Network Laboratories (Week 14, 2023–Week 13, 2025)

Note: Analysis in this part was based on the test results of network laboratories. If it were not consistent with the results of CNIC confirmation, the results of CNIC confirmation were used.

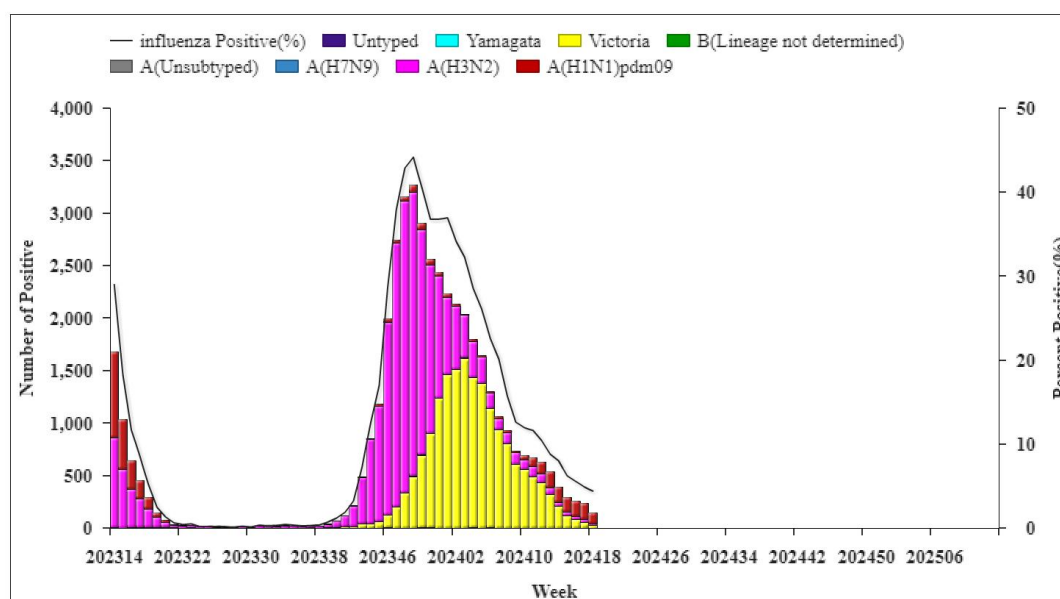


Figure 4. Influenza Positive Tests Reported by Northern Network Laboratories (Week 14, 2023–Week 13, 2025)

Note: Analysis in this part was based on the result of network laboratories. If it were not consistent with the results of CNIC confirmation, the results of CNIC confirmation were used.



Antigenic Characterization

Since October 2, 2023, 242(95.7%) influenza A(H1N1)pdm09 viruses were characterized as A/Victoria/4897/2022-like; 868(37.9%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 812(35.4%) influenza A(H3N2) viruses were characterized as A/Darwin/6/2021(cell)-like; 2106(99.0%) influenza B/Victoria viruses were characterized as B/Austria/1359417/2021-like.

Antiviral Resistance

Since October 2, 2023, among the influenza viruses tested by CNIC for antiviral resistance, all but 1 influenza A(H1N1)pdm09 were sensitive to neuraminidase inhibitors, all A(H3N2) and B viruses were sensitive to neuraminidase inhibitors; all A(H1N1)pdm09, A(H3N2) and B viruses were sensitive to endonuclease inhibitors.

Outbreak Surveillance

During week 18, there was no ILI outbreak reported nationwide.