



Chinese Weekly Influenza Surveillance Report

May 13 to May 19, 2024 (Week 20)

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

Summary

- Influenza detections were similar to 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 were 13 ILI outbreaks reported in week 20.
- 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; 872(35.2%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 861(34.8%) 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 20, the percentage of outpatient or emergency visits for ILI (ILI%) at national sentinel hospitals in southern provinces was 5.1%, higher than the last week (5.0%), higher than the same week of 2021 ~ 2022(3.0% and 3.4%), lower than the same week of 2023(7.2%). (Figure 1)

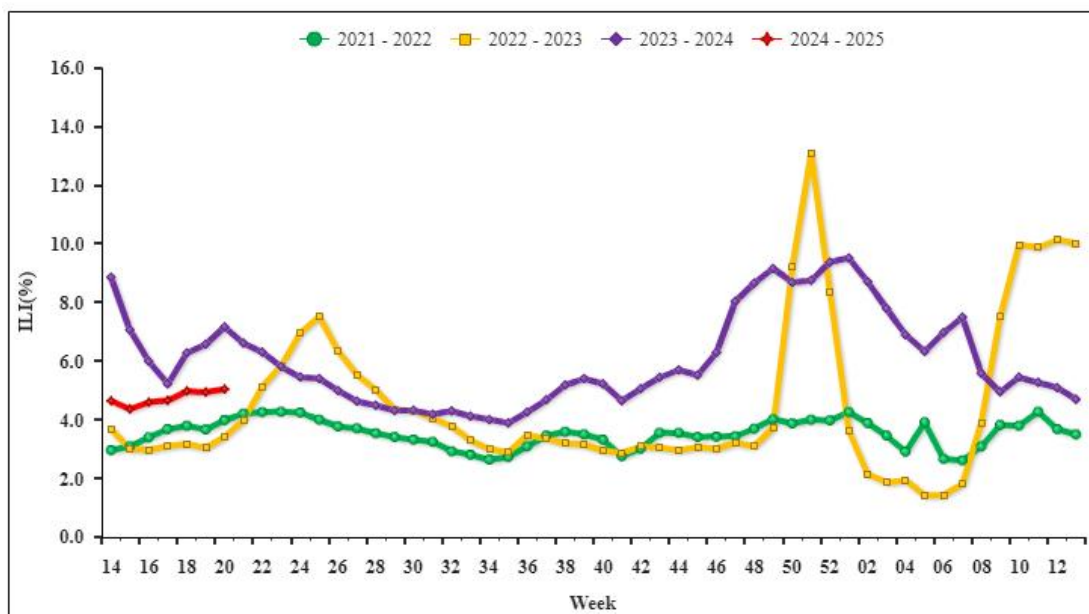


Figure 1. Percentage of Visits for ILI at Sentinel Hospitals in Southern Provinces

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

During week 20, ILI% at national sentinel hospitals in northern provinces was 4.0%, higher than the last week (3.6%), higher than the same week of 2021~2022(2.7% and 1.6%), lower than the same week of 2023(4.1%). (Figure 2)

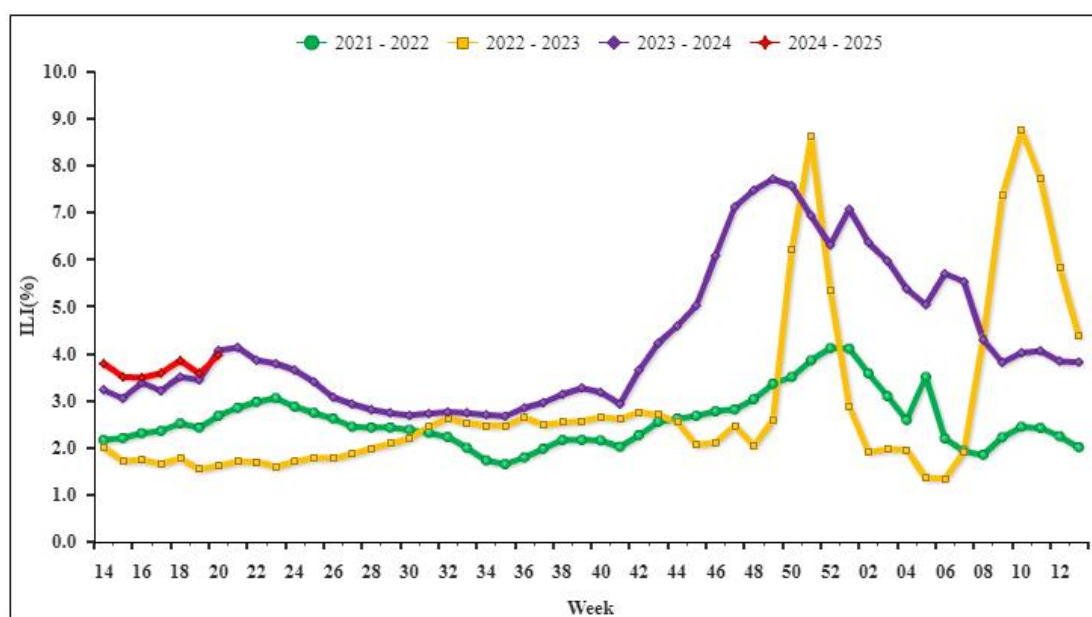


Figure 2. Percentage of Visits for ILI at Sentinel Hospitals in Northern Provinces

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



Virologic Surveillance

During week 20, influenza network laboratories tested 9520 specimens, there were 669 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 20, 2024)

	Week 20		
	Southern provinces	Northern provinces	Total
No. of specimens tested	5513	4007	9520
No. of positive specimens (%)	563(10.2%)	106(2.6%)	669(7.0%)
Influenza A	526(93.4%)	96(90.6%)	622(93.0%)
A(H1N1)pdm09	486(92.4%)	89(92.7%)	575(92.4%)
A(H3N2)	40(7.6%)	7(7.3%)	47(7.6%)
A (subtype not determined)	0	0	0
Influenza B	37(6.6%)	10(9.4%)	47(7.0%)
B (lineage not determined)	0	0	0
Victoria	37(100%)	10(100%)	47(100%)
Yamagata	0	0	0

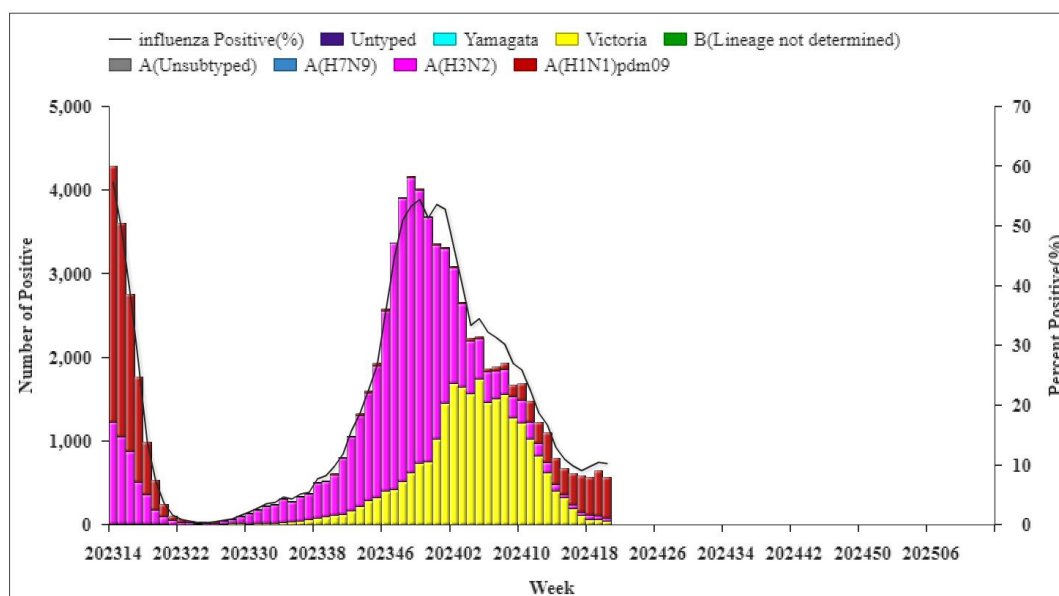


Figure 3. Influenza Positive Tests Reported by Southern Network Laboratories (Week 14, 2023–Week 13, 2025)

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.

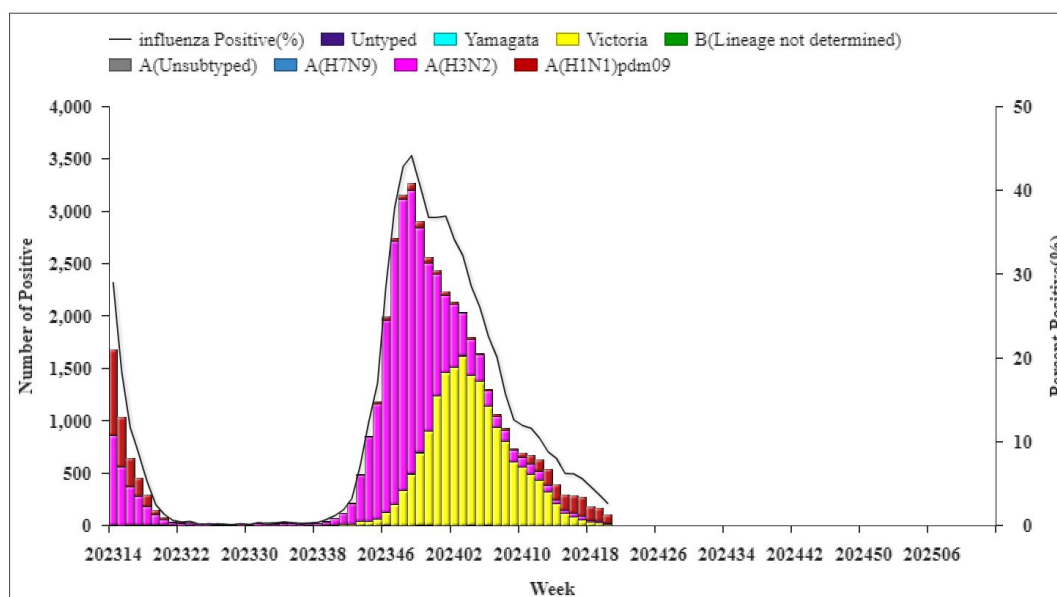


Figure 4. Influenza Positive Tests Reported by Northern Network Laboratories (Week 14, 2023–Week 13, 2025)

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; 872(35.2%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 861(34.8%) 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 20, there were 13 ILI outbreaks reported nationwide. Among them, 6 were A(H1N1)pdm09, 2 were A(H3N2), 3 were negative for flu, 2 had not obtained the testing results.