



Chinese Weekly Influenza Surveillance Report

January 29 to February 5, 2023 (Week 5)

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

Summary

- ILI% was at low level in both southern provinces and northern provinces. Influenza detections were at low level in this week. A(H3N2) is dominated. A(H1N1)pdm09 was reported in some provinces.
- Among influenza viruses antigenically characterized by CNIC since April 4, 2022, 717(78.4%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 588(64.3%) influenza A(H3N2) viruses were characterized as A/Darwin/6/2021(cell)-like, 752(92.6%) influenza B/Victoria viruses were characterized as B/Austria/1359417/2021-like.
- Among the influenza viruses tested by CNIC for antiviral resistance analysis since April 4, 2022, all influenza A(H3N2) and B viruses were sensitive to neuraminidase inhibitors and endonuclease inhibitors.

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

During week 5, the percentage of outpatient or emergency visits for ILI (ILI%) at national sentinel hospitals in southern provinces was 1.4%, lower than the last week (1.9%) and lower than the same week of 2020~2022(8.2%, 2.5% and 3.9%). (Figure 1)

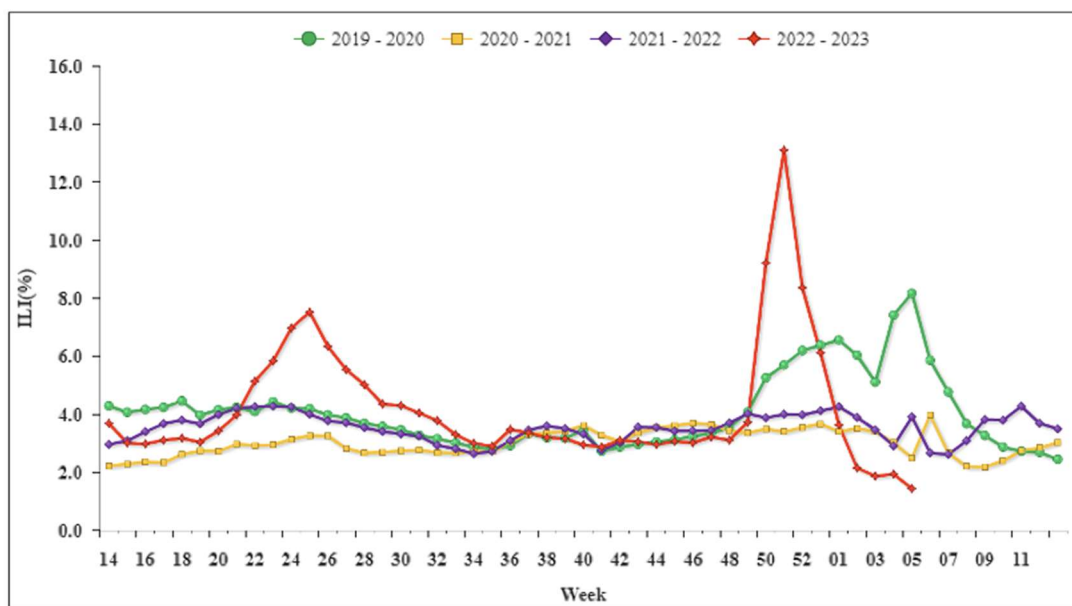


Figure 1. Percentage of Visits for ILI at Sentinel Hospitals in Southern Provinces

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

During week 5, ILI% at national sentinel hospitals in northern provinces was 1.4%, lower than the last week (2.0%) and lower than the same week of 2020~2022(8.4%, 2.0% and 3.5%). (Figure 2)

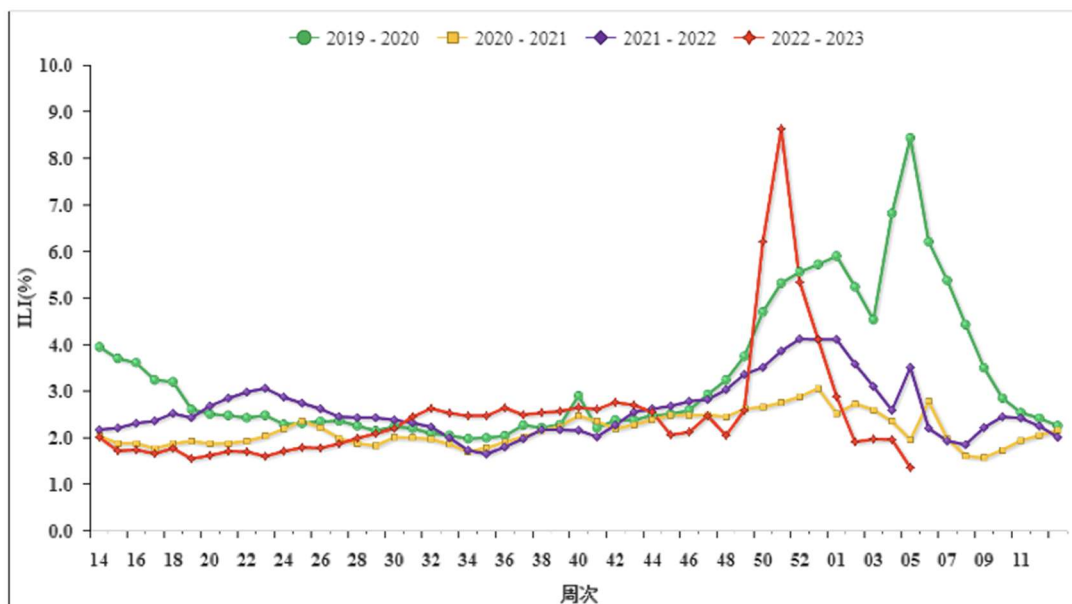


Figure 2. Percentage of Visits for ILI at Sentinel Hospitals in Northern Provinces

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



Virologic Surveillance

During week 5, influenza network laboratories tested 9001 specimens, there were 50 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 5, 2023)

| | Week 5 | | |
|--------------------------------------|--------------------|--------------------|------------------|
| | Southern provinces | Northern provinces | Total |
| No. of specimens tested | 4450 | 4551 | 9001 |
| No. of positive specimens (%) | 18(0.4%) | 32(0.7%) | 50(0.6%) |
| Influenza A | 14(77.8%) | 32(100%) | 46(92.0%) |
| A(H3N2) | 9(64.3%) | 24(75.0%) | 33(71.7%) |
| A(H1N1)pdm09 | 5(35.7%) | 8(25.0%) | 13(28.3%) |
| A (subtype not determined) | 0 | 0 | 0 |
| Influenza B | 4(22.2%) | 0 | 4(8.0%) |
| B (lineage not determined) | 0 | 0 | 0 |
| Victoria | 4(100%) | 0 | 4(100%) |
| Yamagata | 0 | 0 | 0 |

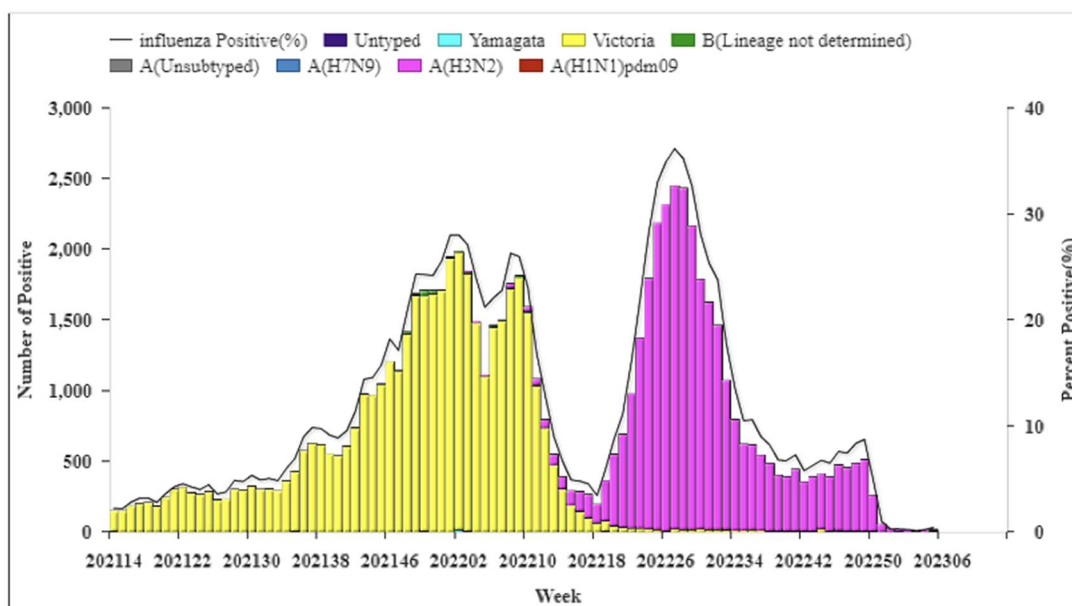


Figure 3. Influenza Positive Tests Reported by Southern Network Laboratories (Week 14, 2021–Week 13, 2023)

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.

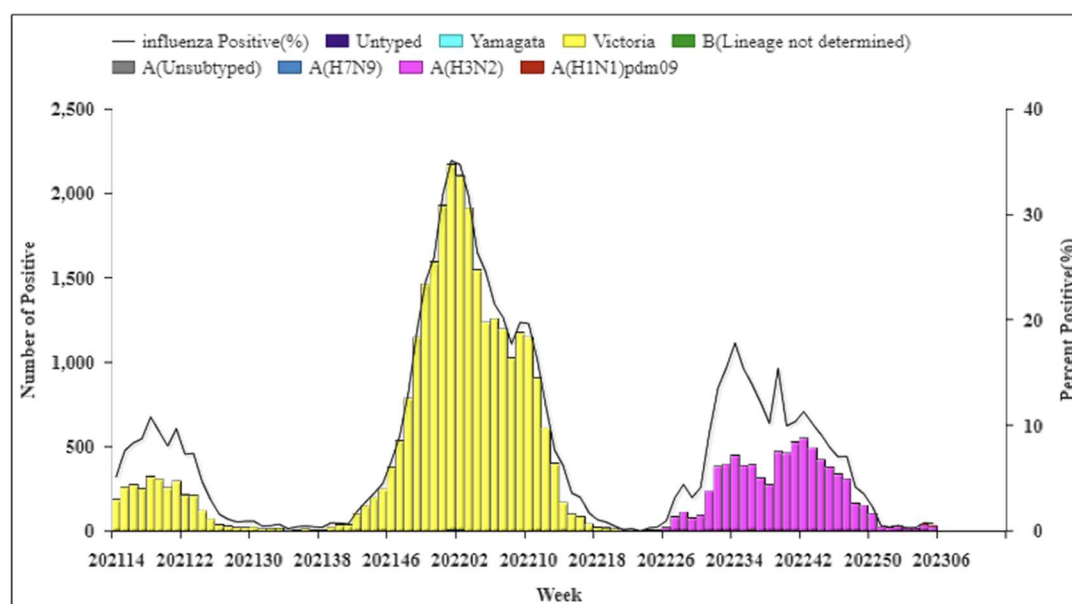


Figure 4. Influenza Positive Tests Reported by Northern Network Laboratories (Week 14, 2021–Week 13, 2023)

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 April 4, 2022, 717(78.4%) influenza A(H3N2) viruses were characterized as A/Darwin/9/2021(egg)-like, 588(64.3%) influenza A(H3N2) viruses were characterized as A/Darwin/6/2021(cell)-like, 752(92.6%) influenza B/Victoria viruses were characterized as B/Austria/1359417/2021-like.

Antiviral Resistance

Since April 4, 2022, among the influenza viruses tested by CNIC for antiviral resistance, all influenza A(H3N2) and B viruses were sensitive to neuraminidase inhibitors and endonuclease inhibitors.

Outbreak Surveillance

During week 5, there was no ILI outbreak reported nationwide.