

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 47, Ending November 26, 2022

Wisconsin Department of Health Services | Division of Public Health
Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

www.dhs.wisconsin.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov



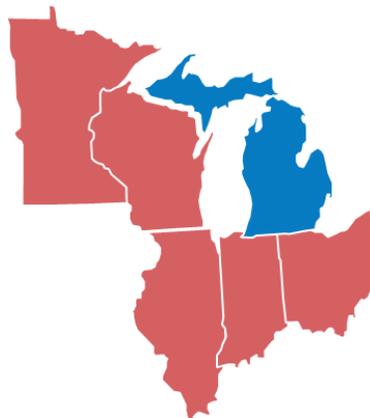


INFLUENZA-LIKE ILLNESS (ILI) ACTIVITY

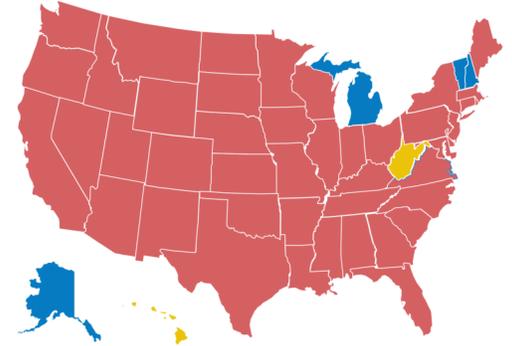
STATE OF WISCONSIN



REGION V OF US (WI, MN, IL, MI, OH, IN)



UNITED STATES



● ILI: HIGH LEVELS ● ILI: MODERATE LEVELS ● ILI: BELOW BASELINE ● ILI: INSUFFICIENT DATA

AT-A-GLANCE:

Predominant Viruses of the Week:

Influenza A is the predominant virus this week.

Current Alerts:

- Influenza A activity continues to increase significantly for the third consecutive week. The laboratory percent positive increased from 14% to 25% this week.
- RSV and rhinovirus/enterovirus activity are decreasing although overall activity remains high.
- Additional data on SARS-CoV-2 (the virus causing COVID-19) trends in Wisconsin can be found at: <https://www.dhs.wisconsin.gov/covid-19/data.htm>

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

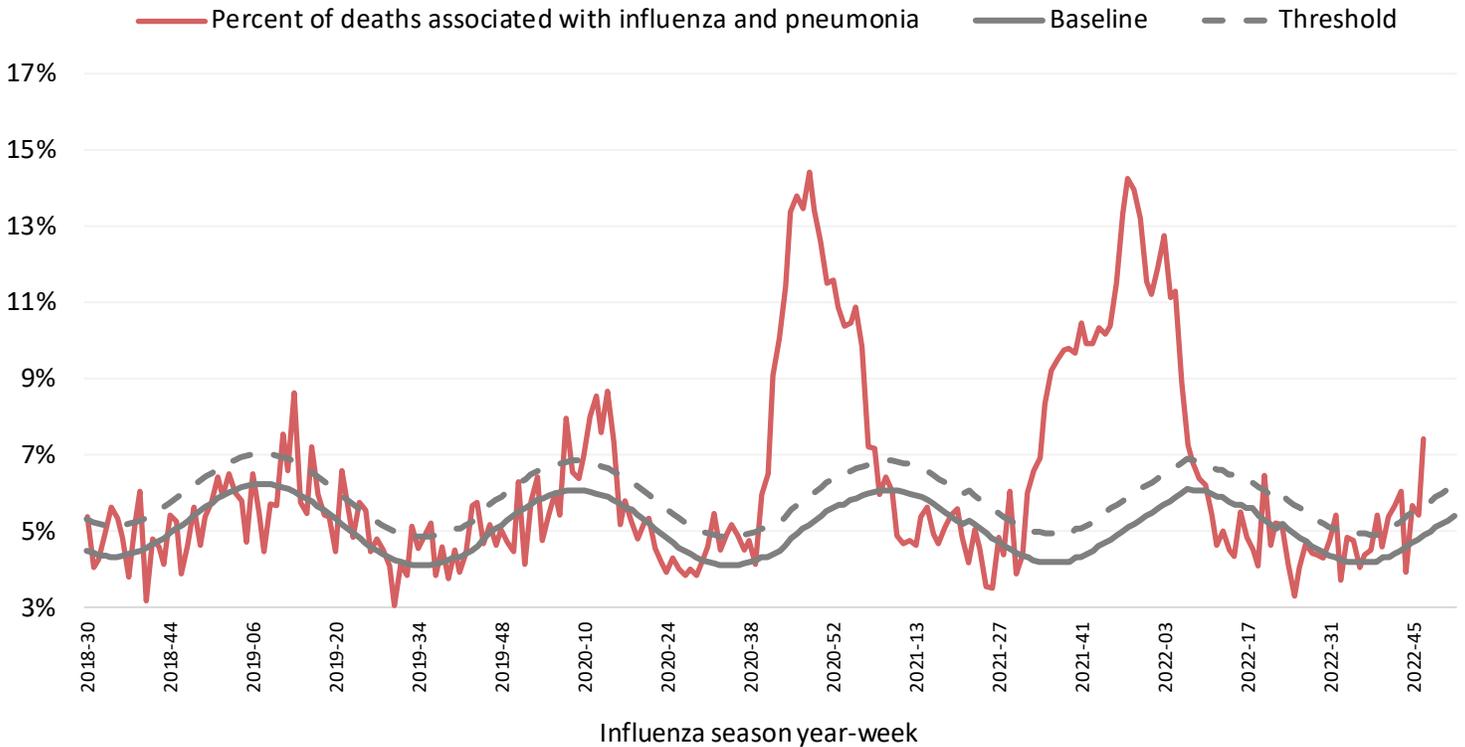
| | Week 47, 2022 | October 1, 2021 to present |
|-------------------|---------------|----------------------------|
| Wisconsin | 0 | 0 |
| Nationwide | 2 | 14 |

For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/

INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin



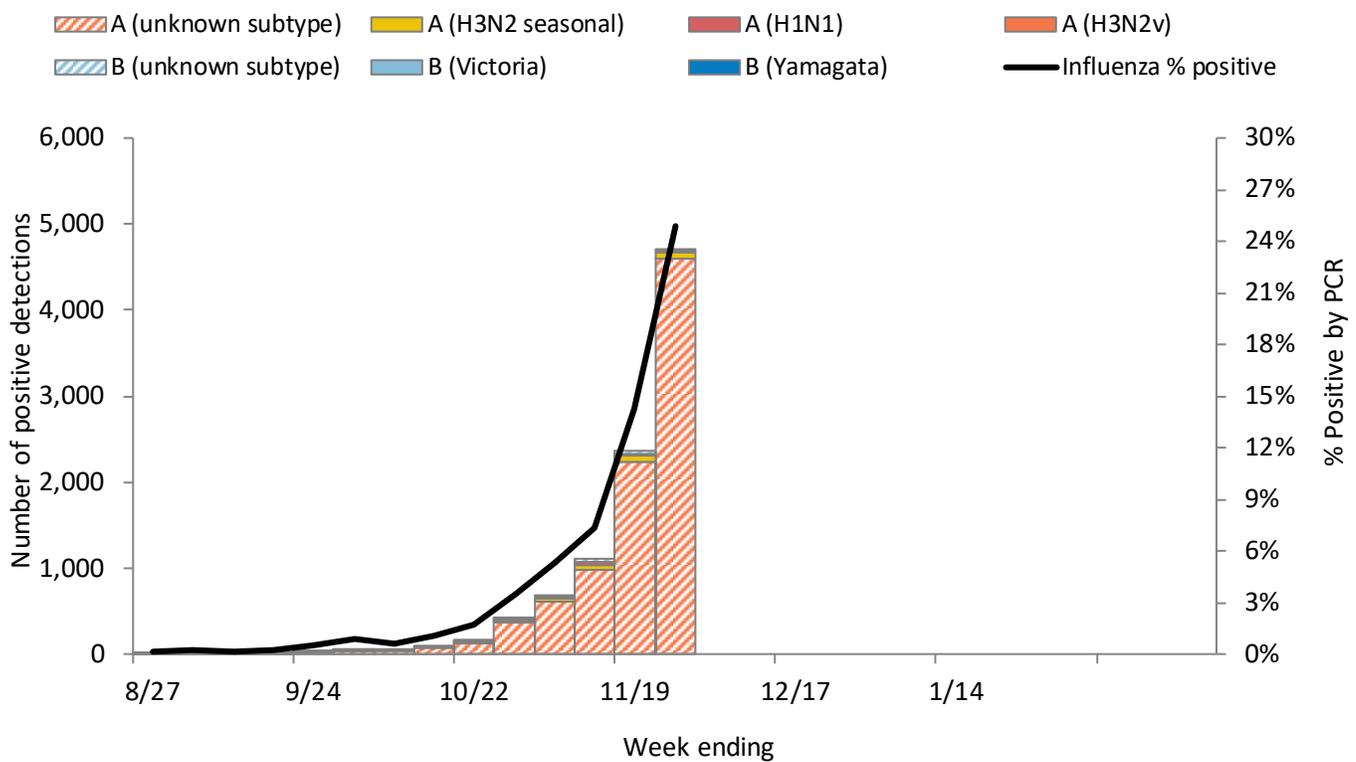
Influenza- and pneumonia-associated deaths by most recent 3 week period.

| Influenza season week | Influenza-associated deaths (I) | Pneumonia-associated deaths (P) | Percent I+P of all deaths | Baseline I+P of all deaths | Threshold I+P of all deaths |
|------------------------|---------------------------------|---------------------------------|---------------------------|----------------------------|-----------------------------|
| 45 | 2 | 64 | 5.7% | 4.7% | 6.1% |
| 46 | 0 | 59 | 5.4% | 4.8% | 6.2% |
| 47 Preliminary Data | 1 | 60 | 7.4% | 4.9% | 6.3% |

Data source: [DPH, Office of Health Informatics](#)

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

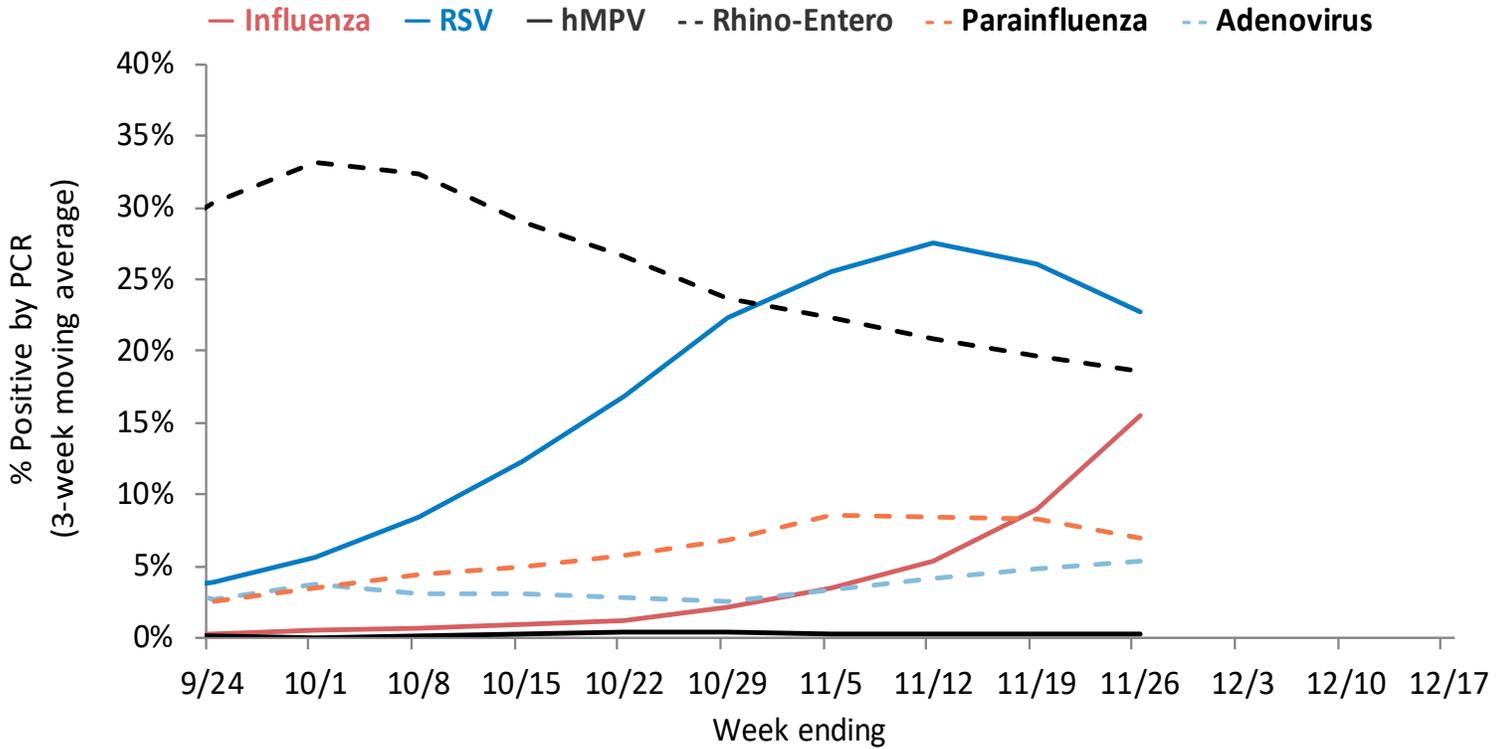
Wisconsin positive influenza results and subtypes by PCR



Cumulative number of positive influenza PCR tests by subtype October 1, 2022 to present

| | A (2009 H1N1) | Influenza A: A (H3N2) | Influenza A: 98% A (Unknown) | B (Victoria) | Influenza B: B (Yamagata) | Influenza B: 2% B (Unknown) | Total |
|---------------------|---------------|--------------------------|------------------------------------|--------------|------------------------------|-----------------------------------|-------|
| Total positive (n) | 124 | 285 | 9,051 | 1 | 0 | 153 | 9,614 |
| % of total positive | 1% | 3% | 94% | 0% | 0% | 2% | 100% |

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES

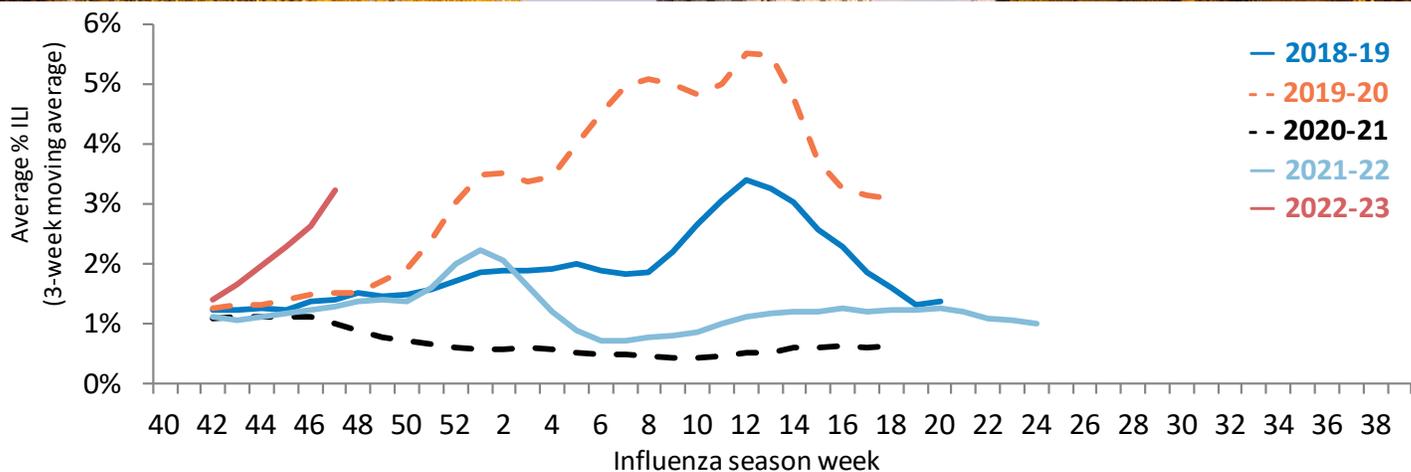


Week 47, Ending on November 26, 2022

| Respiratory virus | Tested | Positive (n) | Positive (%) | Influenza A | | | Influenza B | | |
|------------------------|--------|--------------|--------------|-----------------|--------------|-----------------|-----------------|-----------------|---------|
| | | | | H3N2 | 2009 H1N1 | Unknown | Victoria | Yamagata | Unknown |
| Influenza | 18867 | 4700 | 24.9% | 73 | 23 | 4592 | 0 | 0 | 12 |
| Respiratory virus | Tested | Positive (n) | Positive (%) | Parainfluenza 1 | | Parainfluenza 2 | Parainfluenza 3 | Parainfluenza 4 | |
| Parainfluenza | 1285 | 83 | 6.5% | 37 | | 8 | 9 | 29 | |
| Respiratory virus | Tested | Positive (n) | Positive (%) | CoV 229E | CoV OC43 | CoV NL63 | CoV HKU1 | | |
| Coronavirus (seasonal) | 146 | 0 | 0% | 0 | 0 | 0 | 0 | | |
| Respiratory virus | Tested | | Positive (n) | | Positive (%) | | | | |
| RSV | 13404 | | 2266 | | 16.9% | | | | |
| Human metapneumovirus | 1299 | | 4 | | 0.3% | | | | |
| Rhino-enterovirus | 1219 | | 217 | | 17.8% | | | | |
| Adenovirus | 146 | | 7 | | 4.8% | | | | |

WISCONSIN STATE SUMMARY

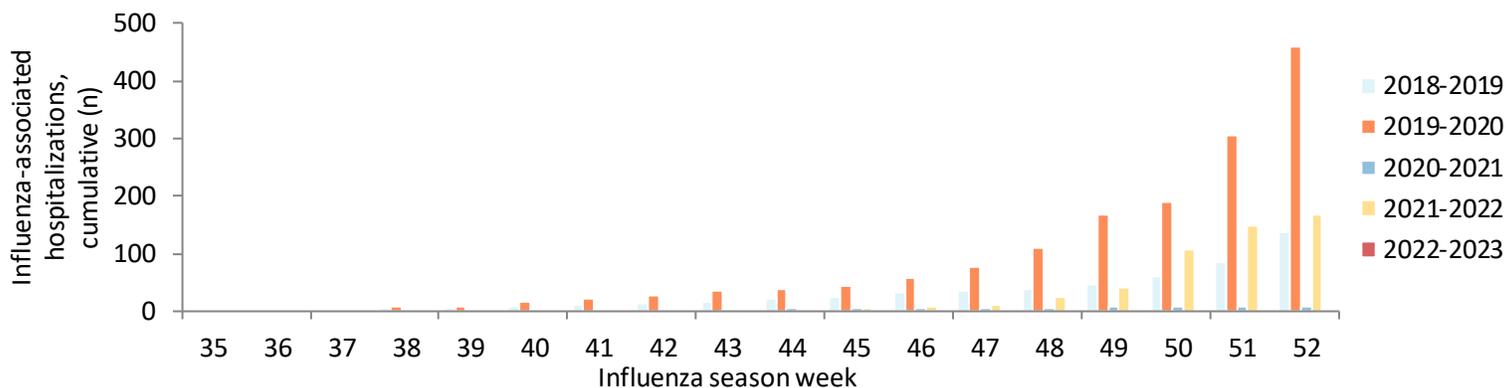
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2022 to present (Hospitalization data will be updated at a later date)

| Age group (years) | Total reported (n) | Influenza subtype | | | | | Admitted to ICU | Required mechanical ventilation | Pregnant | Postpartum (≤6 weeks) |
|-------------------|--------------------|-------------------|----------|-------------|----------|--------------|-----------------|---------------------------------|----------|-----------------------|
| | | A (2009 H1N1) | A (H3N2) | A (Unknown) | B | Not reported | | | | |
| <1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1-4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5-17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 18-49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 65+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

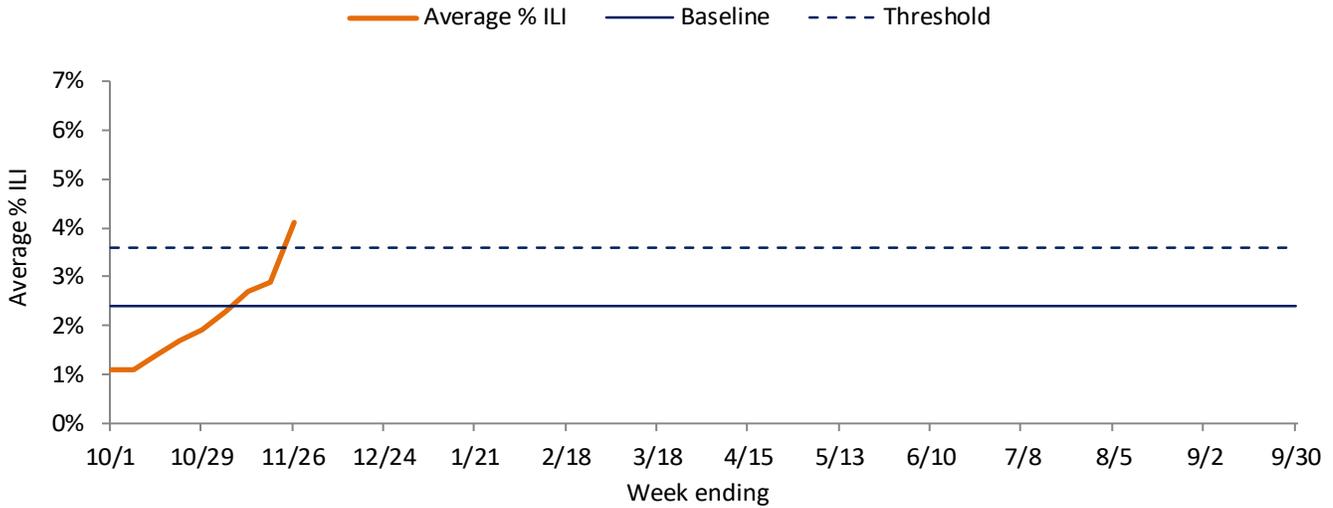
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



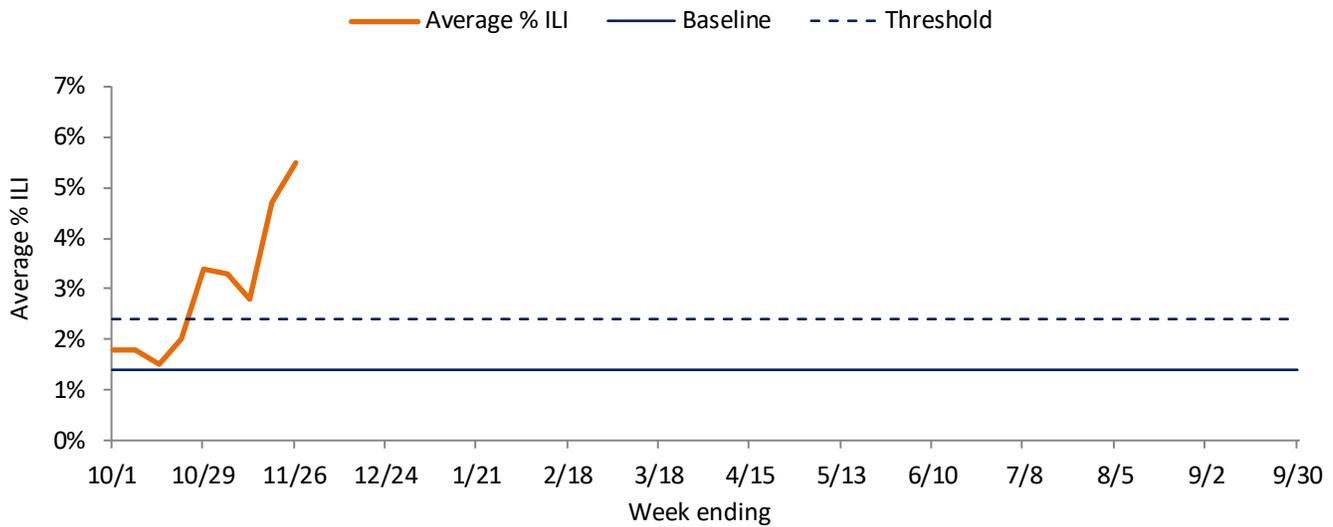
The 2020–2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic. As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

ILI ACTIVITY TREND ANALYSIS

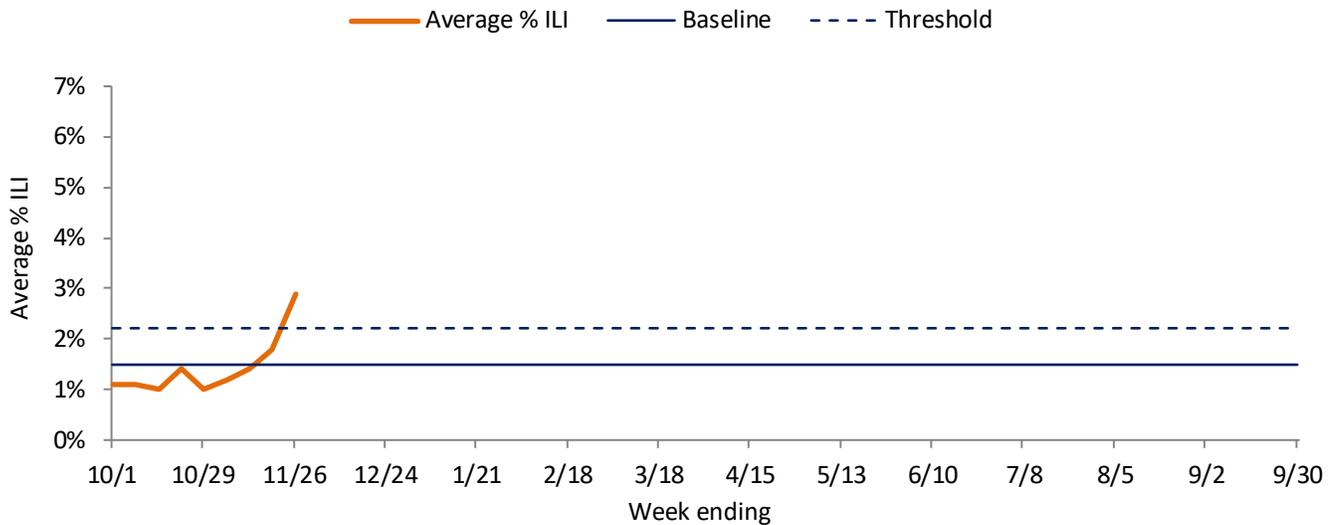
Wisconsin



Northeastern Region

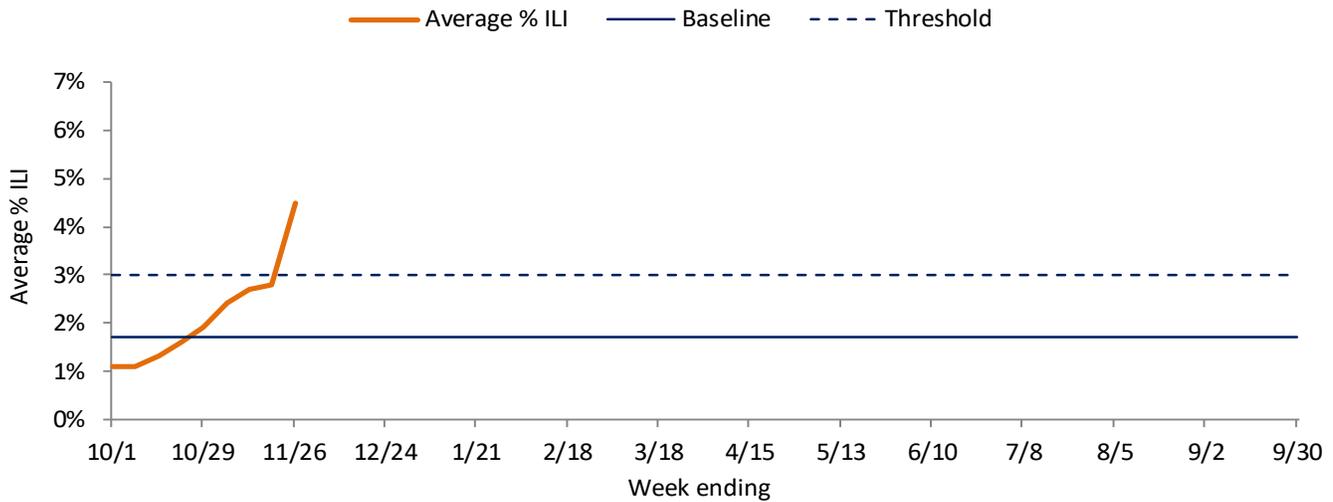


Northern Region

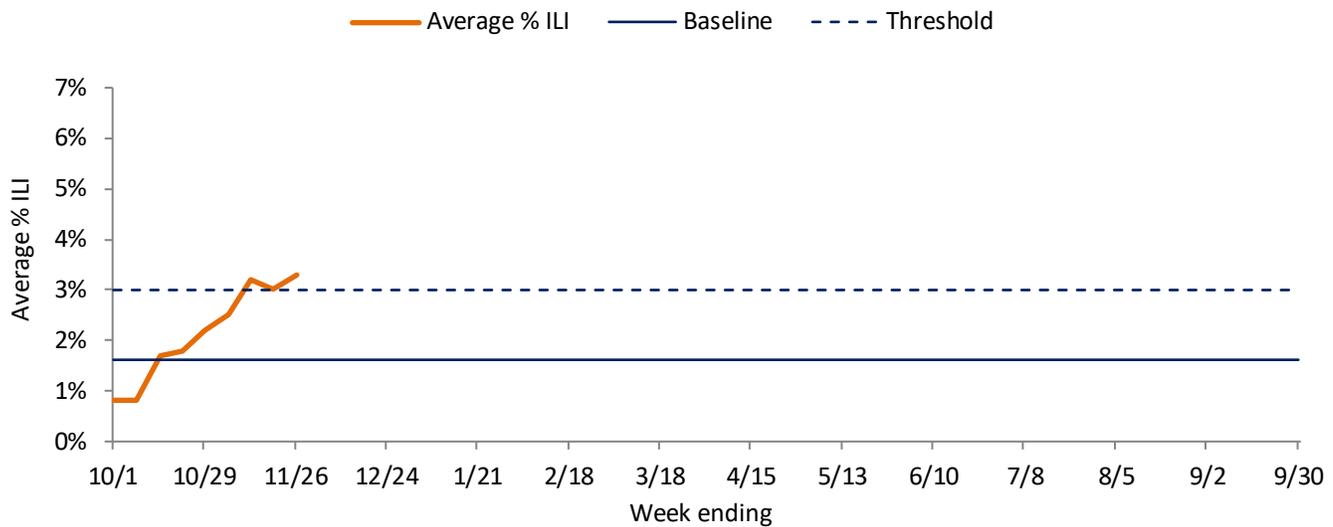


ILI ACTIVITY TREND ANALYSIS (CONTINUED)

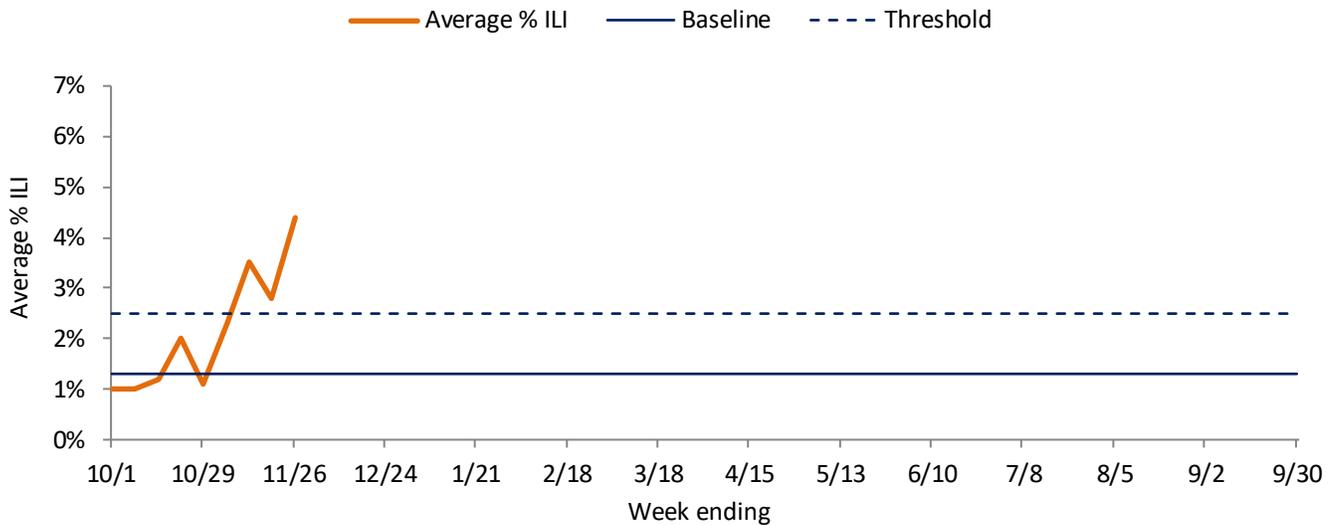
Southeastern Region



Southern Region



Western Region





SEASONAL INFLUENZA VACCINATION

Influenza vaccine composition 2022-2023:

Egg-based vaccines are recommended to contain:

- an A/Victoria/2570/2019 (H1N1) pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus (updated);
- a B/Austria/1359417/2021-like virus (B/Victoria lineage (updated));
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

Cell- or recombinant-based vaccines are recommended to contain:

- an A/Wisconsin/588/2019 (H1N1) pdm09-like virus;
- an A/Darwin/6/2021 (H3N2)-like virus (updated);
- a B/Austria/1359417/2021-like virus (B/Victoria lineage) (updated);
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

Seasonal flu vaccination data for Wisconsin based on information from the Wisconsin Immunization Registry (WIR) are available on the [DHS Influenza Vaccine Data Dashboard webpage](#).

These data are updated on a weekly basis during the influenza season.