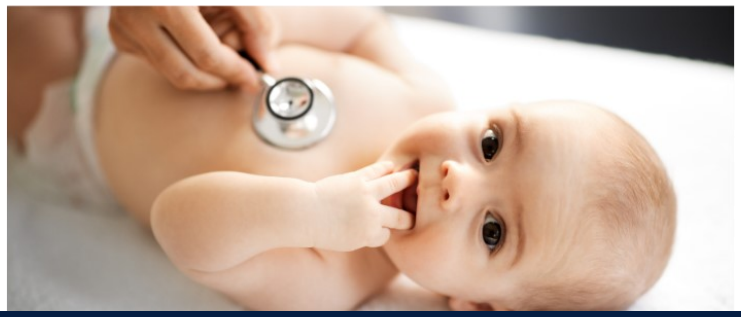
WISCONSIN DEPARTMENT of HEALTH SERVICES



RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 51, Ending December 24, 2022

Wisconsin Department of Health Services | Division of Public Health

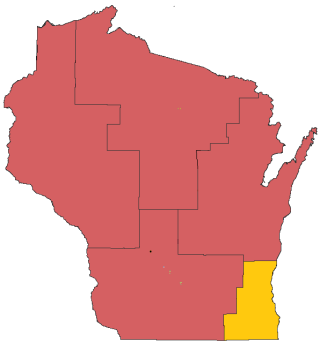
Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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

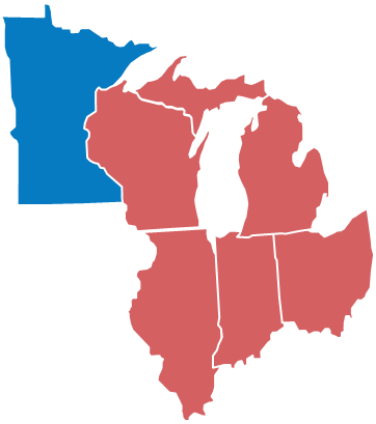
P-02346

INFLUENZA-LIKE ILLNESS (ILI) ACTIVITY

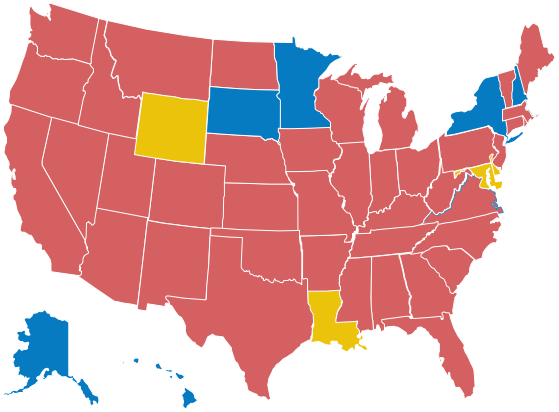
STATE OF WISCONSIN



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:

- While still at high levels, outpatient influenza-like illness activity and the percent positive influenza lab tests are declining in Wisconsin.
- 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:

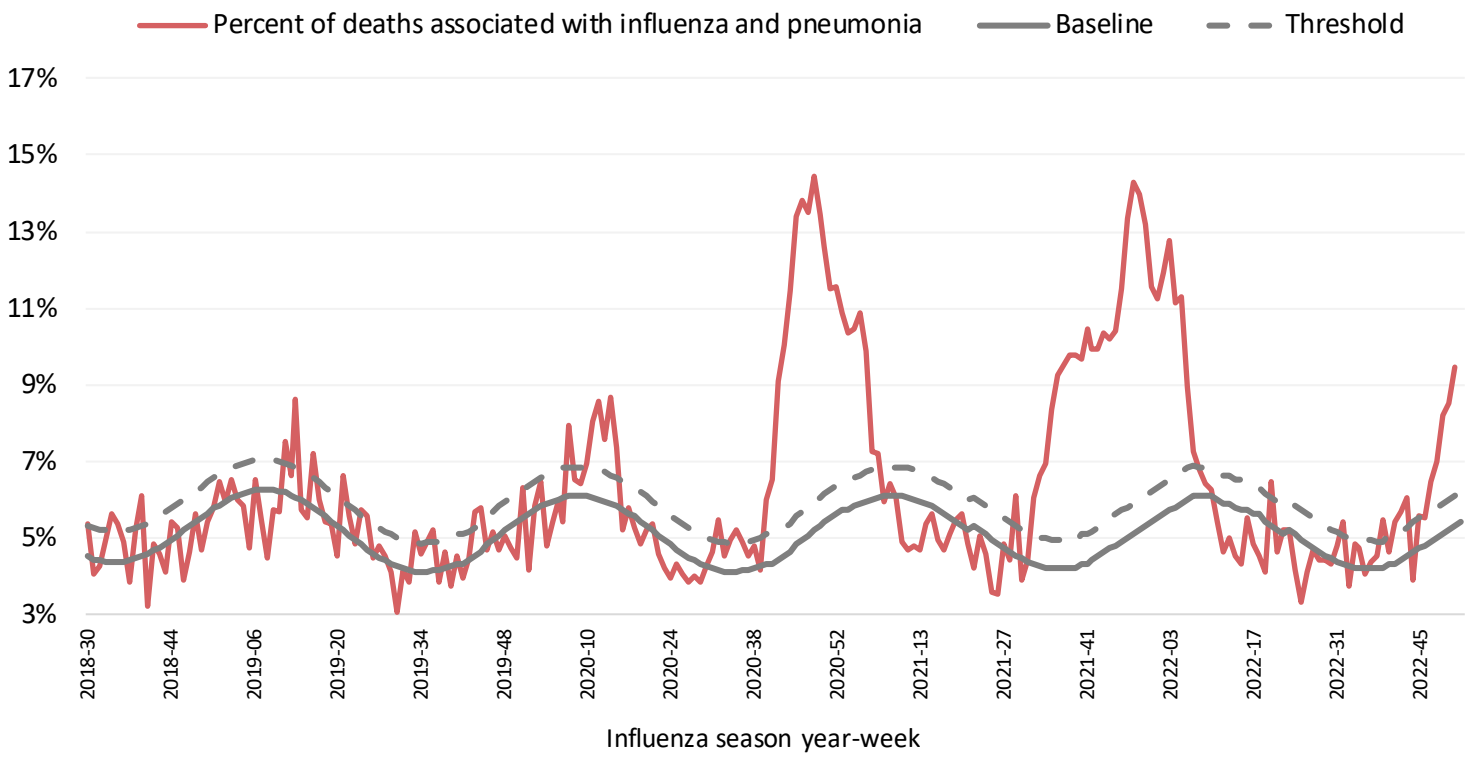
	Week 51, 2022	October 1, 2021 to present
Wisconsin	1	2
Nationwide	14	61

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



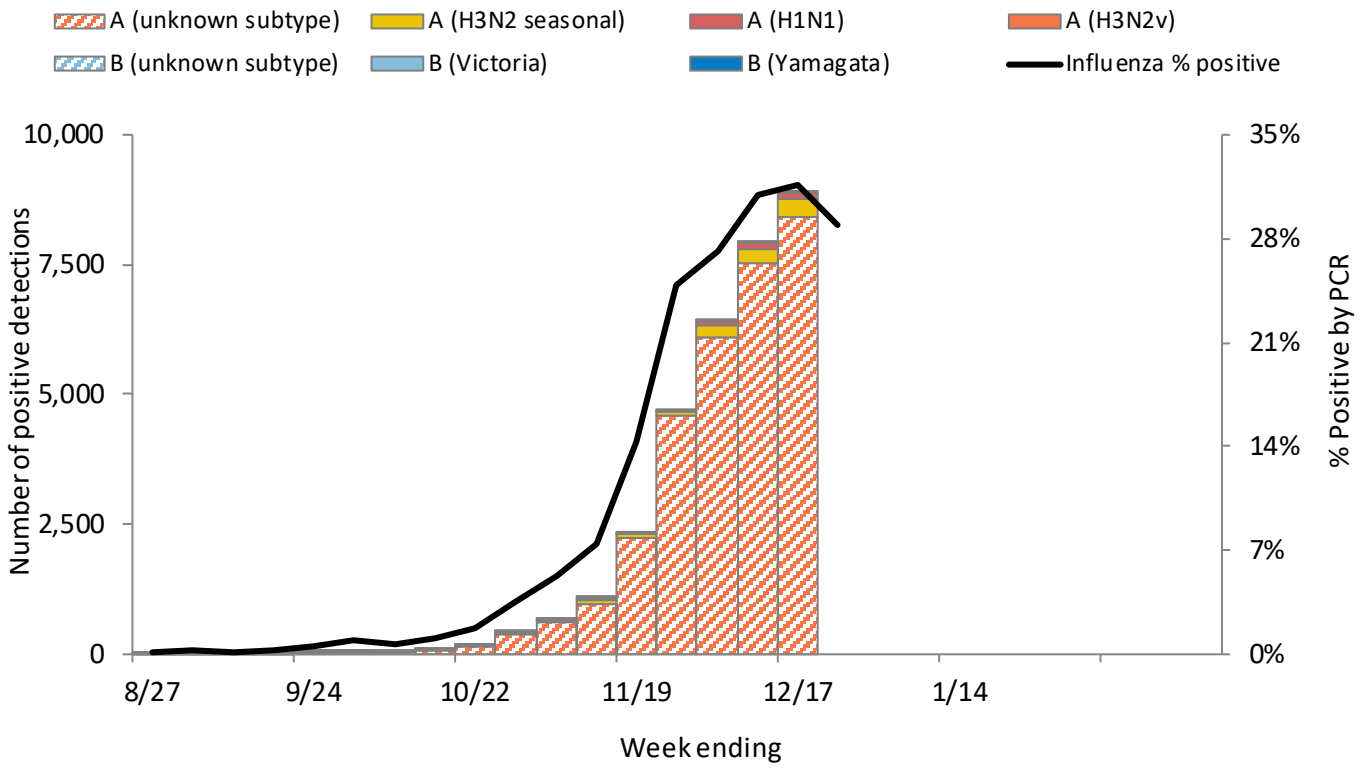
Influenza- and pneumonia-associated deaths by most recent 3 week period.

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
49	16	100	8.2%	5.1%	6.4%
50	13	95	8.5%	5.2%	6.5%
51 Preliminary Data	9	71	9.5%	5.3%	6.6%

Data source: DPH, Office of Health Informatics

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

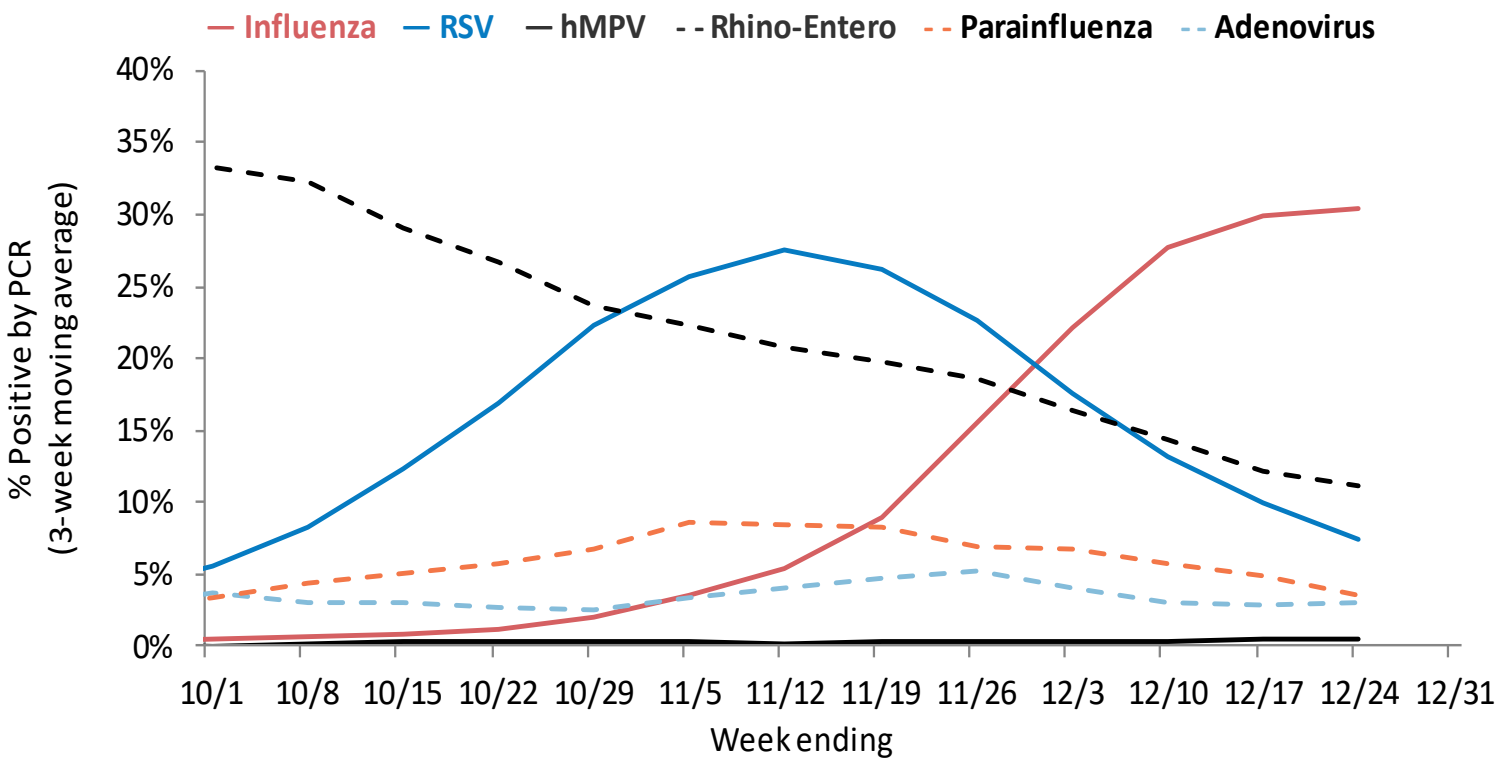


Cumulative number of positive influenza PCR tests by subtype

October 1, 2022 to present

	Influenza A: A (2009 H1N1)	A (H3N2)	99% A (Unknown)	Influenza B: B (Victoria)	B (Yamagata)	1% B (Unknown)	Total
Total positive (n)	472	1,460	37,188	2	0	203	39,325
% of total positive	1%	4%	95%	0%	0%	1%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES



Week 51, Ending on December 24, 2022

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	22519	6499	28.9%	309	99	6078	1	0	12

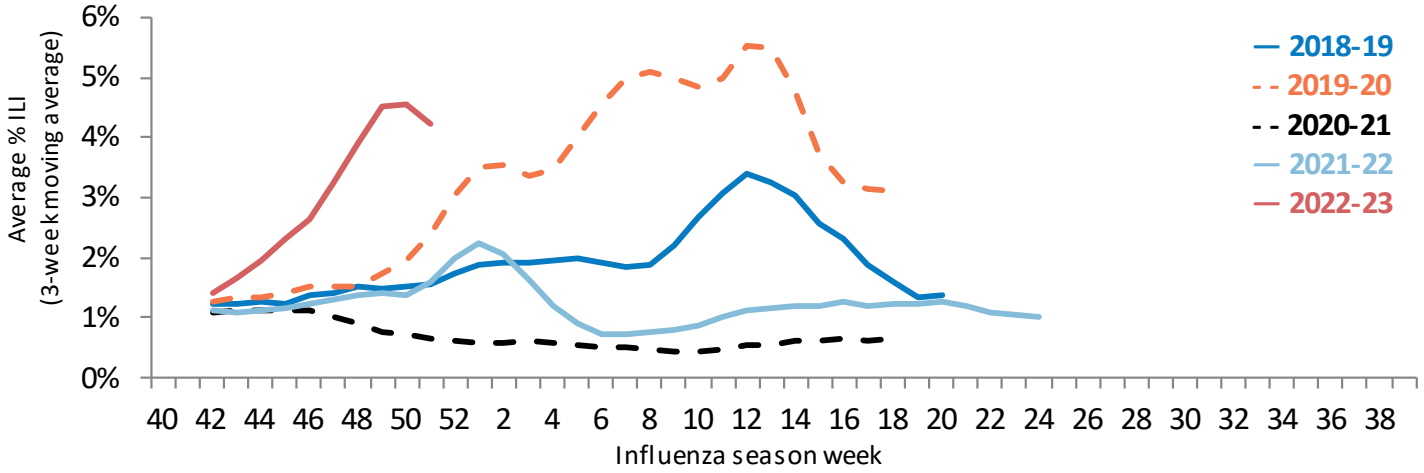
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	1181	31	2.6%	9	6	4	2

Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (seasonal)	26	2	7.6%	0	1	0	1

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	15174	859	5.7%
Human metapneumovirus	1130	3	0.3%
Rhino-enterovirus	1316	123	9.3%
Adenovirus	26	1	3.8%

WISCONSIN STATE SUMMARY

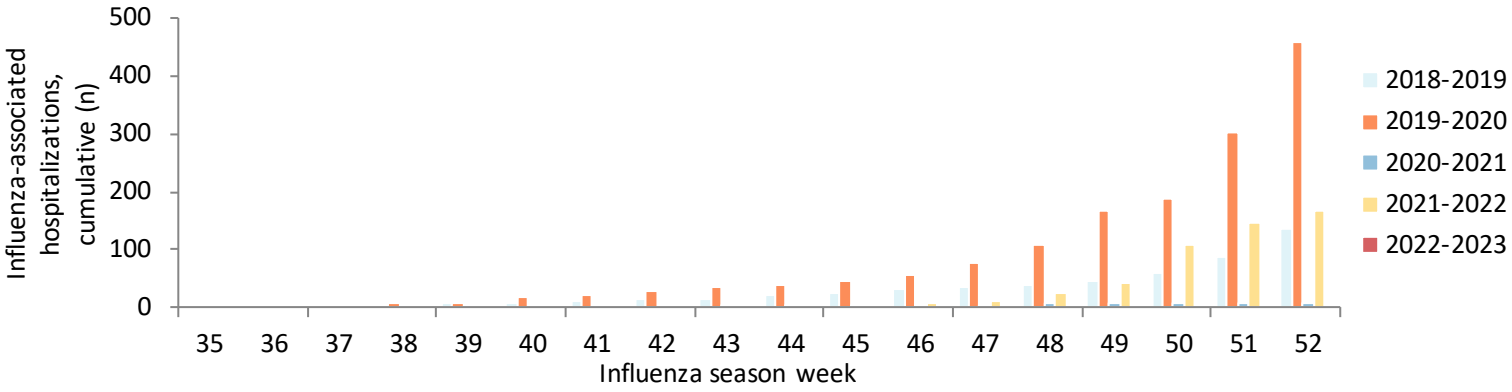
ILI activity trend analysis by influenza season, Wisconsin



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**

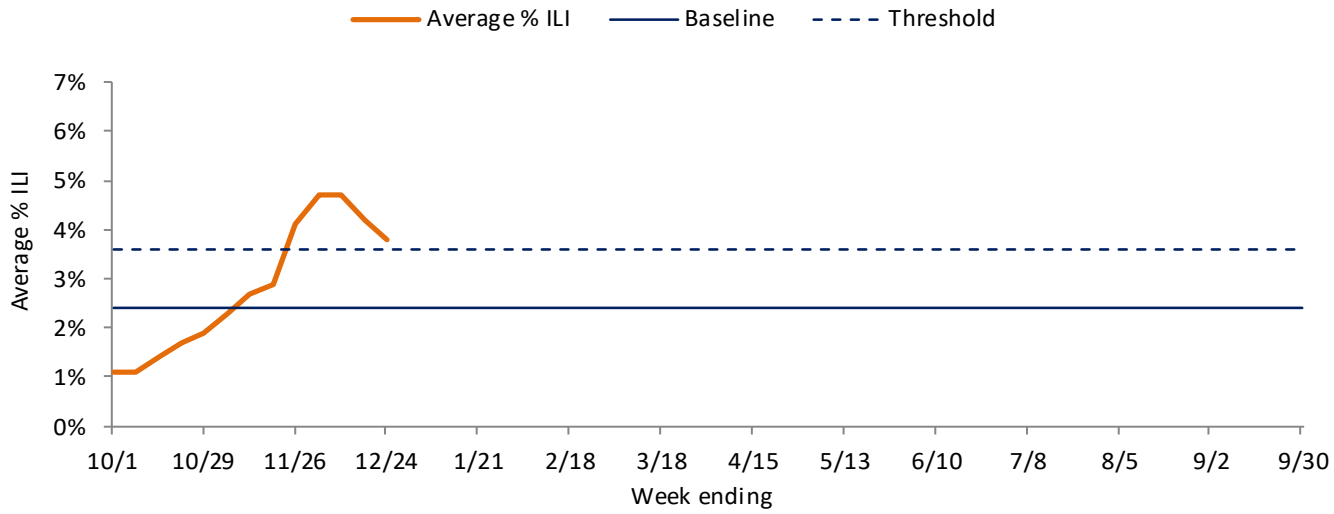
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



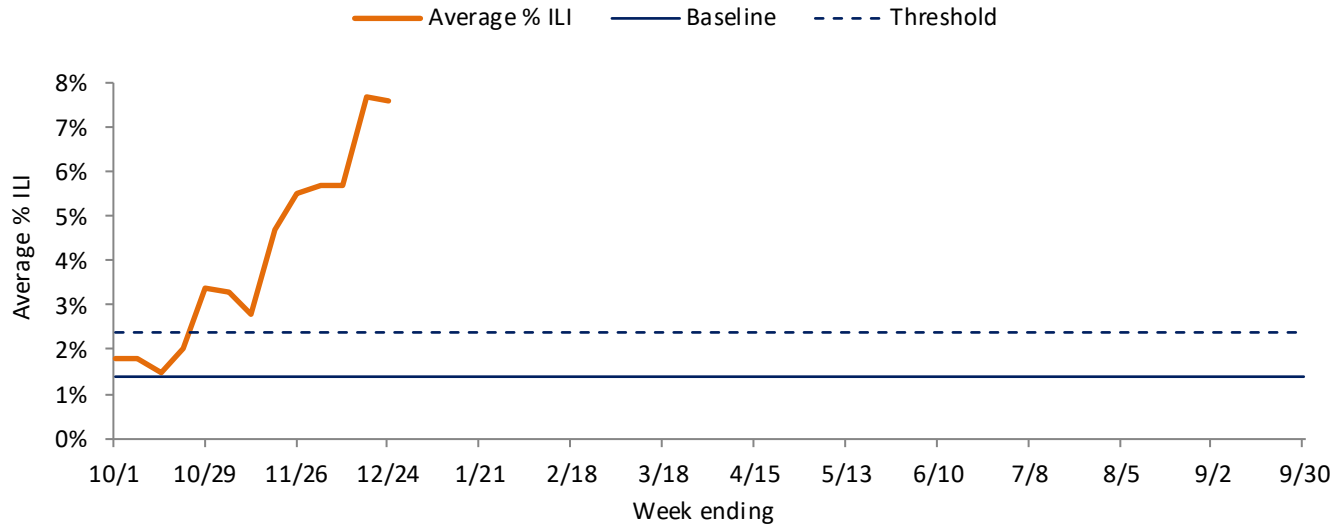
* **The 2020–2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic.** As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

ILI ACTIVITY TREND ANALYSIS

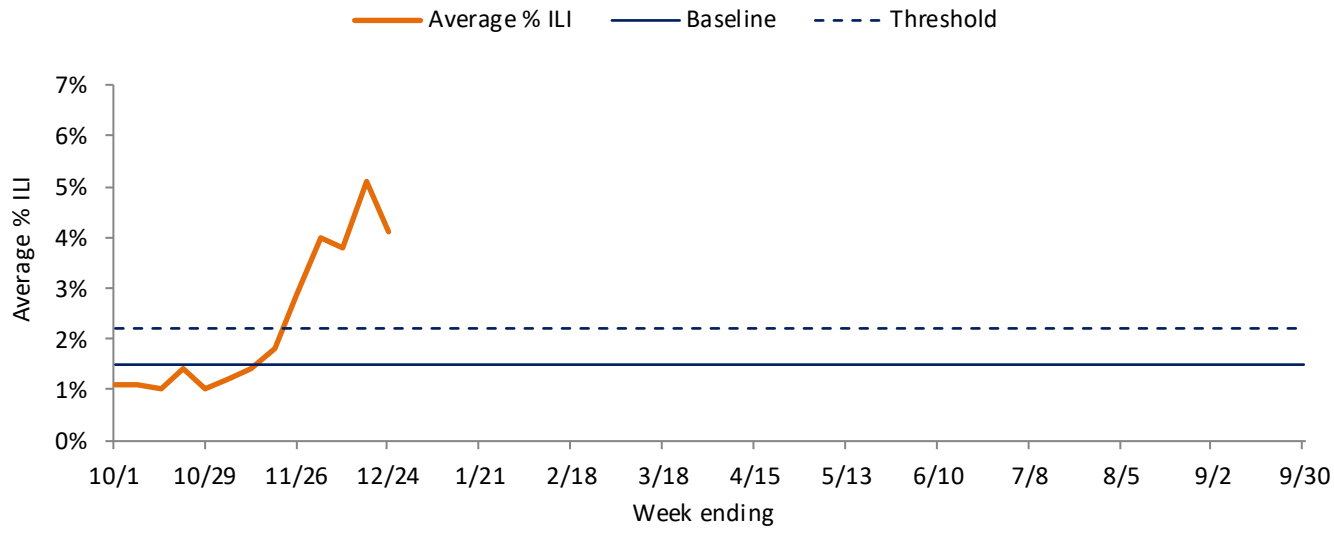
Wisconsin



Northeastern Region

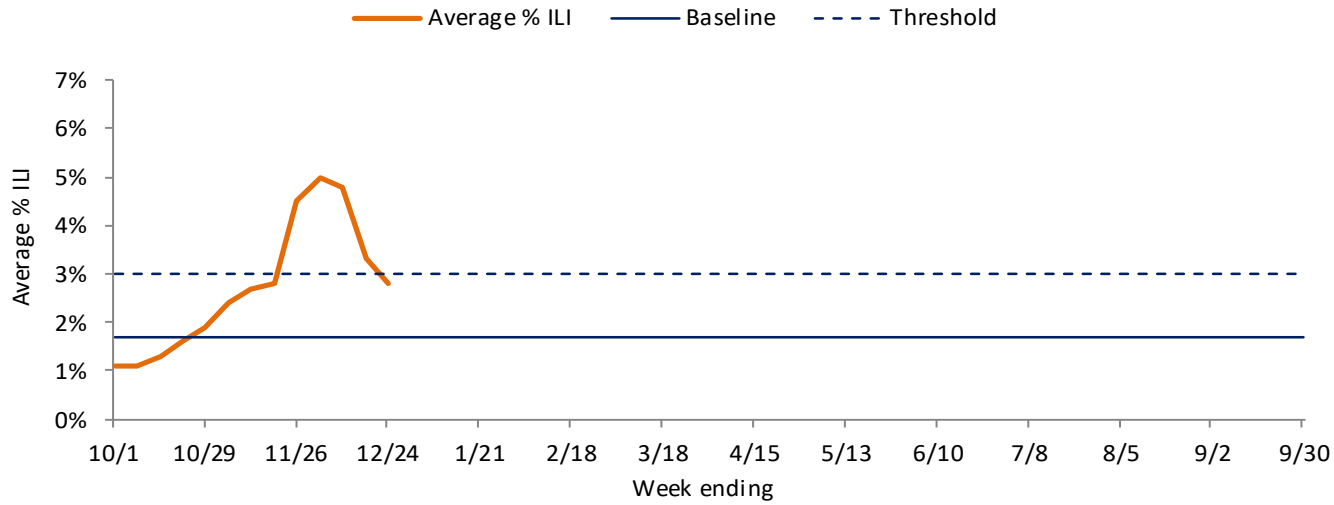


Northern Region

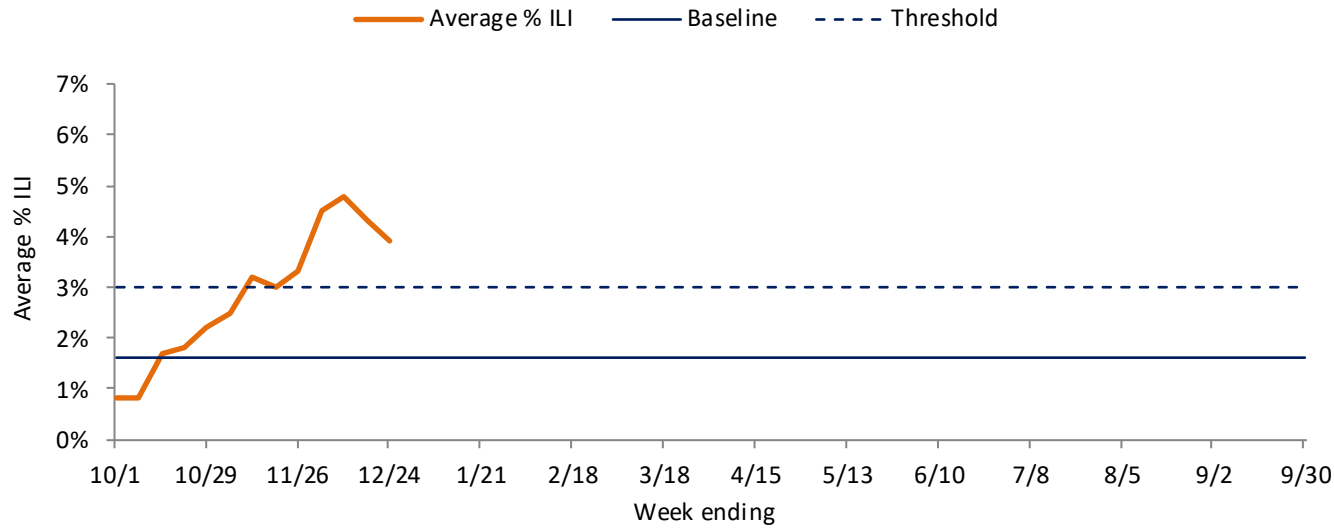


ILI ACTIVITY TREND ANALYSIS (CONTINUED)

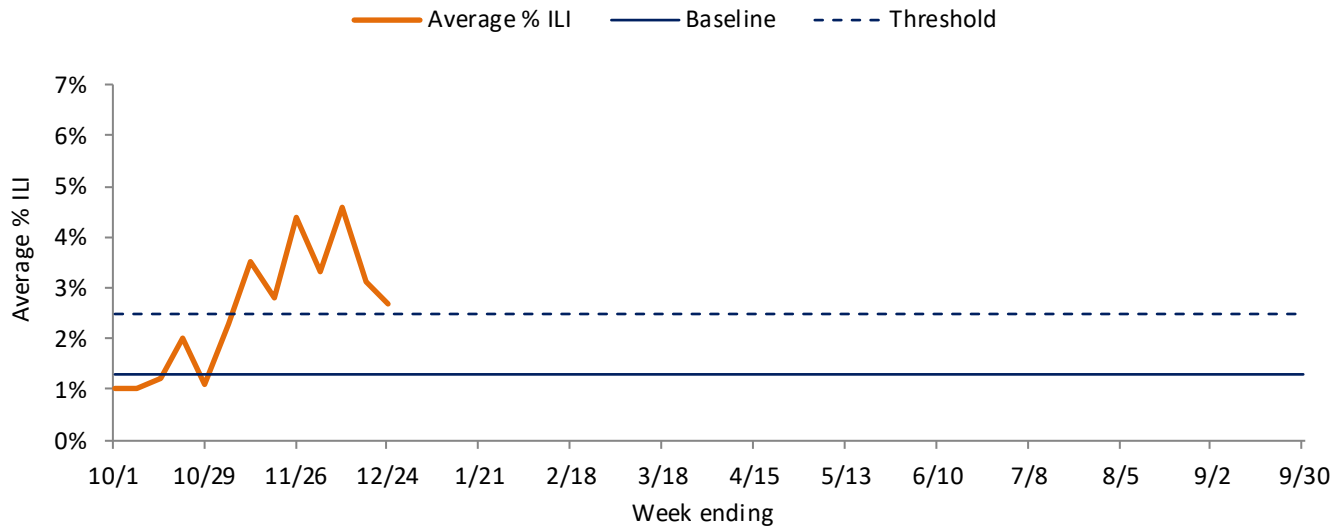
Southeastern Region



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.