



# RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 42, Ending October 22, 2022

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

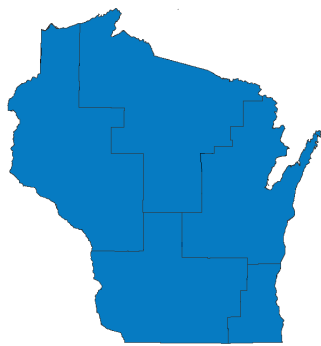
[www.dhs.wisconsin.gov/dph/bcd.htm](http://www.dhs.wisconsin.gov/dph/bcd.htm) | [dhsdphbcd@dhs.wi.gov](mailto:dhsdphbcd@dhs.wi.gov)





# INFLUENZA-LIKE ILLNESS (ILI) ACTIVITY

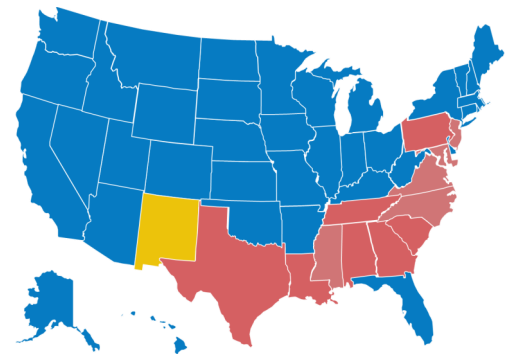
## STATE OF WISCONSIN



## 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:

Rhino/enteroviruses and Respiratory Syncytial Virus (RSV) were the predominant viruses this week.

### Current Alerts:

- A significant increase in RSV activity is being identified nationwide.
- The new DHS Influenza Vaccine Data Dashboard is available at: <https://www.dhs.wisconsin.gov/immunization/influenza.htm>
- 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:

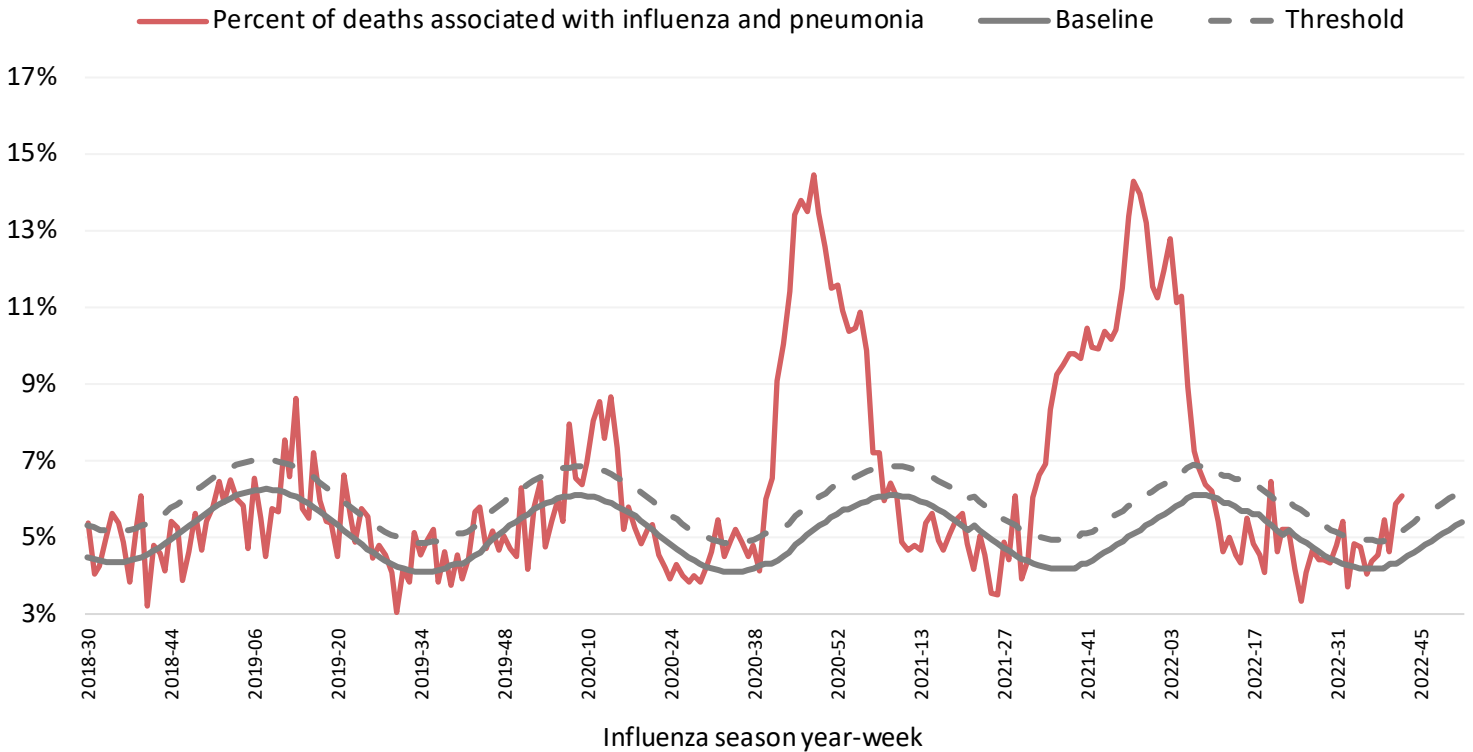
	Week 42, 2022	October 1, 2021 to present
<b>Wisconsin</b>	0	0
<b>Nationwide</b>	0	0

For National US influenza surveillance statistics visit: [www.cdc.gov/flu/weekly/](http://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.**

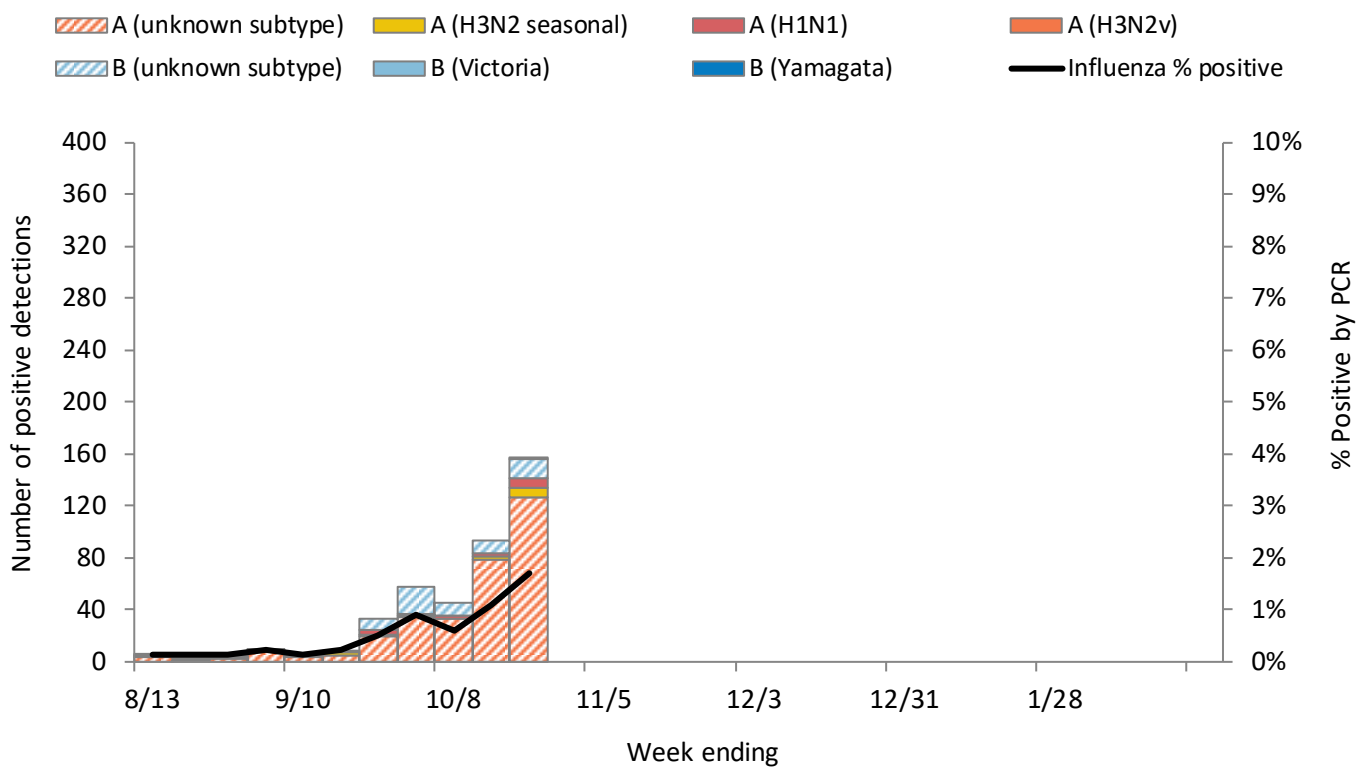
Influenza season week	Influenza-associated deaths (I)	Pneumonia-associated deaths (P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
40	1	51	4.9%	4.3%	5.1%
41	0	60	5.6%	4.3%	5.1%
42 Preliminary Data	0	52	6.2%	4.4%	5.2%

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



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

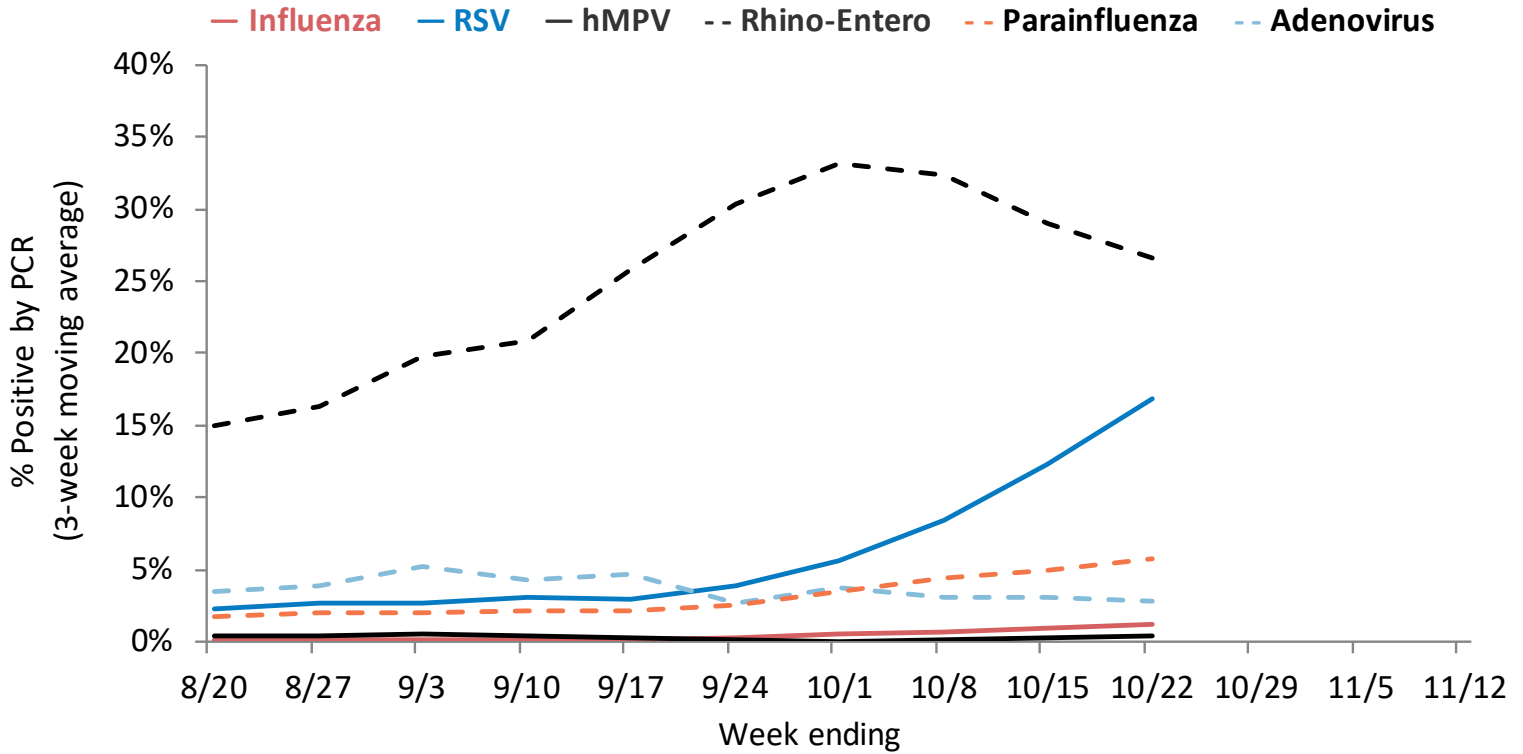
## Wisconsin positive influenza results and subtypes by PCR



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

	A (2009 H1N1)	Influenza A: A (H3N2)	84% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	16% B (Unknown)	Total
Total positive (n)	12	11	273	1	0	56	353
% of total positive	3%	3%	77%	0%	0%	16%	100%

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES

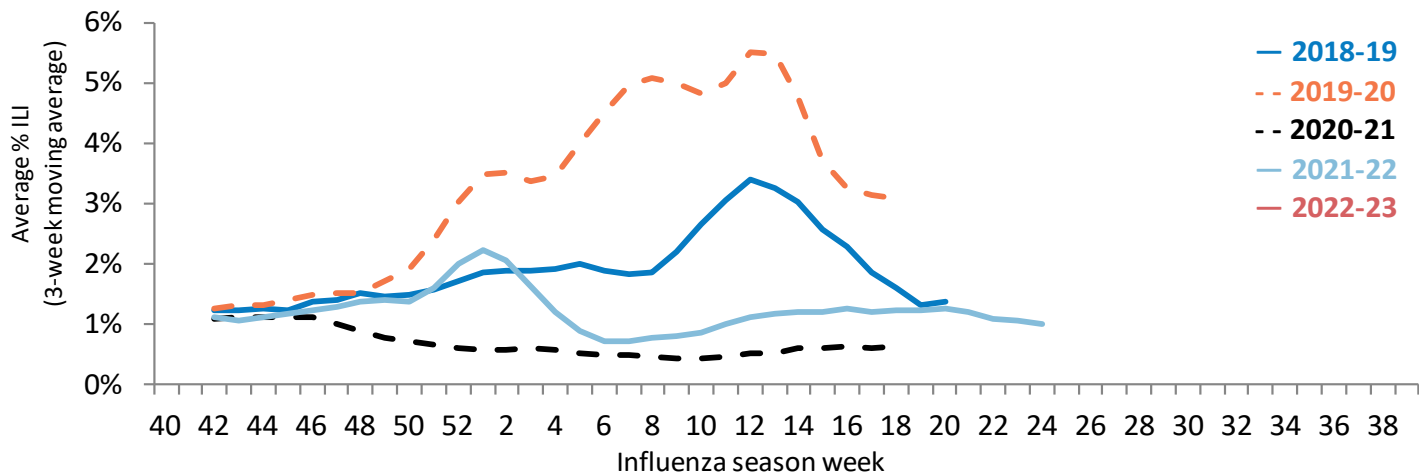


Week 42, Ending on October 22, 2022

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	9506	157	1.7%	7	7	127	1	0	15
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4		
Parainfluenza	1054	76	7.2%	40	4	6	26		
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1		
Coronavirus (seasonal)	125	1	0.8%	1	0	0	0		
Respiratory virus	Tested		Positive (n)		Positive (%)				
RSV	5666		1280		22.6%				
Human metapneumovirus	1038		3		0.3%				
Rhino-enterovirus	1000		234		23.4%				
Adenovirus	125		6		4.8%				

# WISCONSIN STATE SUMMARY

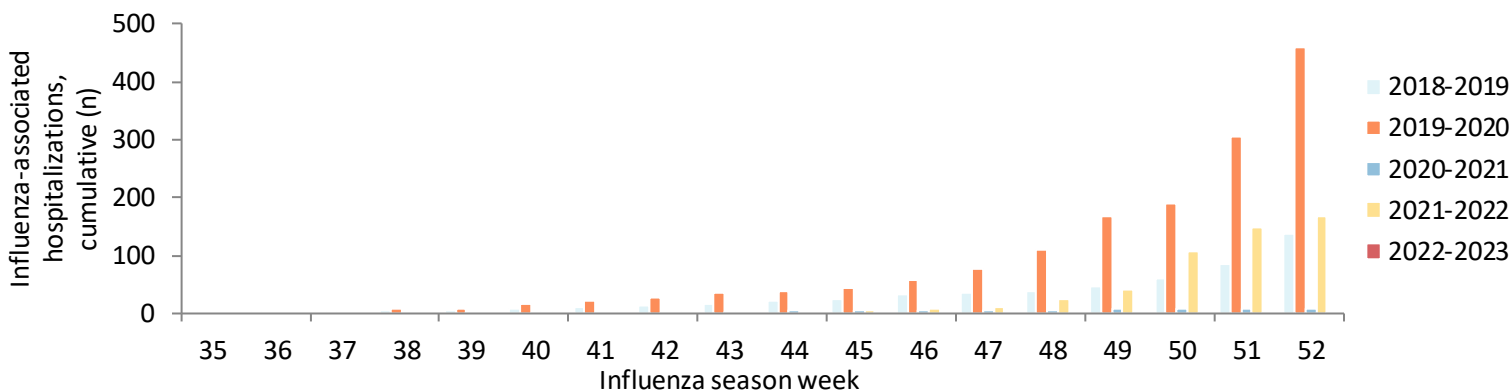
## ILI activity trend analysis by influenza season, Wisconsin



### Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2022 to present

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		
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

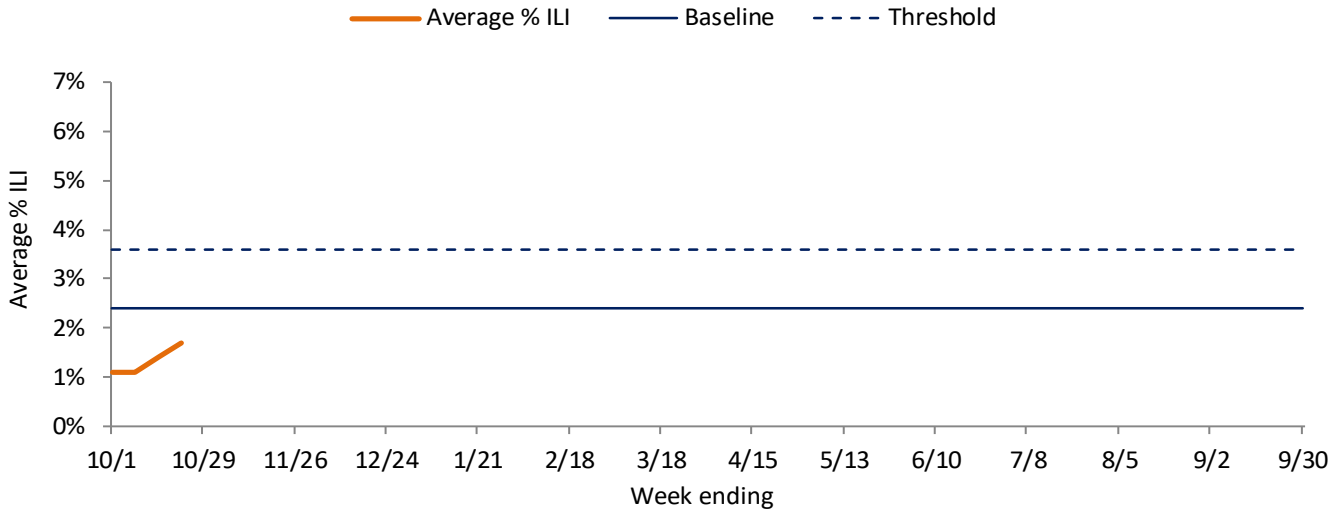
### Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



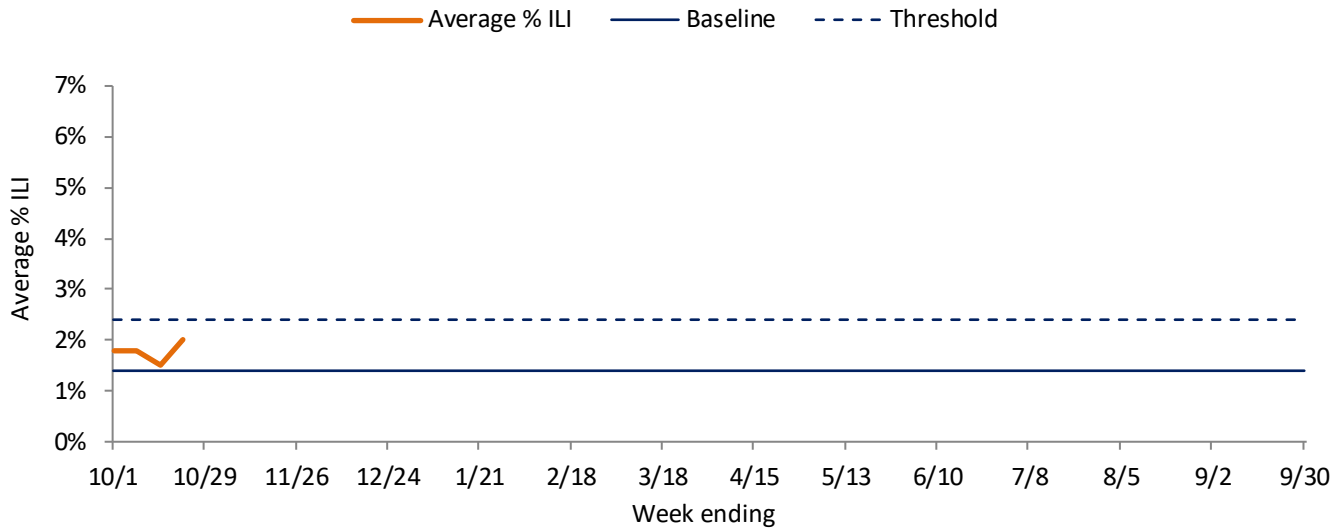
**The 2020–2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic.** As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

# ILI ACTIVITY TREND ANALYSIS

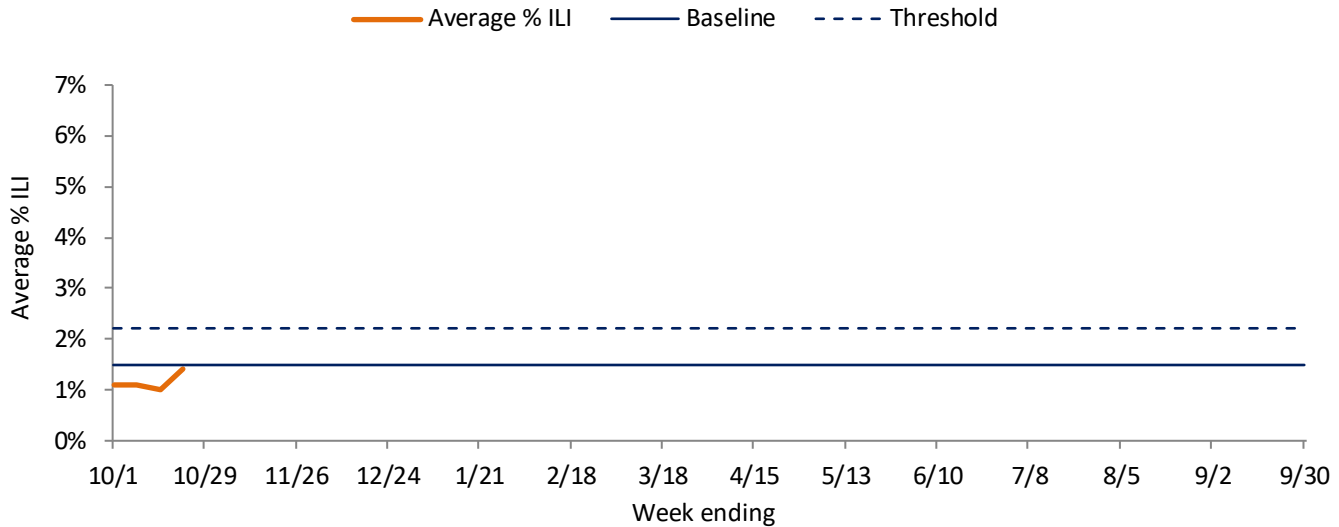
## Wisconsin



## Northeastern Region

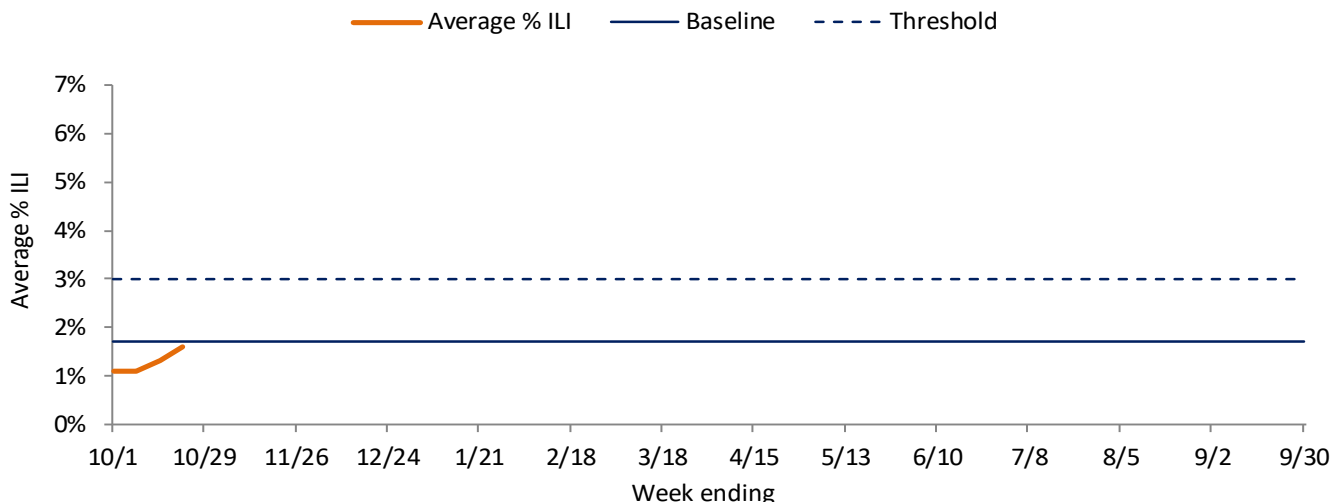


## Northern Region

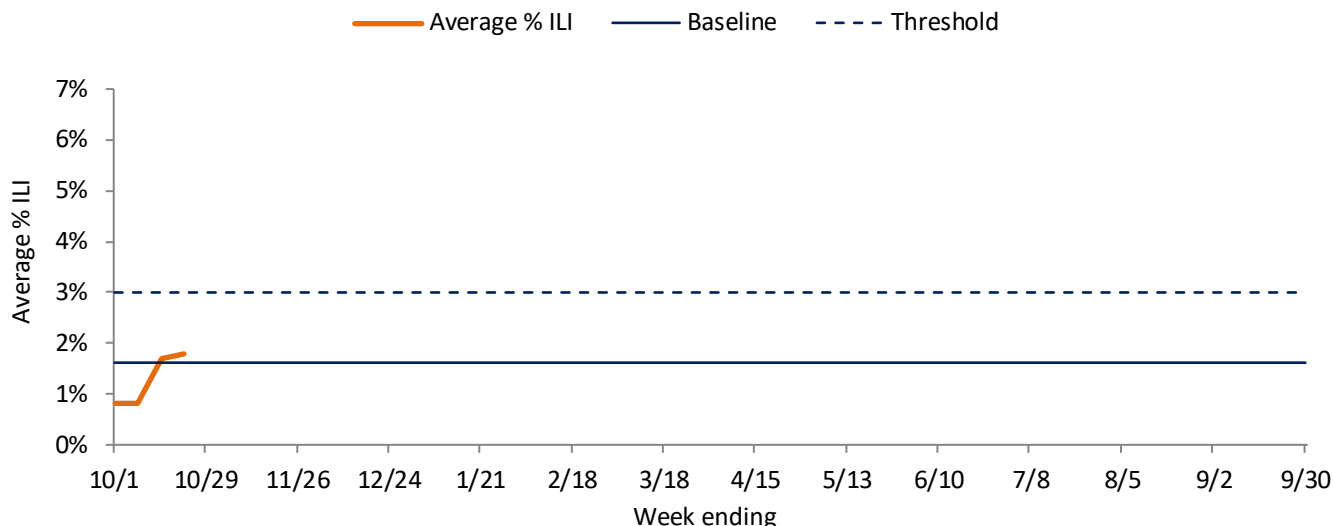


# ILI ACTIVITY TREND ANALYSIS (CONTINUED)

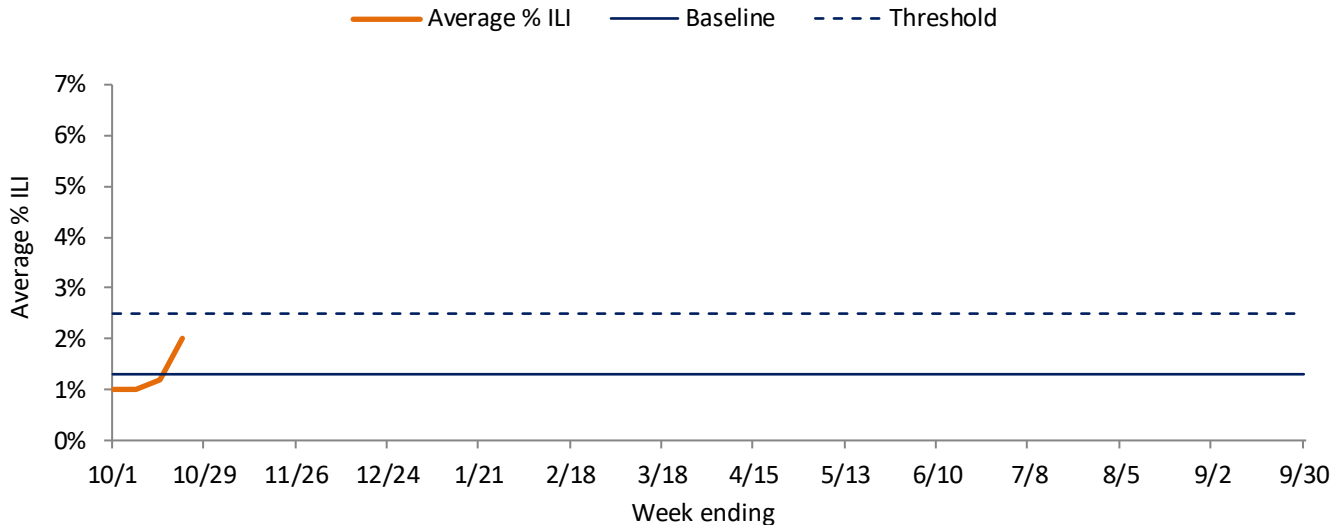
## Southeastern Region



## 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.