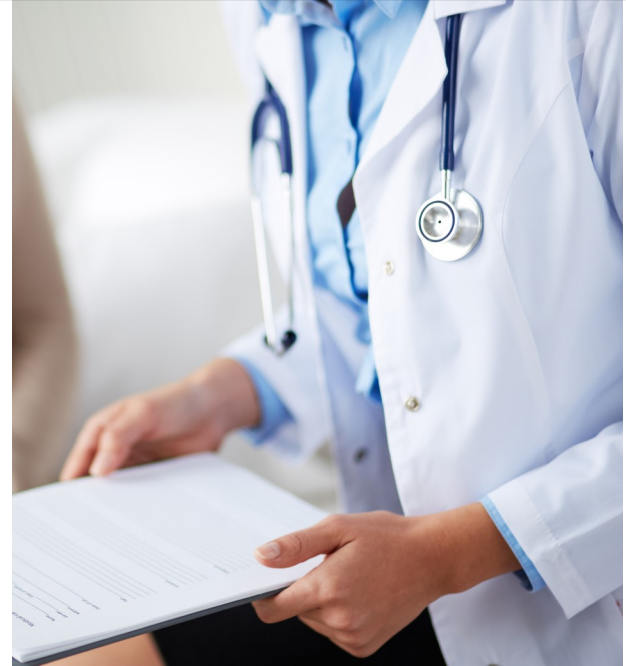




WISCONSIN DEPARTMENT  
*of* HEALTH SERVICES



# RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 50, Ending December 18, 2021

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

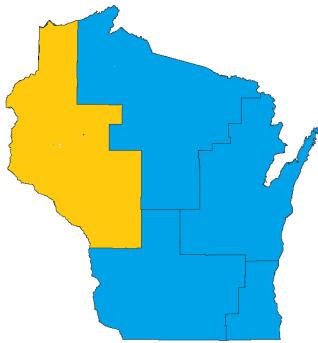
[www.dhs.wisconsin.gov/dph/bcd.htm](http://www.dhs.wisconsin.gov/dph/bcd.htm) | [dhsdphbcd@dhs.wi.gov](mailto:dhsdphbcd@dhs.wi.gov)





# INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

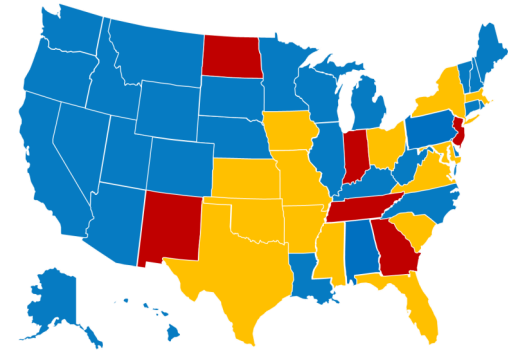
## STATE OF WISCONSIN



## 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/enterovirus is the predominant virus this week.

### Current Alerts:

Influenza-associated hospitalizations are increasing statewide and are expected to continue to increase in the coming weeks. Influenza A/H3 is the predominant influenza virus.

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:

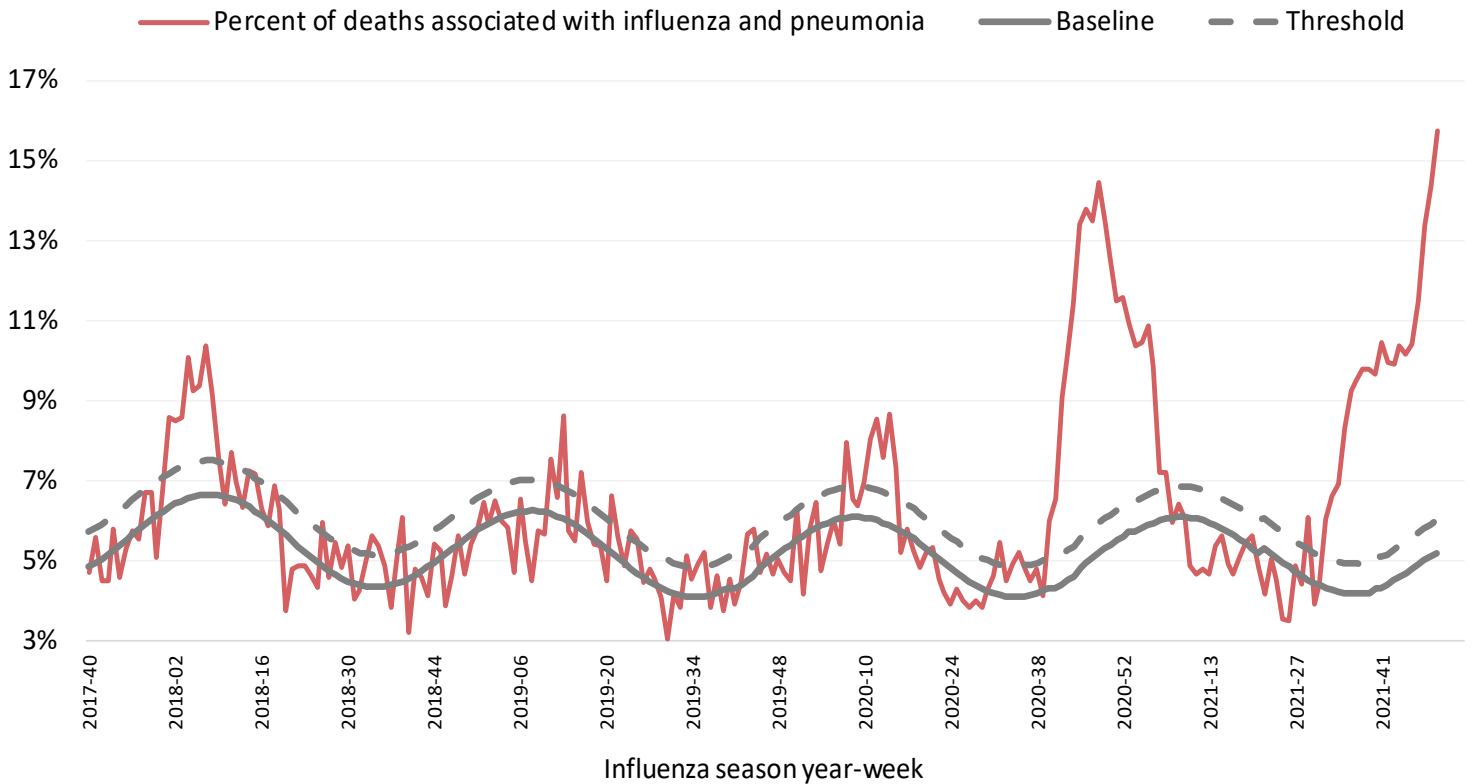
	Week 50, 2021	October 1, 2021 to present
<b>Wisconsin</b>	0	0
<b>Nationwide</b>	2	2

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.**

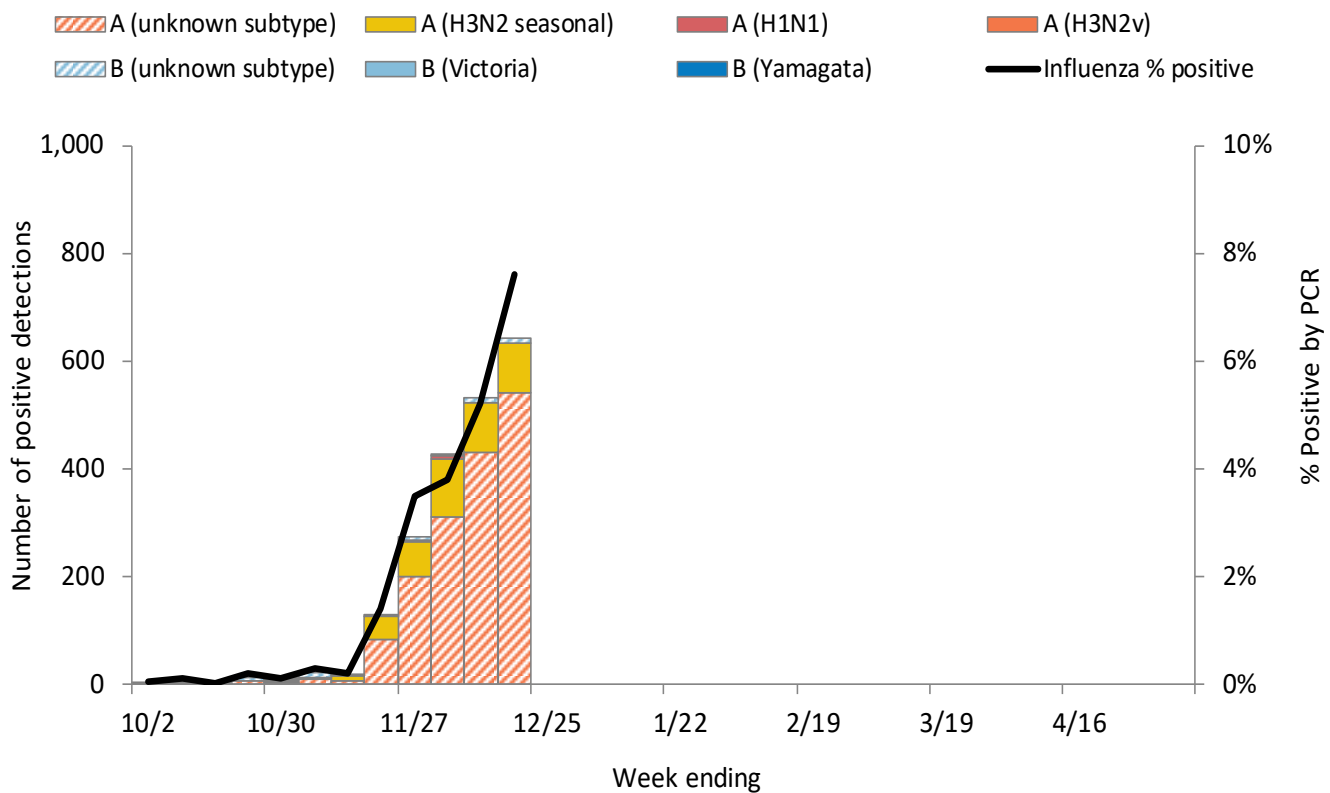
Influenza season week	Influenza-associated deaths (I)	Pneumonia-associated deaths (P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
48	0	184	13.4%	5.0%	5.8%
49	1	196	14.4%	5.1%	5.9%
50 Preliminary Data	2	169	15.8%	5.2%	6.0%

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



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Wisconsin positive influenza results and subtypes by PCR



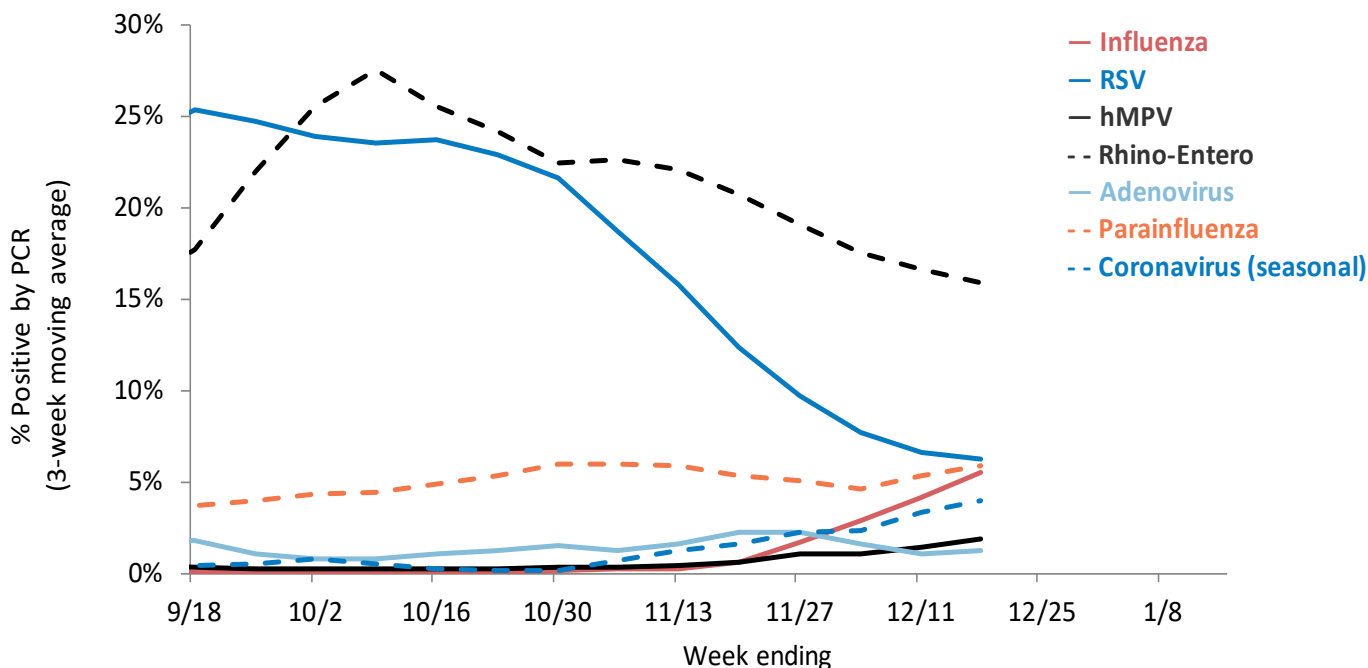
## Cumulative number of positive influenza PCR tests by subtype

October 9, 2021 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	Influenza A: 97% A (Unknown)	Influenza B: B (Victoria)	Influenza B: B (Yamagata)	Influenza B: 3% B (Unknown)	Total
Total positive (n)	7	416	1,591	1	0	53	2,068
% of total positive	0%	20%	77%	0%	0%	3%	100%

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Trends in respiratory virus activity by PCR



Week 50 Ending on December 18, 2021

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009	Unknown	Victoria	Yamagata	Unknown
Influenza	8469	643	7.6%	94	0	540	0	0	9

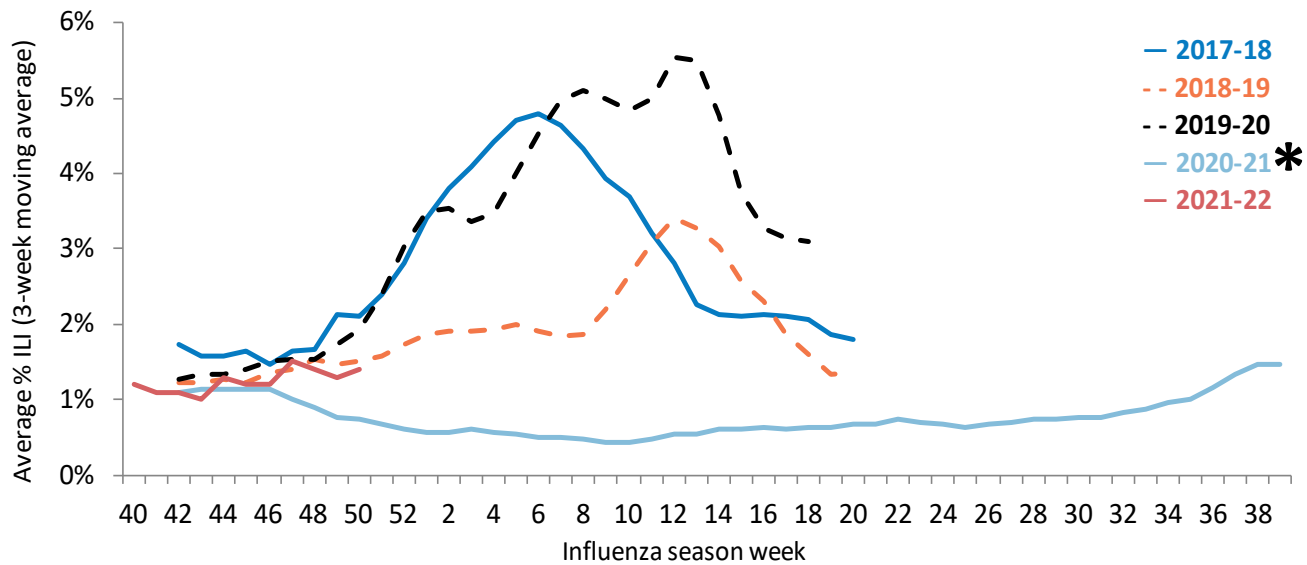
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	1081	65	6.0%	0	15	27	23

Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (seasonal)	313	17	5.4%	3	14	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	3984	241	6.0%
Human metapneumovirus	1097	31	2.8%
Rhino-enterovirus	1029	153	14.9%
Adenovirus	313	4	1.3%

# WISCONSIN STATE SUMMARY

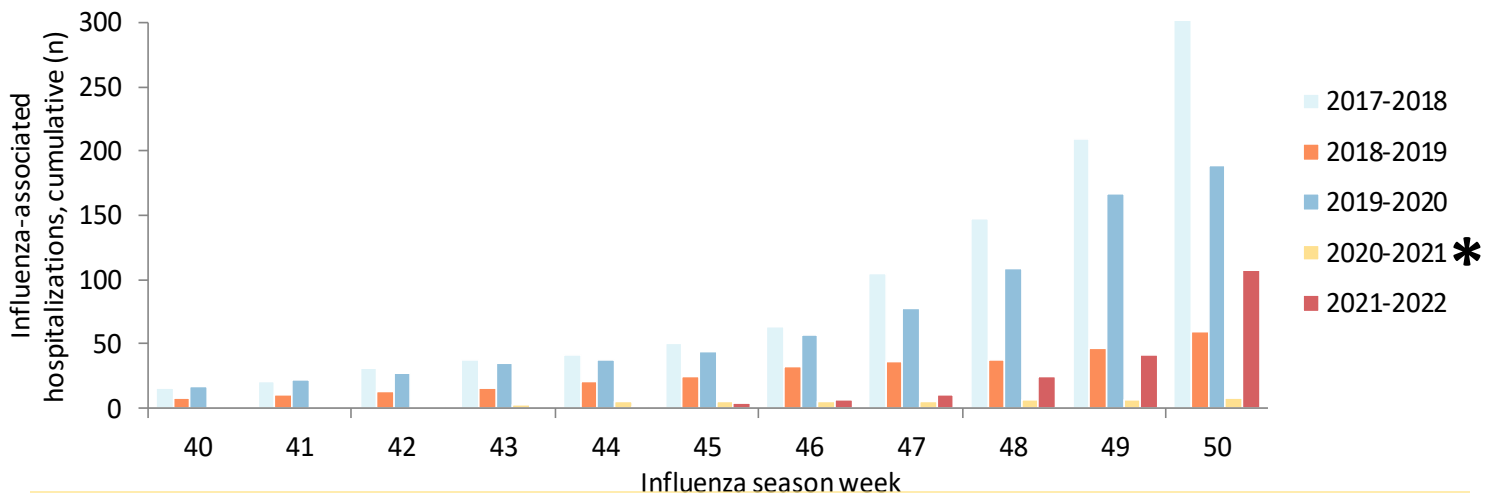
## ILI activity trend analysis by influenza season, Wisconsin



## Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2021 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	3	0	0	3	0	0	0	0		
1-4	3	1	0	2	0	0	3	0		
5-17	5	0	0	5	0	0	1	0		
18-49	24	0	1	22	1	0	4	0	3	0
50-64	12	0	1	9	2	0	2	0		
65+	61	0	3	47	11	0	3	1		
<b>Total</b>	<b>108</b>	<b>1</b>	<b>5</b>	<b>88</b>	<b>14</b>	<b>0</b>	<b>13</b>	<b>1</b>	<b>3</b>	<b>0</b>

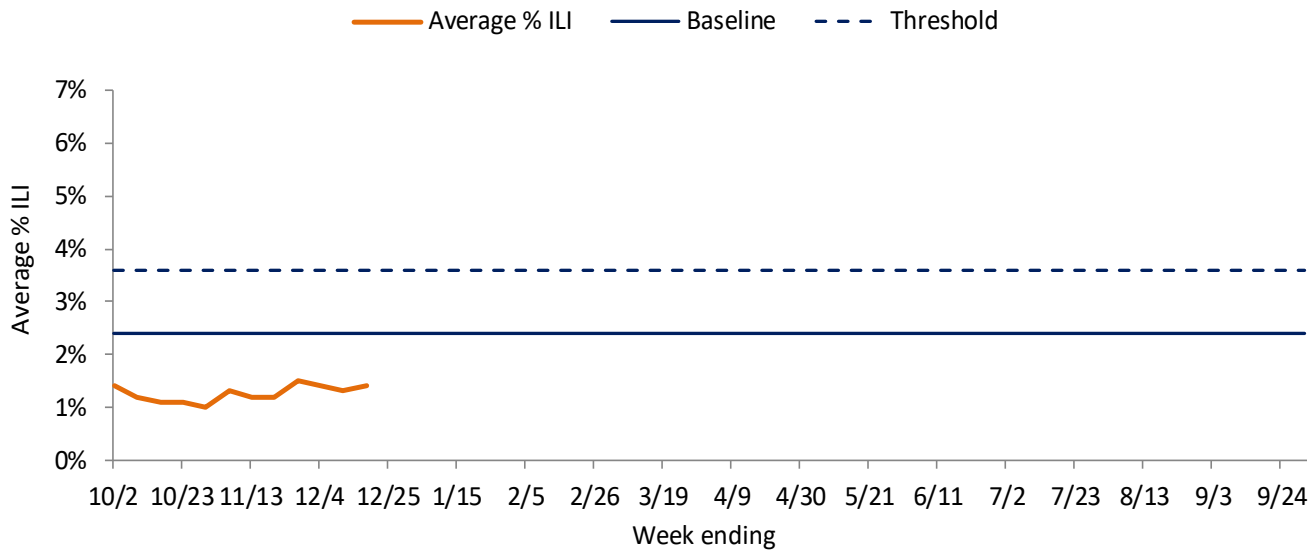
## Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



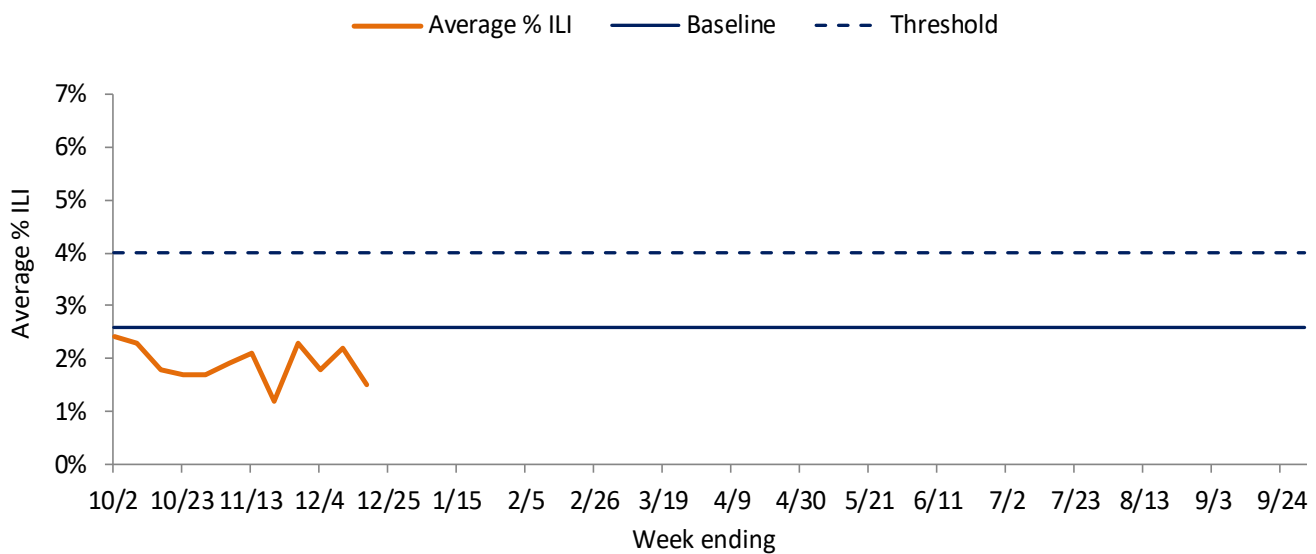
\* The 2020 - 2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic. As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

# ILI ACTIVITY TREND ANALYSIS

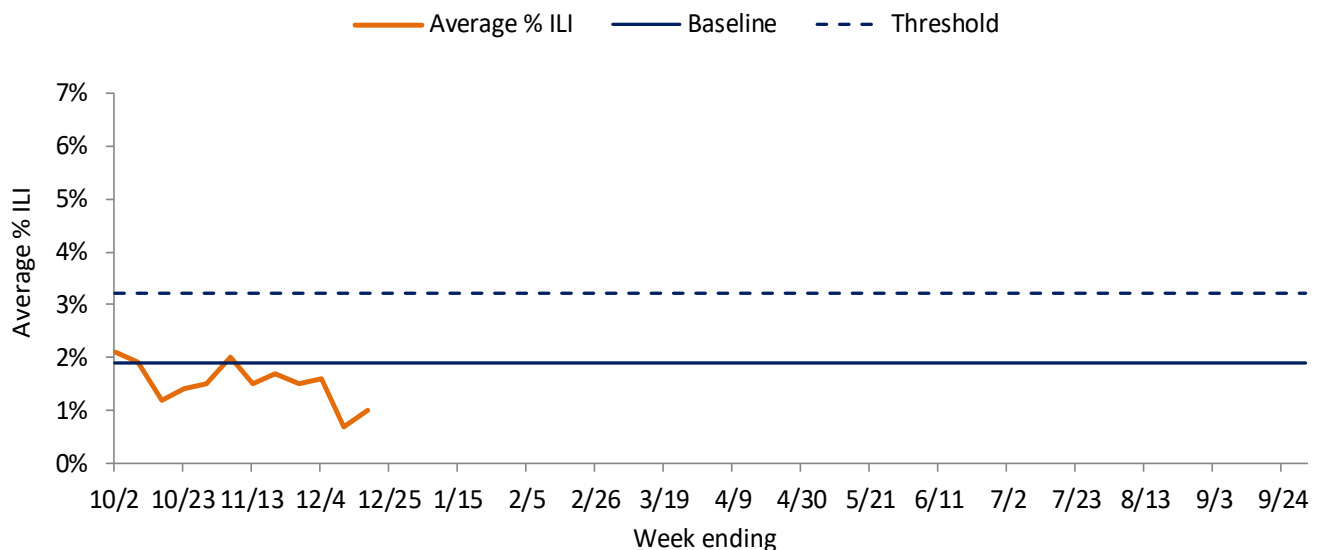
## Wisconsin



## Northeastern Region

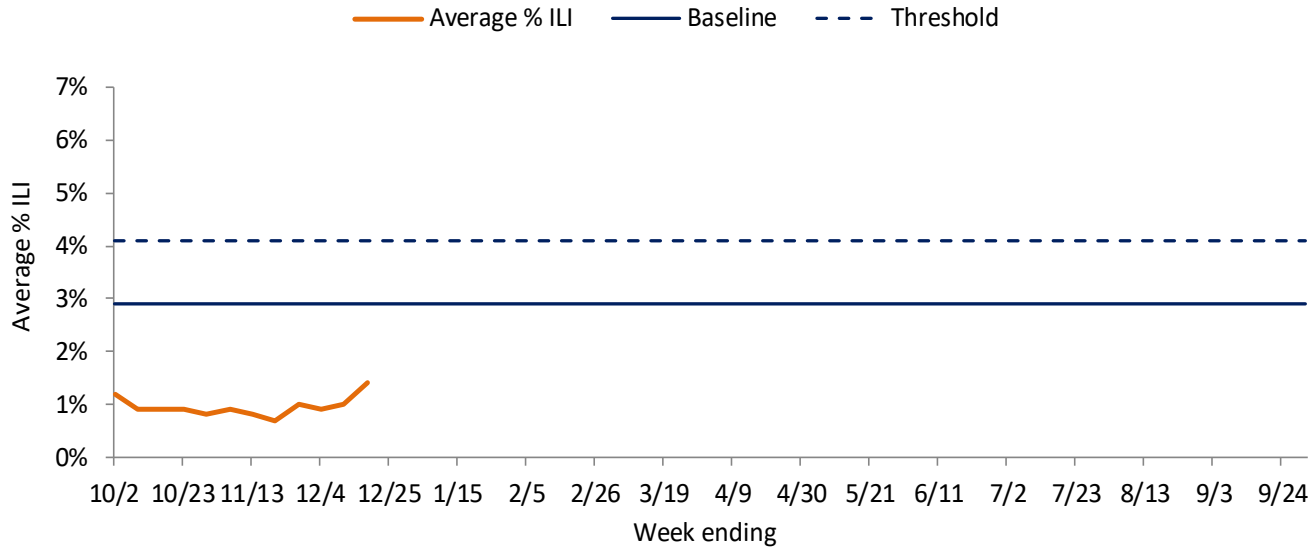


## Northern Region

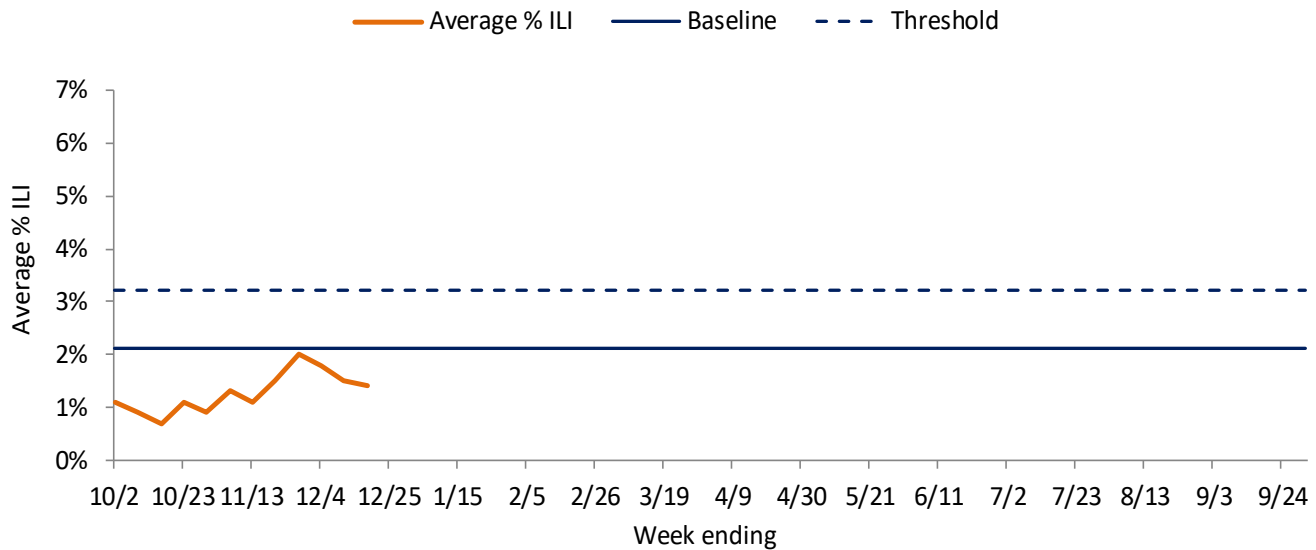


# ILI ACTIVITY TREND ANALYSIS

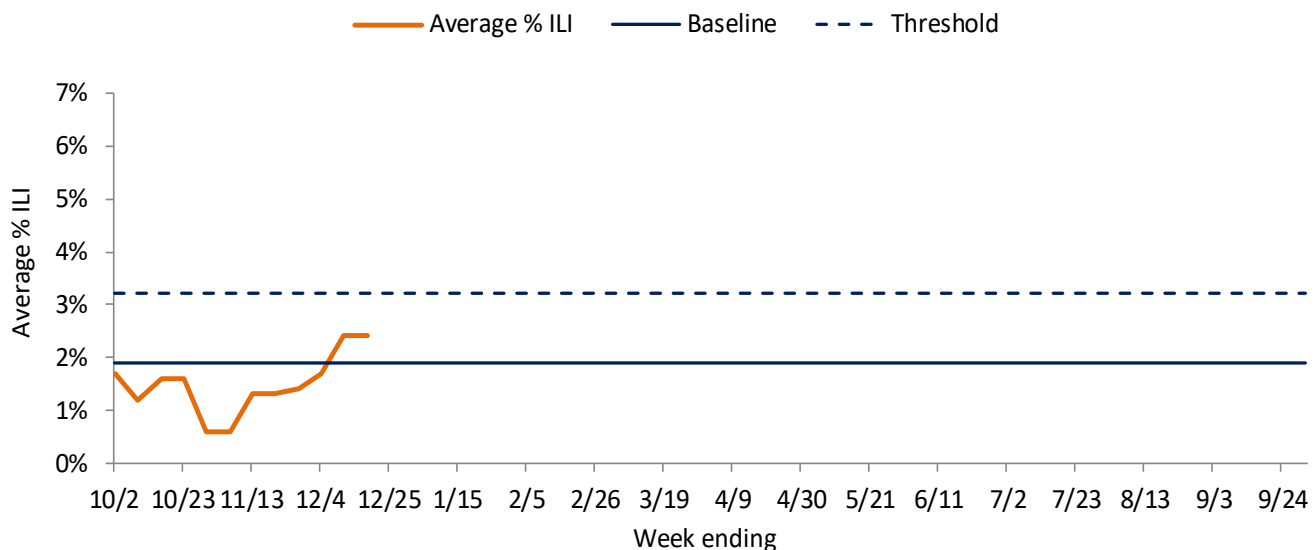
## Southeastern Region



## Southern Region



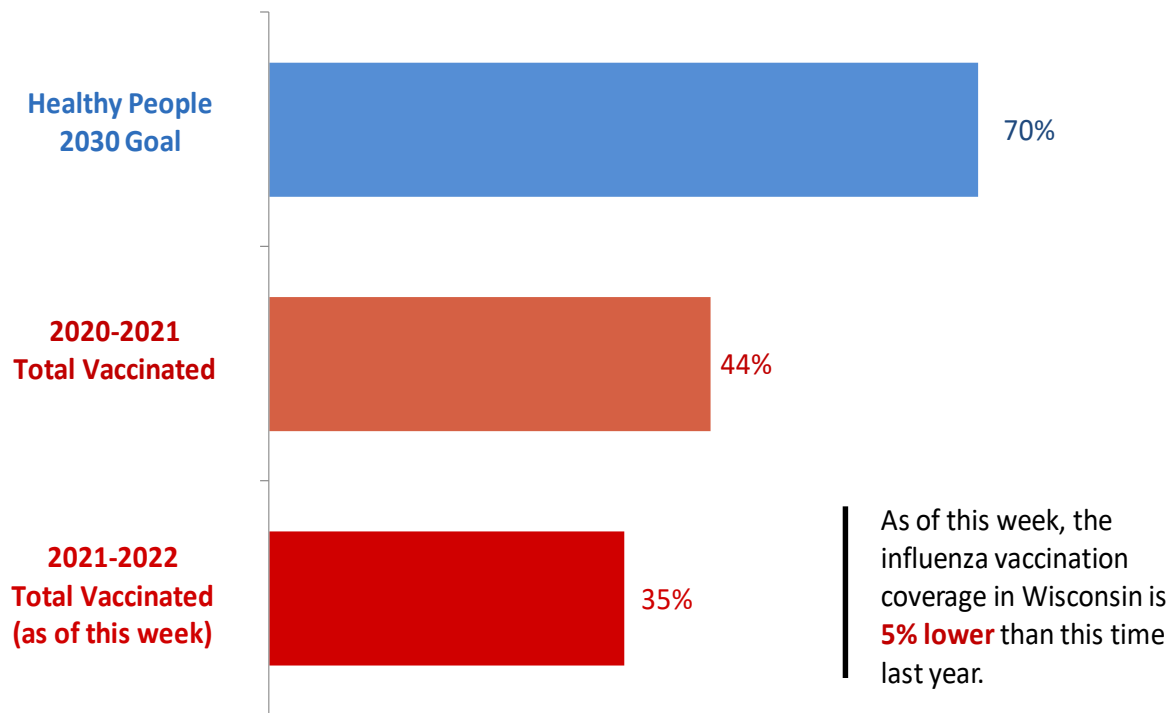
## Western Region





# SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2021-2022 influenza season



Data source: All influenza vaccination rates presented were calculated using data from the Wisconsin Immunization Registry (numerator) and Wisconsin population estimates (denominator).

## Influenza vaccine composition 2021-2022:

**Egg-based vaccines** are recommended to contain:

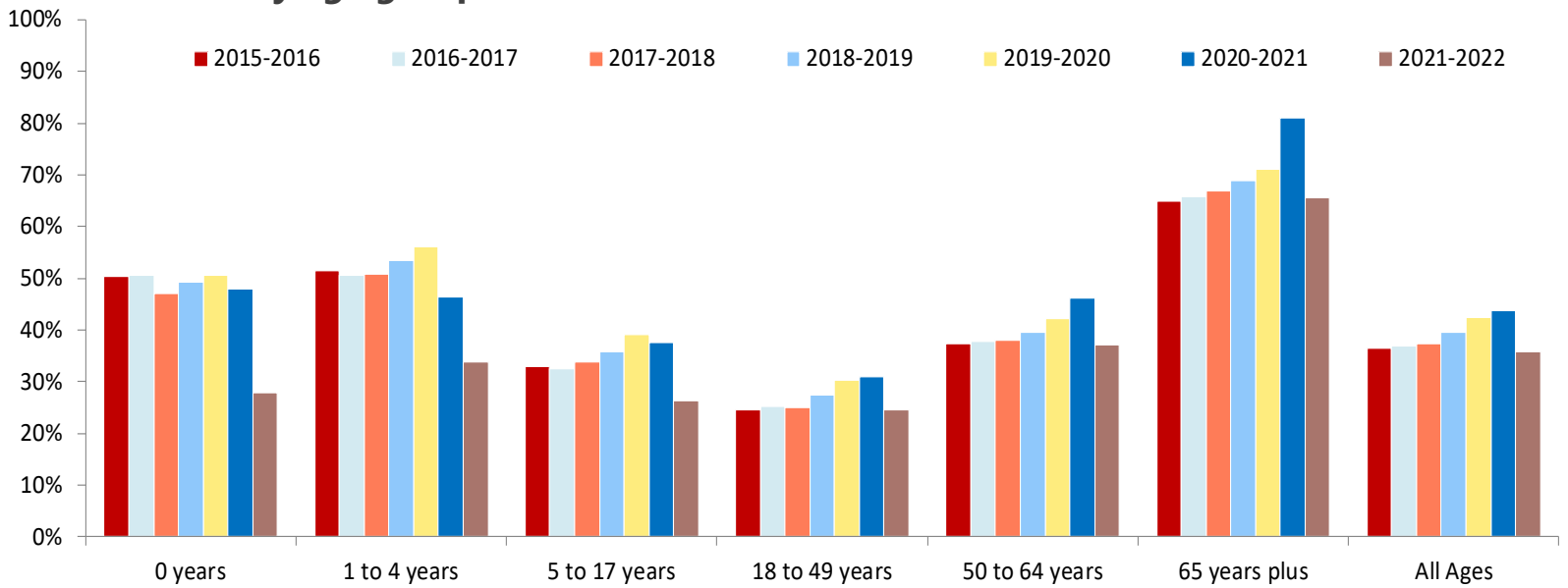
- A/Victoria/2570/2019 (H1N1) pdm09-like virus
- A/Cambodia/e0826360/2020 (H3N2)-like virus
- B/Washington/02/2019- like virus (B/Victoria lineage)
- B/Phuket/3073/2013-like virus (B/Yamagata lineage)

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

- A/Wisconsin/588/2019 (H1N1) pdm09-like virus
- A/Cambodia/e0826360/2020 (H3N2)-like virus
- B/Washington/02/2019- like virus (B/Victoria lineage)
- B/Phuket/3073/2013-like virus (B/Yamagata lineage)

# SEASONAL INFLUENZA VACCINATION

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by age group and influenza season



Each season includes doses administered during the same time period (August 1 through May 3).

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2021-2022 influenza season

