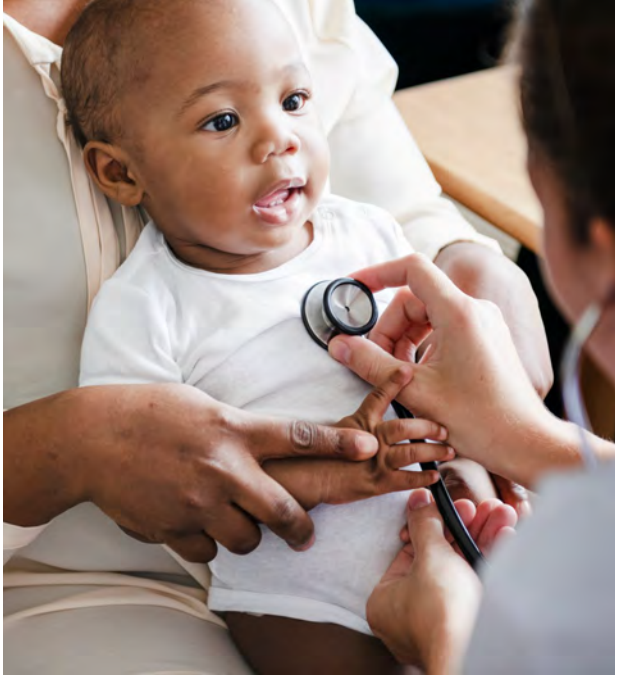


RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 3, Ending January 23, 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 | dhsdphbcd@dhs.wi.gov

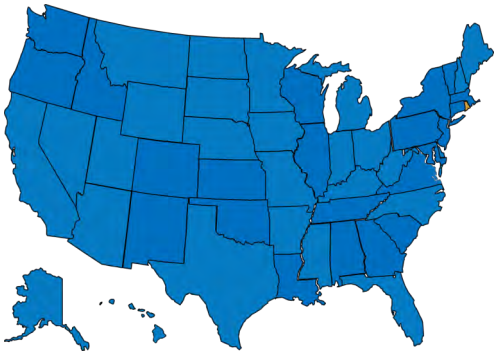
P-02346

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:**
  Rhino/enterovirus and SARS-CoV-2 (virus causing COVID-19)

Current Alerts:

One human infection with a novel influenza A/H3N2v (variant) virus was detected in Wisconsin. The patient is < 18 years of age, and lives on farm with swine present. The patient has completely recovered from their illness. This is the first influenza A/H3N2v virus infection detected in the United States in 2021.

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:

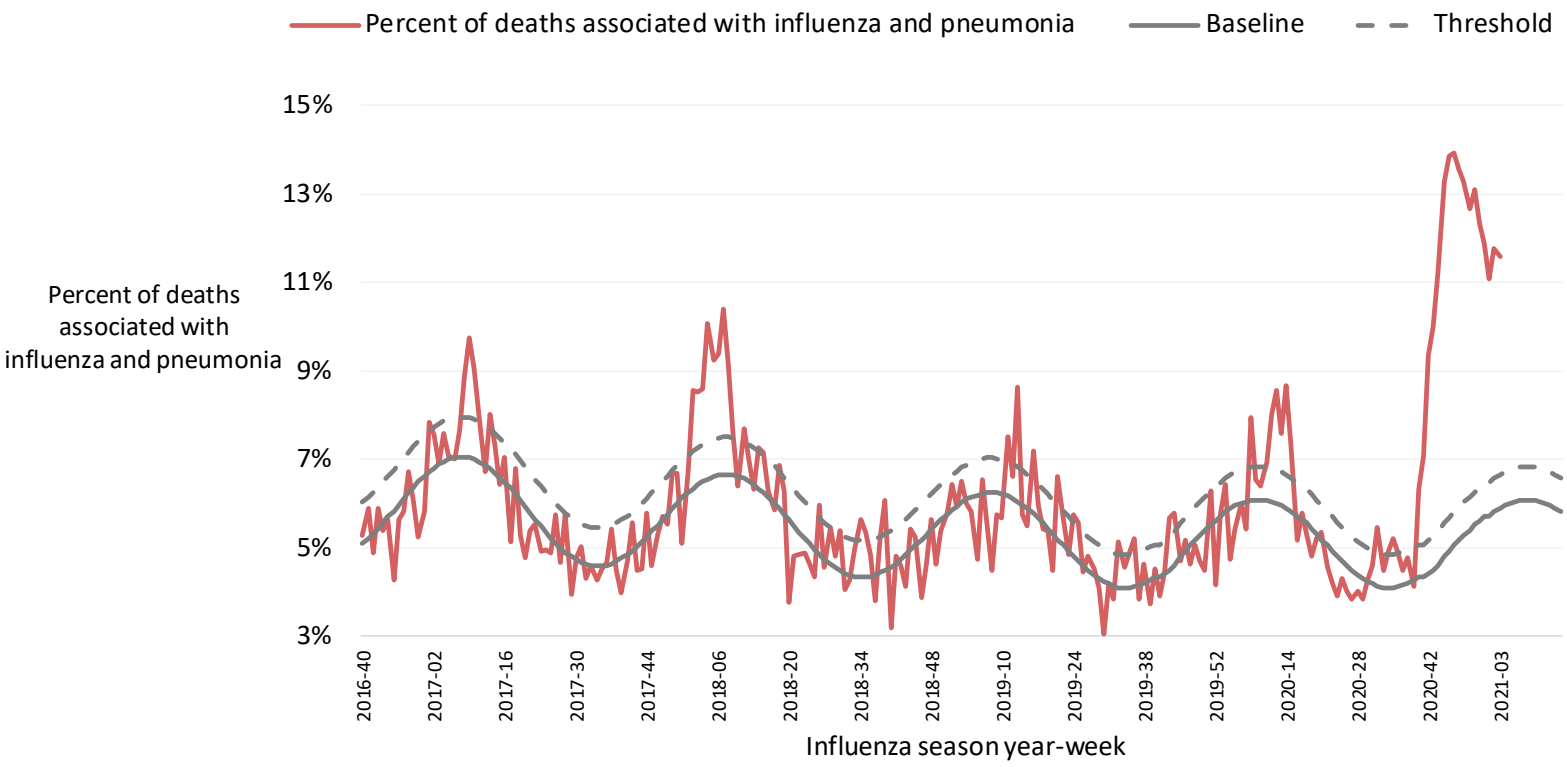
	Week 3, 2021	October 1, 2020 to present
Wisconsin	0	0
Nationwide	0	1

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



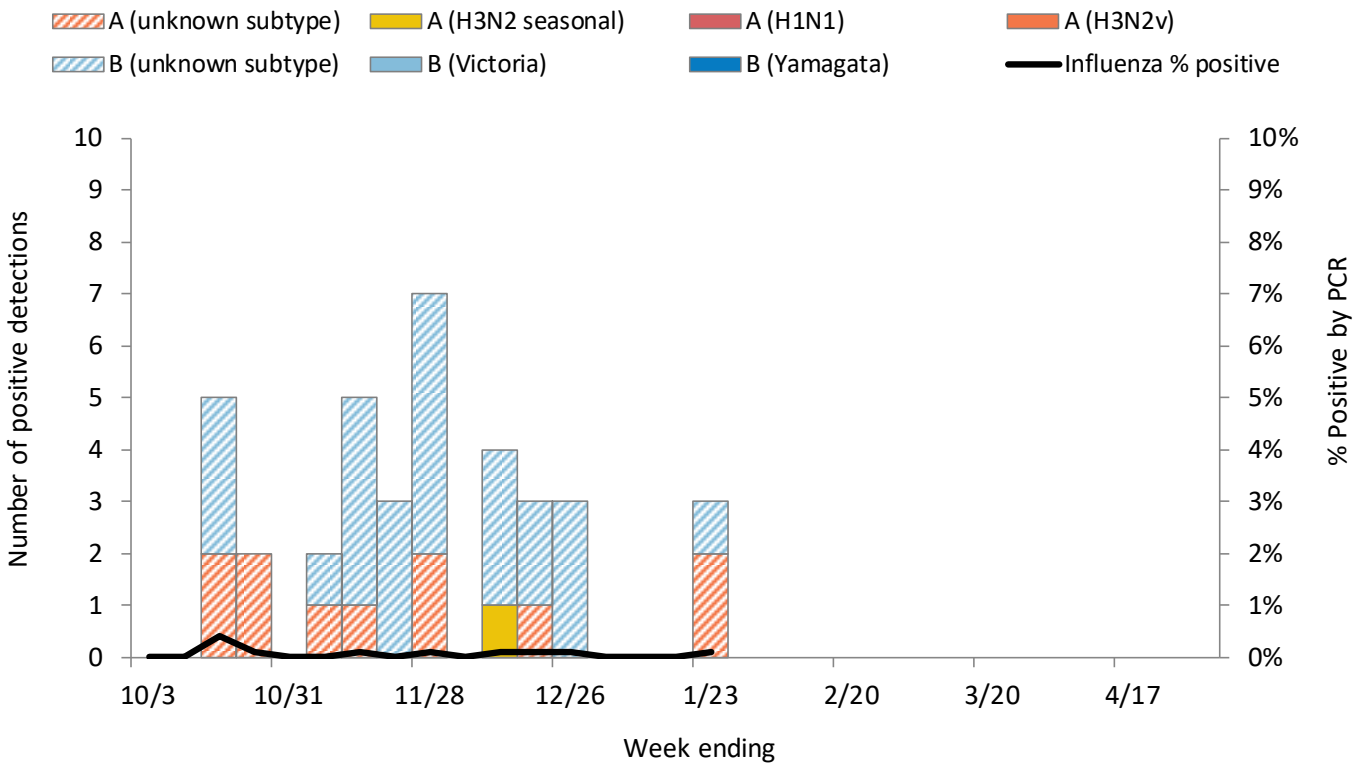
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2020-2021 season

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
1	0	153	11.4%	5.7%	6.5%
2	1	143	11.8%	5.8%	6.6%
3 Preliminary Data	0	118	11.6%	5.9%	6.7%
Seasonal total	1	2844	11.5%	NA	NA

Data source: DPH, Office of Health Informatics

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR



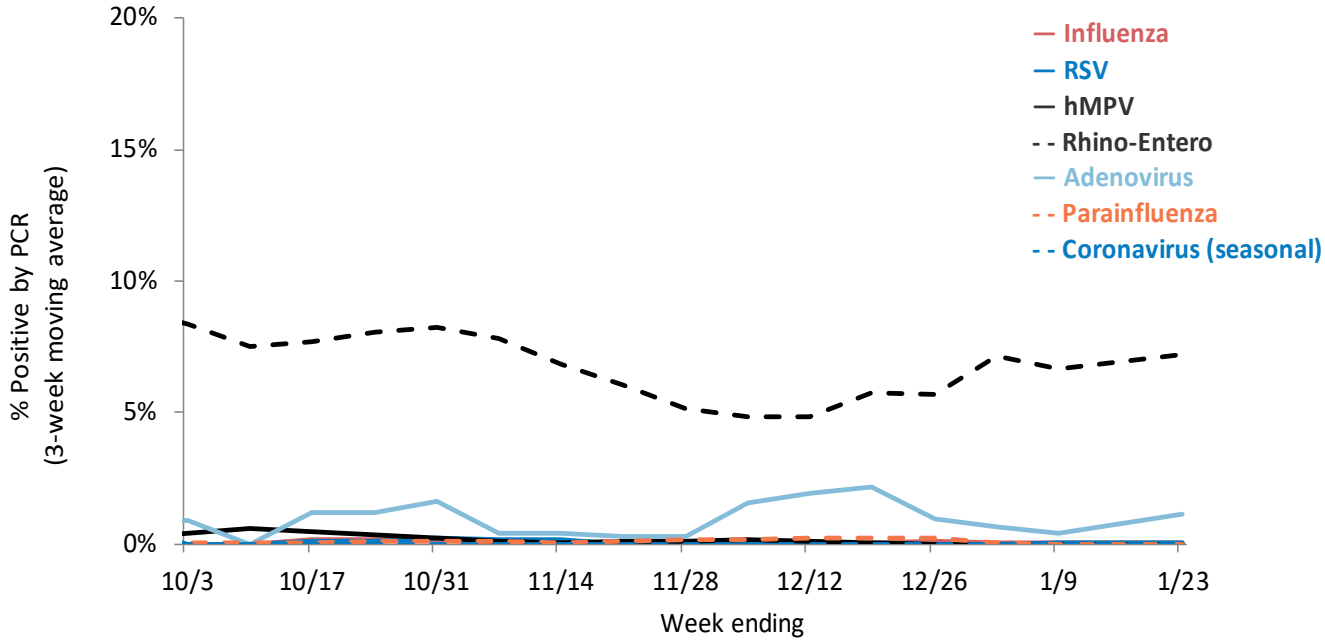
Cumulative number of positive influenza PCR tests by subtype

October 1, 2020 to present

	Influenza A: 32%			Influenza B: 68%			Total
	A (2009 H1N1)	A (H3N2)	A (Unknown)	B (Victoria)	B (Yamagata)	B (Unknown)	
Total positive (n)	0	1	11	0	0	25	37
% of total positive	0%	3%	30%	0%	0%	68%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 3: Ending on January 23, 2021

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	4569	3	0.1%	0	0	2	0	0	1

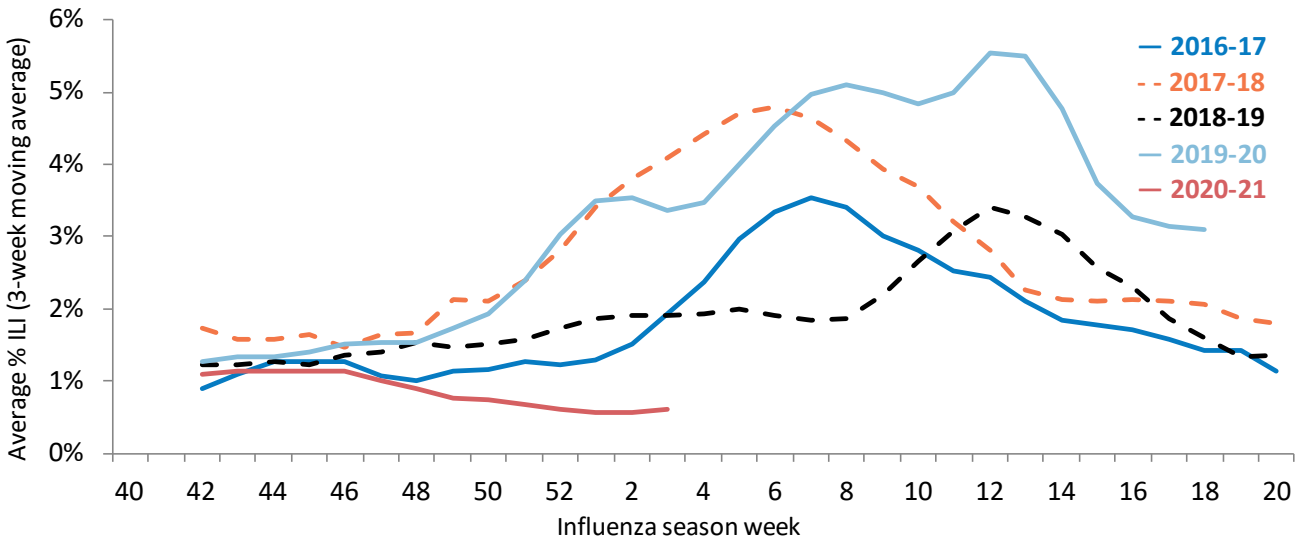
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	966	0	0%	0	0	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (seasonal)	134	0	0%	0	0	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1620	1	0.1%
Human metapneumovirus	978	0	0%
Rhino-enterovirus	960	64	6.7%
Adenovirus	134	3	2.2%

WISCONSIN STATE SUMMARY

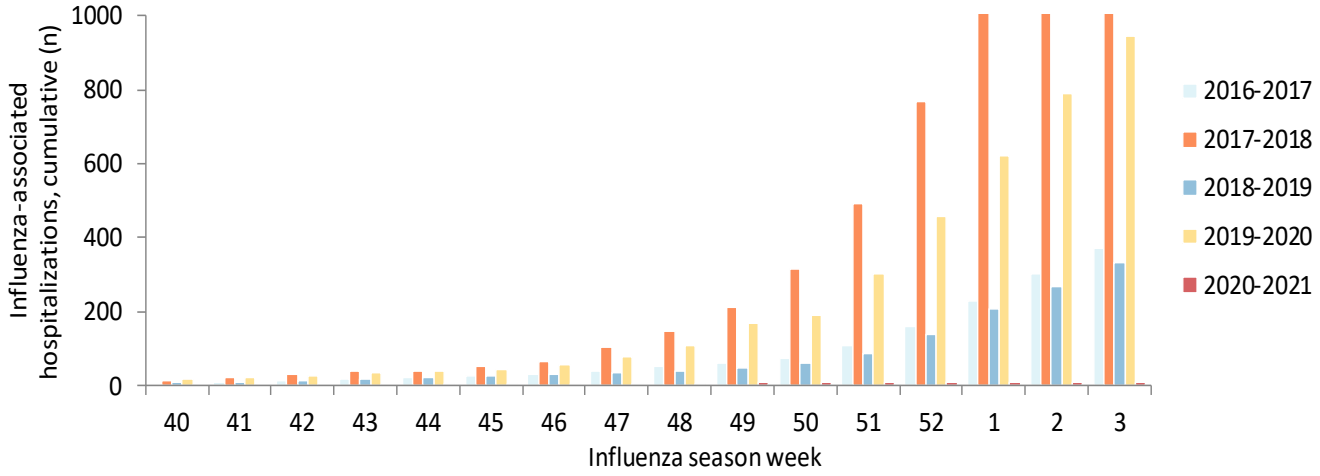
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2020 to present

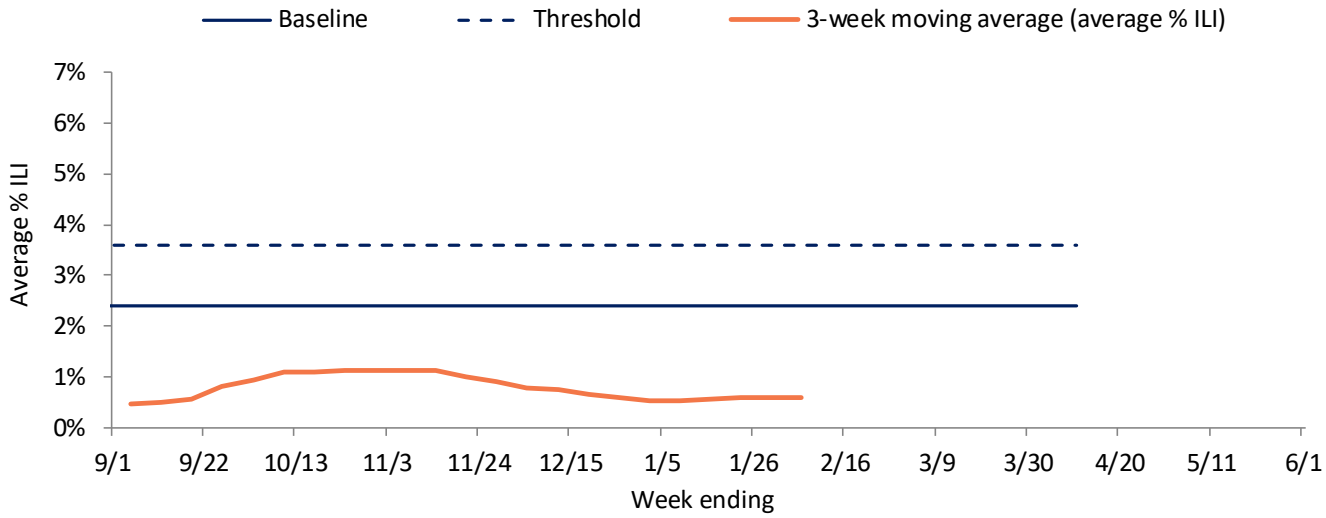
Age group (years)	Total reported (n)	Influenza subtype					Admitted to ICU	Required mechanical ventilation	Pregnant	Postpartum (≤6 weeks)
		A (2009 H1N1)	A (H3N2)	A (Unknown)	B	Not reported				
<1	0	0	0	0	0	0	0	0		
1-4	0	0	0	0	0	0	0	0		
5-17	0	0	0	0	0	0	0	0		
18-49	2	0	0	0	2	0	0	0	0	0
50-64	3	0	0	2	1	0	0	0		
65+	5	0	0	1	4	0	0	0		
Total	**10**	**0**	**0**	**3**	**7**	**0**	**0**	**0**	**0**	**0**

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

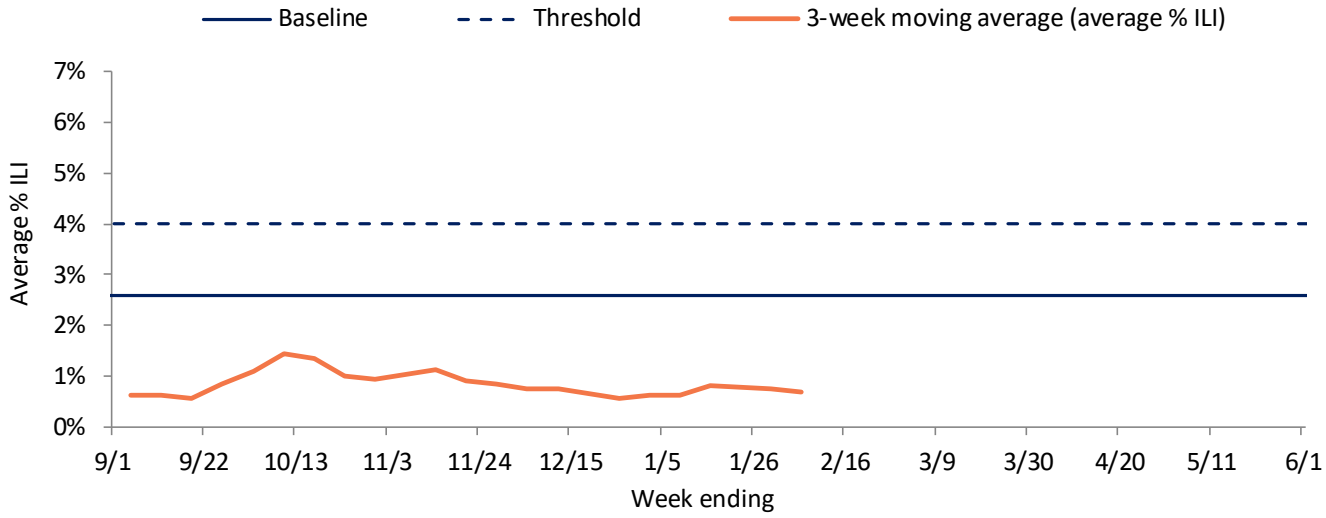


ILI ACTIVITY TREND ANALYSIS

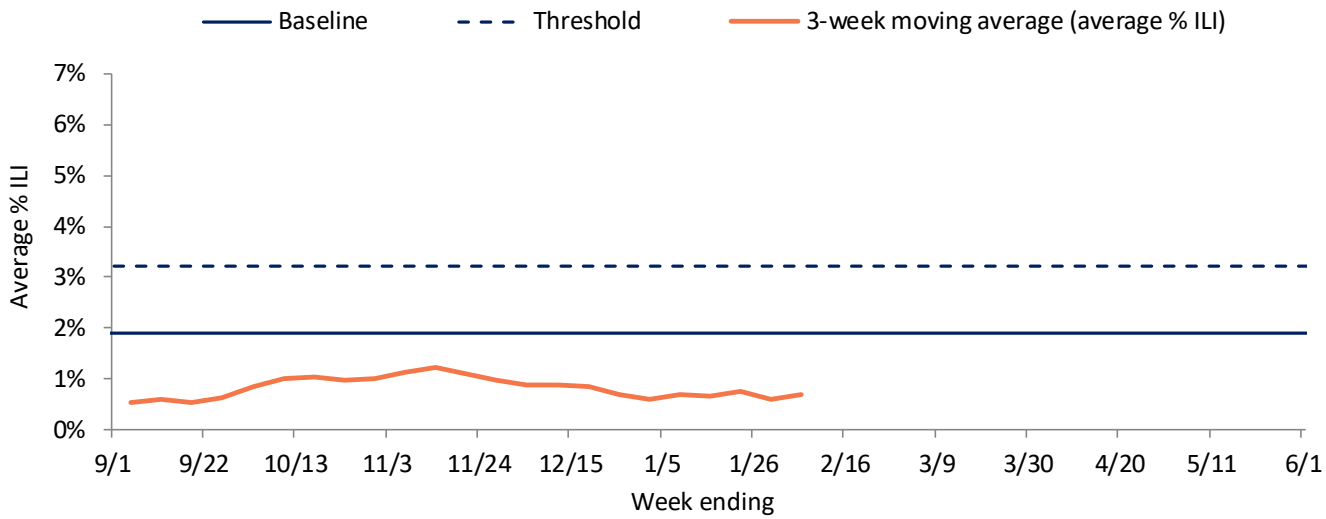
Wisconsin



Northeastern Region

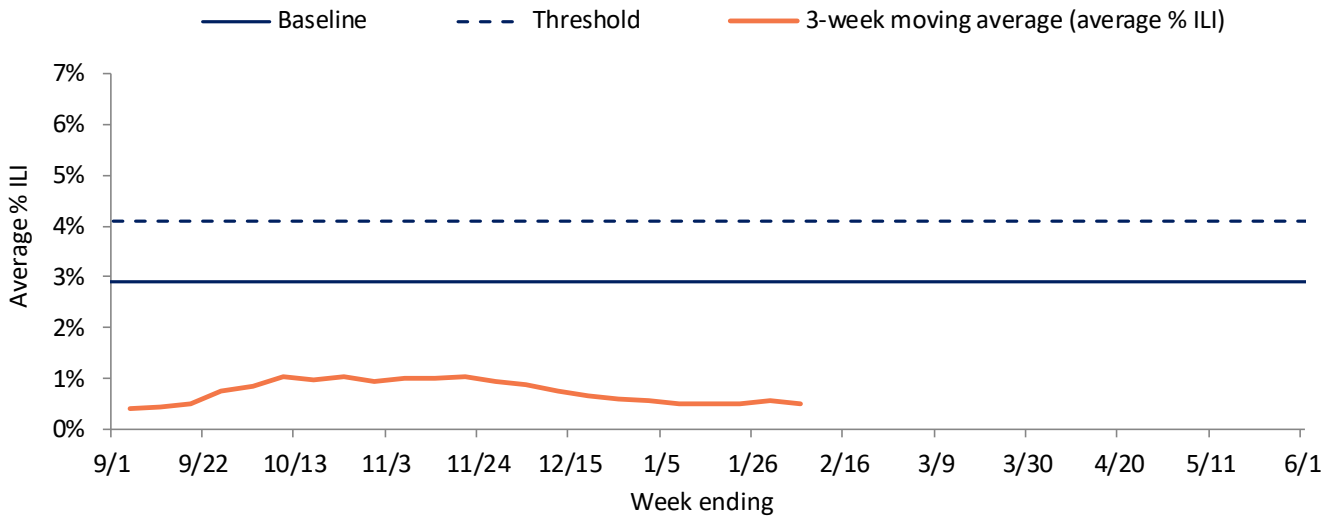


Northern Region

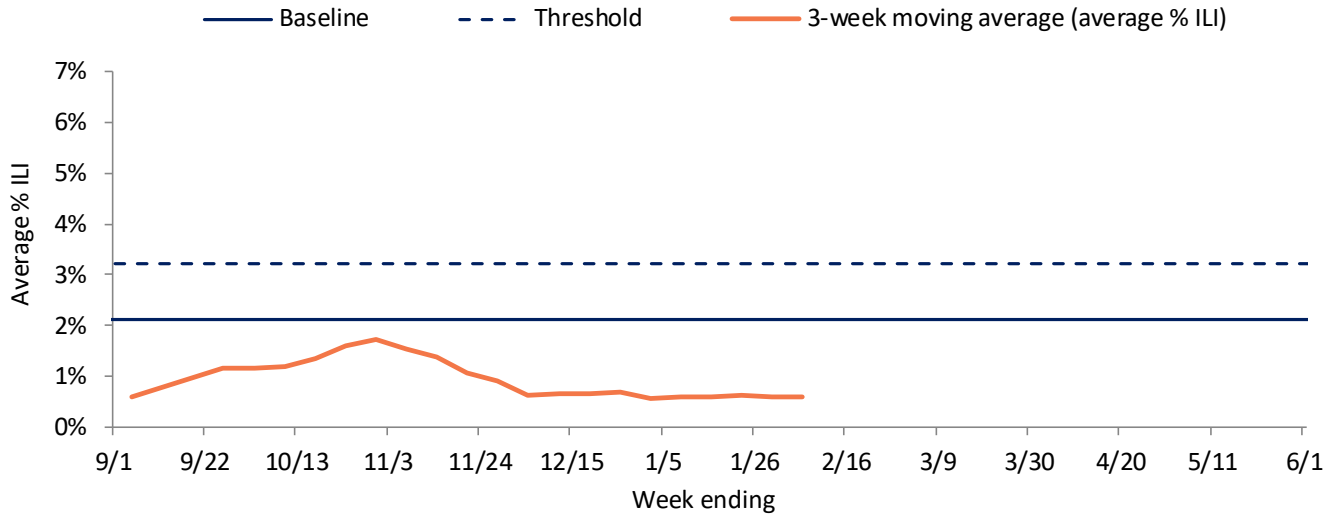


ILI ACTIVITY TREND ANALYSIS

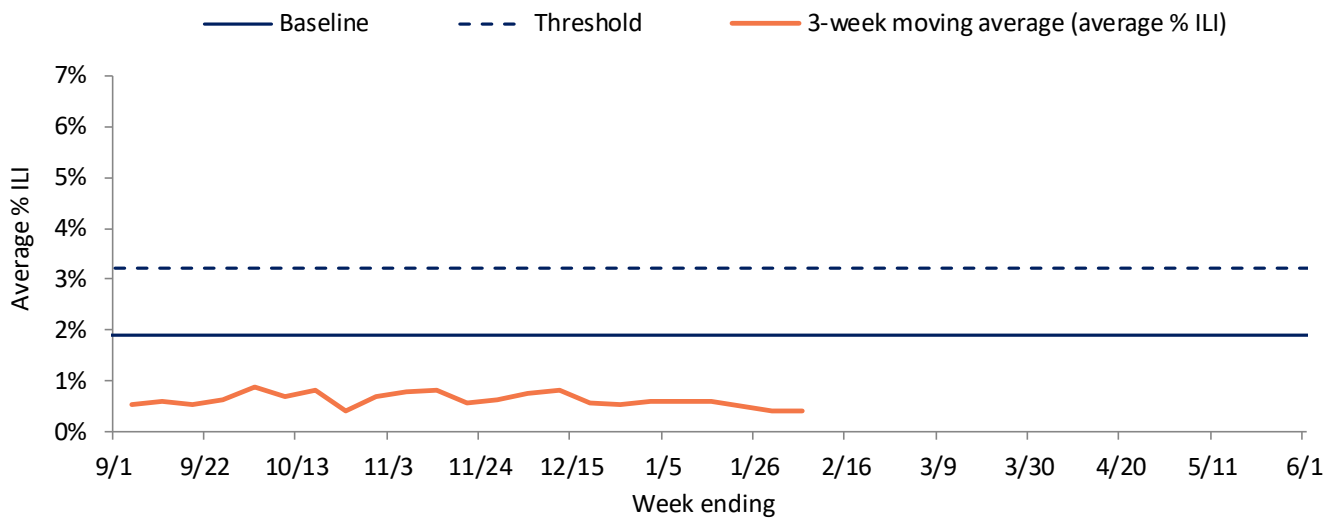
Southeastern Region



Southern Region

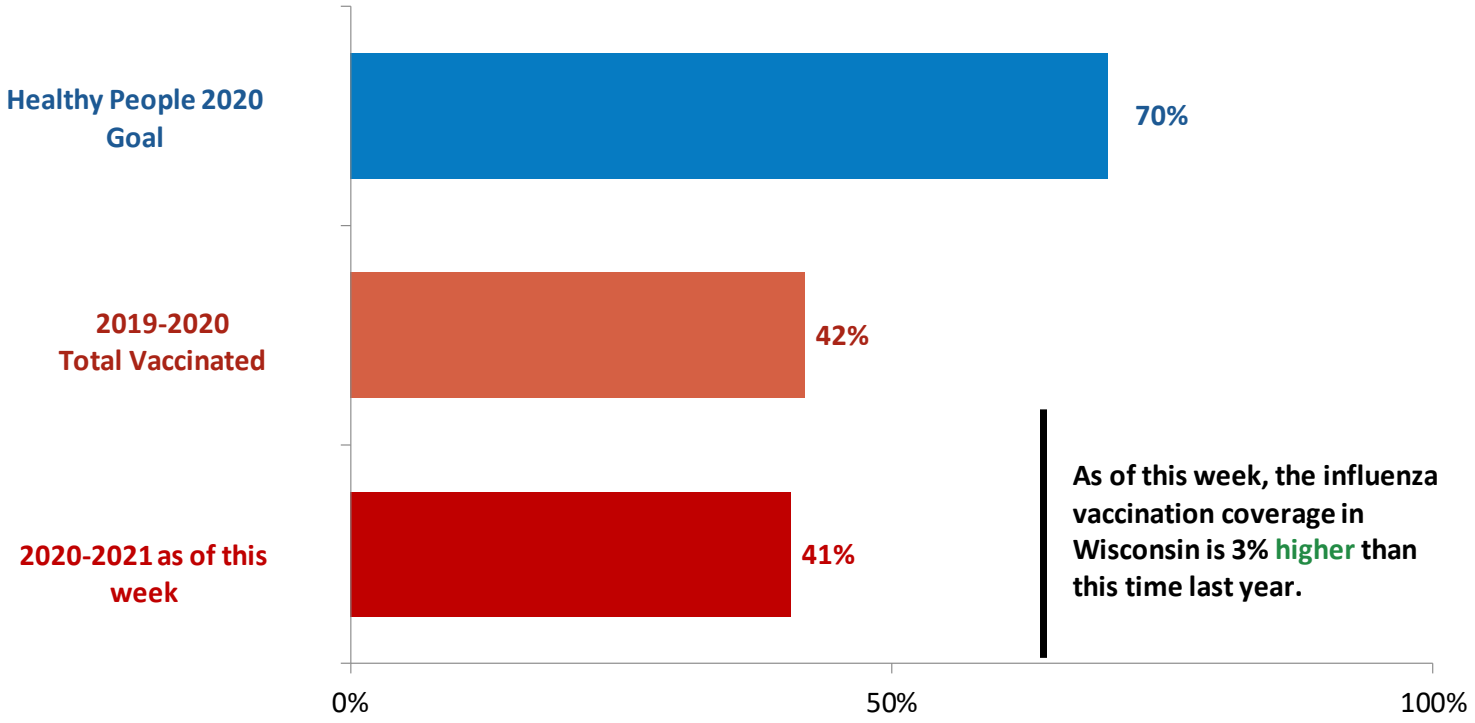


Western Region



SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2020-2021 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 2020-2021:

Trivalent (three-component) egg-based vaccines are recommended to contain:

- A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/2671/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)

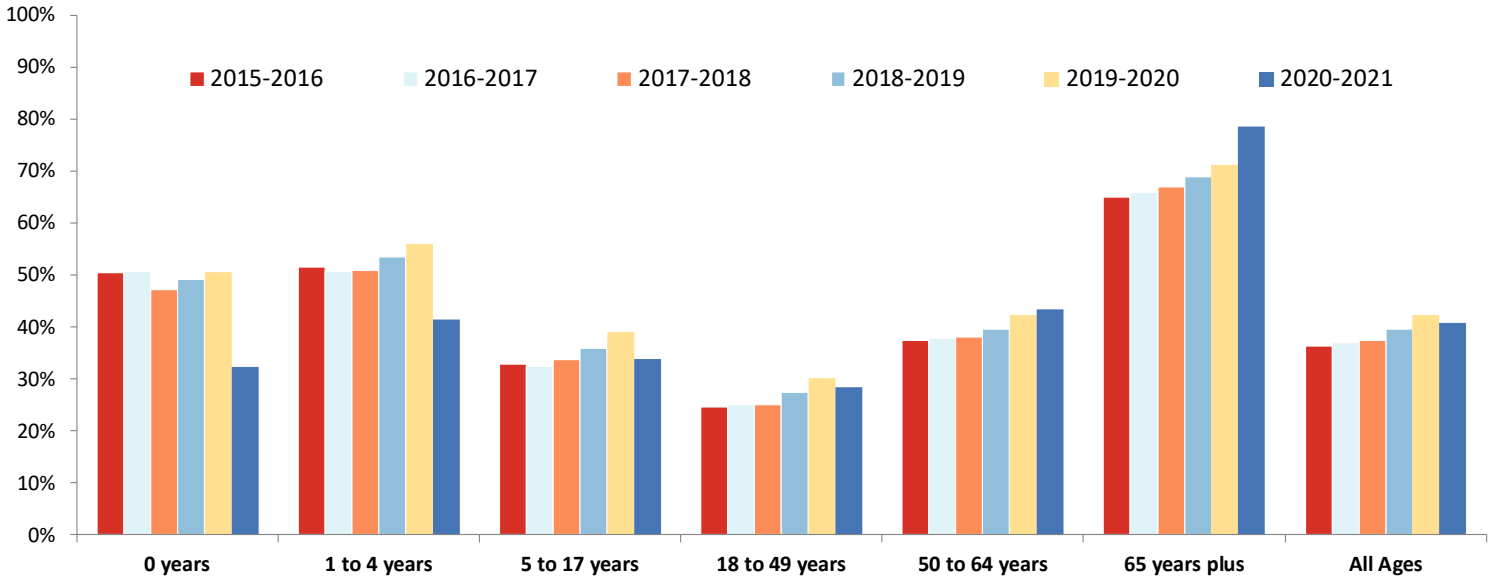
Quadrivalent (four-component) egg-based vaccines, which protect against a second lineage of B viruses, are recommended to contain: the three recommended viruses above, plus B/Phuket/3073/2013 -like (Yamagata lineage) virus.

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

- A/Hawaii/70/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/45/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)
- B/Phuket/3073/2013-like (Yamagata lineage) virus

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, 2020-2021 influenza season