



RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 51, Ending December 19, 2020

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

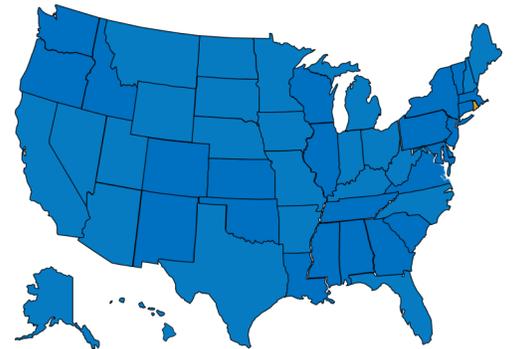
STATE OF WISCONSIN



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

Current Alerts:

Influenza activity remains extremely low statewide and nationally.

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, 2020	October 1, 2020 to present
Wisconsin	0	0
Nationwide	0	1



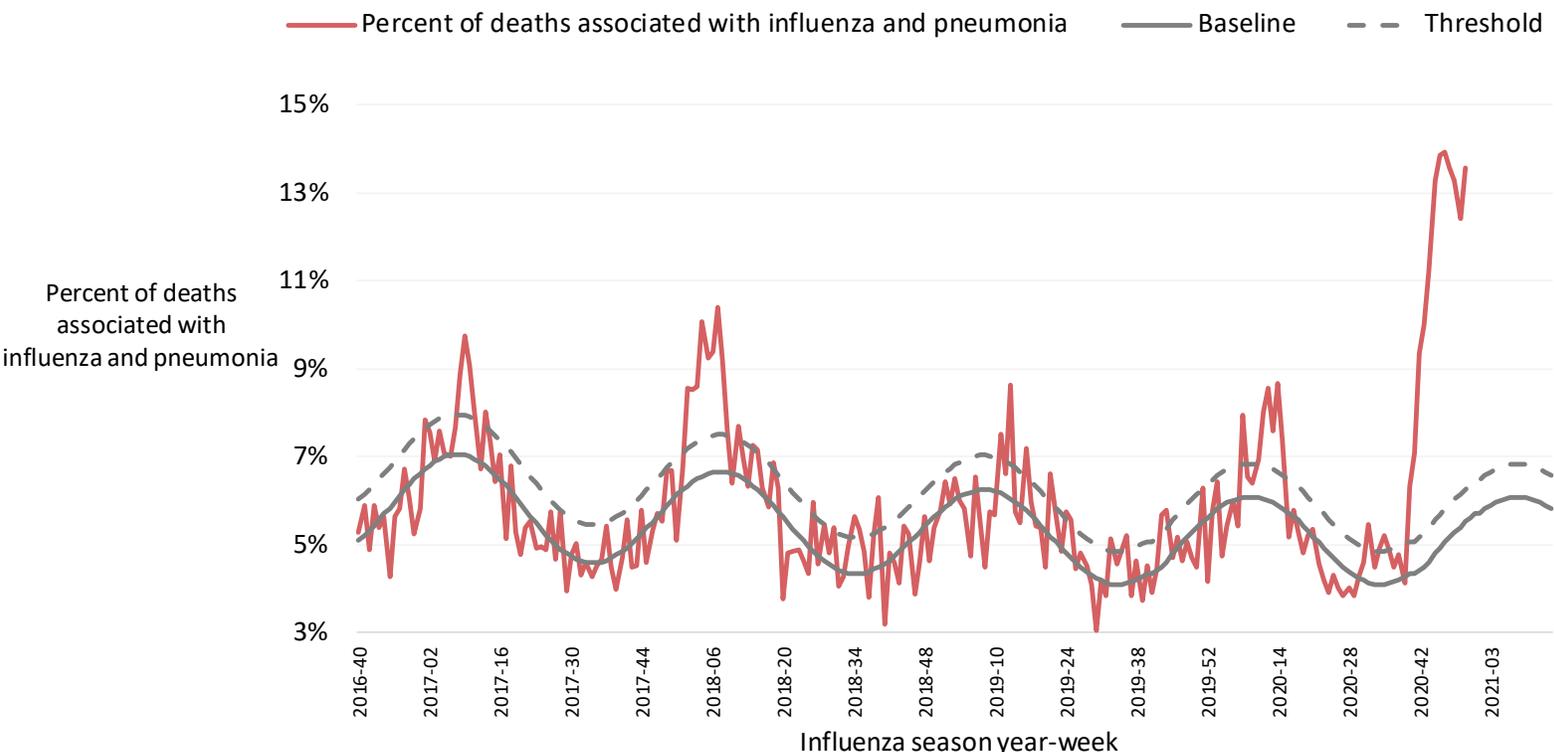
For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



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

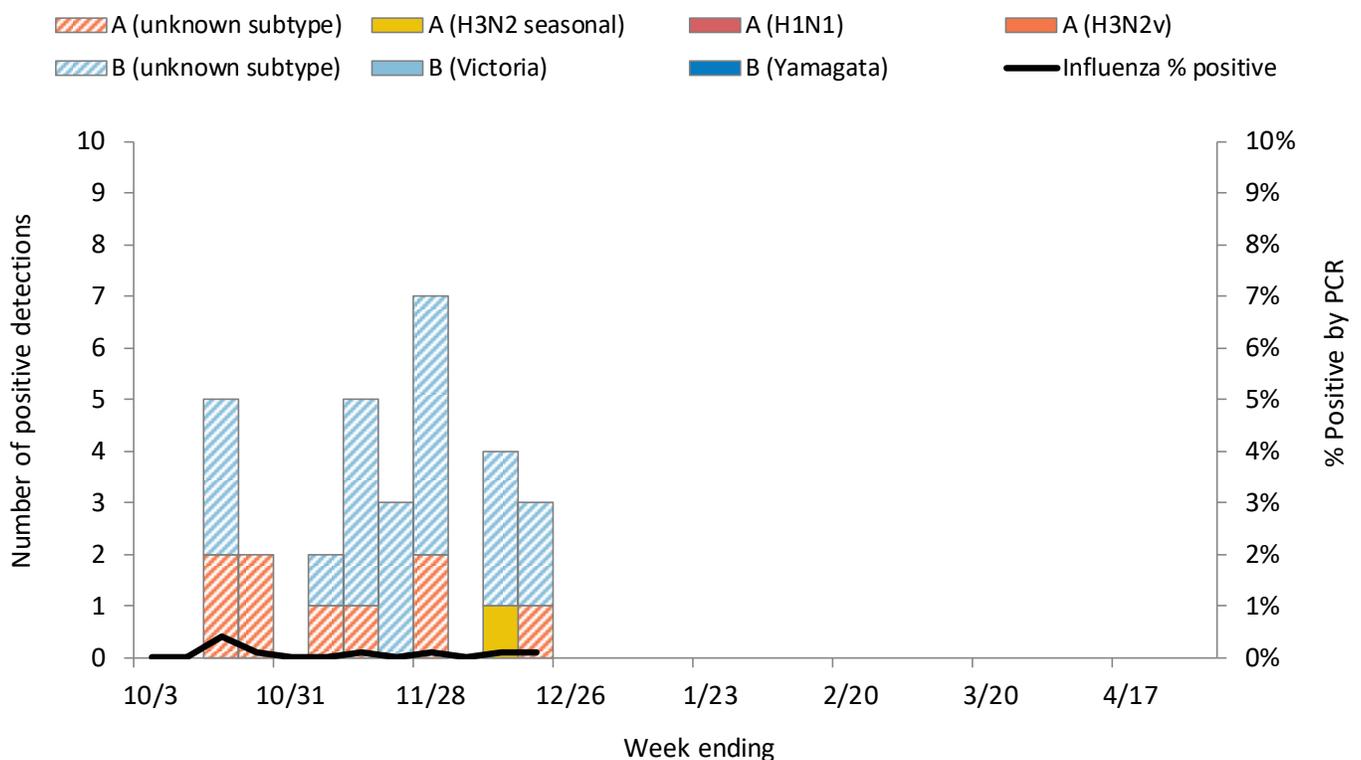
Influenza season week	Influenza-associated deaths (I)	Pneumonia-associated deaths 233(P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
49	0	219	13.3%	5.3%	6.0%
50	0	196	12.8%	5.4%	6.2%
51 Preliminary Data	1	169	13.6%	5.5%	6.3%
Seasonal total	1	2074	11.7%	NA	NA

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



WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

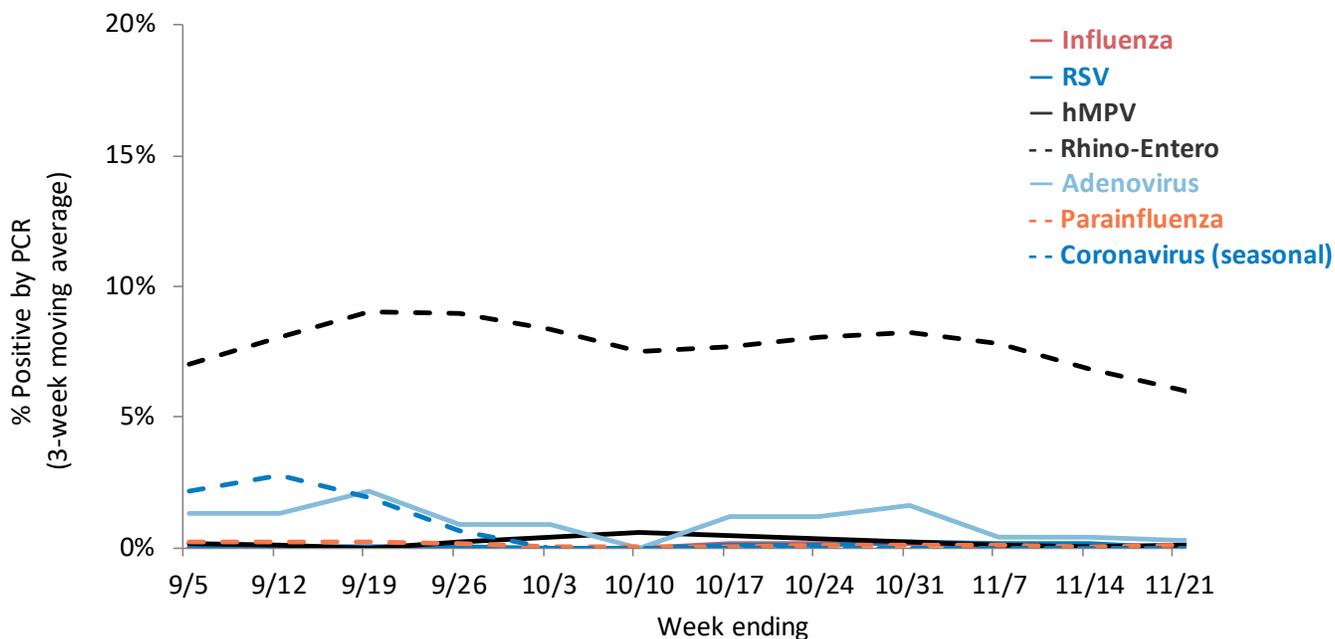


Cumulative number of positive influenza PCR tests by subtype September 1, 2020 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	32% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	68% B (Unknown)	Total
Total positive (n)	0	1	9	0	0	21	31
% of total positive	0%	3%	29%	0%	0%	68%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 51: Ending on December 12, 2020

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	5281	3	0.1%	0	0	1	0	0	2

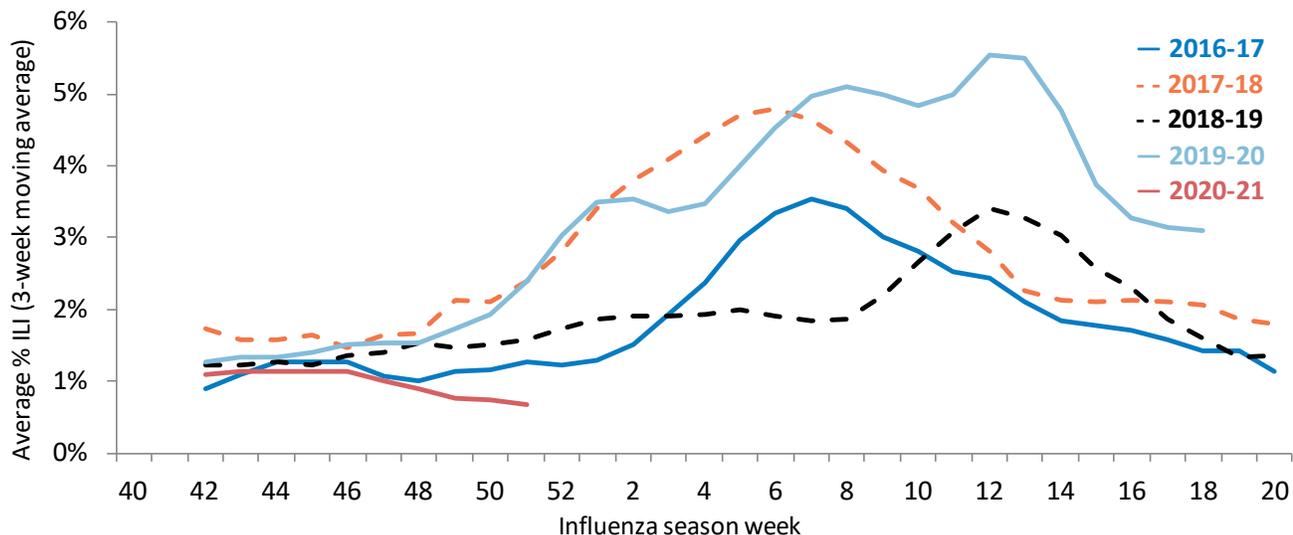
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	784	1	0.1%	0	0	1	0

Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (seasonal)	127	0	0%	0	0	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1085	0	0%
Human metapneumovirus	794	0	0%
Rhino-enterovirus	770	55	7.1%
Adenovirus	127	1	0.8%

WISCONSIN STATE SUMMARY

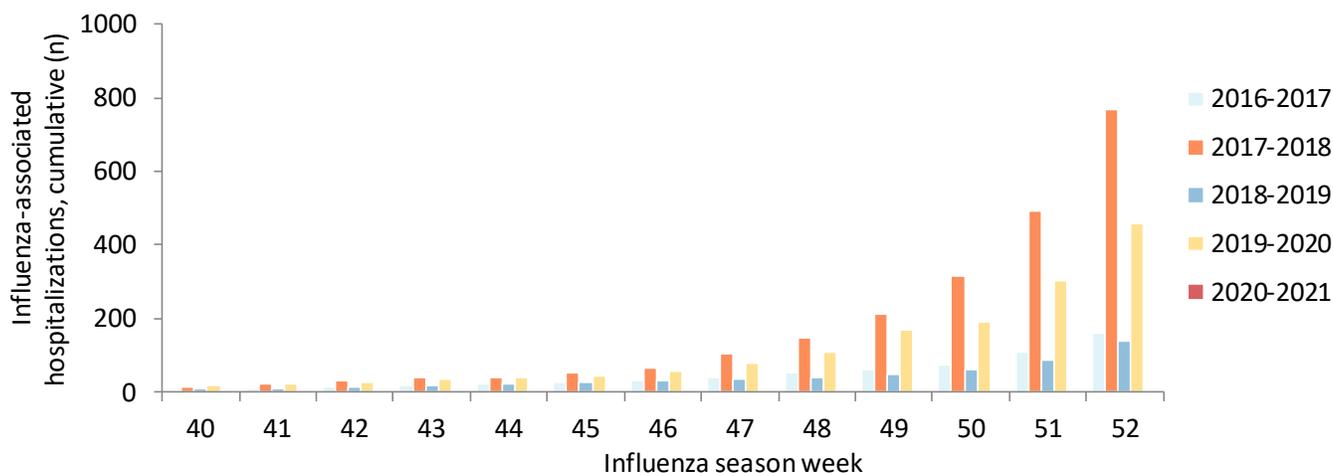
ILI activity trend analysis by influenza season, Wisconsin



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

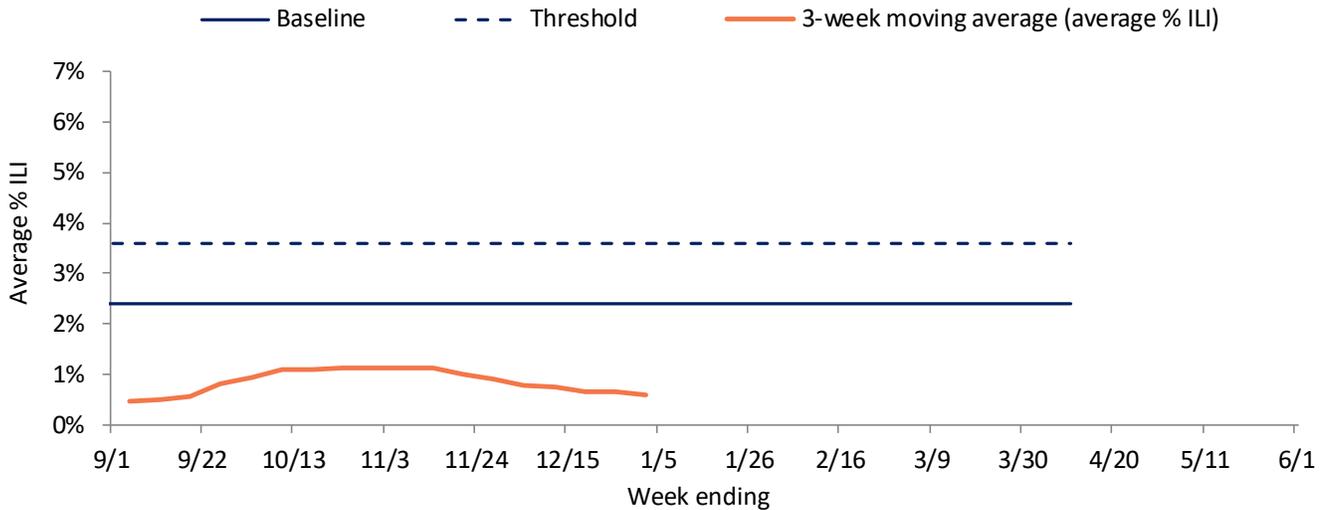
Age group (years)	Total reported (n)	Influenza subtype					Admitted to ICU	Required mechanical ventilation	Pregnant	Postpartum (≤6 weeks)
		A (2009 H1N1)	A (H3N2)	A (Unknown)	B	Not reported				
<1	0	0	0	0	0	0	0	0		
1-4	0	0	0	0	0	0	0	0		
5-17	0	0	0	0	0	0	0	0		
18-49	3	0	0	1	2	0	0	0	0	0
50-64	1	0	0	0	1	0	0	0		
65+	5	0	0	1	4	0	0	0		
Total	9	0	0	2	7	0	0	0	0	0

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

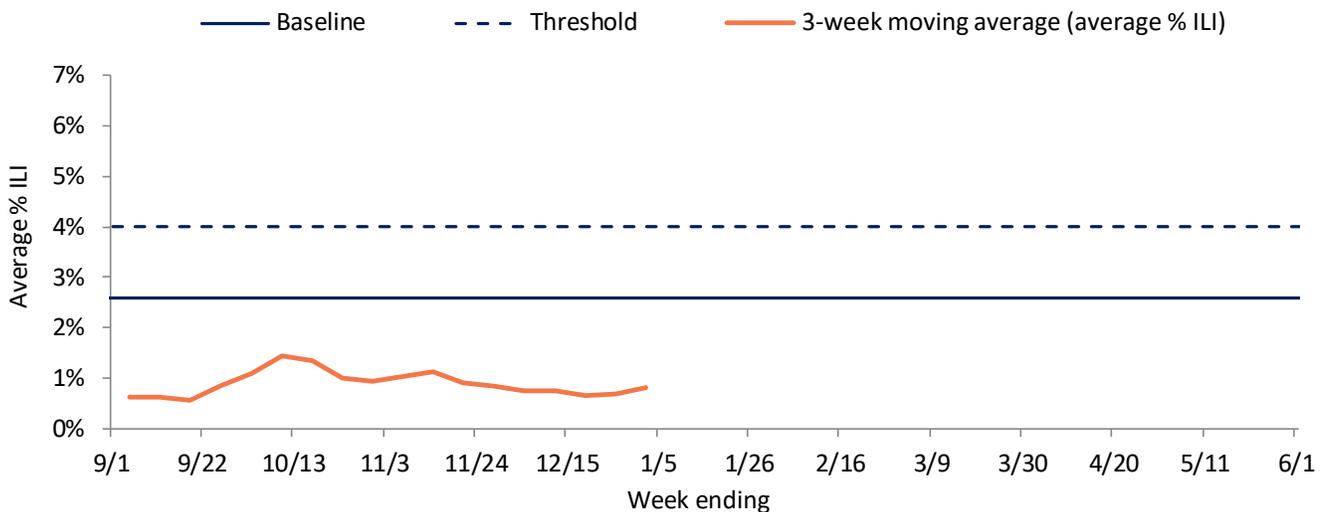


ILI ACTIVITY TREND ANALYSIS

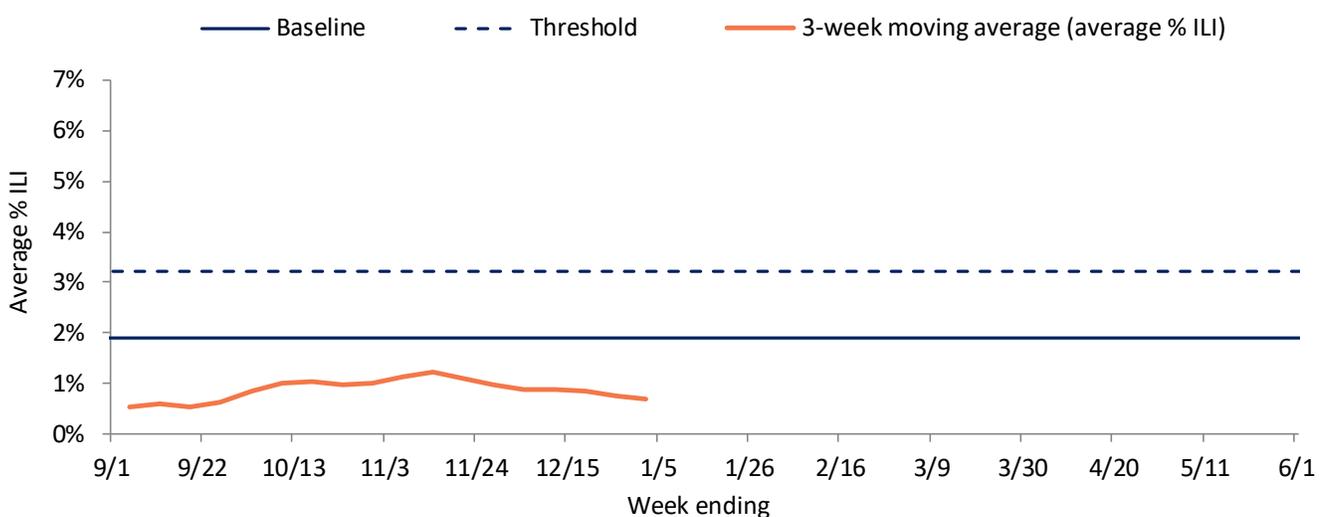
Wisconsin



Northeastern Region

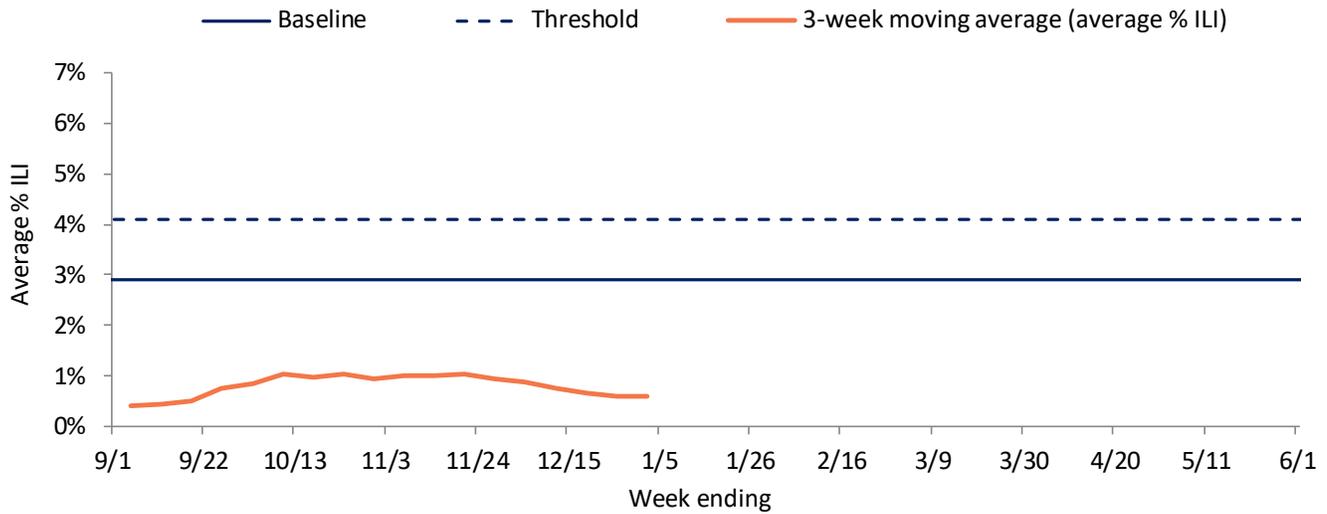


Northern Region

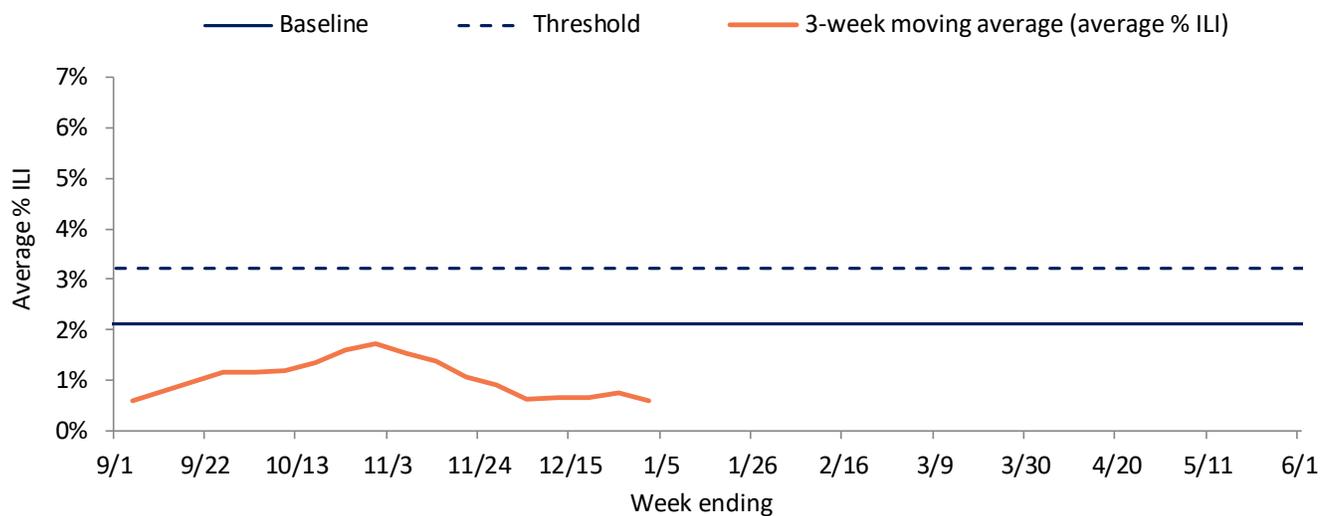


ILI ACTIVITY TREND ANALYSIS

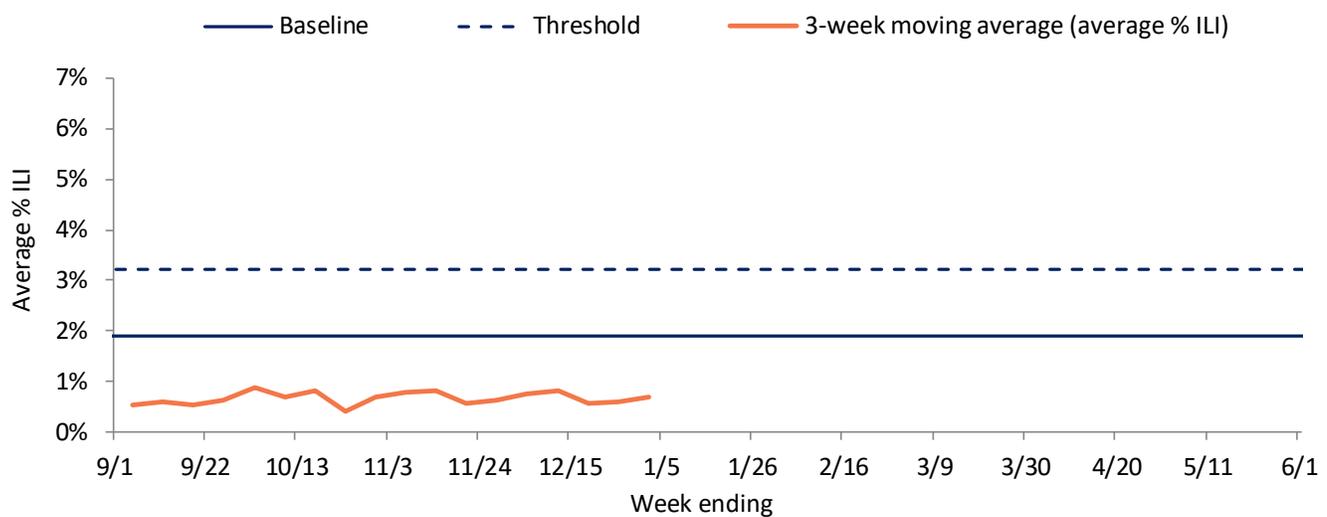
Southeastern Region



Southern Region

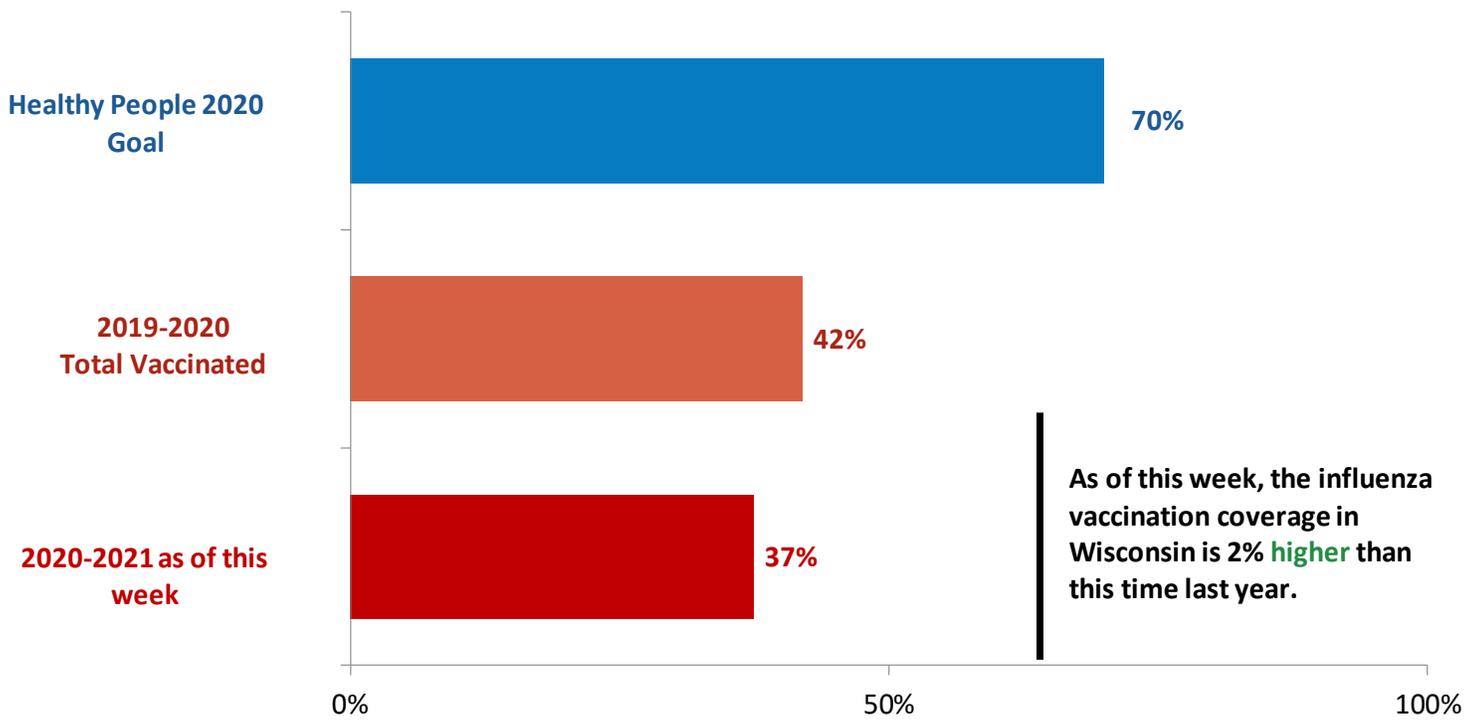


Western Region



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)

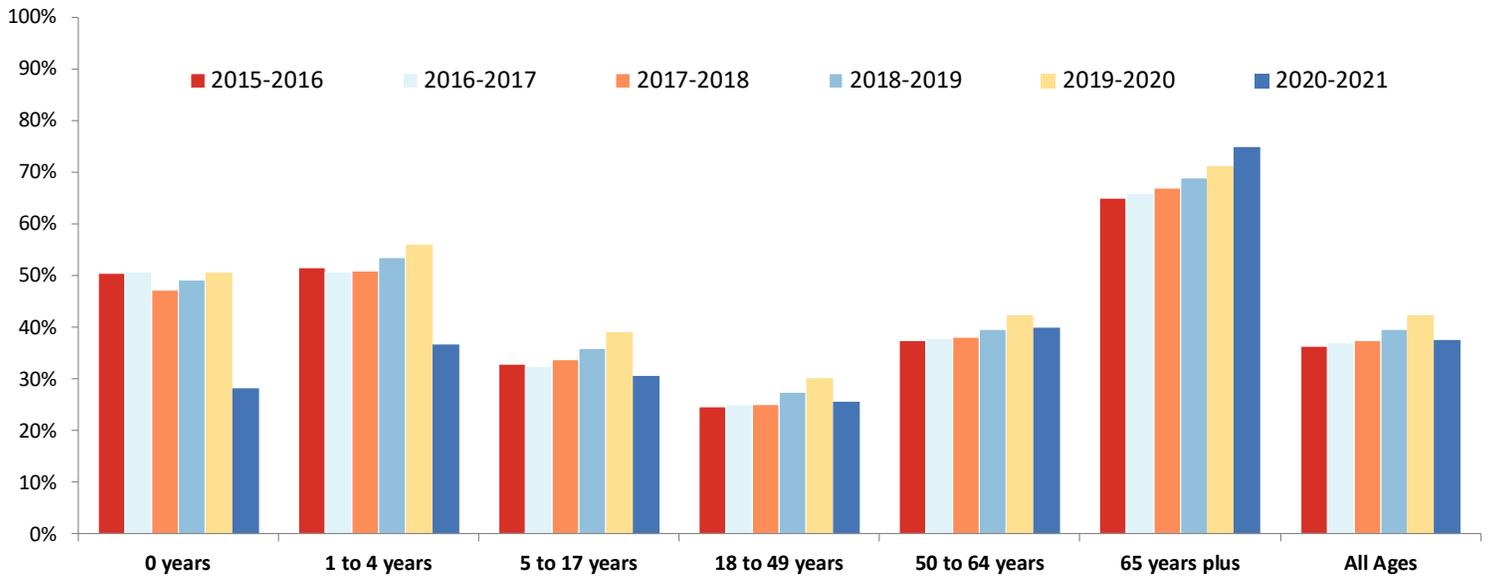
Quadrivalent (four-component) egg-based vaccines, which protect against a second lineage of B viruses, are recommended to contain: the three recommended viruses above, plus B/Phuket/3073/2013-like (Yamagata lineage) virus.

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

