

#### WISCONSIN DEPARTMENT of HEALTH SERVICES



# **RESPIRATORY VIRUS SURVEILLANCE REPORT** Week 21, Ending May 28, 2023

Wisconsin Department of Health Services | Division of Public Health Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section <u>www.dhs.wisconsin.gov/dph/bcd.htm</u> | <u>dhsdphbcd@dhs.wi.gov</u>





**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:

Rhinovirus/Enterovirus is the predominant virus this week.

#### **Current Alerts:**

- Non-COVID respiratory outbreaks in long term care facilities continue to be reported. Human metapneumovirus and parainfluenza-3 have been reported most frequently in these outbreaks.
- Additional data on SARS-CoV-2 (the virus causing COVID-19) trends in Wisconsin can be found at: <u>https://www.dhs.wisconsin.gov/covid-19/data.htm</u>

### INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

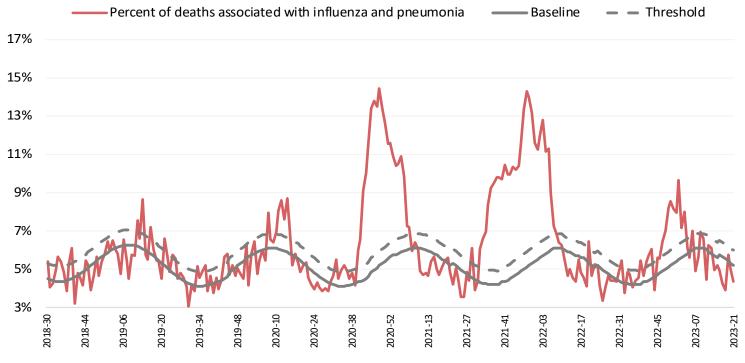
	Week 21, 2023	October 1, 2022 to present
Wisconsin	0	3
Nationwide	0	154

For National US influenza surveillance statistics visit: <a href="http://www.cdc.gov/flu/weekly/">www.cdc.gov/flu/weekly/</a>



## INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY Influenza and Pneumonia Deaths, Wisconsin

#### Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin



Influenza season year-week

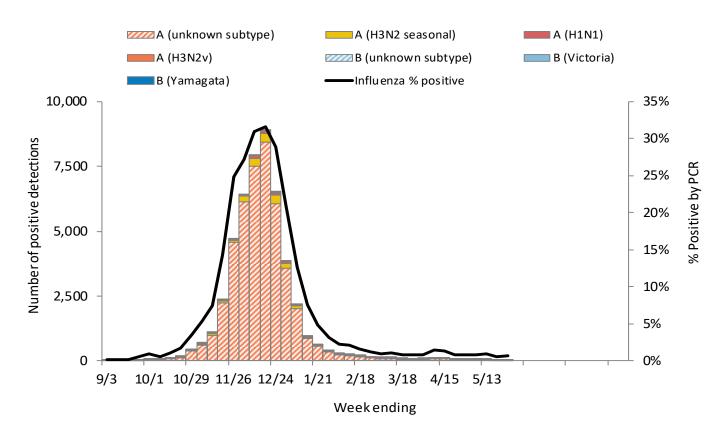
#### Influenza- and pneumonia-associated deaths by most recent 3 week period.

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
19	0	60	5.7%	5.4%	6.2%
20	0	54	5.0%	5.3%	6.1%
21 Preliminary Data	1	55	4.4%	5.2%	6.0%

Data source: DPH, Office of Health Informatics



#### Wisconsin positive influenza results and subtypes by PCR

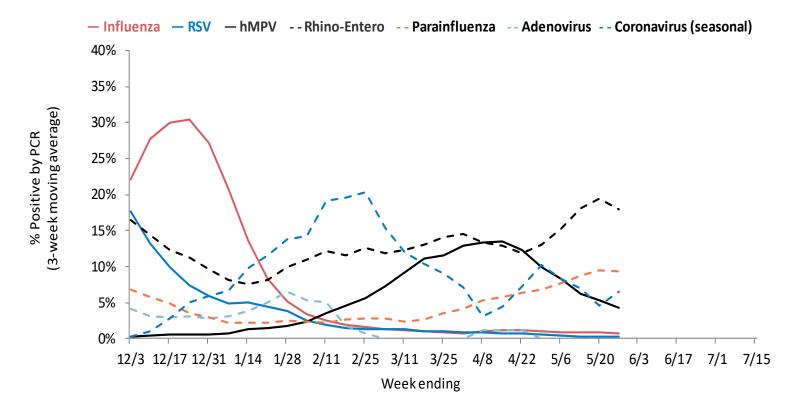


#### Cumulative number of positive influenza PCR tests by subtype October 1, 2022 to present

Cumulative number of positive influenza PCR tests by subtype, October 1, 2022 to present							
		Influenza A:	99%		Influenza B:	1%	Total
	A (2009 H1N1)	A (H3N2)	A (Unknown)	B (Victoria)	B (Yamagata)	B (Unknown)	Total
Total positive (n)	730	1,889	45,853	12	0	604	49,088
% of total positive	1%	4%	93%	0%	0%	1%	100%



#### WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES

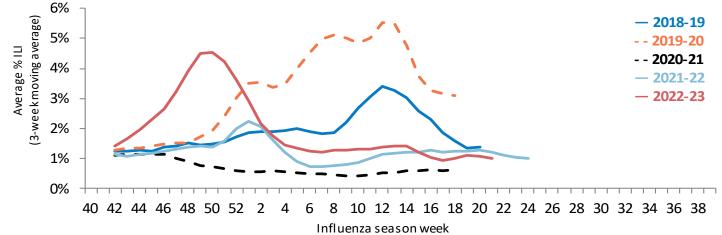


Week 21, En	ding on May	28, 2023
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Pc		Positive				iluenza A			Influenza B			
Respiratory virus	y virus Tested (I		(%)	H3N2	2009 H1N1	Unknown		Victoria	a Yamagata		Unknown	
Influenza	3519	23	0.7%	0	2		10	1	0		10	
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfl	uenza 1	za 1 Parainfluenza 2		2 Parainfluenza 3		Par	ainfluenza 4	
Parainfluenza	614	53	8.6%	2 5			46		0			
Respiratory virus Tes		Tested	Positive (n	) Positive (%)	CoV 2	CoV 229E CoV C		C43 CoV NL63			CoV HKU1	
Coronavirus (sea	asonal)	10	1 10% 1		0		0		0			
Respiratory virus		Tes	sted		Positive (n)			Positive (%)				
RSV	RSV 20		26	646 6		0.2%		, ວ				
Human metapr	neumovir	us	622			24			3.9%		, >	
Rhino-ente	erovirus		577			90			15.6%			
Adenov	irus	10				0			0%			



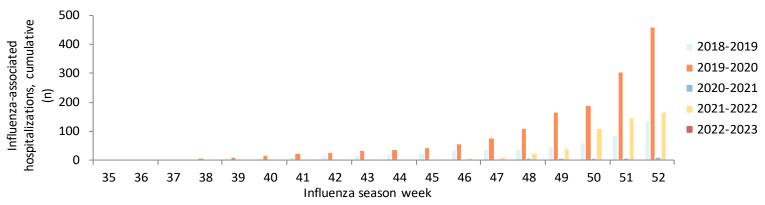




#### Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2022 to present (Hospitalization data will be updated at a later date)

	Total		In	fluenza subt	уре		Admitted	Required		Postpartum
Age group (years)	reported		Α	Α	В	Not	to ICU	mechanical	Pregnant	(≤6 weeks)
	(n)	H1N1)	(H3N2)	(Unknown)		reported		ventilation		
<1										
1-4										
5-17										
18-49										
50-64										
65+										
Total	(Data will	be availa	ble at a la	ater date)						

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

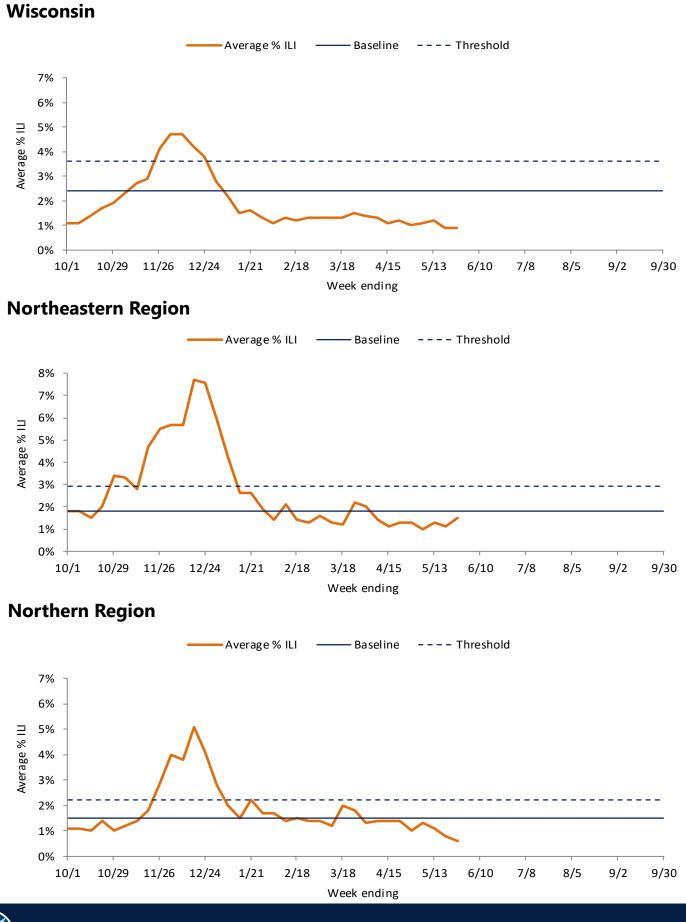


The 2020–2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic. As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.



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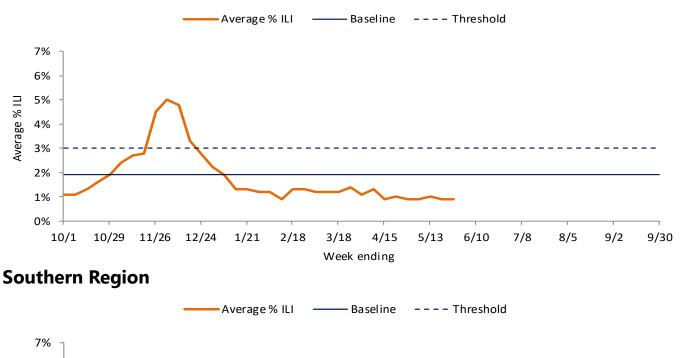
## ILI ACTIVITY TREND ANALYSIS

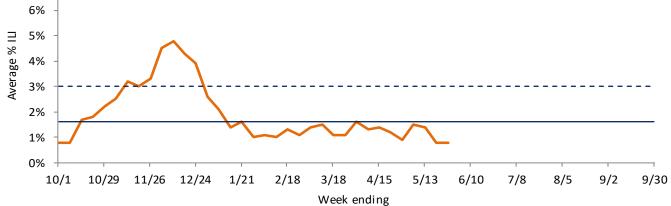




## ILI ACTIVITY TREND ANALYSIS (CONTINUED)

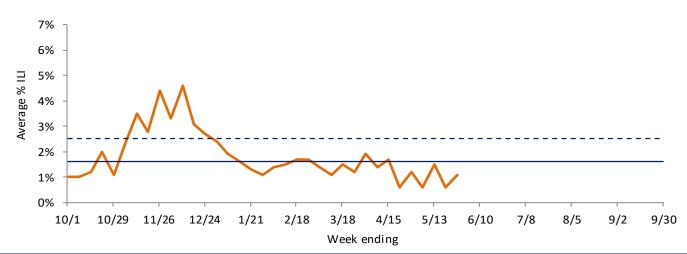
#### **Southeastern Region**













# 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 <u>DHS Influenza</u> <u>Vaccine Data Dashboard webpage</u>.

These data are updated on a weekly basis during the influenza season.



## **Understanding the Data**

#### Surveillance Report Description

INFLUENZA-LIKE ILLNESS (ILI)	Patients who present to a clinician with a fever $\geq$ 100° F and either a cough or sore throat.
INFLUENZA-LIKE ILLNESS ACTIVITY (ILI)	Using baseline (expected values data used for comparison) and threshold (upper limit) ILI percentages in each of the <u>public health regions in</u> <u>Wisconsin</u> , ILI below baseline is considered <b>low activity</b> , ILI between baseline and threshold levels is considered <b>moderate activity</b> and above threshold is considered <b>high activity</b> . <sup>1</sup>
PREDOMINANT VIRUS OF THE WEEK	This data is compiled from over 40 laboratories in Wisconsin that perform rt-PCR testing, and shows the viruses that have the highest percentage of positive tests. <sup>2</sup>
INFLUENZA-ASSOCIATED PEDIATRIC MORTALITY	Deaths among children <18 years old, with influenza as the cause or associated cause of death. This is a state and nationally reportable condition. <sup>2</sup>
RESPIRATORY VIRUSES BY PCR	A molecular laboratory method used to detect nucleic acid (DNA/RNA) in viruses, including influenza and RSV.
RAPID ANTIGEN TEST	Identification of an influenza or RSV antigen in a clinical specimen. Data resulting from these tests is used to identify regional trends of the activity of these viruses.
INFLUENZA-ASSOCIATED HOSPITALIZATIONS	Patients hospitalized for >24 hours with laboratory-identified (by rapid antigen or rt-PCR tests) influenza. <sup>3</sup>

#### ADDITIONAL RESOURCES

- <u>The CDC Influenza Homepage</u>
- The National Enteric and Respiratory Virus Surveillance System (NREVSS)

#### DATA SOURCES

- 1. Centers for Disease Control and Prevention (CDC), Outpatient Influenza-like Illness Surveillance Network (ILINet)
- 2. Wisconsin Laboratory Information Network
- 3. Wisconsin Electronic Disease Surveillance System (WEDSS)

