

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 52: Ending December 28, 2019

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



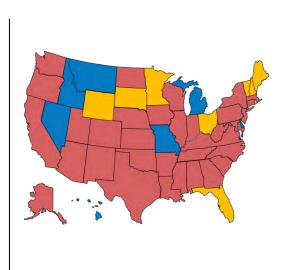




REGION V OF US (WI, MN, IL, MI, OH, IN)



UNITED STATES



ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

ILI: INSUFFICIENT DATA

AT-A-GLANCE:

- Weekly Respiratory Report Description
- **Predominant Viruses of the Week:** Influenza B and RSV are the predominant viruses this week.

CURRENT ALERTS:

Influenza B (Victoria lineage) continues to be the predominant influenza virus in Wisconsin. Influenza B viruses cause increased morbidity among the younger population.

155 influenza-associated hospitalizations were reported last week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 52, 2019	October 1, 2019 to present
Wisconsin	0	0
Nationwide	5	27



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

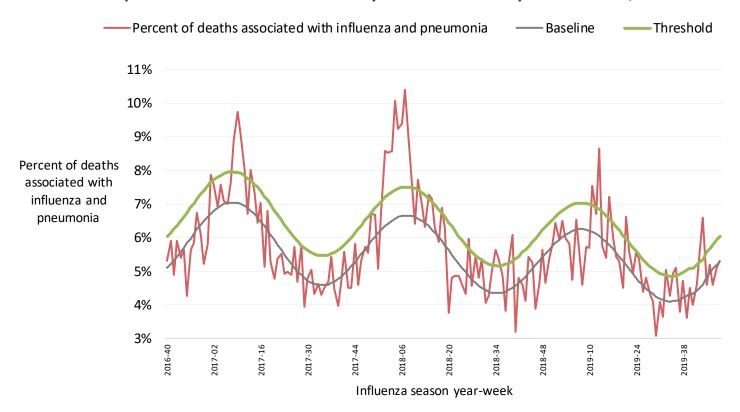




INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

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



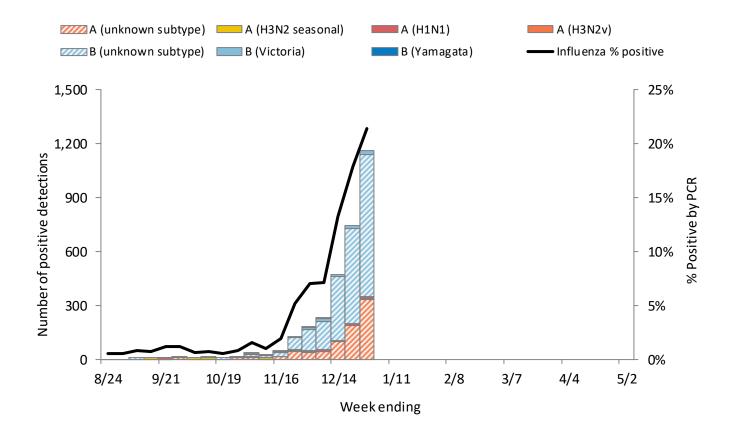
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
50	2	54	5.3%	5.4%	6.1%
51	1	75	8.9%	5.5%	6.2%
52 (Preliminary data)	0	27	6.9%	5.6%	6.3%
Seasonal total	11	798	4.9%	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

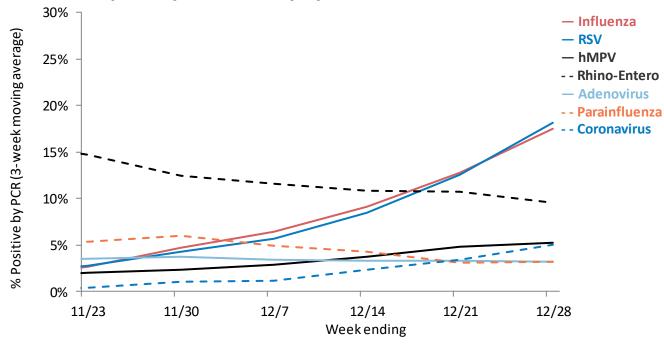


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	30% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	70% B (Unknown)	Total
Total positive (n)	58	47	813	88	8	2078	3092
% of total positive	2%	2%	26%	3%	0%	67%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 52: Ending on December 28, 2019

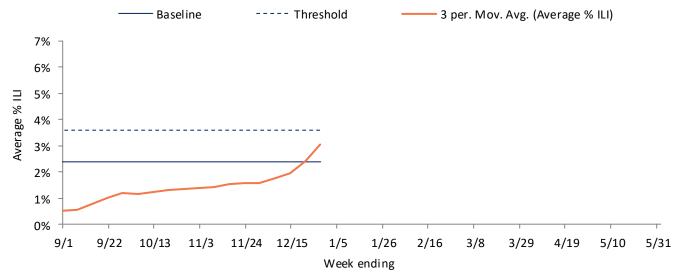
Bassinata marina	Taskad	Positive Tested		Posit	ive		Influenza A				Influenz	а В				
Respiratory virus	matory virus Testeu		1)	(%)	На	N2	2009 H1N1	Unknown Vi		toria	Yamagata		Unknown			
Influenza	5433	116	61	21.4	%	3	10	335	335 10		0		794			
Respiratory virus	5 Tes	sted	Posi		Positive (%)	Par	ainfluenza 1	Parainfluen	za 2	za 2 Parainfluenza 3		Par	rainfluenza 4			
Parainfluenza	8	00	2	9	3.6%		8	1			0		20			
Respiratory virus	Tes	ted	Posit	tive	Positive	(CoV 229E CoV OC43		CoV OC43		CoV OC43		/ NL63	C	CoV HKU1	
Coronavirus (Co\	/) 38	38	20)	5.2%		0	0		0		0 1		1		19

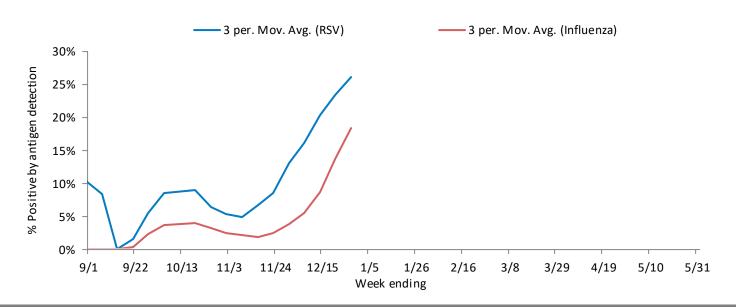
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1746	421	24.1%
Human metapneumovirus	821	42	5.1%
Rhino-enterovirus	808	66	8.2%
Adenovirus	388	9	2.3%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod		Positive (n)		0/ Docitivo	Tested	Dositivo (n)	0/ Desitive	11.1.07	Dasalina	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% Positive	ILI %	Baseline	inresnoid
1181	109	149	258	21.8%	268	71	26.5%	3.9%	2.4%	3.6%

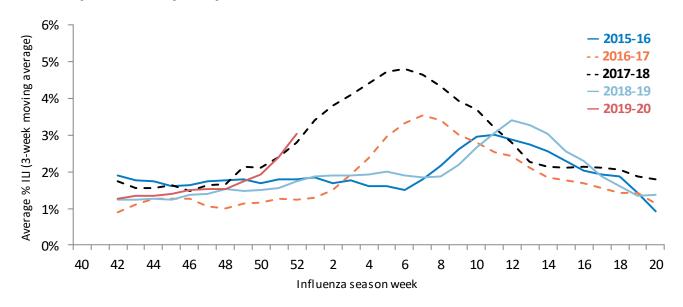
ILI activity trend analysis





WISCONSIN STATE SUMMARY

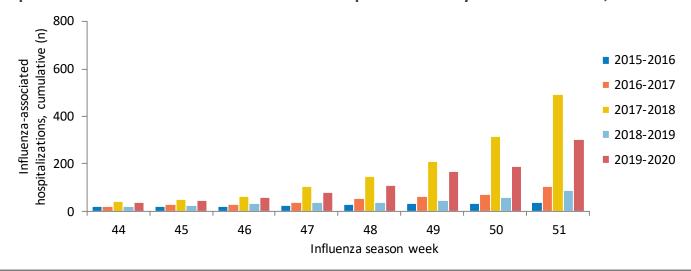
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2019 to present

Age group	Total		In	fluenza subt	ype		Admitted	Required		Postpartum
(years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	13	1	0	2	8	2	3	1	0	0
1-4	35	0	0	9	19	7	7	2	0	0
5-17	41	2	0	5	21	13	4	1	0	0
18-49	105	4	1	27	46	27	18	6	8	2
50-64	98	9	4	43	31	11	15	4	0	0
65+	167	6	12	83	58	8	17	2	0	0
Total	459	22	17	169	183	68	64	16	8	2

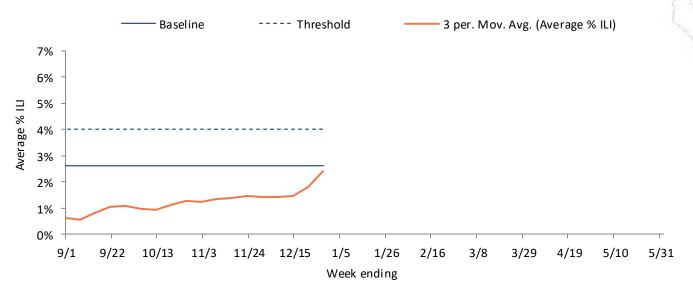
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

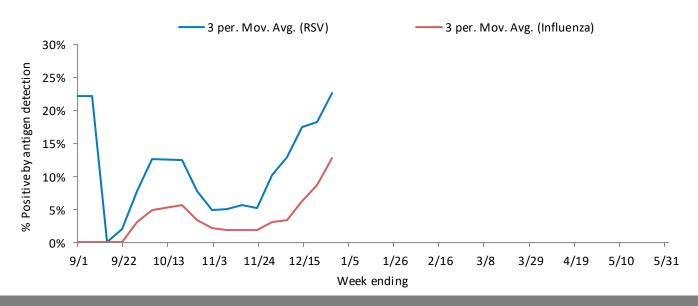


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Desitive	11.1.0/	Dasalina	Throshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
339	32	22	54	15.9%	111	30	27.0%	3.2%	2.6%	4.0%

ILI activity trend analysis

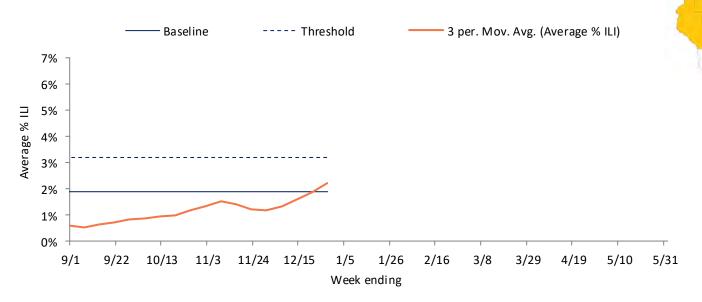


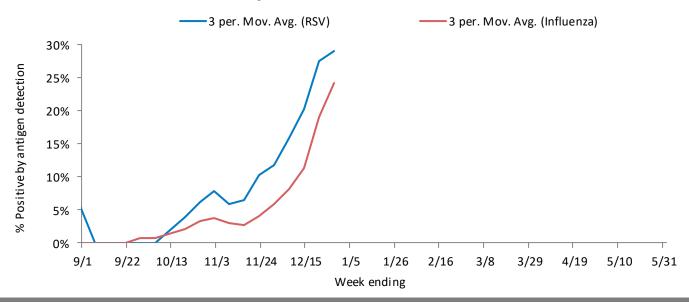


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitive	11.1.07	Dasalina	Throshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
505	53	86	139	27.5%	123	32	26.0%	2.7%	1.9%	3.2%

ILI activity trend analysis

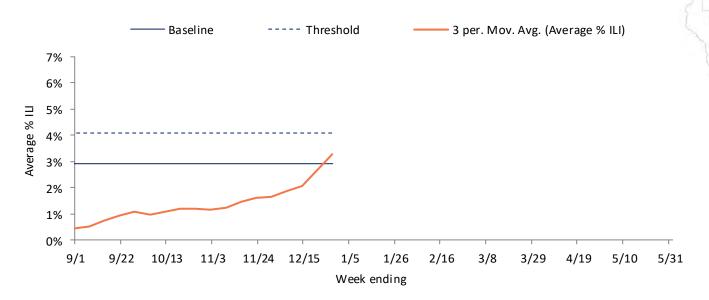


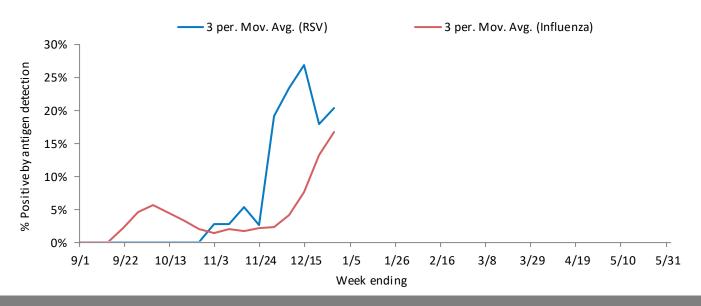




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	% POSITIVE	ILI 70	Daseille	Tillesiloid
312	18	36	54	17.3%	26	7	26.9%	4.0%	2.9%	4.1%

ILI activity trend analysis

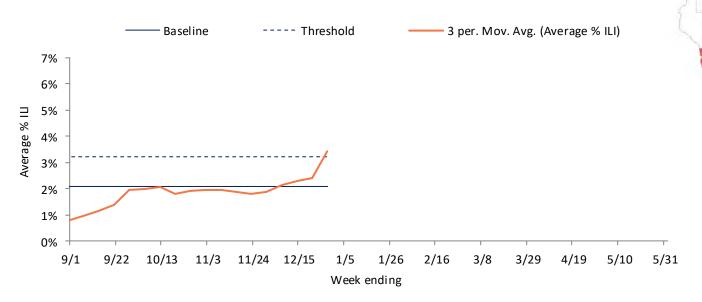


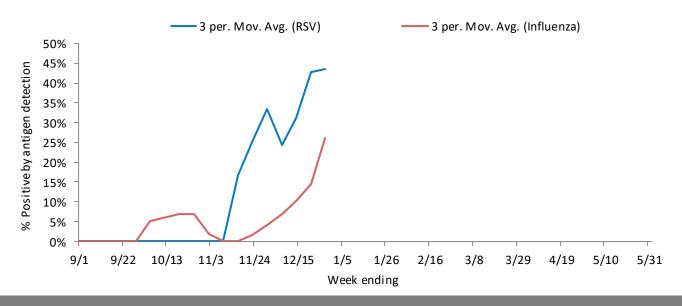


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	% POSITIVE	ILI 70	Daseille	Tillesiloid
25	6	5	11	44.0%	26	7	26.9%	5.4%	2.1%	3.2%

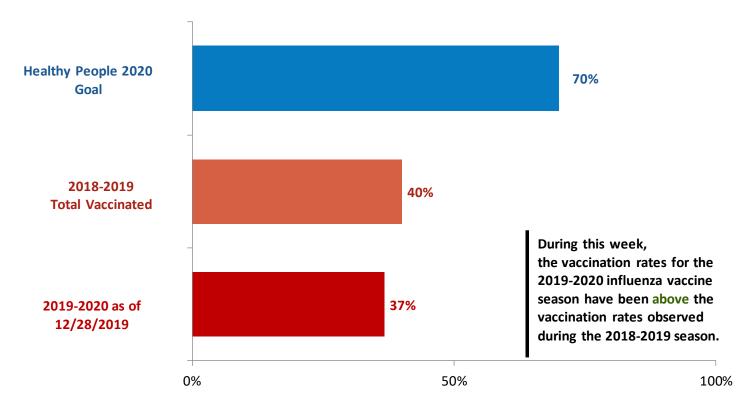
ILI activity trend analysis





SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2019-2020 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 2019-2020:

The **trivalent** vaccines for use in the 2019-2020 influenza season contain the following:

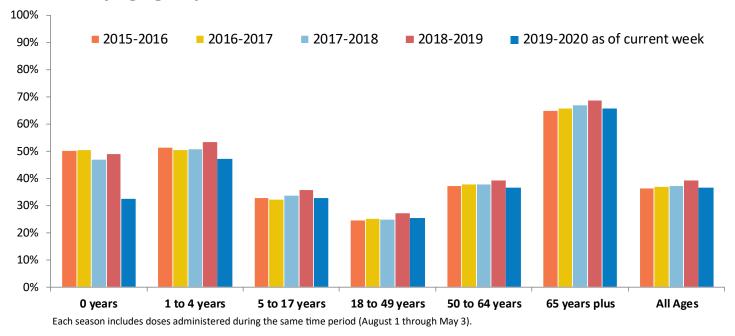
- A/Brisbane/02/2018 (H1N1)pdm09-like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

It is recommended that <u>quadrivalent</u> vaccines containing two influenza B viruses contain the above three viruses and:

B/Phuket/3073/2013-like virus (Yamagata lineage)

SEASONAL INFLUENZA VACCINATION

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



Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2019-2020 influenza season

