

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 52: Ending December 29, 2018

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

www.dhs.wi.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov

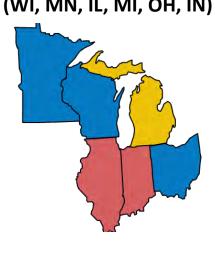


INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

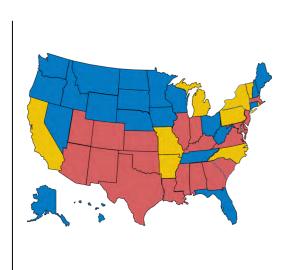
STATE OF WISCONSIN



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:

- Weekly Respiratory Report Description
- Predominant Virus of the Week:
 RSV continues to be the predominant virus this week.

CURRENT ALERTS:

- Influenza A/HINI is the predominant influenza virus nationwide and in Wisconsin
- Influenza-associated hospitalizations are increasing

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 52 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	2	13

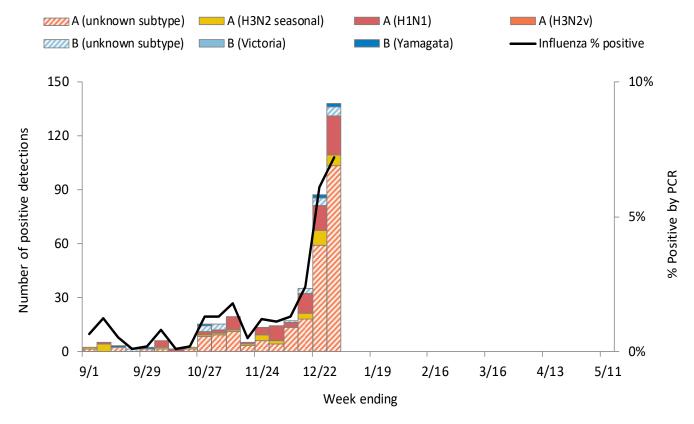


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

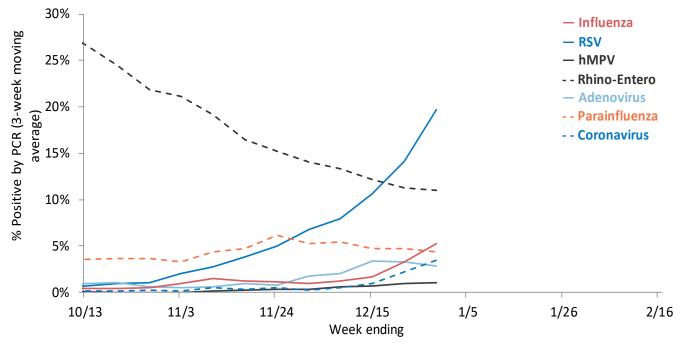


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	93% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)		Total
Total positive (n)	80	35	239	0	7	20	381
% of total positive	21%	9%	63%	0%	2%	5%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 52: Ending on December 29, 2018

Respiratory virus Teste	Tostod	ested Positive (n)	Positive Influenza A				280Influenza B			
Respiratory virus	Testea		(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown	
Influenza	1919	138	7.2%	6	22	103	0	2	5	

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	621	23	3.7%	0	12	5	6
Respiratory virus	Tested	Positive	Positive	CoV 229E	CoV OC43	CoV NL63	CoV HKU1

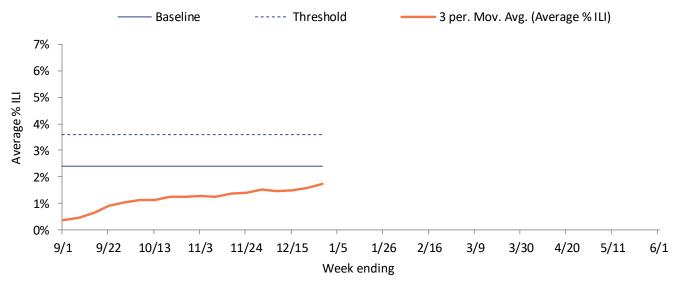
Respiratory virus	Tested	(n)	(%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	280	12	4.3%	1	11	0	0

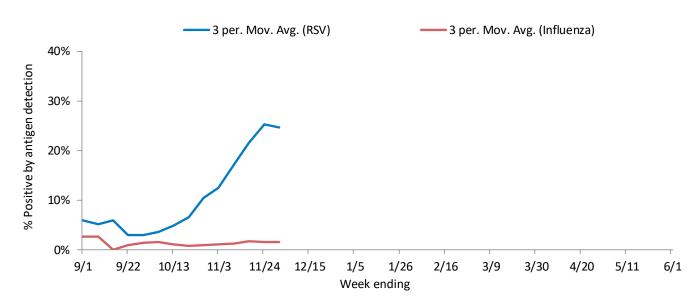
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1054	263	25.0%
Human metapneumovirus	645	9	1.4%
Rhino-enterovirus	596	71	11.9%
Adenovirus	280	2	0.7%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antiger	tests	Influenza-like illness (ILI)		
Tostad	Positive (n) ted % Positive		% Docitivo	Tostad	Danitiva (n)	% Positive	11 1 0/	Danalina	Threshold	
Tested	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% POSITIVE	ILI %	Baseline	mresnoid
896	66	4	70	7.8%	228	71	31.1%	1.9%	2.4%	3.6%

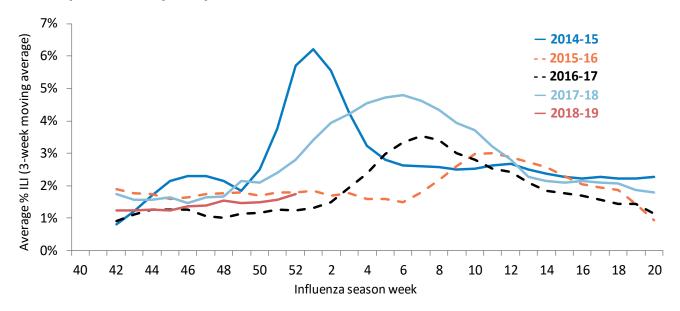
ILI activity trend analysis





WISCONSIN STATE SUMMARY

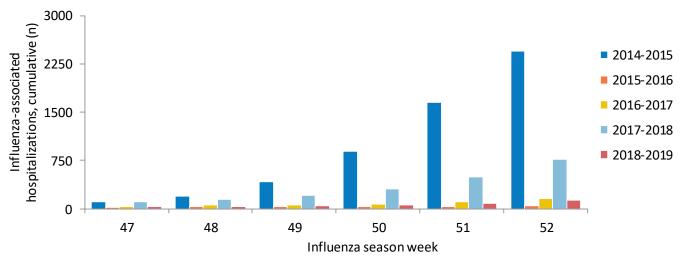
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2018 to present

Ago group	Total		lr	ıfluenza subty	uenza subtype		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	Not to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	1	0	0	1	0	0	0	0	0	0
1-4	8	1	0	5	2	0	1	0	0	0
5-17	6	1	0	1	2	2	1	0	0	0
18-49	23	5	0	13	4	1	2	1	0	0
50-64	32	5	1	19	7	0	7	1	0	0
65+	67	11	4	36	14	2	12	1	0	0
Total	137	23	5	75	29	5	23	3	0	0

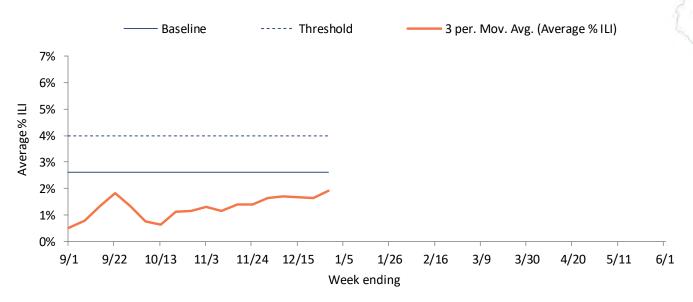
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

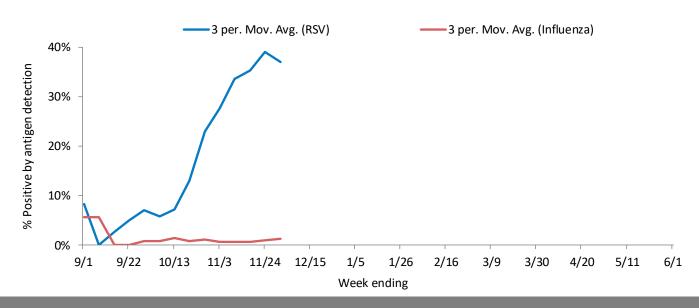


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antiger	tests	Influenza-like illness (ILI)		
Tostad	Positive (n) Tested			% Positive	Tested	Danistina (m)	0/ Docitivo	11.1.07	Danelin -	Thursday Island
resteu	Influenza A	Influenza B	Total	% Positive Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
444	28	1	29	6.5%	136	46	33.8%	2.6%	2.6%	4.0%

ILI activity trend analysis

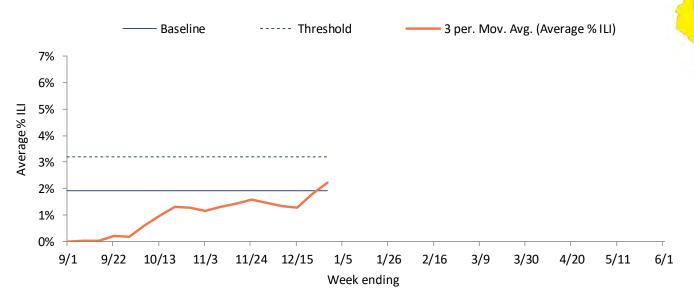


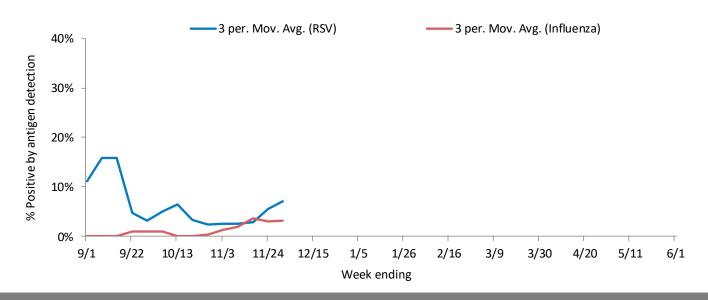


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n)			0/ Docitivo	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Danalina Thua	Threshold	
rested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoia
174	20	1	21	12.1%	68	17	25.0%	2.3%	1.9%	3.2%

ILI activity trend analysis

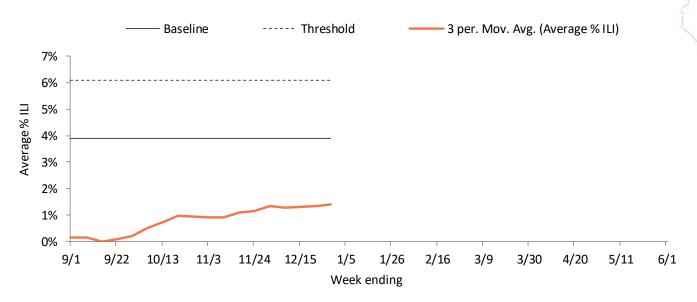


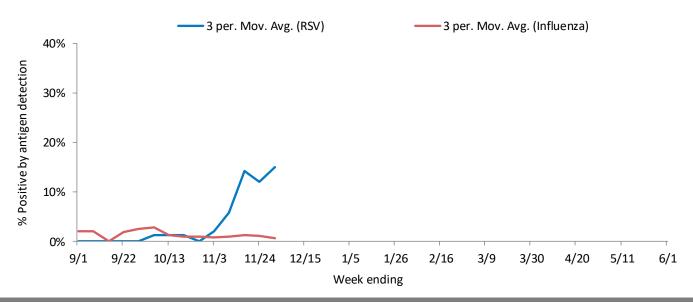


SOUTHEASTERN REGION

	Influenz	a rapid antig	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		% Docitivo	Tested	Danitiva (n)	% Positive	ILI %	Danalina	Threshold	
Tested	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (n)	% POSITIVE	ILI /0	Baseline	Tillesiloid
252	17	2	19	7.5%	8	2	25.0%	1.4%	4.0%	6.1%

ILI activity trend analysis

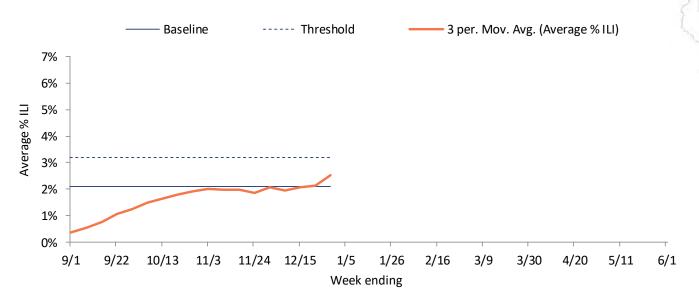


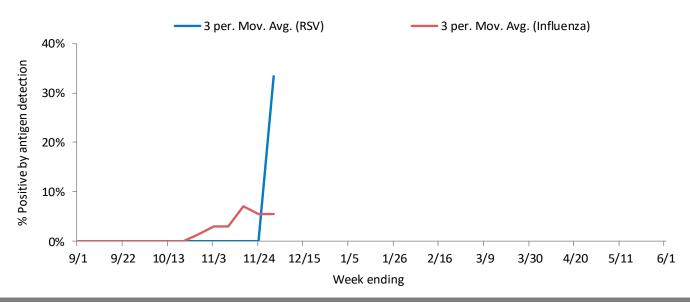


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n) Tested			0/ Docitivo	Tostod	Daaitius (a)	0/ Docitive	11.1.07	Desalina	Thusabald	
rested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
26	1	0	1	3.8%	16	6	37.5%	2.9%	2.1%	3.2%

ILI activity trend analysis

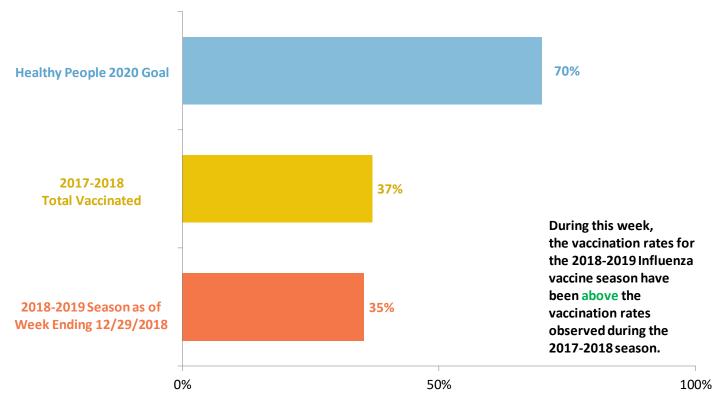






SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2018-2019 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 2018-2019:

The **trivalent** vaccines for use in the 2018-2019 influenza season contain the following:

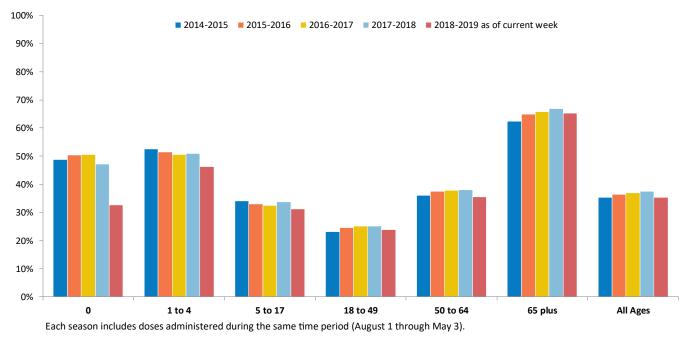
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

It is recommended that **quadrivalent** vaccines containing two influenza B viruses contain the above three viruses and:

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



Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2018-2019 influenza season

