

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 51: Ending December 22, 2018

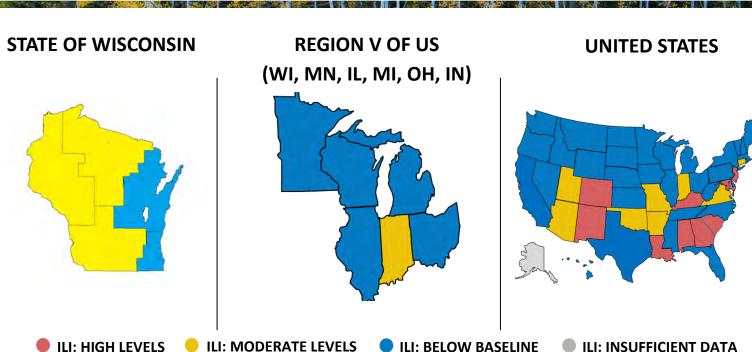
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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



INFLUENZA LIKE ILLNESS (ILI) ACTIVITY



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 51 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	4	11

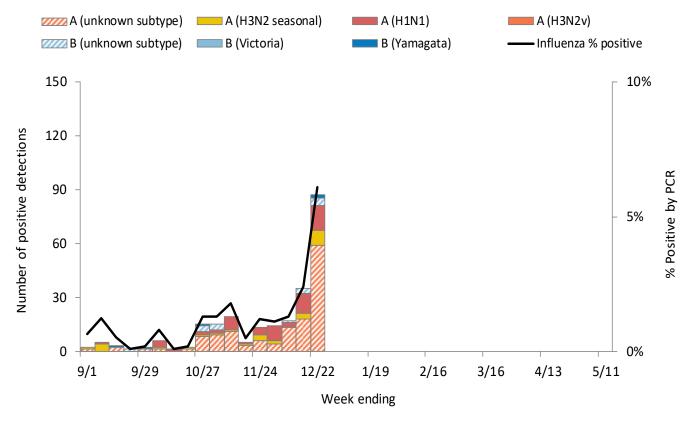


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

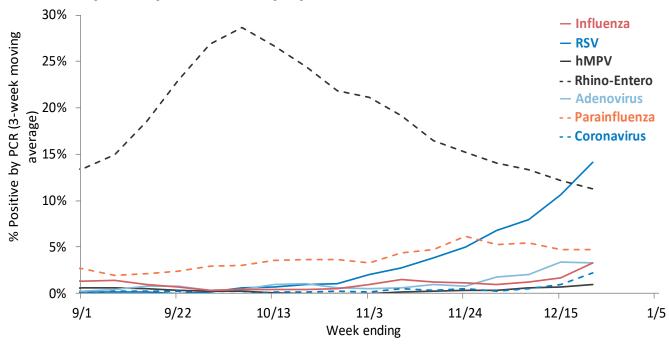


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	92% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)		Total
Total positive (n)	58	29	136	0	5	15	243
% of total positive	24%	12%	56%	0%	2%	6%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 51: Ending on December 22, 2018

Doggiustowy siwys	Tostad	Positive	Positive		Influenza A			Influenza B	
Respiratory virus	restea	(n)	(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	1419	87	6.1%	8	14	59	0	2	4

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	621	26	4.2%	1	11	9	5

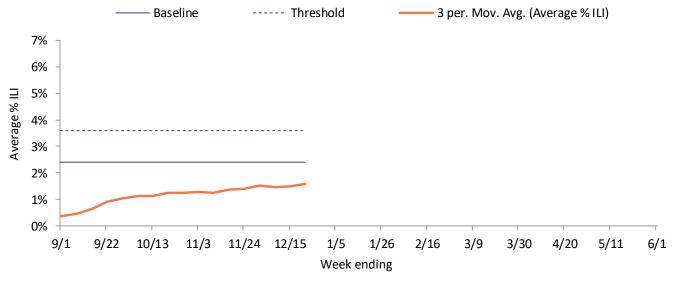
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	302	13	4.3%	3	9	1	0

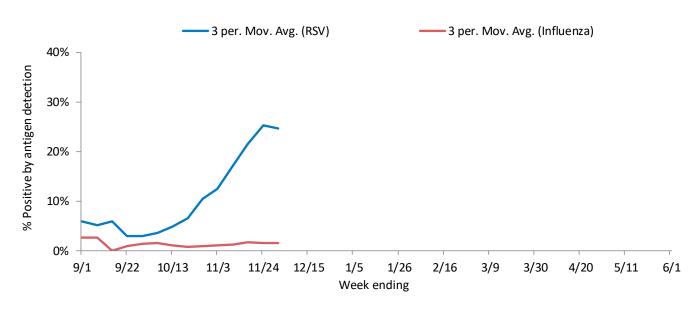
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	876	168	19.2
Human metapneumovirus	646	6	0.9%
Rhino-enterovirus	602	63	10.5%
Adenovirus	302	9	3.0%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n)			0/ Docitivo	Tostod	Dositivo (n)	0/ D = -!+!	11.1.0/	Danelin -	Thursh ald	
Tested I	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
841	54	10	64	7.6%	215	80	37.2%	1.8%	2.4%	3.6%

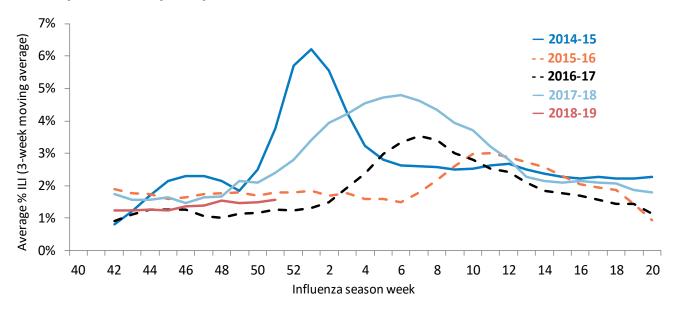
ILI activity trend analysis





WISCONSIN STATE SUMMARY

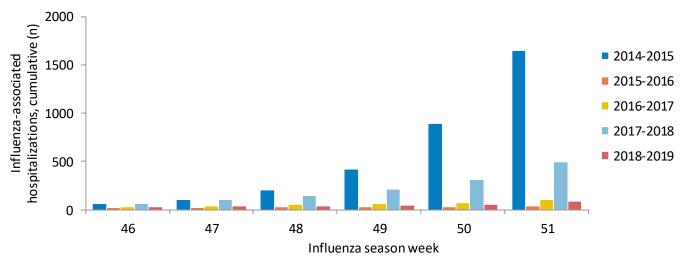
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	Influenza subtype			Admitted	Required		Postpartum (≤6 weeks)
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	B Not	to ICU	mechanical ventilation	Pregnant		
<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	4	1	0	0	1	2	0	0	0	0
18-49	15	2	0	8	3	2	1	0	0	0
50-64	19	1	1	10	6	1	4	0	0	0
65+	39	7	3	21	8	0	9	1	0	0
Total	86	12	4	45	20	5	15	1	0	0

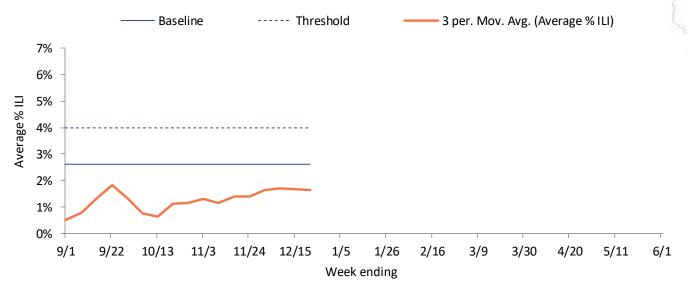
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

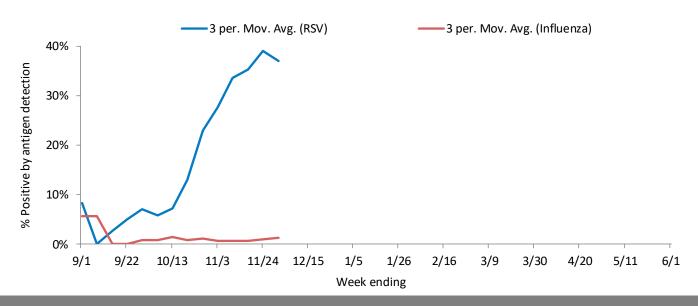


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n)			0/ Desitive	Tested	Dositivo (n)	0/ Danitiva	11.1.0/	Danalin a	Thursday and	
restea	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)) % Positive	ILI %	Baseline	Threshold
363	27	3	30	8.3%	122	48	39.3%	1.7%	2.6%	4.0%

ILI activity trend analysis

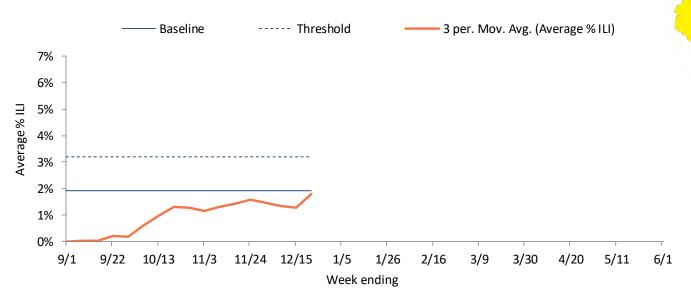


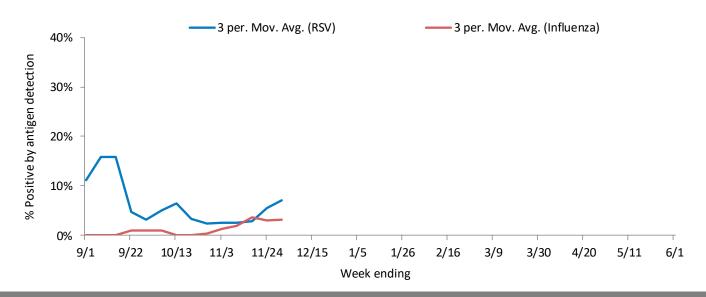


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)			0/ Dasitive	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Deseline	Thurshald
Tested I	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
273	21	7	28	10.3%	85	31	36.5%	2.7%	1.9%	3.2%

ILI activity trend analysis

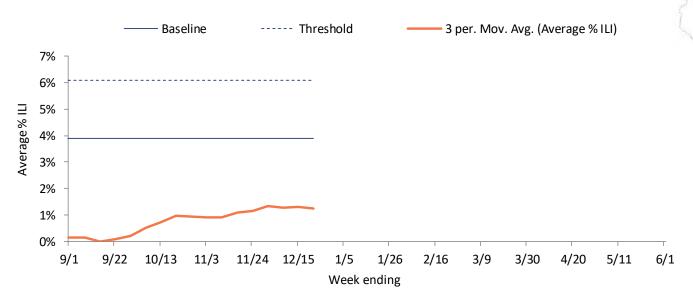


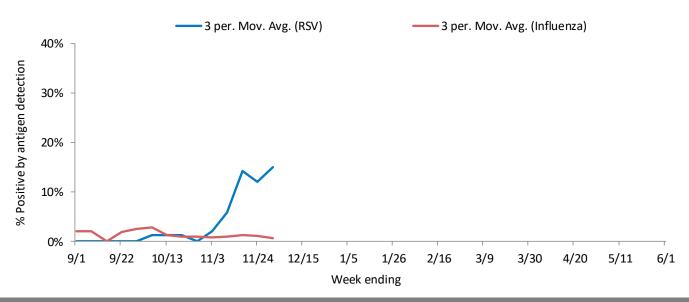


SOUTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)			0/ Dasitiva	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Deseline	Threshold
Tested I	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mresnoia
179	6	0	6	3.4%	4	0	0.0%	1.3%	4.0%	6.1%

ILI activity trend analysis

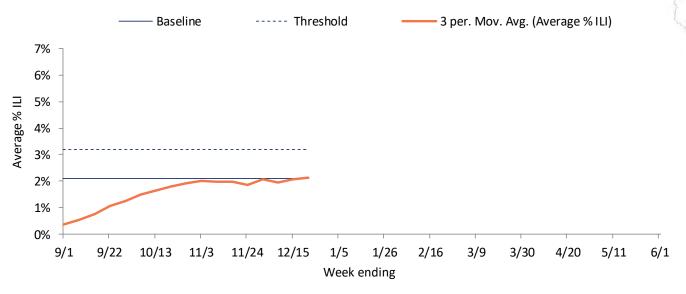


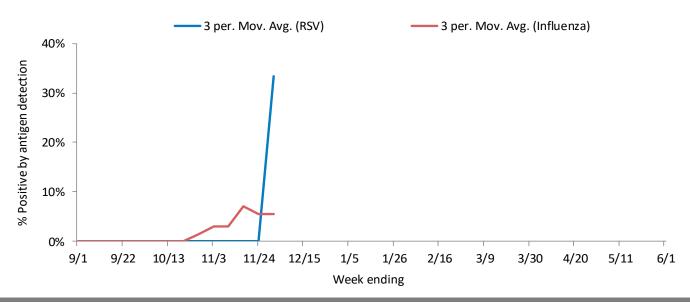


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod	Positive (n) Tested		0/ Docitivo	Tostod	Docitive (n)	% Positive	11.1.0/	Docalina	Thursday and	
rested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
26	0	0	0	0.0%	4	1	25.0%	2.5%	2.1%	3.2%

ILI activity trend analysis

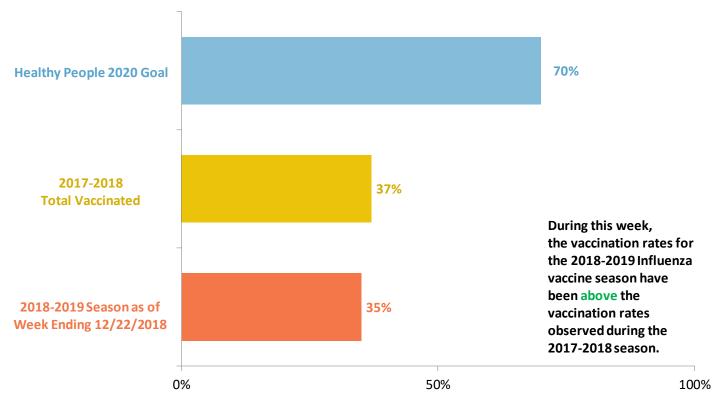






SEASONAL INFLUENZA VACCINATION

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:

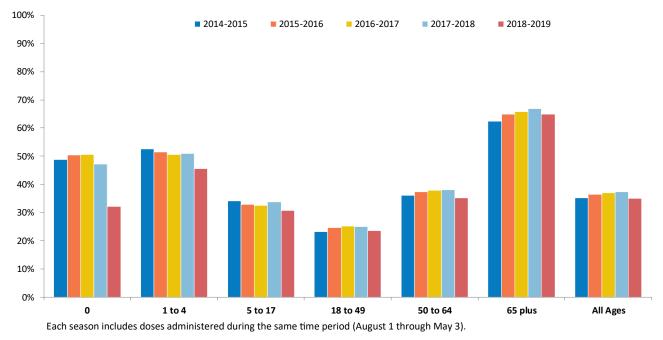
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

