

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week Ending November 10, 2018

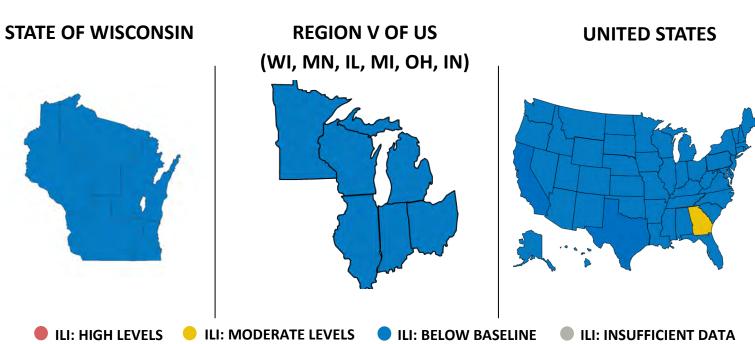
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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







AT-A-GLANCE:

- Weekly Respiratory Report Description
- Predominant Virus of the Week:

 Rhinovirus/enterovirus is the predominant virus this week.

CURRENT ALERTS:

Parainfluenza and RSV activity are increasing statewide.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 45, 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	0	2

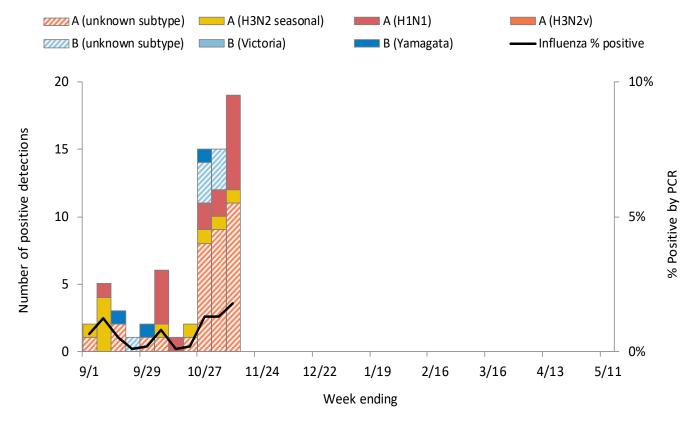


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Wisconsin positive influenza results and subtypes by PCR

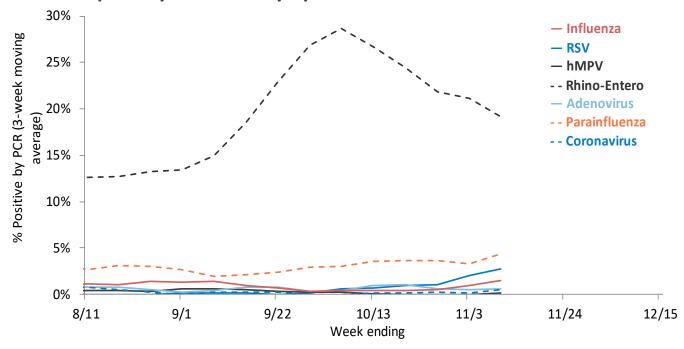


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	86% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	14% B (Unknown)	Total
Total positive (n)	17	12	33	0	3	7	72
% of total positive	24%	17%	46%	0%	4%	10%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week ending on November 10, 2018

Respiratory virus To	Tostod	ested Positive (n)	Positive		Influenza A			Influenza B	
	Testea		(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	1044	19	1.8%	1	9	11	0	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	500	33	6.6%	0	23	3	7

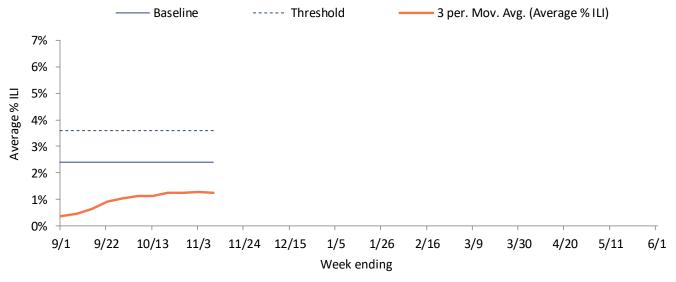
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	199	2	1.0%	0	2	0	0

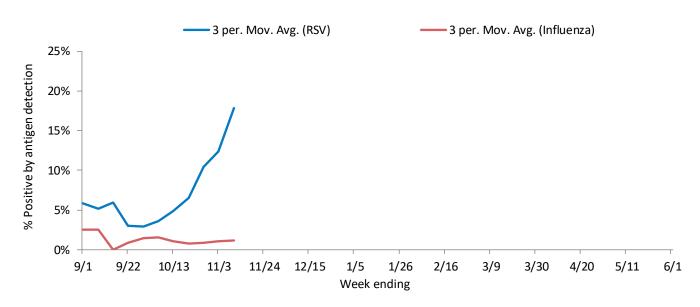
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	621	20	3.2%
Human metapneumovirus	516	2	0.4%
Rhino-enterovirus	482	80	16.6%
Adenovirus	199	1	0.5%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n) % Positive			Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI %	Daseille	Tillesiloiu
428	4	0	4	0.9%	69	18	26.1%	1.2%	2.4%	3.6%

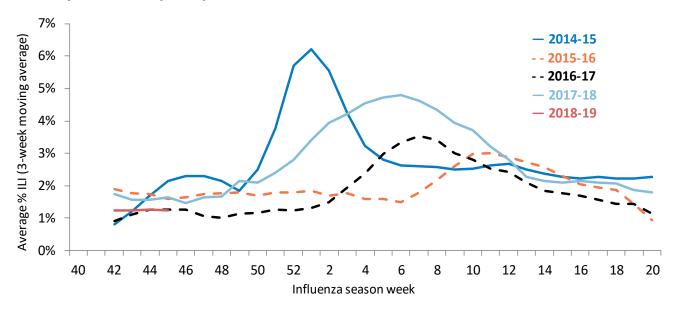
ILI activity trend analysis





WISCONSIN STATE SUMMARY

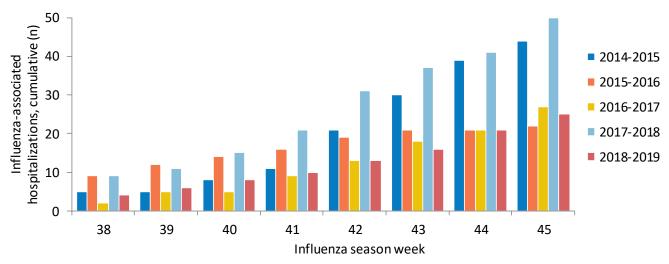
ILI activity trend analysis by influenza season, Wisconsin



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

Age group	Total		li	nfluenza subty	uenza subtype		Admitted	Required		Postpartum
(years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	1	0	0	1	0	0	0	0	0	0
1-4	1	0	0	0	1	0	0	0	0	0
5-17	0	0	0	0	0	0	0	0	0	0
18-49	8	1	0	5	2	0	1	0	0	0
50-64	4	0	0	1	3	0	1	0	0	0
65+	11	1	1	6	3	0	3	1	0	0
Total	25	2	1	13	9	0	5	1	0	0

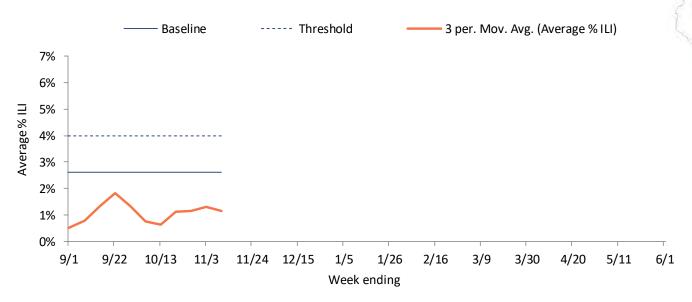
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

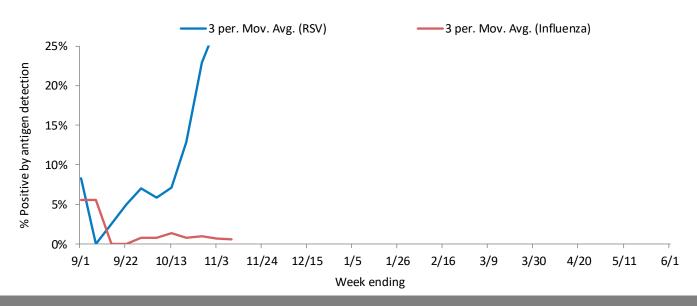


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	% Positive	11.1.0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseiine	inresnoia
213	1	0	1	0.5%	41	17	41.5%	1.1%	2.6%	4.0%

ILI activity trend analysis

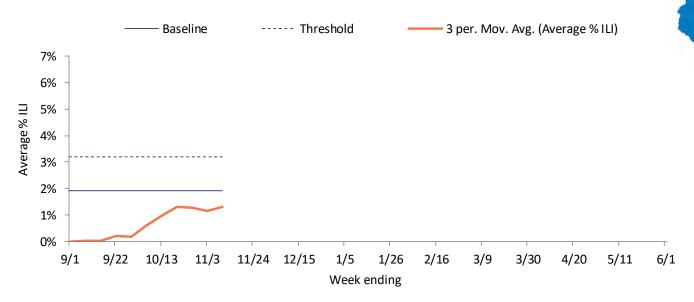


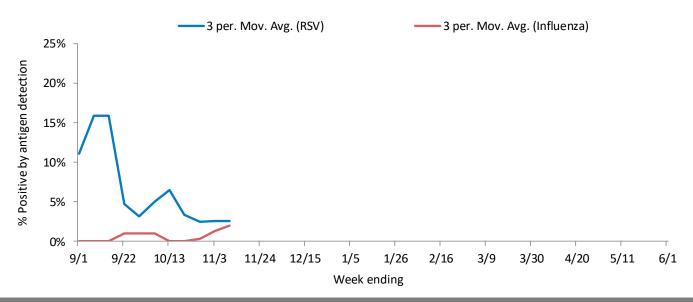


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antiger	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		0/ Docitivo	Tostod	Docitive (n)	% Positive	11.1.0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Tillesilolu
100	2	0	2	2.0%	19	0	0.0%	1.4%	1.9%	3.2%

ILI activity trend analysis

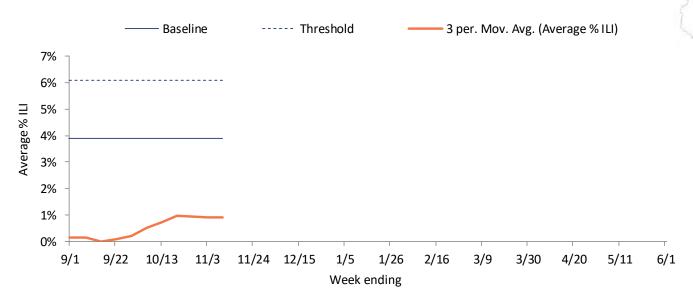


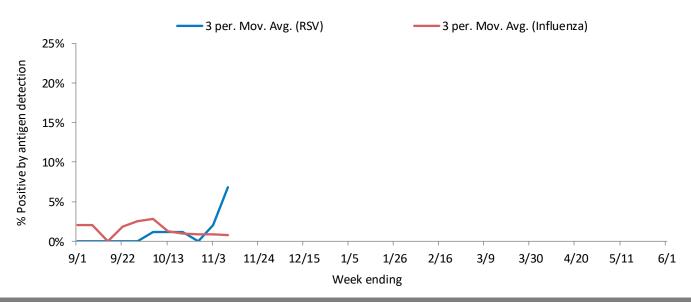


SOUTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	% Positive	11.1.0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)		ILI %		
100	1	0	1	1.0%	7	1	14.3%	1.0%	4.0%	6.1%

ILI activity trend analysis

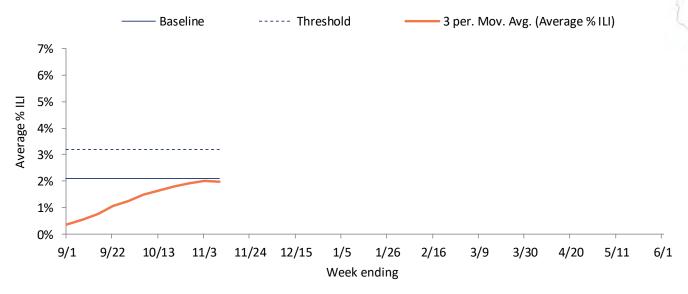


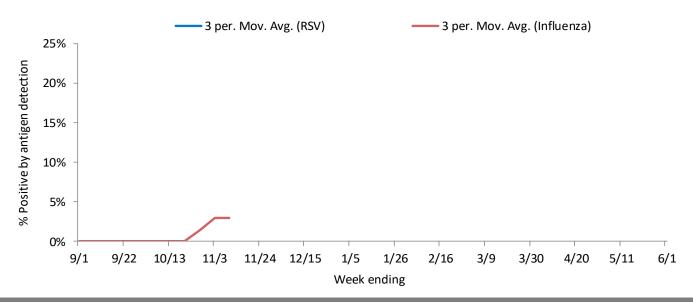


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antiger	tests	Influenza-like illness (ILI)			
Tostod		Positive (n)		0/ Desitive	Tostod	Positive (n)	0/ Docitivo	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (II)	% Positive	ILI %	Daseille	Tillesiloid	
15	0	0	0	0.0%	2	0	0.0%	1.7%	2.1%	3.2%	

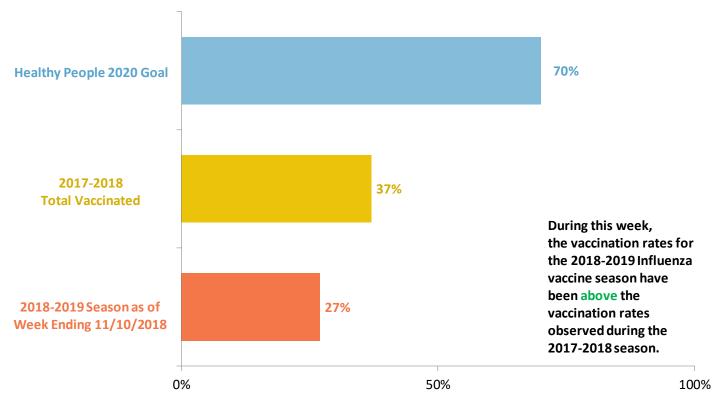
ILI activity trend analysis







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:

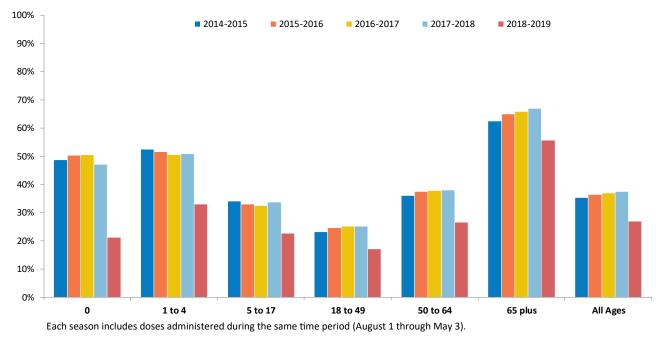
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

