

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



UNITED STATES

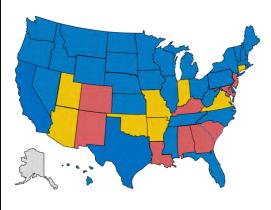


STATE OF WISCONSIN



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





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



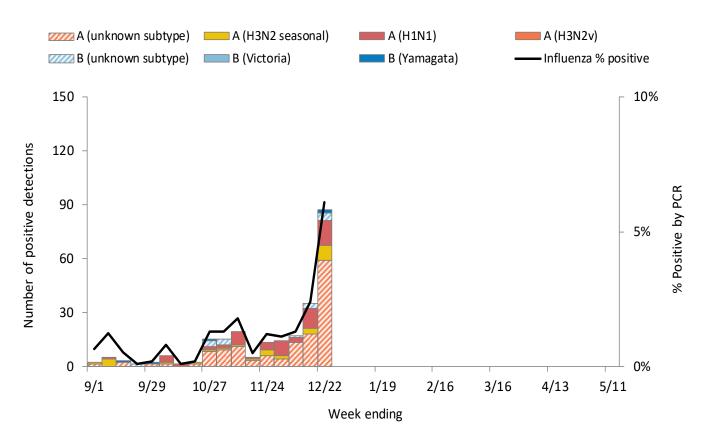
	Week 51 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	4	11



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



Wisconsin positive influenza results and subtypes by PCR



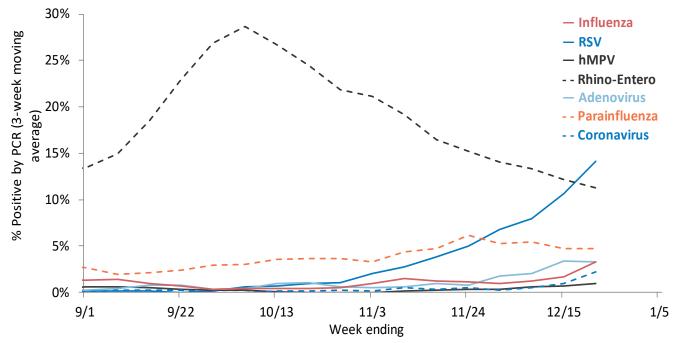
Cumulative number of positive influenza PCR tests by subtype

September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	92% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	8% B (Unknown)	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



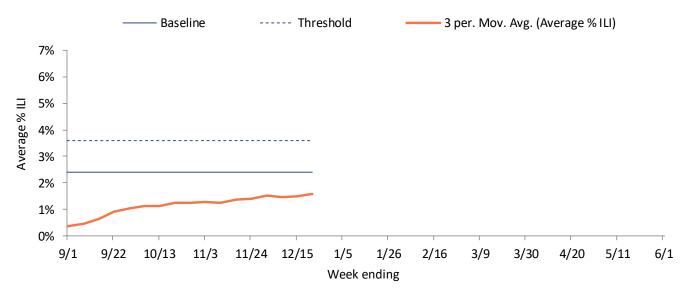
Week 51: Ending on December 22, 2018

Descriptor	Tested	Positi	ve Posi	tive		In	fluenza A				Influenz	a B	
Respiratory virus	Tested	(n)	(%	5)	H3N2	20	09 H1N1	Unknown	Vic	toria	Yamagat	ta	Unknown
Influenza	1419	87	6.1	%	8		14	59		0	2		4
Respiratory virus	s Tes	ted	Positive (n)		Positive (%) Parainfluenza 1 Pa		Parainfluen	nza 2 Par		rainfluenza 3		Parainfluenza 4	
Parainfluenza	6	21	26	4	.2%		1	11		9 5		9	
Respiratory virus	s Tes	ted	Positive (n)		sitive (%)	CoV	229E	CoV OC4	3	CoV NL63			CoV HKU1
Coronavirus (Co	/) 30	02	13	4.	.3%		3	9		1			0
Respiratory	virus			Те	sted			Positive (n)			Pos	itive	(%)
RSV				8	376			168				19.2	
Human metapn	eumovi	rus	646				6				0.9%		
Rhino-enter	rovirus			6	602			63			10.5%		
Adenovi	rus			3	02			9				3.0%)

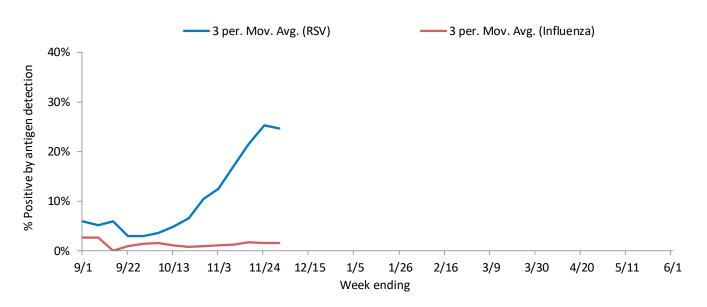


Influenza rapid antigen tests					RSV r	a <mark>pid</mark> antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	70 POSITIVE						
841	54	10	64	7.6%	215	80	37.2%	1.8%	2.4%	3.6%

ILI activity trend analysis

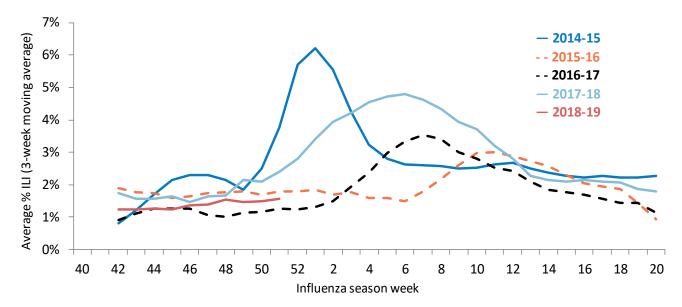


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

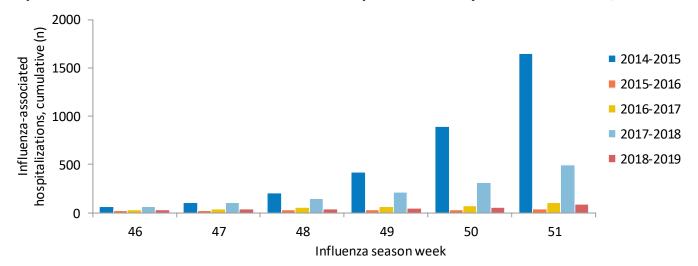
ILI activity trend analysis by influenza season, Wisconsin



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

	groun Total Influenza subtype			Admitted	Required		Postpartum			
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	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	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

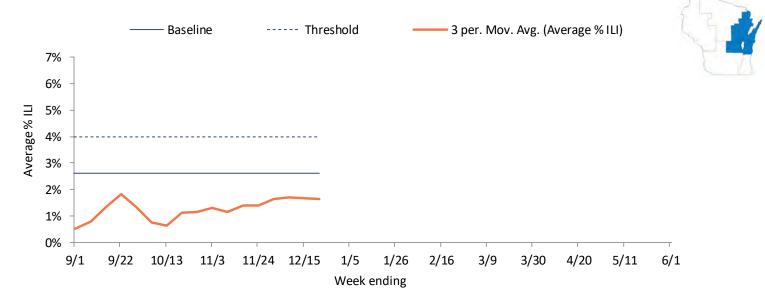
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

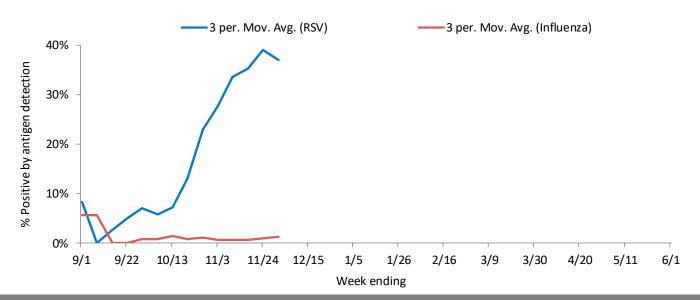


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tested	Docitivo (n)	% Positive	ILI %	Pacolino	Threshold	
Tested	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% POSITIVE	ILI 70	Baseline	Inresnoid	
363	27	3	30	8.3%	122	48	39.3%	1.7%	2.6%	4.0%	

ILI activity trend analysis

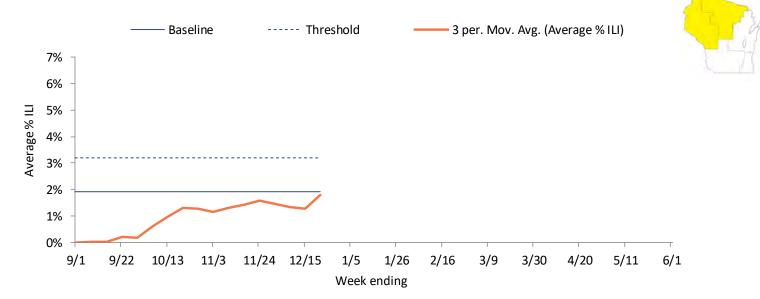


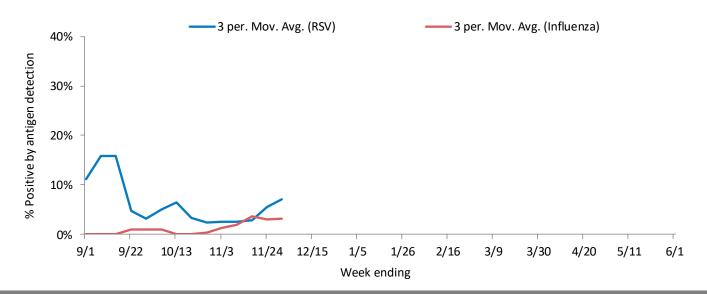


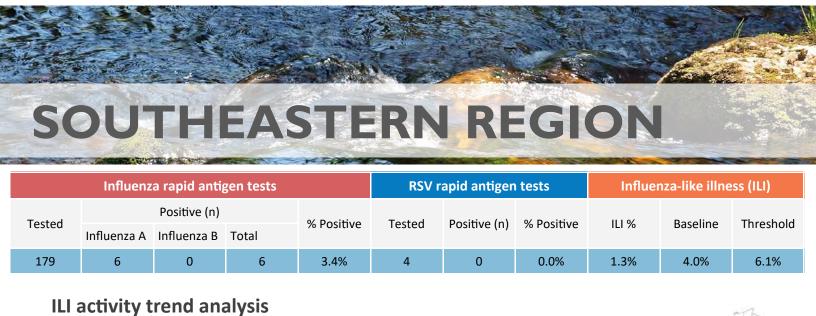
NORTHWESTERN REGION

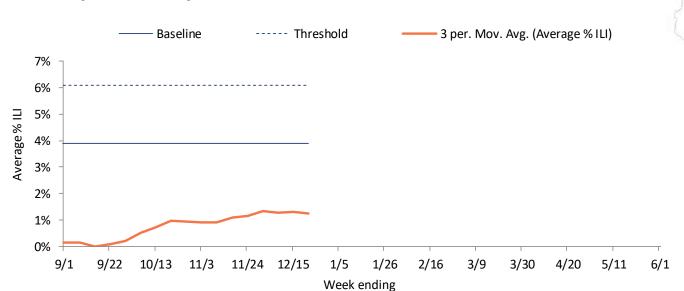
	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tastad		Positive (n)		% Desitive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive						
273	21	7	28	10.3%	85	31	36.5%	2.7%	1.9%	3.2%

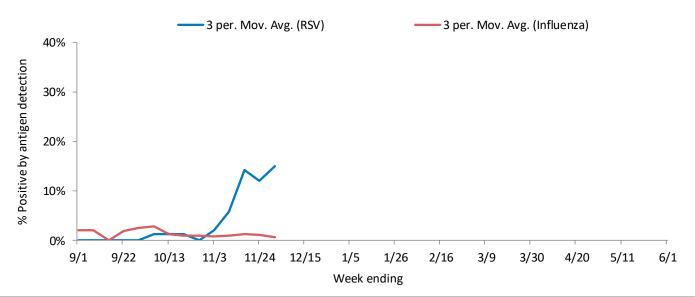
ILI activity trend analysis







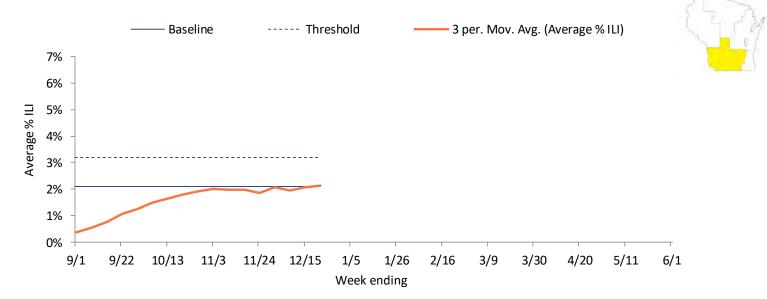


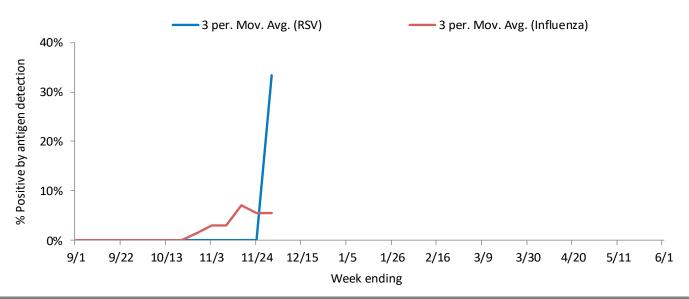


SOUTHERN REGION

	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	
Testeu	Influenza A	Influenza B	Total	% Positive							
26	0	0	0	0.0%	4	1	25.0%	2.5%	2.1%	3.2%	

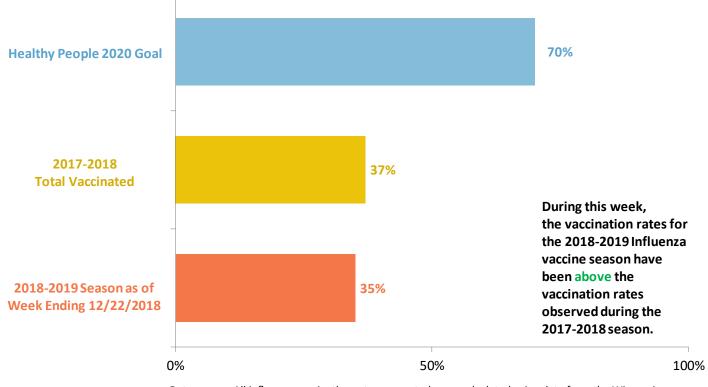
ILI activity trend analysis







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:

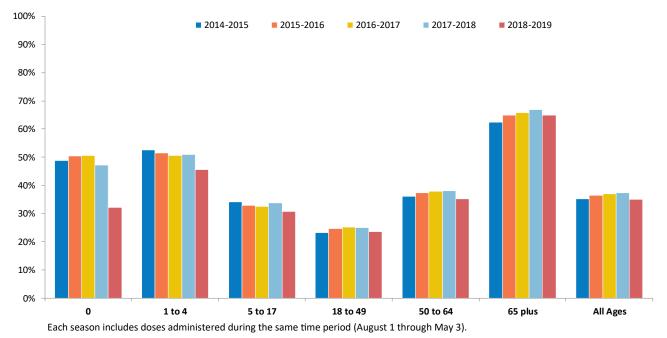
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

It is recommended that **<u>quadrivalent</u>** 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

