

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 50: Ending December 15, 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

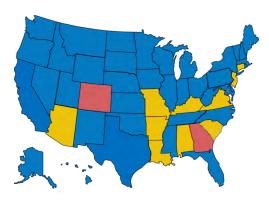


STATE OF WISCONSIN



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 is 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 50 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	1	7

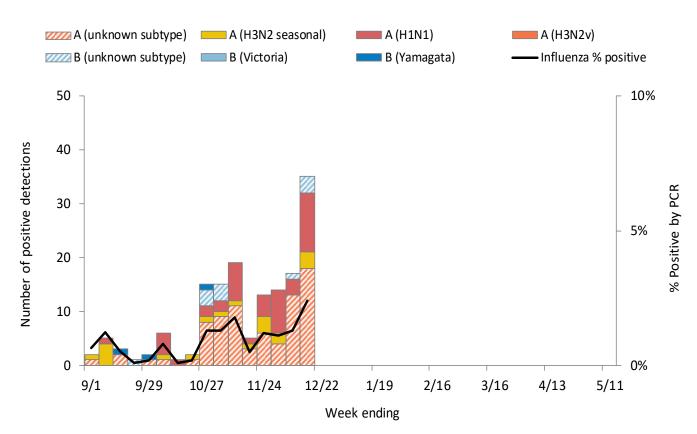


For National US influenza surveillance statistics visit: <u>www.cdc.gov/flu/weekly/</u>



WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR



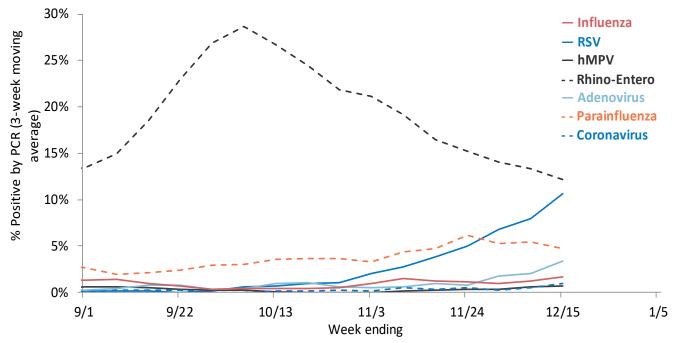
Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	91% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)		Total
Total positive (n)	44	21	77	0	3	11	156
% of total positive	28%	13%	49%	0%	2%	7%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



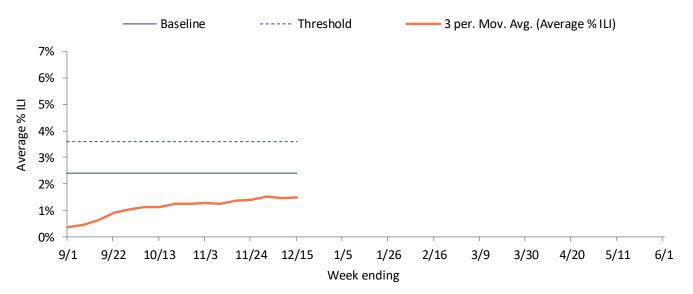
Week 50: Ending on December 15, 2018

Demintention	T	Positive	Posit	ive		Influenza A				Influenza	a B	
Respiratory virus	Tested	(n)	(%)	H3N2	2009 H1N1	Unknown	Vict	toria	Yamagat	ta	Unknown
Influenza	1444	35	2.4	%	3	11	18		0 0			3
Respiratory virus	s Tes	sted Po	sitive (n)	Positi (%)	Par	rainfluenza 1	Parainfluen	za 2	Parair	rainfluenza 3 Parainf		rainfluenza 4
Parainfluenza	56	645	29	5.1%	%	0	13		8 8		8 8	
Respiratory virus	s Tes	ted	sitive (n)	Positi (%)		CoV 229E	CoV OC4	3	Co	V NL63		CoV HKU1
Coronavirus (Co	/) 29	97	5	1.79	6	1	4			0	0	
Respiratory	virus		Tested		d		Positive (n)		Ро		itive	(%)
RSV				809)		121				15.0%	
Human metapn	eumovi	rus		589)		4			0.75		,)
Rhino-enter	rovirus			550	50		58	58		10.5%		%
Adenovi	rus			297	,		14				4.7%	,)

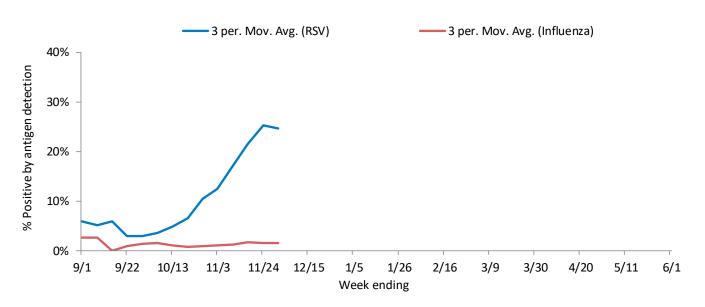


	Influenz	a rapid anti	gen tests		RSV r	a <mark>pid</mark> antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Testeu	Influenza A	Influenza B	Total	% POSITIVE						
604	20	3	23	3.8%	162	59	36.4%	1.5%	2.4%	3.6%

ILI activity trend analysis

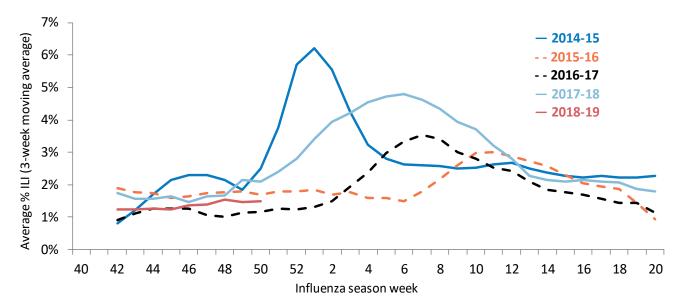


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

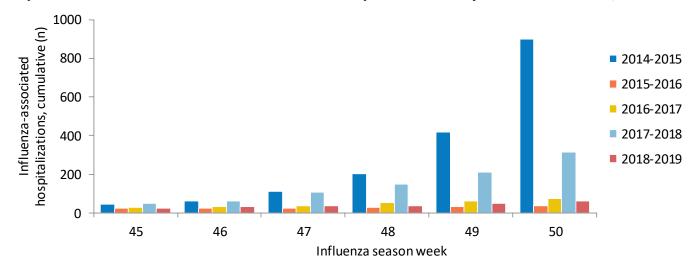
ILI activity trend analysis by influenza season, Wisconsin



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

Age group			Ir	ifluenza subty	ре	Admitted	Required		Postpartum	
(years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	0	0	0	0	0	0	0	0	0	0
1-4	6	1	0	3	2	0	1	0	0	0
5-17	3	1	0	0	1	1	0	0	0	0
18-49	14	2	0	7	2	3	1	0	0	0
50-64	10	0	1	5	4	0	3	0	0	0
65+	27	7	2	11	7	0	5	1	0	0
Total	60	11	3	26	16	4	10	1	0	0

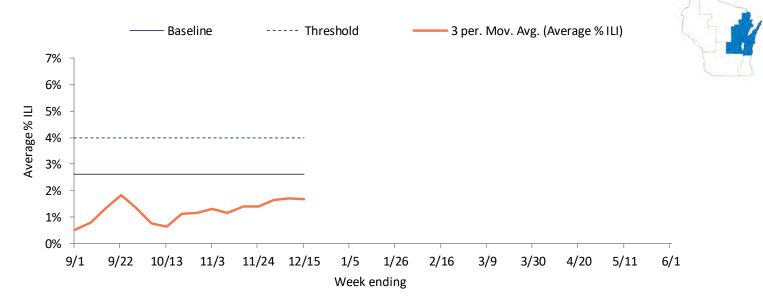
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

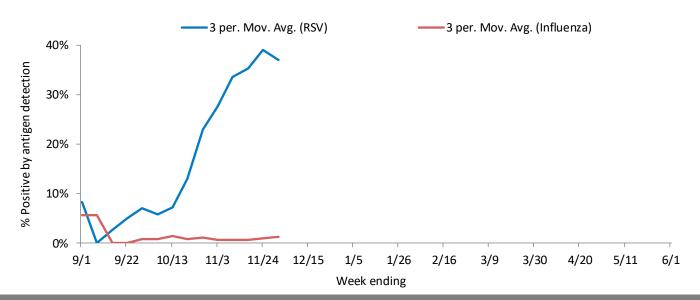


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV rapid antigen tests Influenza-like illness (ss (ILI)
Tested	Positive (n) % Positive				Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Testeu	Influenza A	Influenza B	Total	% Positive	Testeu	POSITIVE (II)	70 POSILIVE	ILI 70	Daseillie	mesholu
225	10	1	11	4.9%	78	33	42.3%	1.4%	2.6%	4.0%

ILI activity trend analysis

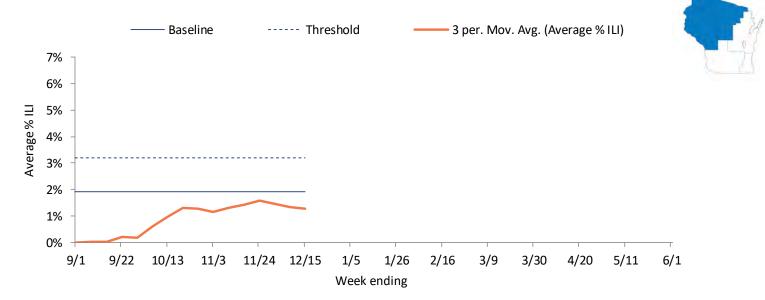


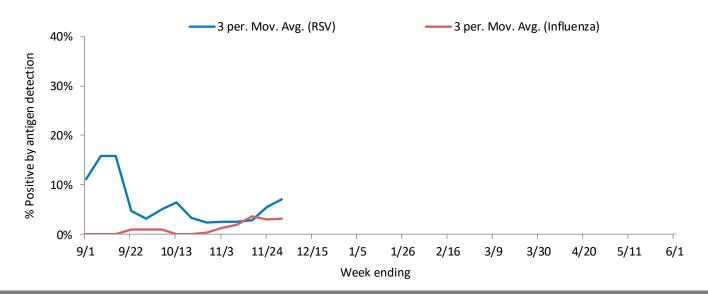


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n)				% Positive	Tested	Desitive (p)	% Positive	ILI %	Deceline	Threshold
Tested	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% POSITIVE	ILI 70	Baseline	Inresnoid
228	8	0	8	3.5%	68	20	29.4%	1.5%	1.9%	3.2%

ILI activity trend analysis





2.1%



6

3

50.0%

1.2%

4.0%

6.1%

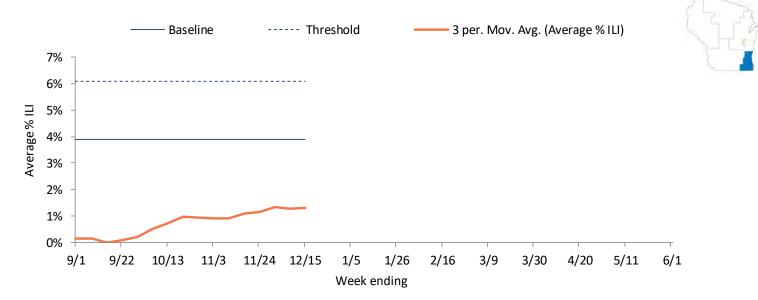
ILI activity trend analysis

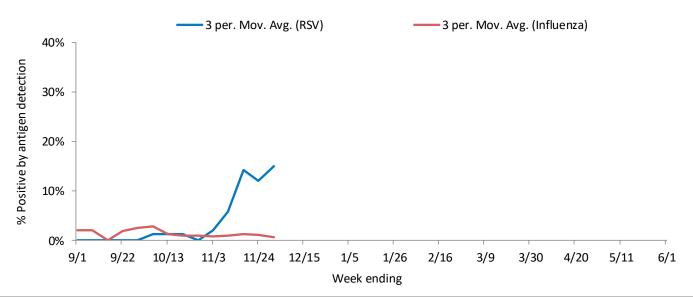
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2

1

97

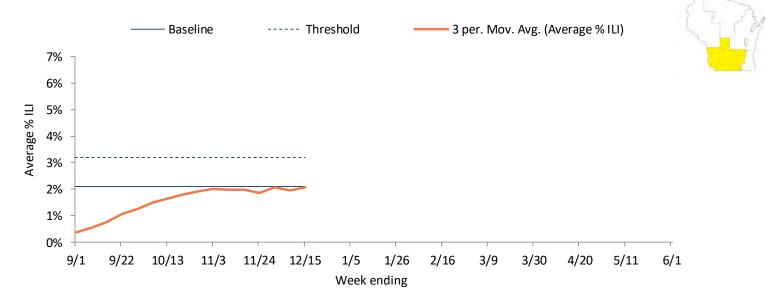


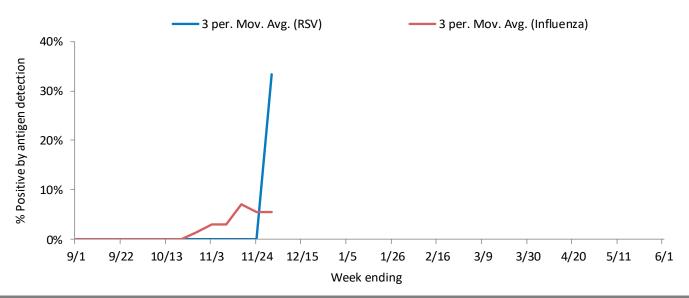


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	RSV rapid antigen tests Influenza-like illne				
Positive (n) Tested				% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
resteu	Influenza A	ienza A Influenza B Total			Testeu	POSITIVE (II)	70 POSITIVE	ILI 70	Baseline	mesnoid
24	1	1	2	8.3%	10	3	30.0%	2.2%	2.1%	3.2%

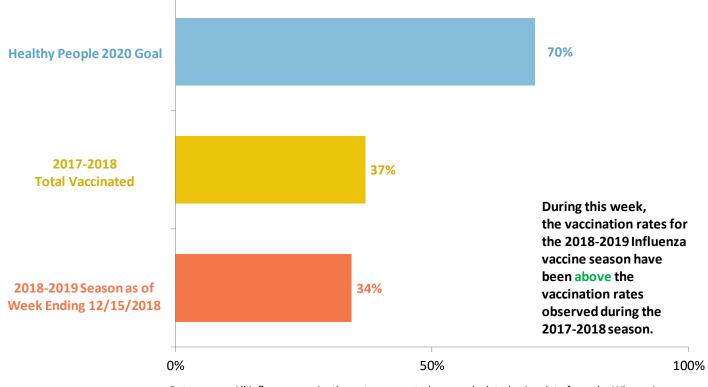
ILI activity trend analysis







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:

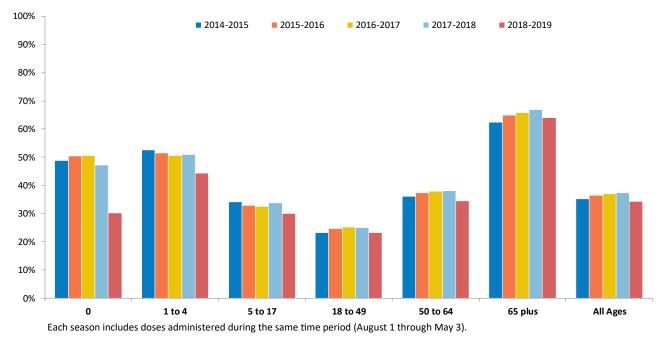
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

