

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 1: Ending January 5, 2019

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





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:

- An influenza/pneumonia mortality page has been added to this report (page 3)
- Influenza-associated hospitalizations are increasing. 72 flu-associate hospitalizations were reported this week

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 1, 2019	October 1, 2018 to present
Wisconsin	0	0
Nationwide	3	16

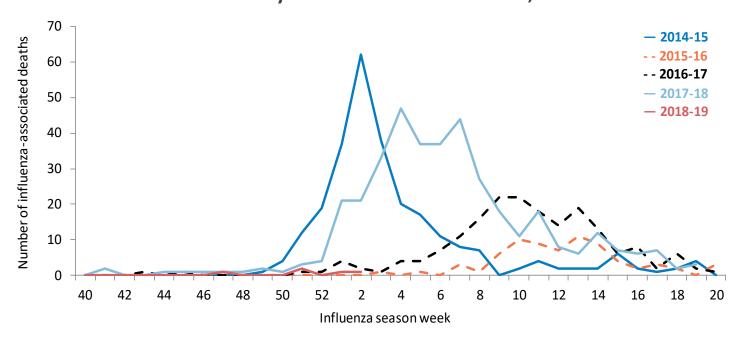


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin



Influenza and pneumonia-associated deaths by age group, 2018-2019 season

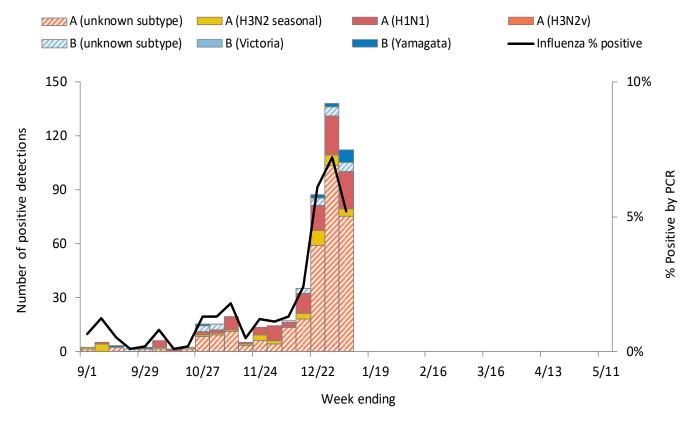
September 30, 2018 to January 5, 2019

		Week 1, 2019		Cumulative, 2018-2019 season				
Age group (years)	Influenza	Pneumonia (P)	Percent I+P of all deaths	Influenza	Pneumonia (P)	Percent I+P of all deaths		
0-4	0	0	0%	0	1	1.0%		
5-17	0	0	0%	0	0	0%		
18-49	0	2	8.0%	0	18	2.1%		
50-64	0	8	11.0%	0	73	3.5%		
65+	1	53	10.4%	4	629	5.6%		
All ages	1	63	10.3%	4	721	5.0%		

Data source: **DPH**, Office of Health Informatics



Wisconsin positive influenza results and subtypes by PCR

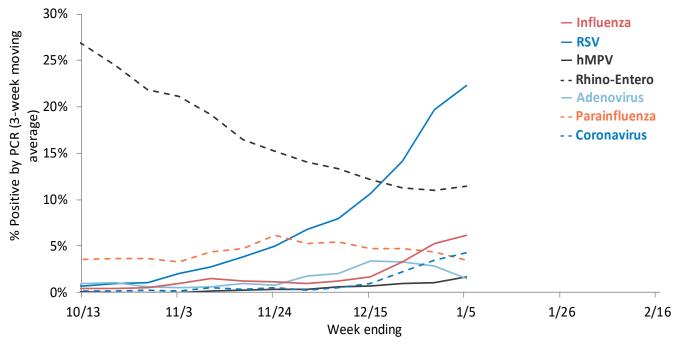


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	92% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	8% B (Unknown)	Total
Total positive (n)	101	39	314	0	14	25	493
% of total positive	20%	8%	64%	0%	3%	5%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 1: Ending on January 5, 2019

Dogwiyatawa iwa	Tested	Tested	Tested	Positive	Positive		Influenza A			280Influenza B	
Respiratory virus T	restea	(n)	(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown		
Influenza	2168	112	5.2%	4	21	75	0	7	5		

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	847	20	2.4%	1	5	5	9
		Positivo	Positivo				

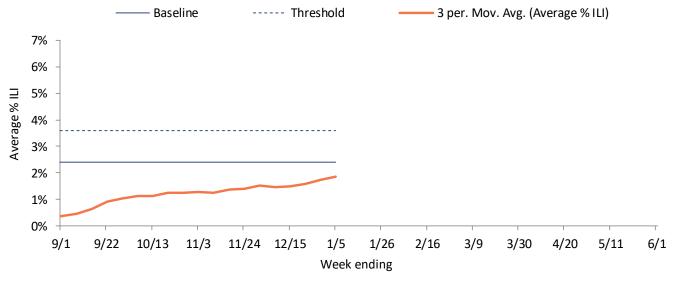
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	369	16	4.4%	2	13	1	0

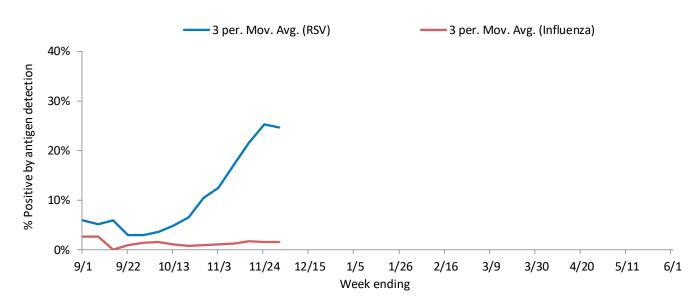
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1297	296	22.9%
Human metapneumovirus	876	23	2.7%
Rhino-enterovirus	826	98	11.9%
Adenovirus	369	3	0.9%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positive	itive Tested	Dositivo (n)	% Positive	ILI %	Baseline	Threshold	
rested	Influenza A	Influenza B	Total	% Positive		Positive (n)					
1111	66	16	82	7.4%	305	110	36.1%	1.9%	2.4%	3.6%	

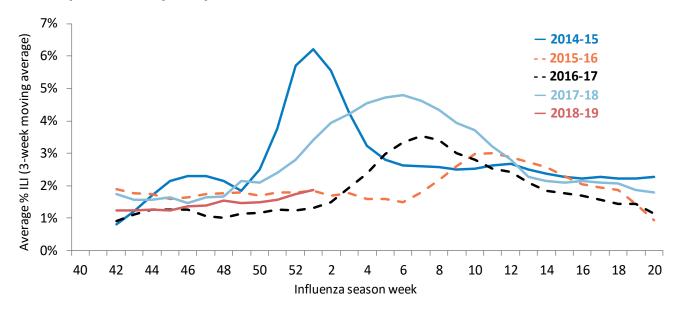
ILI activity trend analysis





WISCONSIN STATE SUMMARY

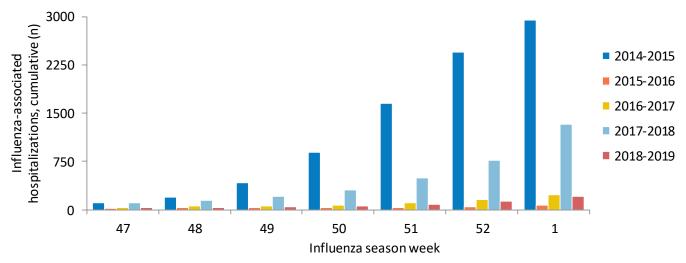
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subty	уре		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	2	0	0	1	1	0	0	0	0	0
1-4	12	1	0	7	2	2	1	0	0	0
5-17	6	1	0	2	2	1	1	0	0	0
18-49	44	5	0	30	5	4	5	2	1	0
50-64	48	10	1	27	9	1	7	1	0	0
65+	97	15	4	62	16	0	16	4	0	0
Total	209	32	5	129	35	8	30	7	1	0

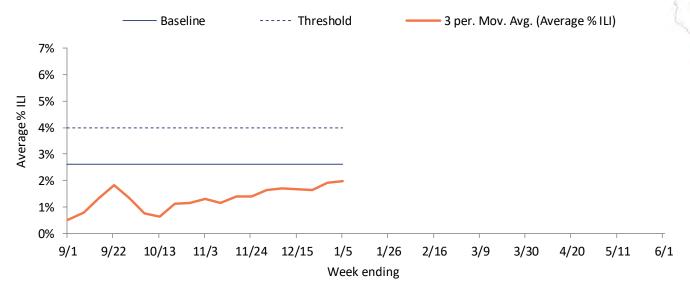
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

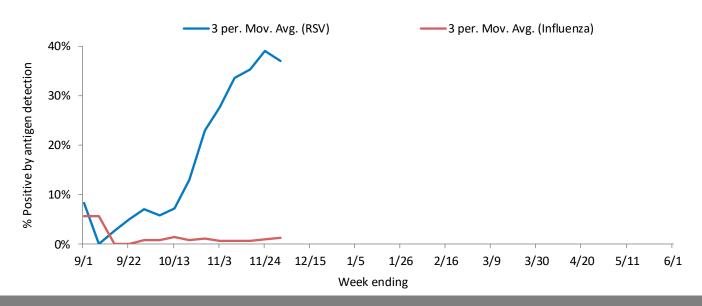


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostod	Positive (n)			0/ Desitive	Tostod	Docitive (n)	0/ Danitiva	11.1.0/	Deseline	Thurshald	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
500	25	5	30	6.0%	148	54	36.5%	1.6%	2.6%	4.0%	

ILI activity trend analysis

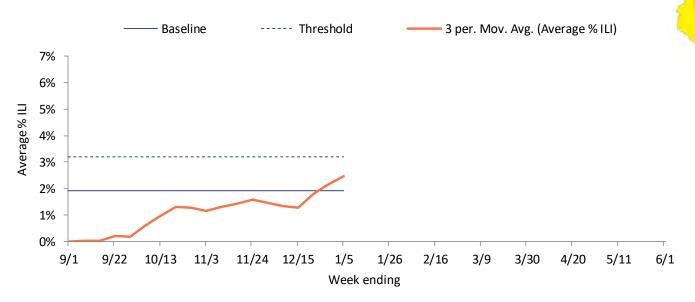


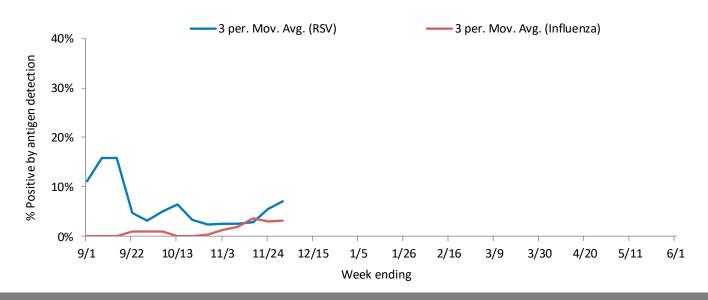


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod	Positive (n)				Tostod	Dositivo (n)	% Positive	11.1.0/	Dasalina	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoid
251	1	7	6	2.4%	122	45	36.9%	2.4%	1.9%	3.2%

ILI activity trend analysis

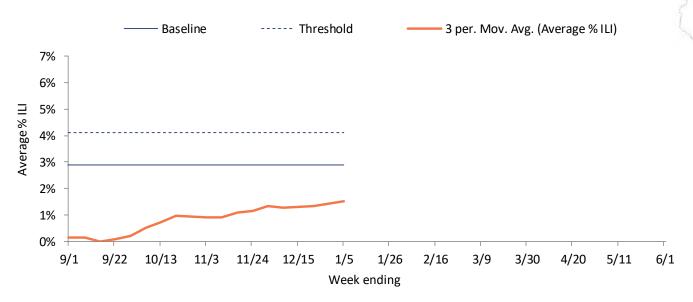


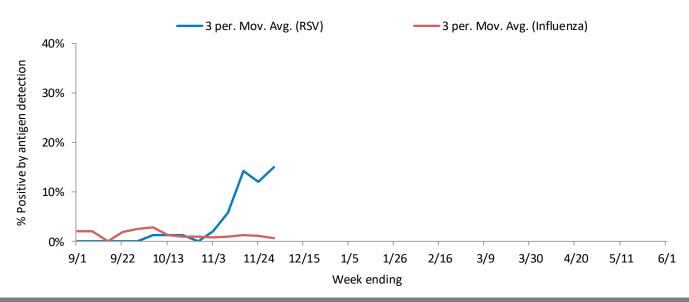




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tested	Positive (n) d % Posi				Tested	Docitive (n)	0/ Docitive	11.1.0/	Danalina	Threshold
resteu	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% Positive	ILI %	Baseline	mresnoia
311	22	4	26	8.4%	13	3	23.1%	1.5%	2.9%	4.1%

ILI activity trend analysis

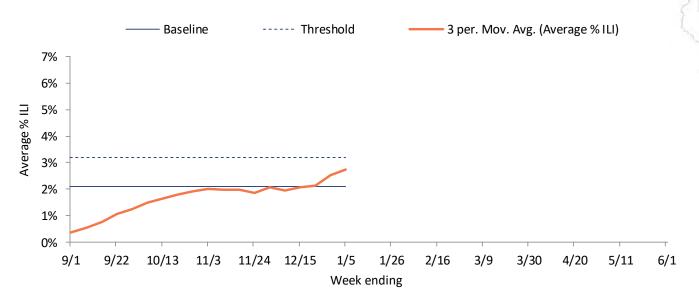


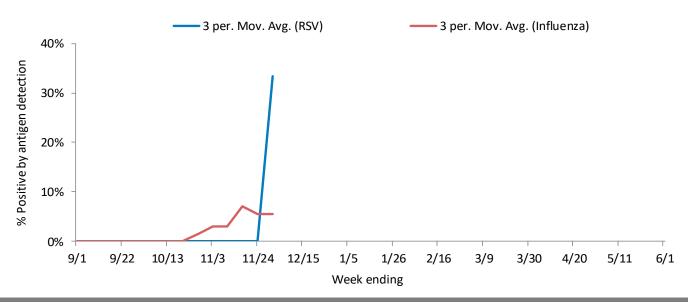


SOUTHERN REGION

Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	% POSITIVE	ILI 70	Daseille	Tillesiloiu
49	2	1	3	6.1%	22	8	36.4%	2.8%	2.1%	3.2%

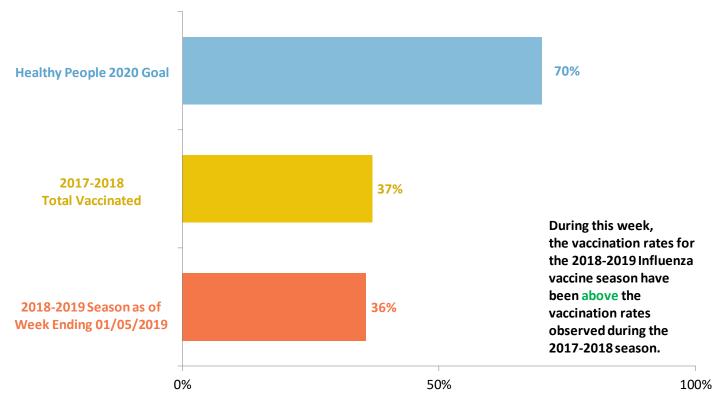
ILI activity trend analysis







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:

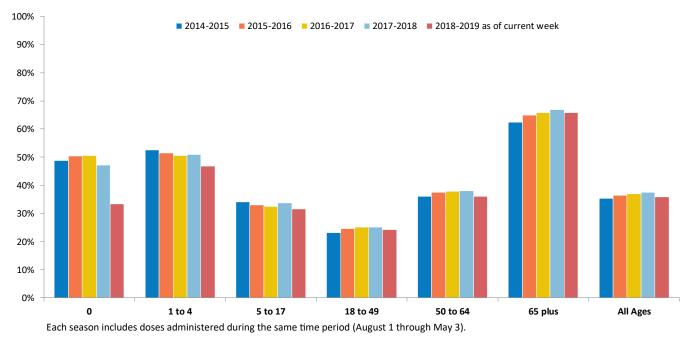
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

