

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 48: Ending December 1, 2018

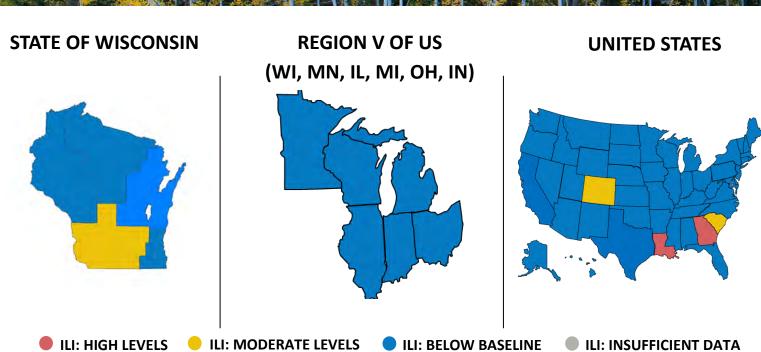
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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INFLUENZA LIKE ILLNESS (ILI) ACTIVITY



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 A/HINI is the predominant influenza virus nationwide and in Wisconsin

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 48, 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	0	5

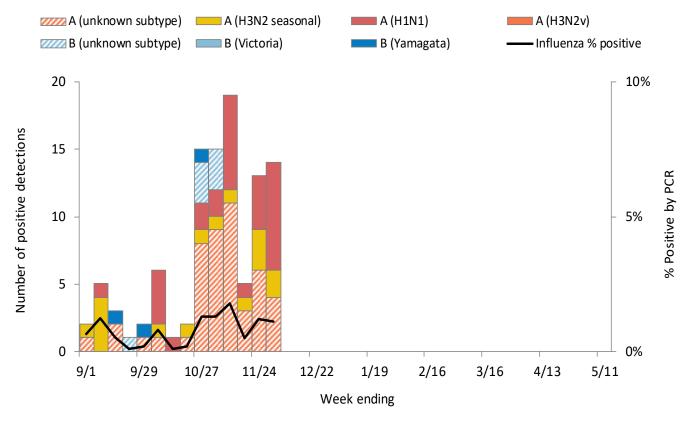


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

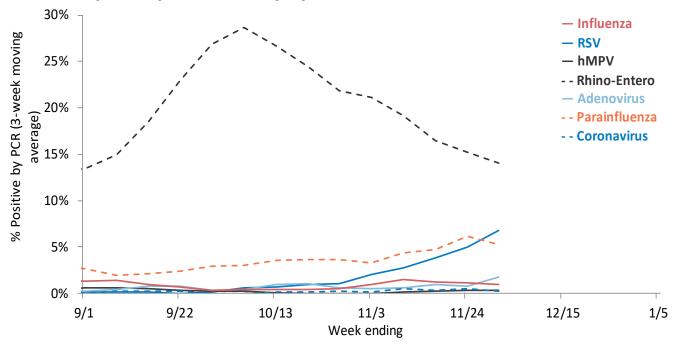


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	90% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	10% B (Unknown)	Total
Total positive (n)	30	18	46	0	3	7	104
% of total positive	29%	17%	44%	0%	3%	7%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 48: Ending on December 1, 2018

Respiratory virus Tested	Positive	Positive	Positive						Positive		Influenza A			Influenza B	
Respiratory virus	atory virus Tested	(n)	(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown						
Influenza	1221	14	1.1%	2	8	4	0	0	0						

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	592	24	4.1	0	16	5	3

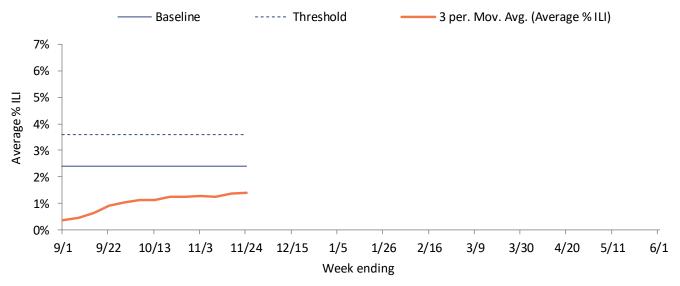
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	276	1	0.4%	0	1	0	0

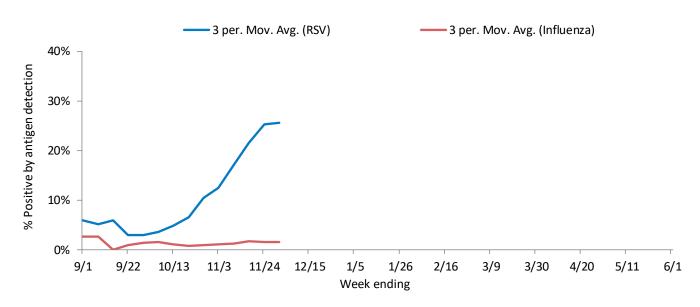
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	738	63	8.5%
Human metapneumovirus	615	2	0.3%
Rhino-enterovirus	568	74	13.0%
Adenovirus	276	9	3.3%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod	Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Docitive	11.1.0/	ILI % Baseline Thr		
Tested I	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI 70	Baseiine	Threshold
540	7	0	7	1.3%	88	22	25.0%	1.5%	2.4%	3.6%

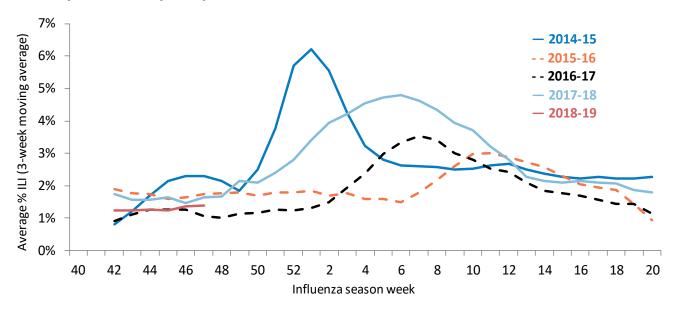
ILI activity trend analysis





WISCONSIN STATE SUMMARY

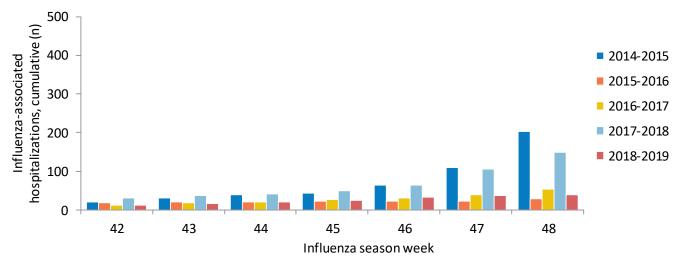
ILI activity trend analysis by influenza season, Wisconsin



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

Age group	Total		lr	nfluenza subty	/pe		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	3	1	0	0	2	0	1	0	0	0
5-17	2	1	0	0	1	0	0	0	0	0
18-49	9	1	0	6	2	0	1	0	0	0
50-64	7	0	1	3	3	0	2	0	0	0
65+	16	1	1	9	5	0	3	1	0	0
Total	38	4	2	19	13	0	7	1	0	0

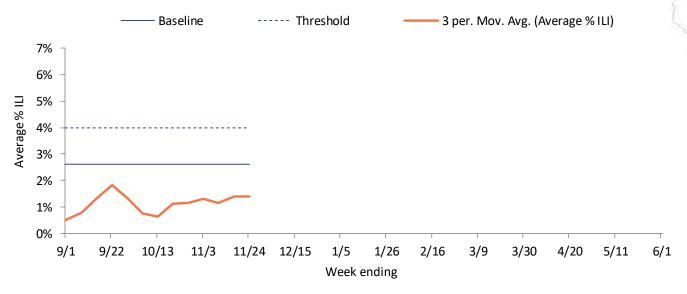
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

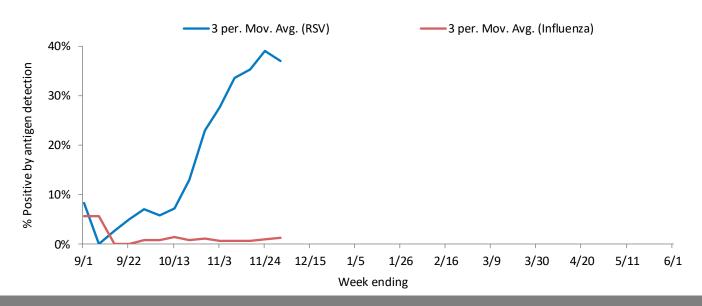


NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		% Positive	Tested	Positive (n)	% Positive	11 1 0/	ILI % Baseline Thre		
Tested	Influenza A	Influenza B	Total	% Positive	restea	Positive (II)	% Positive	ILI %	Baseime	Threshold
247	3	0	3	1.2%	51	18	35.3%	1.8%	2.6%	4.0%

ILI activity trend analysis

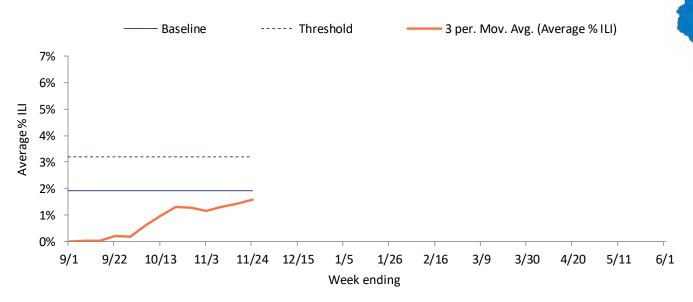


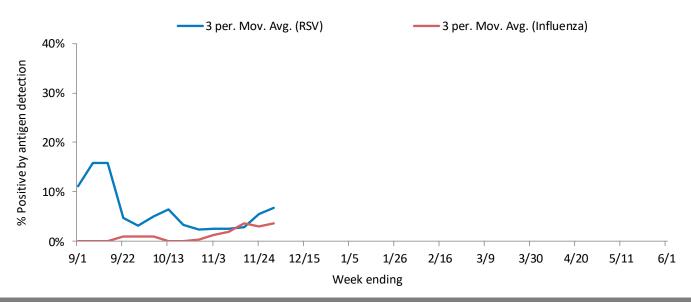


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		0/ Docitivo	Tostad	Docitive (n)	0/ Desitive	11.1.0/	Deceline Three	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mesnoia
98	4	0	4	4.1%	26	1	3.8%	1.1%	1.9%	3.2%

ILI activity trend analysis

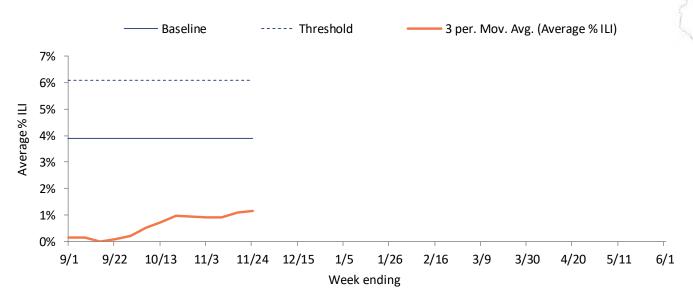


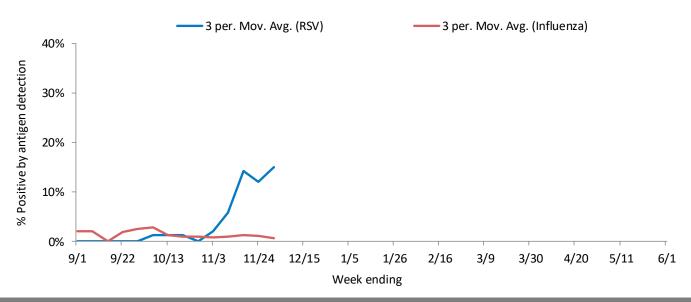


SOUTHEASTERN REGION

	Influenz	a rapid antig	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI 70	Daseille	iiiesiioiu
183	0	0	0	0.0%	10	2	20.0%	1.2%	4.0%	6.1%

ILI activity trend analysis

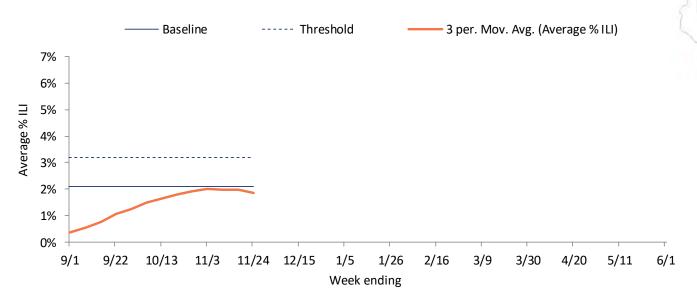


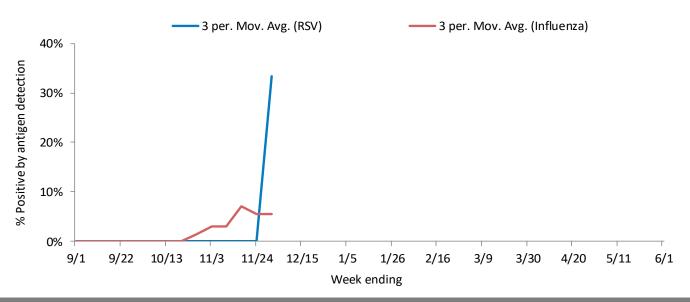


SOUTHERN REGION

	Influenz	a rapid antig	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n) % Positive		% Docitivo	Tostad	Docitive (n)	% Positive	11.1.0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% POSITIVE	ILI %	Daseille	Tillesiloiu
12	0	0	0	0.0%	1	1	100.0%	2.3%	2.1%	3.2%

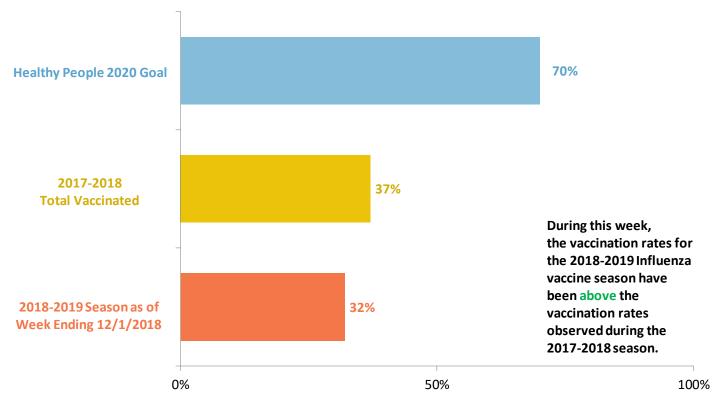
ILI activity trend analysis







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:

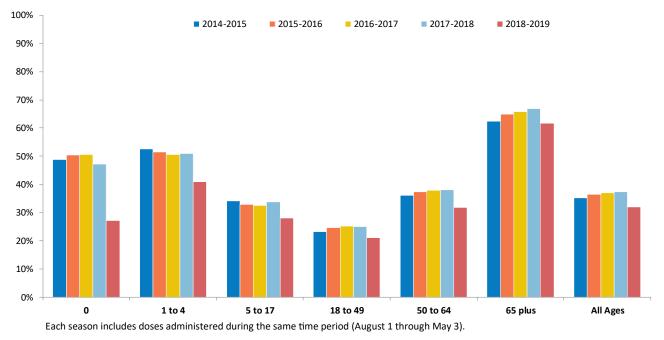
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

