

### RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 50: Ending December 15, 2018

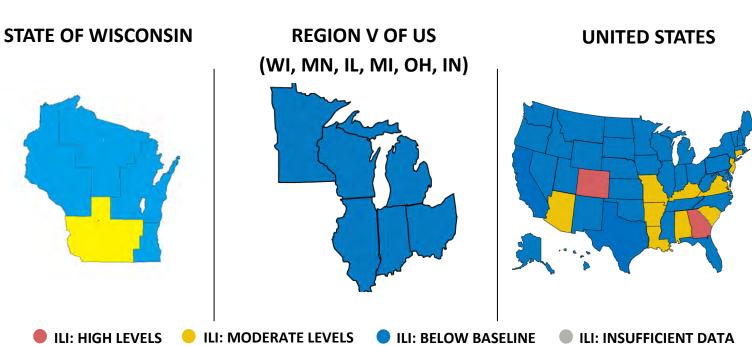
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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



# INFLUENZA LIKE ILLNESS (ILI) ACTIVITY



#### AT-A-GLANCE:

- Weekly Respiratory Report Description
- Predominant Virus of the Week:
  RSV is the predominant virus

#### **CURRENT ALERTS:**

this week.

- Influenza A/HINI is the predominant influenza virus nationwide and in Wisconsin
- Influenza-associated hospitalizations are increasing

# INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

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

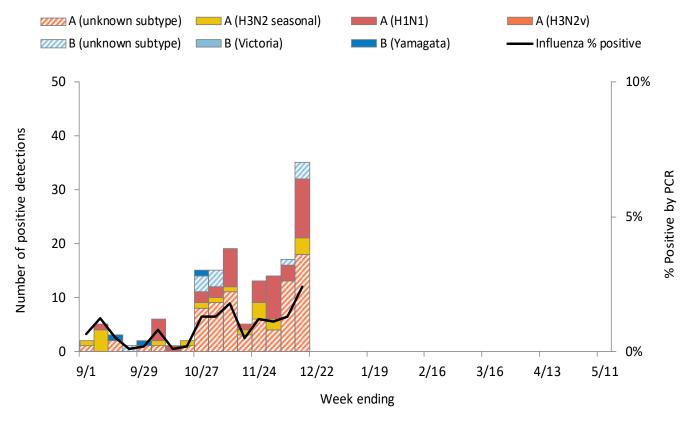


For National US influenza surveillance statistics visit: <a href="www.cdc.gov/flu/weekly/">www.cdc.gov/flu/weekly/</a>



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

#### Wisconsin positive influenza results and subtypes by PCR

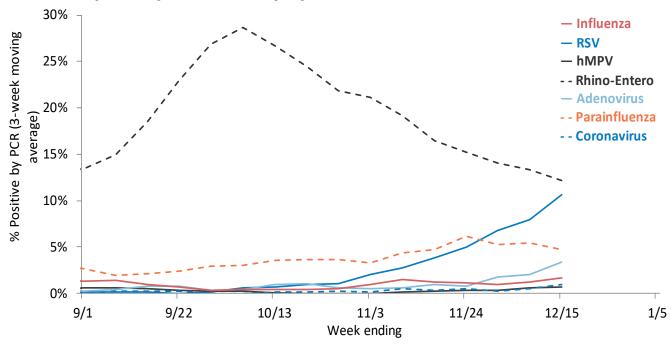


# Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	91% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	9% B (Unknown)	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

Dogwiyatawa iwa	Tostad	Positive	Positive		Influenza A			Influenza B	
Respiratory virus	restea	(n)	(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	1444	35	2.4%	3	11	18	0	0	3

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	5645	29	5.1%	0	13	8	8

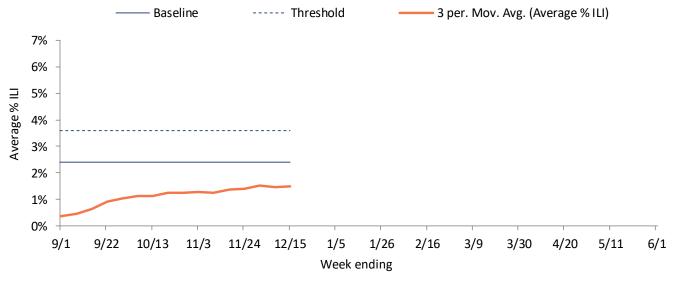
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	297	5	1.7%	1	4	0	0

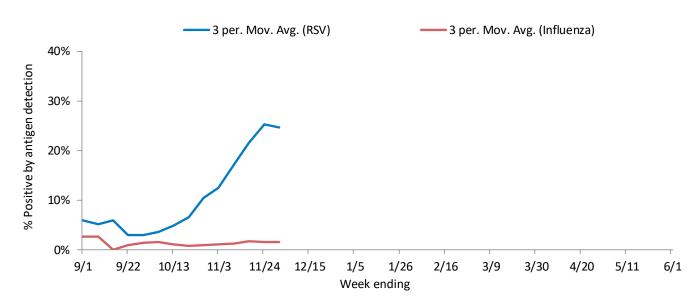
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	809	121	15.0%
Human metapneumovirus	589	4	0.7%
Rhino-enterovirus	550	58	10.5%
Adenovirus	297	14	4.7%

# WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n)			% Positivo	Tested	Positive (n)	% Positive	ILI %	Deseline	Thusahald	
rested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI %	Baseline	Threshold
604	20	3	23	3.8%	162	59	36.4%	1.5%	2.4%	3.6%

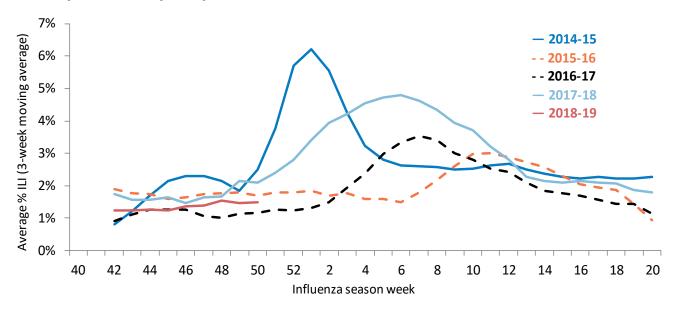
#### **ILI activity trend analysis**





#### **WISCONSIN STATE SUMMARY**

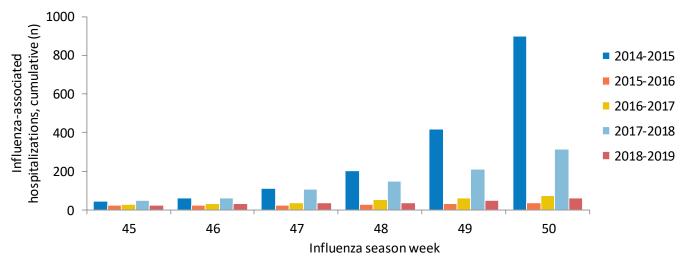
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subty	ype		Admitted	Required		Postpartum (≤6 weeks)
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	_	
<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

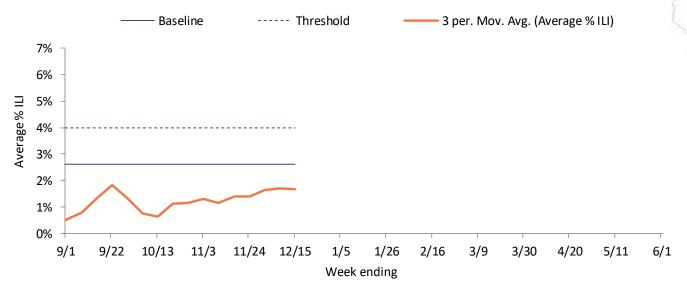
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

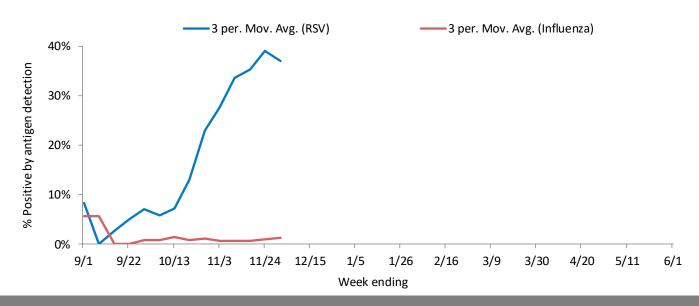


# NORTHEASTERN REGION

	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
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	70 1 O3ILIVE	ILI /0	baseiiile	Tillesiloiu
225	10	1	11	4.9%	78	33	42.3%	1.4%	2.6%	4.0%

#### ILI activity trend analysis

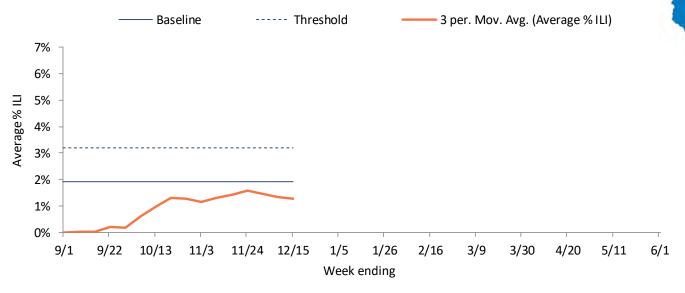


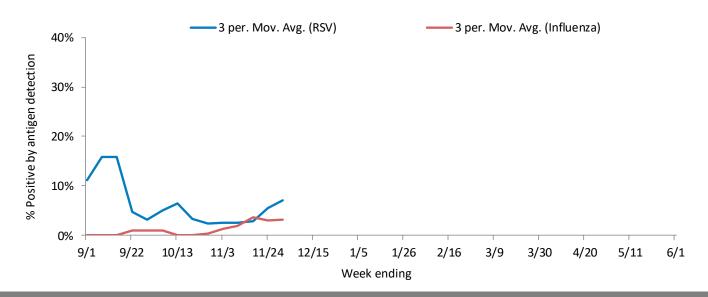


# **NORTHWESTERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n) Tested			0/ Desitive	Tested	Dositivo (n)	0/ <b>D</b> = -!+!	11.1.0/	DII	Thursh ald	
rested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)	re (n) % Positive	ILI %	Baseline	Threshold
228	8	0	8	3.5%	68	20	29.4%	1.5%	1.9%	3.2%

#### **ILI activity trend analysis**

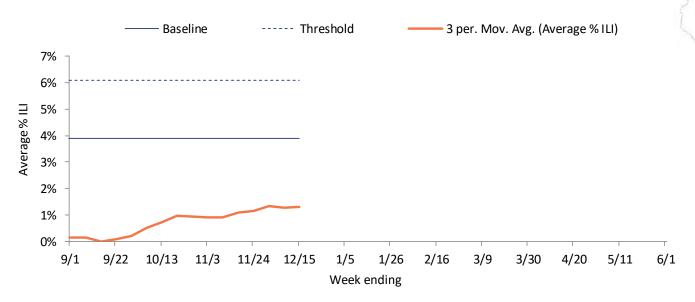


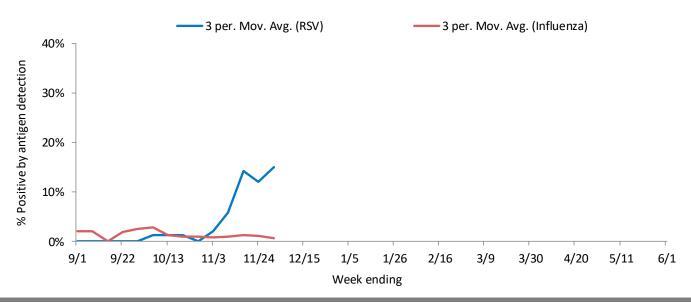


# SOUTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested I	Influenza A	Influenza B	Total	% Positive	resteu	rositive (II)	70 PUSITIVE	ILI 70	Daseillie	Tillesilolu
97	1	1	2	2.1%	6	3	50.0%	1.2%	4.0%	6.1%

#### ILI activity trend analysis

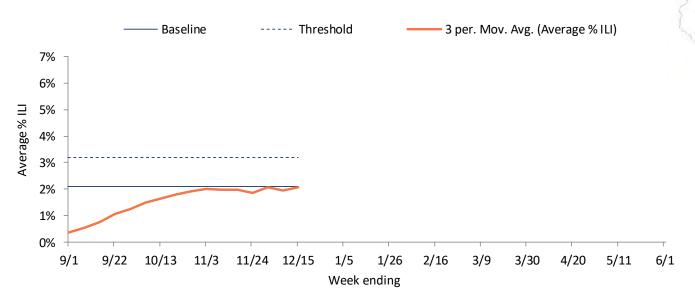


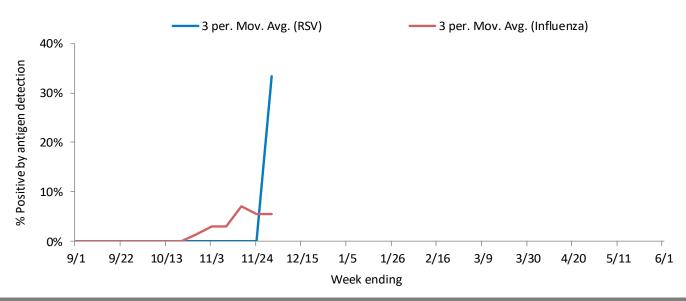


## **SOUTHERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Positive (n) Tested			0/ Desitive	Tostod	Dositivo (n)	0/ <b>D</b> = -!+!	11.1.07	Danalina.	<b>T</b>	
restea	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	(n) % Positive	ILI %	Baseline	Threshold
24	1	1	2	8.3%	10	3	30.0%	2.2%	2.1%	3.2%

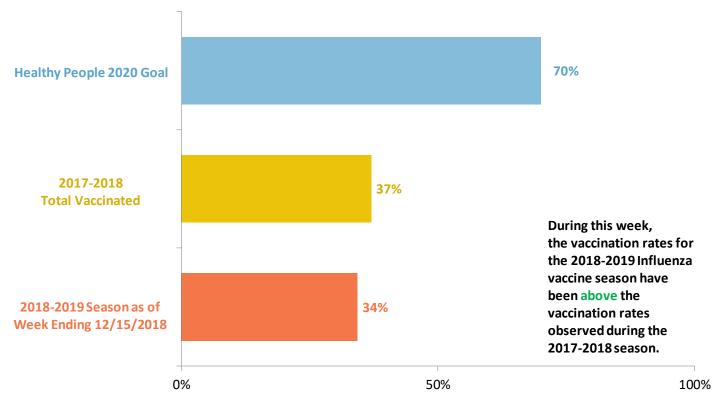
#### ILI activity trend analysis







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:

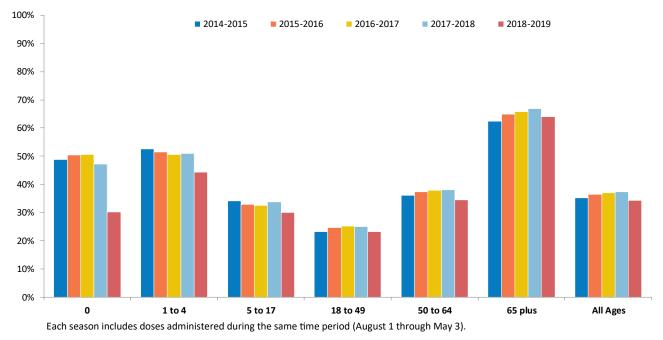
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

It is recommended that **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

