

### RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 49: Ending December 8, 2018

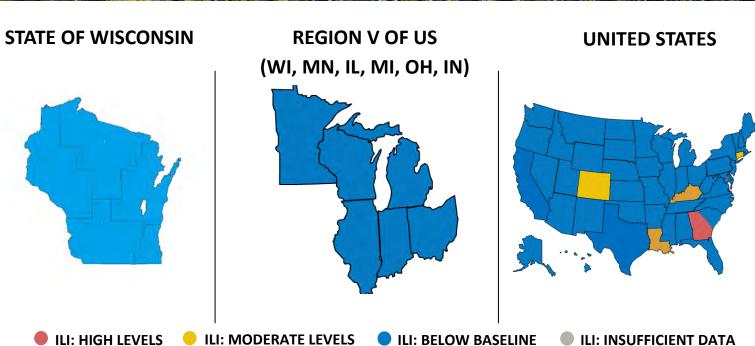
Wisconsin Department of Health Services | Division of Public Health

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:

  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 49, 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	1	6

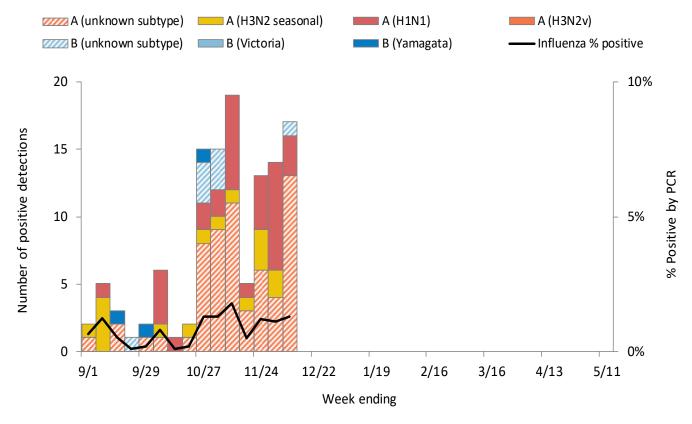


For National US influenza surveillance statistics visit: <a href="www.cdc.gov/flu/weekly/">www.cdc.gov/flu/weekly/</a>



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

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

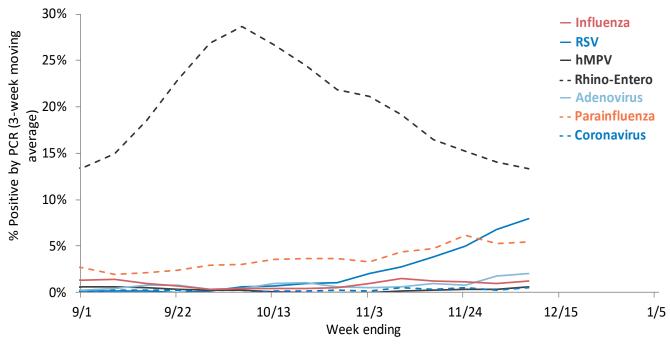


# Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	91% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)		Total
Total positive (n)	33	18	59	0	3	8	121
% of total positive	27%	15%	49%	0%	2%	7%	100%

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

#### Trends in respiratory virus activity by PCR



Week 49: Ending on December 8, 2018

Respiratory virus Teste	Tostad	Positive	Positive	Positive		Influenza A		Influenza B			
	rested	(n)	(%)	H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown		
Influenza	1266	17	1.3%	0	3	13	0	0	1		

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	599	29	4.8%	1	14	6	8

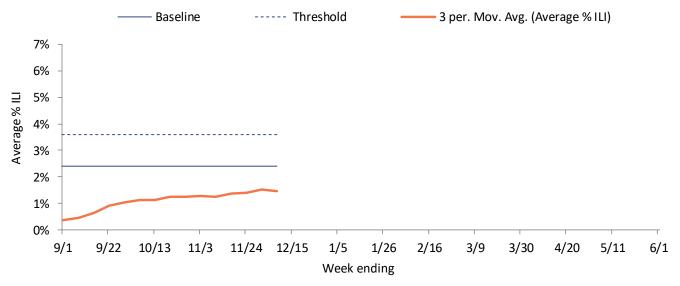
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	280	2	0.7%	2	0	0	0

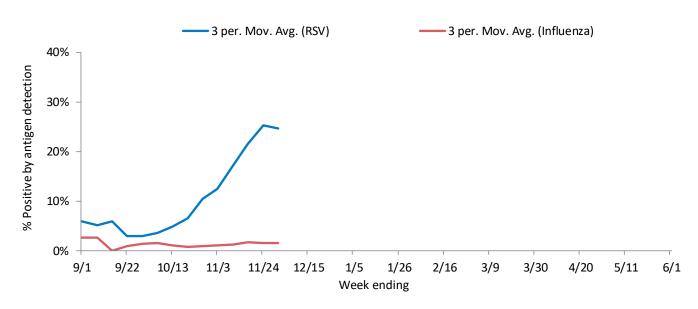
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	769	64	8.3%
Human metapneumovirus	615	7	1.1%
Rhino-enterovirus	581	75	12.9%
Adenovirus	280	6	2.1%



	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n) Tested		% Positivo	Tested	Positive (n)	% Positive	11.1.9/	ILI % Baseline Thre	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI /0	Daseille	iiiesiioiu
751	19	2	21	2.8%	122	25	20.5%	1.4%	2.4%	3.6%

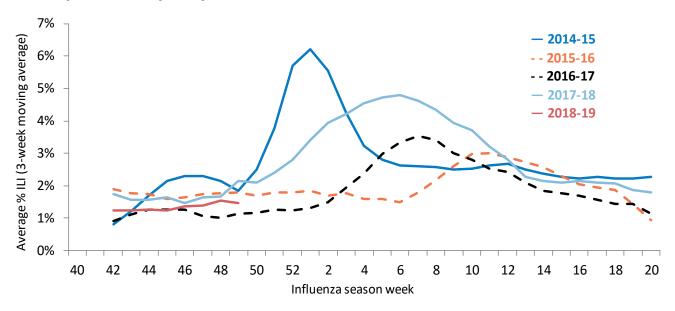
#### **ILI activity trend analysis**





#### **WISCONSIN STATE SUMMARY**

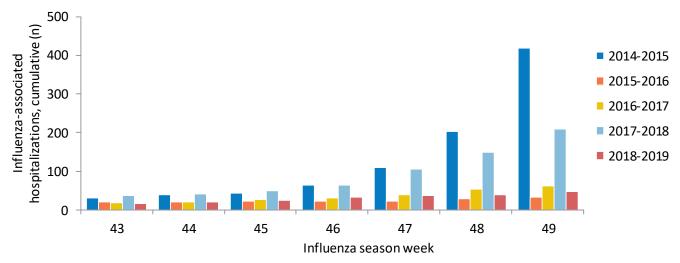
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subty	ype		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)		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	3	1	0	0	1	1	0	0	0	0
18-49	12	2	0	6	2	2	1	0	0	0
50-64	9	0	1	5	3	0	2	0	0	0
65+	19	3	1	10	5	0	3	1	0	0
Total	47	7	2	22	13	3	7	1	0	0

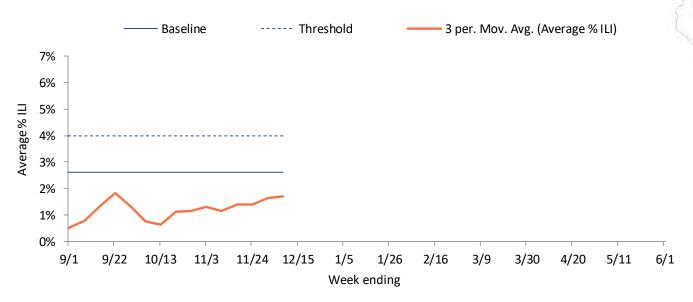
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

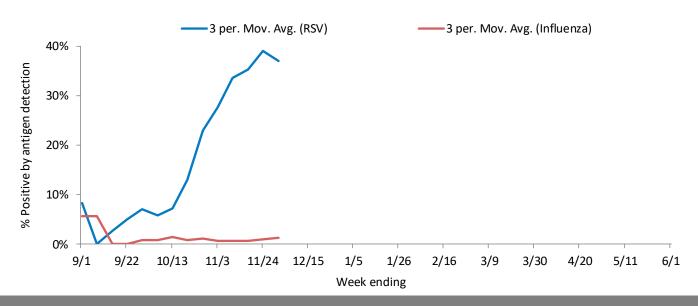


# NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		% Docitivo	Tested	Positive (n)	% Positive	11 1 0/	ILI % Baseline Th	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI 70	baseiiile	THESHOU
299	13	0	13	4.3%	55	15	27.3%	1.8%	2.6%	4.0%

#### ILI activity trend analysis

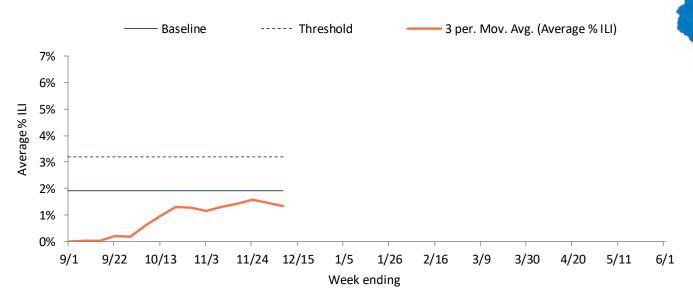


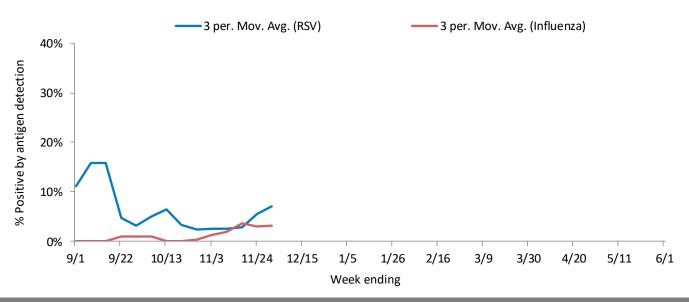


# **NORTHWESTERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod	Positive (n)		0/ Desitive	Tested	Dositivo (n)	% Positive	11.1.0/	Deseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)	% POSITIVE	ILI %	Baseline	illesiloid
184	5	1	6	3.3%	49	6	12.2%	1.2%	1.9%	3.2%

#### ILI activity trend analysis

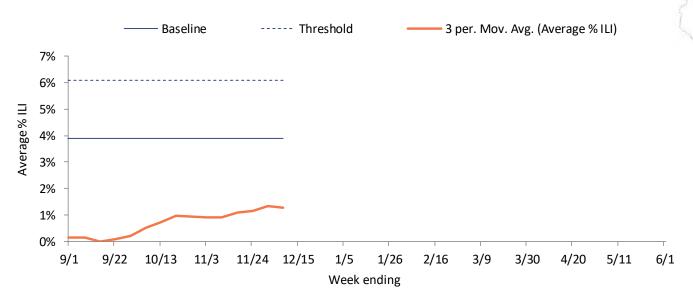


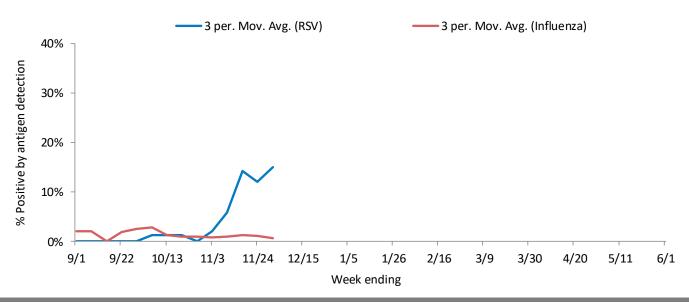


## SOUTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod	Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Desitive	11.1.0/	ILI % Baseline Thres		
Tested I	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
245	1	1	2	0.8%	14	2	14.3%	1.2%	4.0%	6.1%

#### ILI activity trend analysis

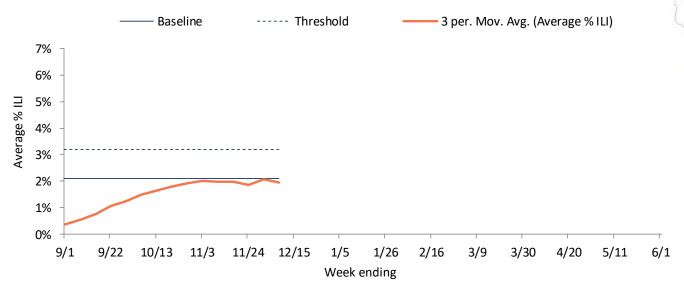


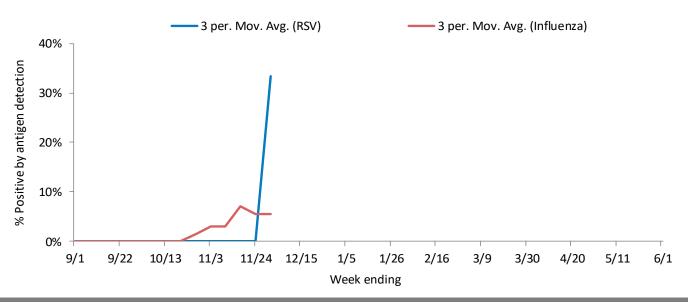


# **SOUTHERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)		% Docitive	Tested	Positive (n)	% Positive	11 1 0/	ILI % Baseline T	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI /0	baseiiile	Tillesiloid
23	0	0	0	0.0%	4	2	50.0%	1.7%	2.1%	3.2%

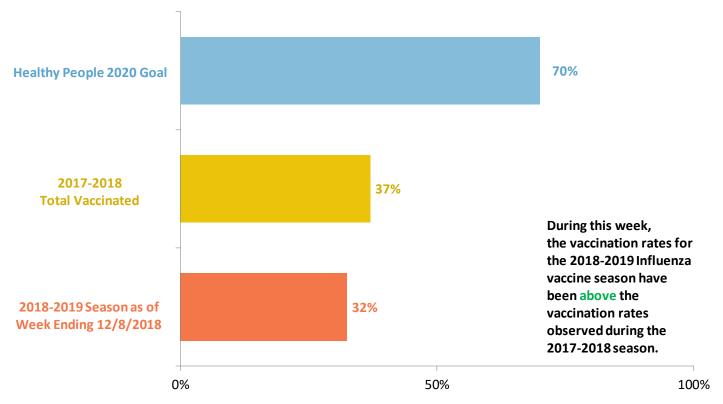
#### ILI activity trend analysis







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:

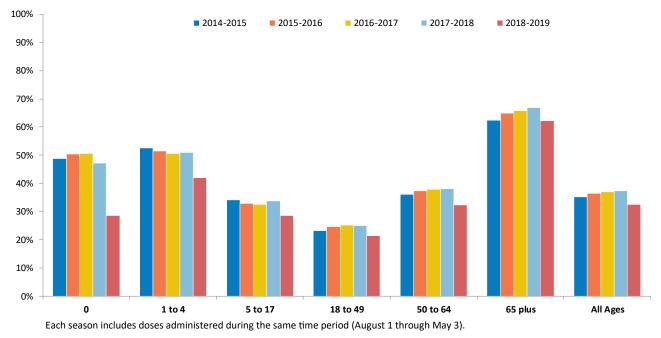
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

