

### **RESPIRATORY VIRUS SURVEILLANCE REPORT**

### Week Ending November 10, 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



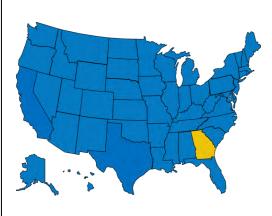


#### STATE OF WISCONSIN



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: Rhinovirus/enterovirus is the predominant virus this week.

#### **CURRENT ALERTS:**

• Parainfluenza and RSV activity are increasing statewide.



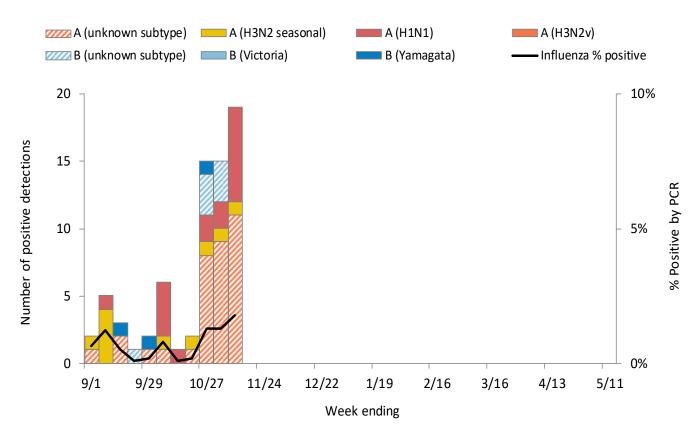
	Week 45, 2018	October 1, 2018 to present
Wisconsin	0	0
Nationwide	0	2



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



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

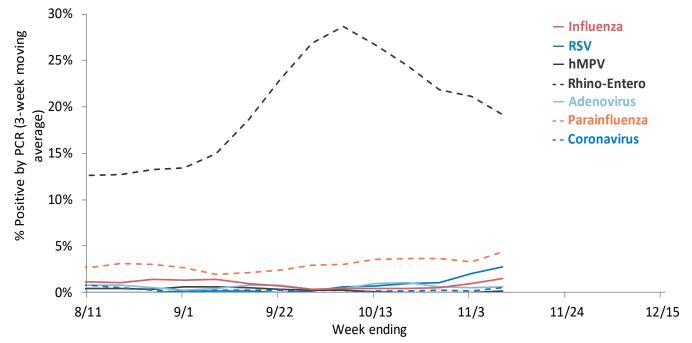


#### Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	86% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	14% B (Unknown)	Total
Total positive (n)	17	12	33	0	3	7	72
% of total positive	24%	17%	46%	0%	4%	10%	100%

## WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

#### Trends in respiratory virus activity by PCR



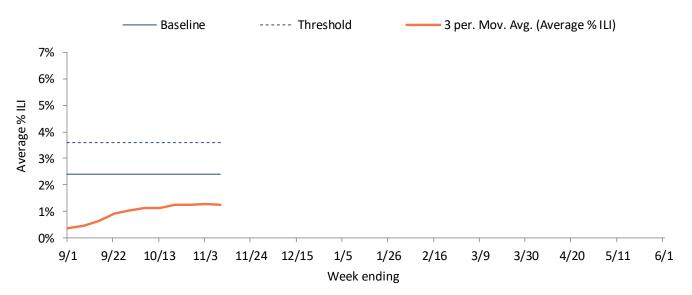
#### Week ending on November 10, 2018

Demintention	<b>T</b>	Positive	Posit	ive		Infl	uenza A				Influenza	a B			
Respiratory virus	Tested	(n)	(%	)	H3N2	200	9 H1N1	Unknown	Vio	ctoria	Yamagat	ta	Unknown		
Influenza	1044	19	1.8	%	1		9	11		0	) 0		0		
Respiratory virus	s Tes	eted Po	ositive (n)		sitive %)	Parainflu	ienza 1	Parainflue	nza <b>2</b>	Paraiı	nfluenza 3	luenza 3 Parainfluenza			
Parainfluenza	50	00	33	6.	6%	0		23		3		3		3 7	
Respiratory virus	s Tes	ted Po	sitive (n)		itive %)	CoV 2	29E	CoV OC4	3	Co	V NL63		CoV HKU1		
Coronavirus (Co	/) 19	99	2	1.0	0%	0		2		0			0		
Respiratory	virus			Tes	sted			Positive (n	)		Pos	itive	(%)		
RSV				62	21			20				3.2%	, )		
Human metapn	eumovi	rus	516				2				0.4%				
Rhino-enter	rovirus			48	482			80			16.6%		%		
Adenovi	rus			19	99			1		0		0.5%	, )		

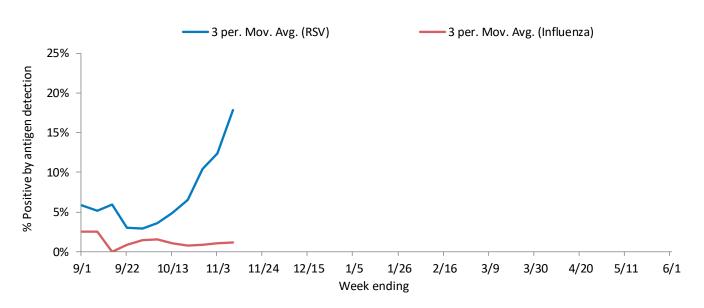


	Influenza rapid antigen tests					a <mark>pid</mark> antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Testeu	Influenza A	Influenza B	Total	% POSITIVE						
428	4	0	4	0.9%	69	18	26.1%	1.2%	2.4%	3.6%

#### ILI activity trend analysis

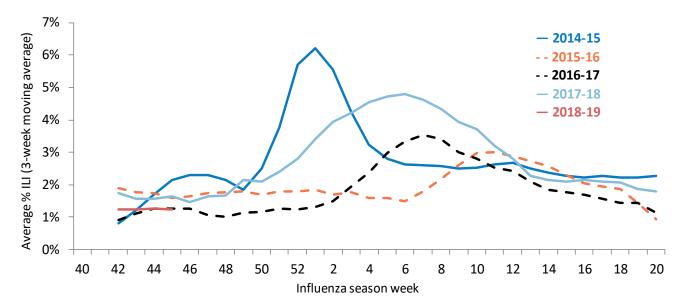


Influenza and RSV trend analysis



### WISCONSIN STATE SUMMARY

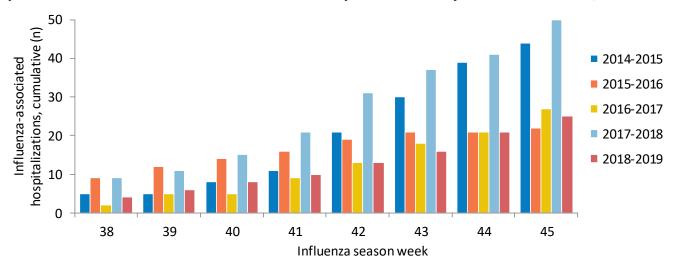
ILI activity trend analysis by influenza season, Wisconsin



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

Age group	Total		Ir	Influenza subtype			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	1	0	0	0	1	0	0	0	0	0
5-17	0	0	0	0	0	0	0	0	0	0
18-49	8	1	0	5	2	0	1	0	0	0
50-64	4	0	0	1	3	0	1	0	0	0
65+	11	1	1	6	3	0	3	1	0	0
Total	25	2	1	13	9	0	5	1	0	0

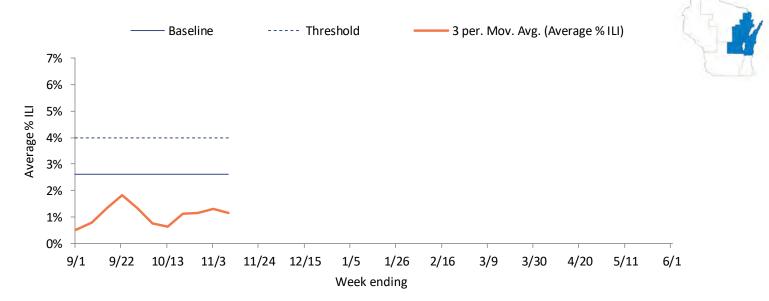
#### Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

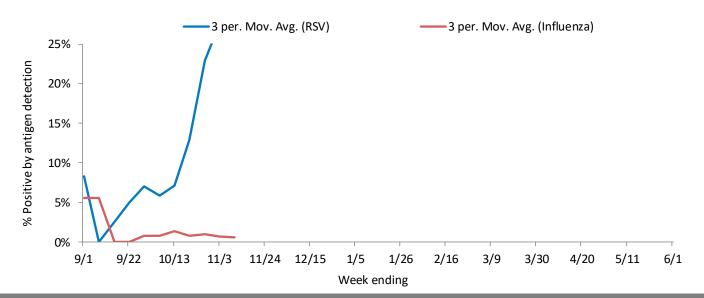


# NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)				Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	Testeu	Positive (n)	70 POSILIVE	ILI 70	Baseline	Infestiola	
213	1	0	1	0.5%	41	17	41.5%	1.1%	2.6%	4.0%	

#### ILI activity trend analysis

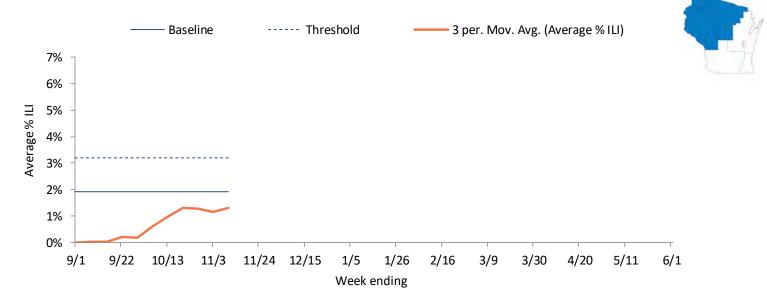


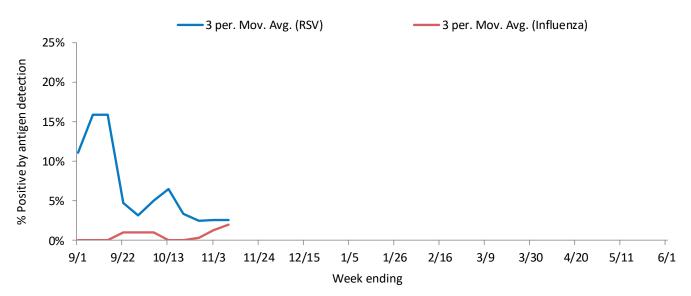


## **NORTHWESTERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tastad		Positive (n)		% Desitive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested						
100	2	0	2	2.0%	19	0	0.0%	1.4%	1.9%	3.2%	

#### ILI activity trend analysis





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4.0%

6.1%



7

1

14.3%

1.0%

#### ILI activity trend analysis

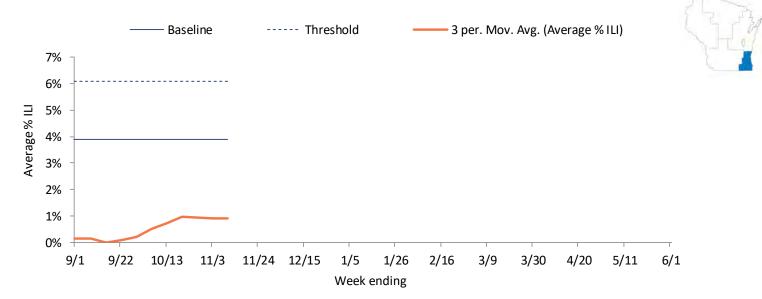
0

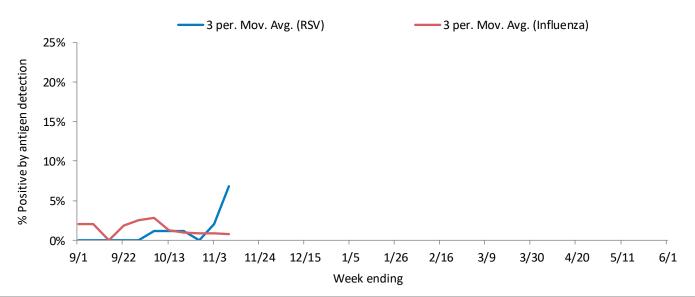
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1.0%

1

100

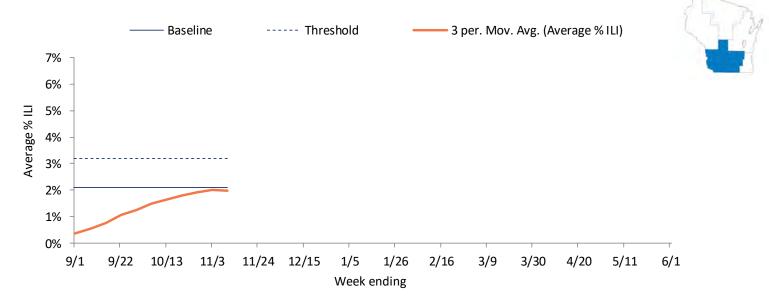


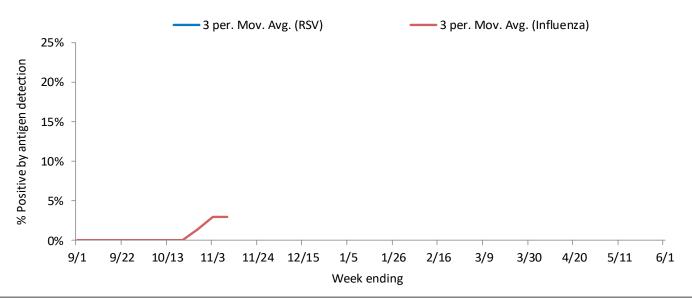


## **SOUTHERN REGION**

	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	
	Influenza A	Influenza B	Total	/0 FUSILIVE	resteu	FUSILIVE (II)	70 FUSILIVE	ILI 70	Dasellile	mesholu	
15	0	0	0	0.0%	2	0	0.0%	1.7%	2.1%	3.2%	

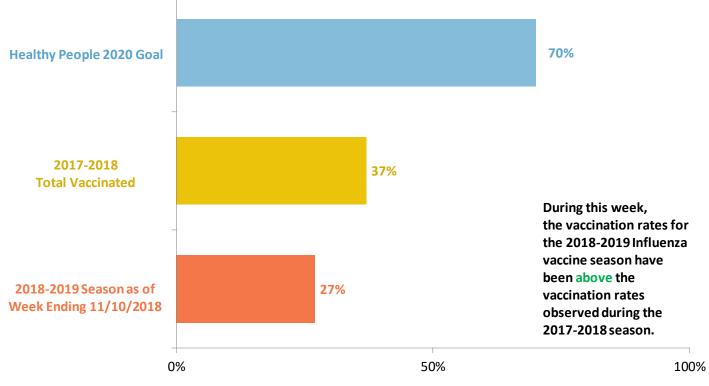
#### ILI activity trend analysis







## 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:

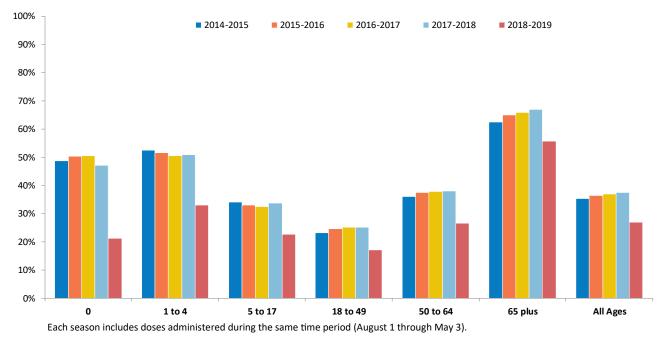
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

It is recommended that **<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

