

### RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 3: Ending January 18, 2020

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

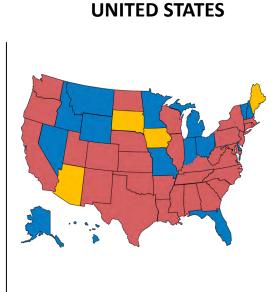
www.dhs.wisconsin.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov











ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

ILI: INSUFFICIENT DATA

#### **AT-A-GLANCE:**

- Weekly Respiratory Report Description
- Predominant Viruses of the Week:
  Influenza B and RSV are the predominant viruses this week.

#### **CURRENT ALERTS:**

Influenza B (Victoria lineage) continues to be the predominant influenza virus in Wisconsin.

An increase in influenza A/HI has been identified nationally and in Wisconsin.

## INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 3, 2020	October 1, 2019 to present
Wisconsin	0	1
Nationwide	15	54



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

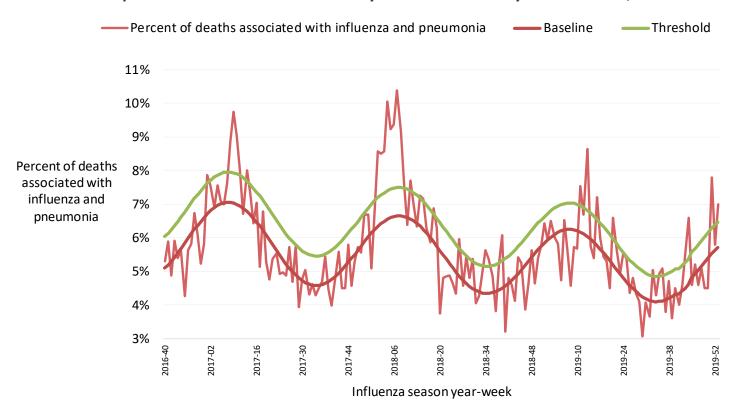




#### INFLUENZA AND PNEUMONIA-ASSOCIATED MORTAL

Influenza and Pneumonia Deaths, Wisconsin

#### Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin



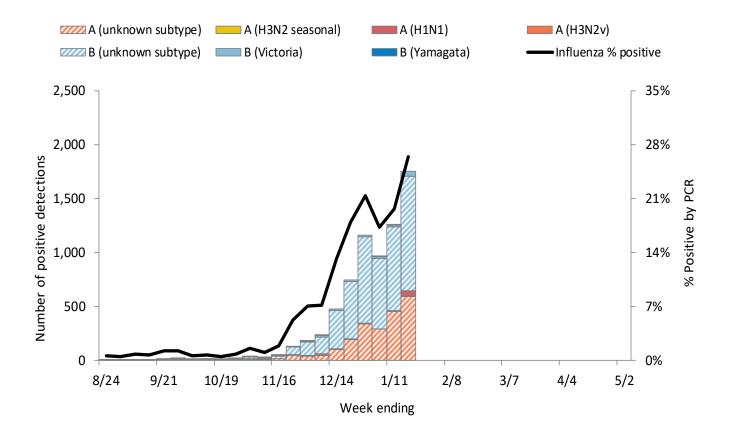
#### Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

Influenza season week	Influenza- associated deaths (I)	Pneumonia- associated deaths (P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
1	2	73	6.7%	5.7%	6.5%
2	7	75	7.6%	5.8%	6.6%
3 Preliminary Data	1	54	6.2%	5.9%	6.7%
Seasonal total	23	1107	5.0%	NA	NA

Data source: DPH, Office of Health Informatics

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

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

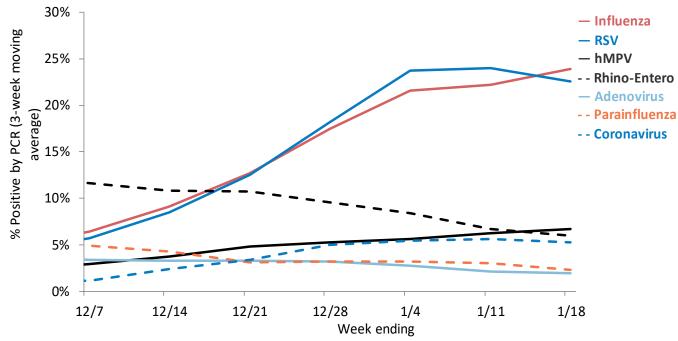


## Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	33% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	67% B (Unknown)	Total
Total positive (n)	113	57	2144	167	10	4565	7056
% of total positive	2%	1%	30%	2%	0%	65%	100%

## WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

#### Trends in respiratory virus activity by PCR



Week 3: Ending on January 18, 2020

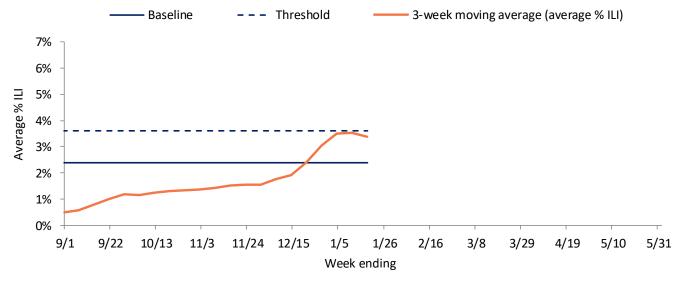
B	T	Posit			ve	Influenza A					Influenza B			
Respiratory virus	Tested	(n	1)	(%)	НЗГ	N2	2009 H1N1	Unknown	Vic	toria	Yamagata		Unknown	
Influenza	6633	175	52	26.4	% 6		43	594		48	0		1061	
Respiratory virus	s Tes	sted	Posit (n		Positive (%)	Para	ainfluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pai	rainfluenza 4	
Parainfluenza	9	84	15	5	1.5%		7	0			1		7	
Respiratory virus	Tes	ted	Posit	ive	Positive	C	oV 229E	CoV OC4	3	Co\	/ NL63	(	CoV HKU1	
Coronavirus (Co\	/) 45	58	19	)	4.1%		0	1			0		18	
Respiratory	virus				Tested			Positive (n)			Pos	itive	(%)	

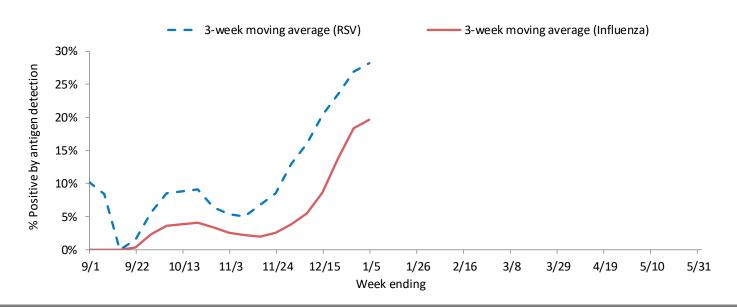
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	2723	538	19.8%
Human metapneumovirus	1022	67	6.6%
Rhino-enterovirus	954	59	6.2%
Adenovirus	458	8	1.7%

## WISCONSIN STATE SUMMARY

	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	restea	Positive (II)	% Positive	ILI %	Baseime	mresnoid
1518	136	236	372	24.5%	377	115	30.5%	3.4%	2.4%	3.6%

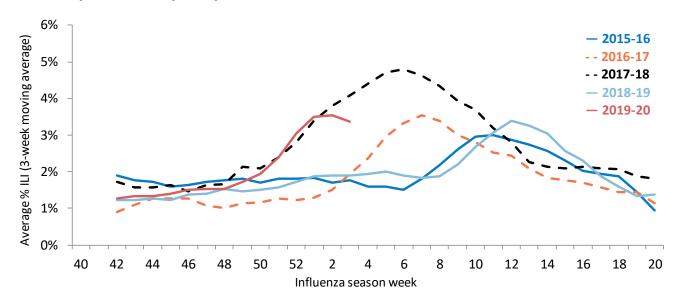
#### **ILI activity trend analysis**





#### WISCONSIN STATE SUMMARY

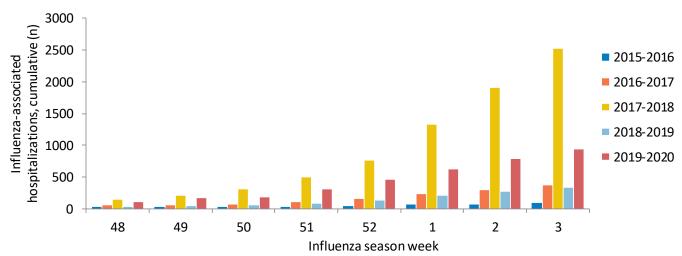
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2019 to present

Ago group	Total		lr	nfluenza 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	32	3	0	8	17	4	6	2		
1-4	56	1	0	10	34	11	10	4		
5-17	94	2	0	12	41	39	7	2		
18-49	226	11	1	83	93	38	40	12	22	4
50-64	206	15	4	106	64	17	39	12		
65+	329	25	12	165	107	20	33	6		
Total	943	57	17	384	356	129	135	38	22	4

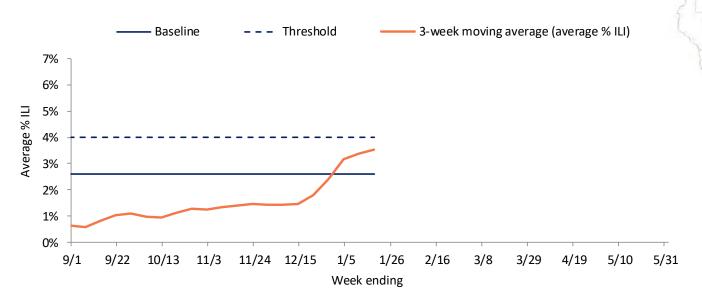
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

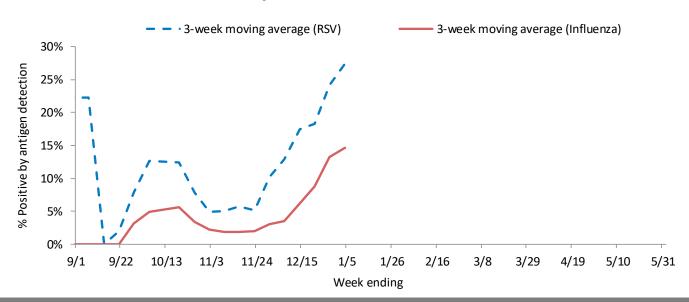


## NORTHEASTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		% Positive	Tested	Dositivo (n)	% Positive	11 1 0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% POSITIVE	ILI %	Baseime	mresnoid
725	74 118 192		26.5%	208	66	31.7%	3.7%	2.6%	4.0%	

#### ILI activity trend analysis

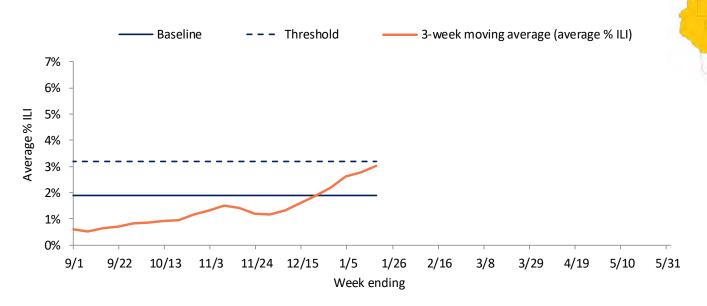


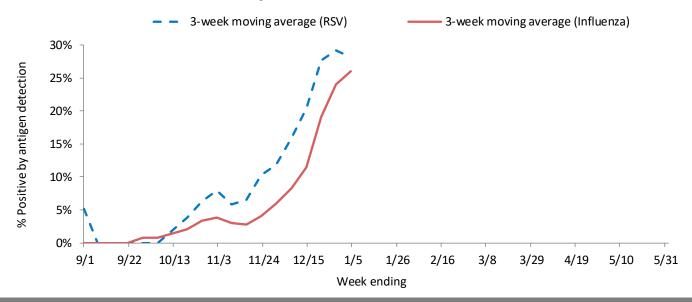


## **NORTHWESTERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Taskad		Positive (n)		0/ Docitive	Taskad	Dasitiva (n)	0/ Desitive	11.1.07	Danalina	Thusabald
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
505	43	83	126	25.0%	137	39	28.5%	3.4%	1.9%	3.2%

#### ILI activity trend analysis

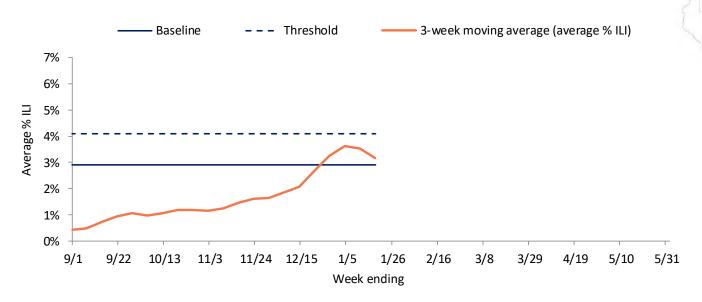


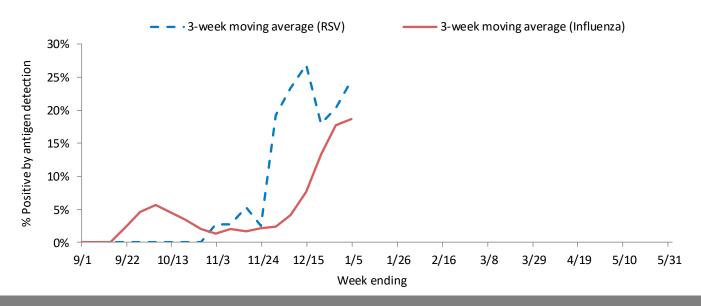


## SOUTHEASTERN REGION

	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
resteu	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% Positive	ILI %	Ваѕеппе	mresnoid
231	14	26	40	17.3%	10	3	30.0%	2.9%	2.9%	4.1%

#### ILI activity trend analysis

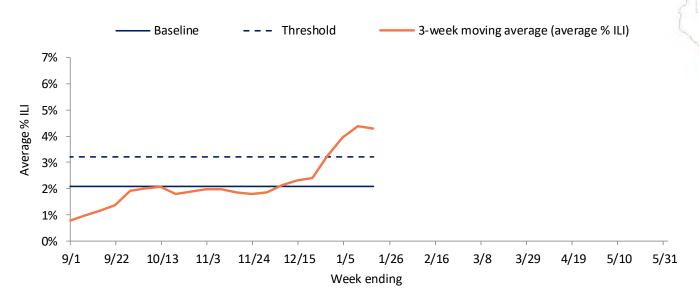


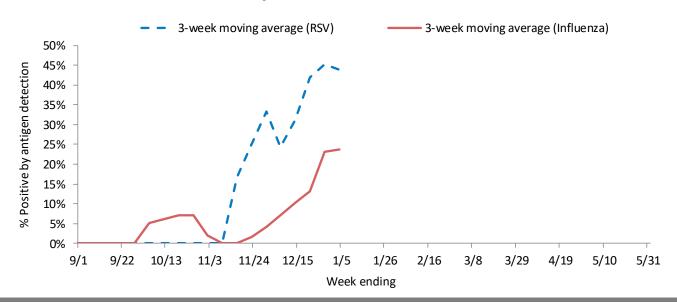


## **SOUTHERN REGION**

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)		
_		Positive (n)								
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
57	5	9	14	24.6%	22	7	31.8%	4.6%	2.1%	3.2%

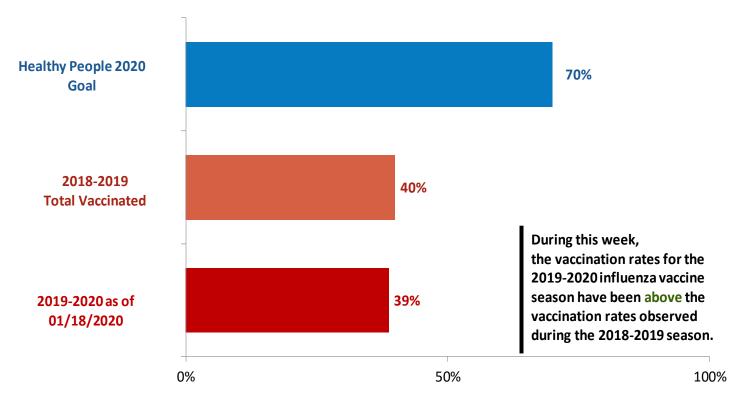
#### ILI activity trend analysis





### SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2019-2020 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 2019-2020:

The **trivalent** vaccines for use in the 2019-2020 influenza season contain the following:

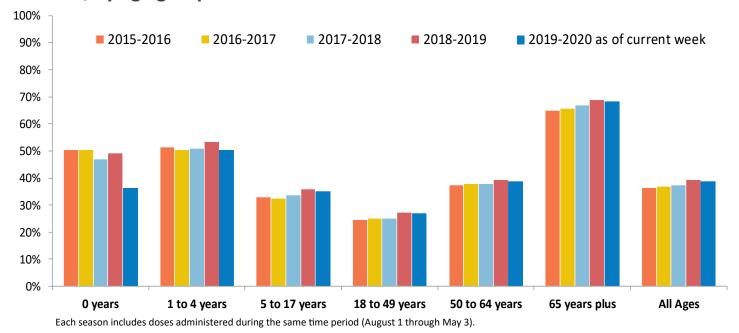
- A/Brisbane/02/2018 (H1N1)pdm09-like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

It is recommended that **quadrivalent** vaccines containing two influenza B viruses contain the above three viruses and:

B/Phuket/3073/2013-like virus (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, 2019-2020 influenza season

