

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 48: Ending November 30, 2019

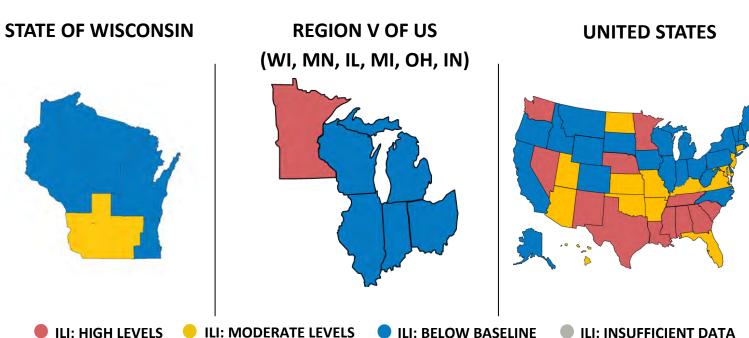
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

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







AT-A-GLANCE:

- Weekly Respiratory Report Description
- Predominant Viruses of the Week:
 Rhino/enteroviruses are currently the predominant viruses followe closely by influenza viruses.

CURRENT ALERTS:

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

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 48, 2019	October 1, 2019 to present
Wisconsin	0	0
Nationwide	1	6



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

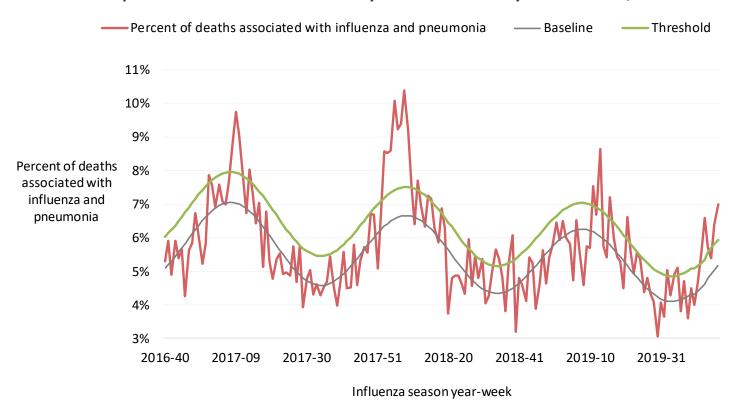




INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

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



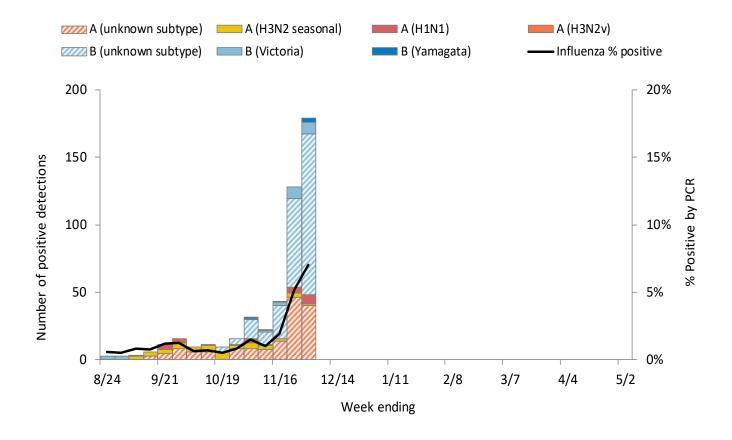
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
46	0	56	5.4%	4.9%	5.7%
47	0	64	6.4%	5.1%	5.8%
48 (Preliminary data)	0	53	7.0%	5.2%	5.9%
Seasonal total	6	661	4.9%	NA	NA

Data source: <u>DPH, Office of Health Informatics</u>

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

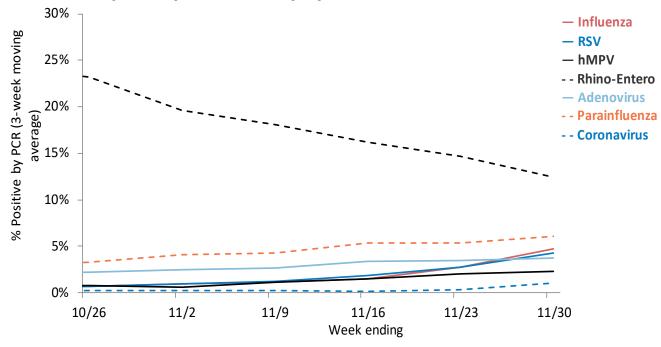


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	44% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	56% B (Unknown)	Total
Total positive (n)	23	41	146	22	6	243	481
% of total positive	5%	9%	30%	5%	1%	51%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 48: Ending on November 30, 2019

Adenovirus

B	Respiratory virus Tested		ive Po	ositive		lr	nfluenza A				Influenz	а В		
Respiratory virus	restea	(n)		(%)	H3N2	2 20	009 H1N1	Unknown	Vic	toria	Yamagat	ta	Unknown	
Influenza	2541	179	9 :	7.0%	1		7	40		9	3		119	
Respiratory virus	s Tes	ted	Positiv (n)		ositive (%)	Parain	fluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pa	rainfluenza 4	
Parainfluenza	5	82	36	6	5.2%		21	0			2		3	
Respiratory virus	Tes	ted	Positivo (n)		sitive (%)	CoV	229E	CoV OC4	3	Co\	/ NL63		CoV HKU1	
Coronavirus (CoV	/) 26	73	6	2	.3%		0	0			0		6	
Respiratory	virus			Te	ested			Positive (n)		Ро		itive	(%)	
RSV			1	1027			57				5.6%			
Human metapneumovirus		į	597			17			2.8%					
Rhino-enter	ovirus			į	570			58			1	10.29	.0.2%	

10

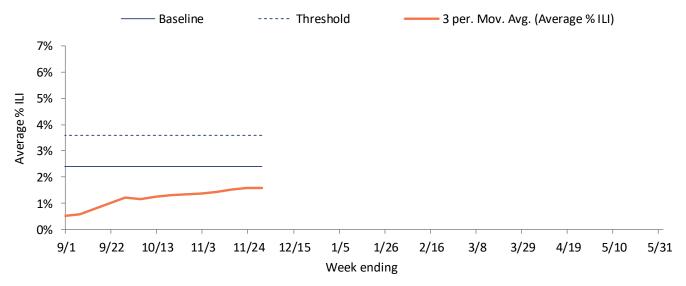
3.8%

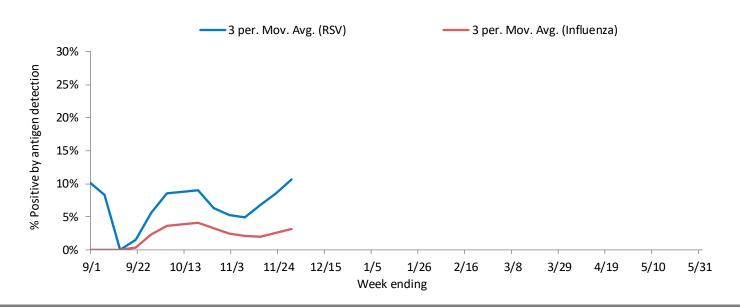
263

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tastad		Positive (n)		0/ Davitive	Tested	Dasitiva (n)	0/ Davitive	11.1.07	Danalina	Thusahald	
Tested	Influenza A	Influenza B	Total	% Positive	ve resteu	Positive (n)	% Positive	ILI %	Baseline	Threshold	
414	6	7	13	3.1%	105	12	11.4%	1.7%	2.4%	3.6%	

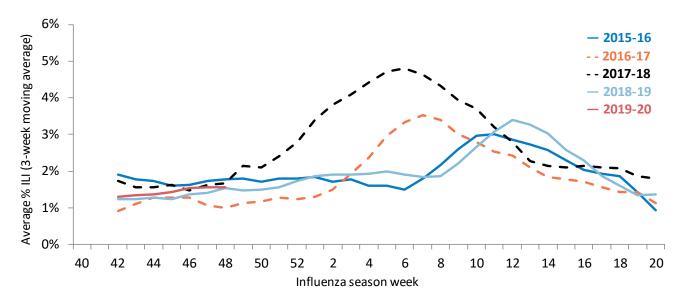
ILI activity trend analysis





WISCONSIN STATE SUMMARY

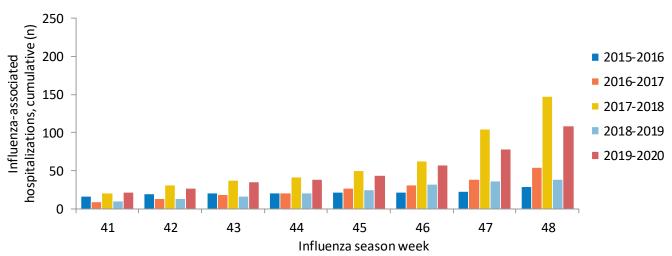
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	nfluenza subty	/pe		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	1	0	0	0	1	0	0	0	0	0
1-4	3	0	0	2	1	0	0	0	0	0
5-17	9	1	0	0	7	1	1	0	0	0
18-49	25	1	1	6	16	1	6	0	3	2
50-64	23	1	4	9	8	1	4	1	0	0
65+	48	1	8	21	15	3	4	0	0	0
Total	109	4	13	38	48	6	15	1	3	2

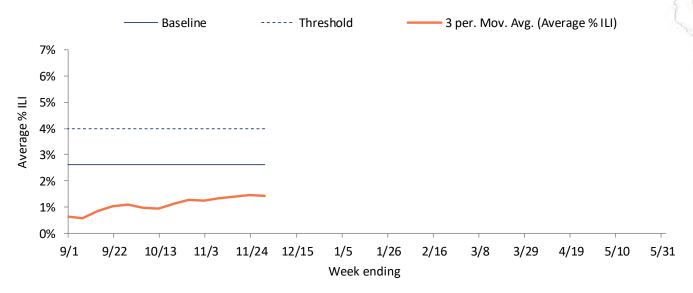
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

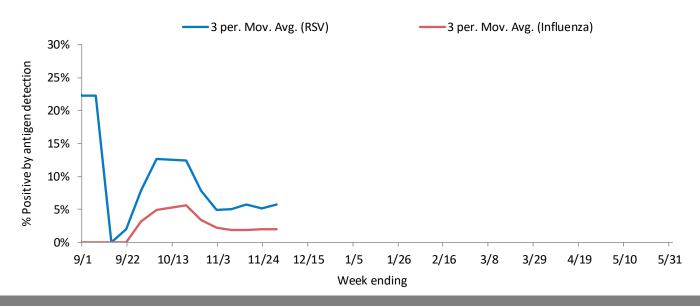


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Desitive	11.1.07	Dasalina	Throshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
170	1	1	2	1.2%	64	5	7.8%	1.5%	2.6%	4.0%	

ILI activity trend analysis



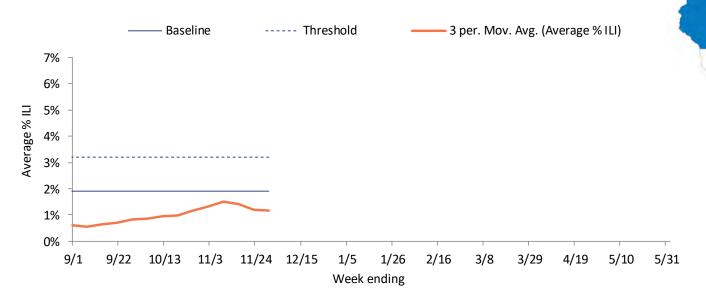


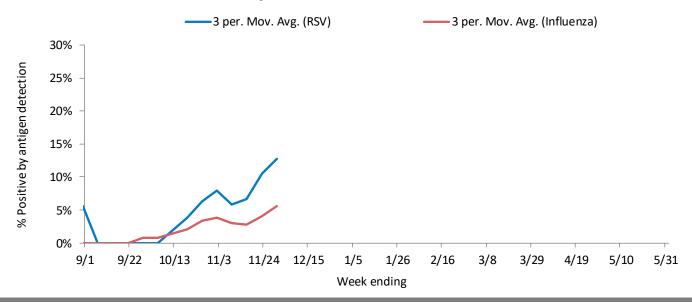
NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Docitive (n)	0/ Desitive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI 70	Daseille	mresnoid	
132	5	3	8	6.1%	33	4	12.1%	1.5%	1.9%	3.2%	

Respiratory Virus Surveillance Report

ILI activity trend analysis



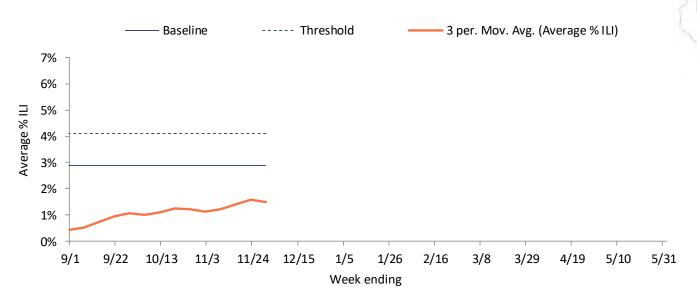


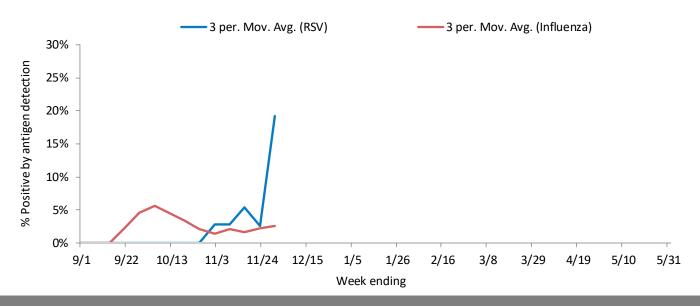
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Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitive	Tostad	Docitive (n)	0/ Desitive	11.1.07	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	meshold	
96	0	3	3	3.1%	4	2	50.0%	1.4%	2.9%	4.1%	

ILI activity trend analysis



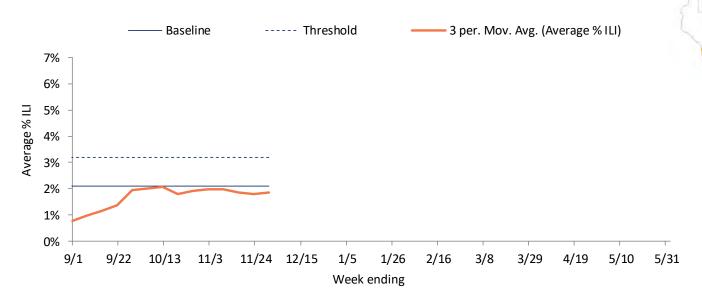


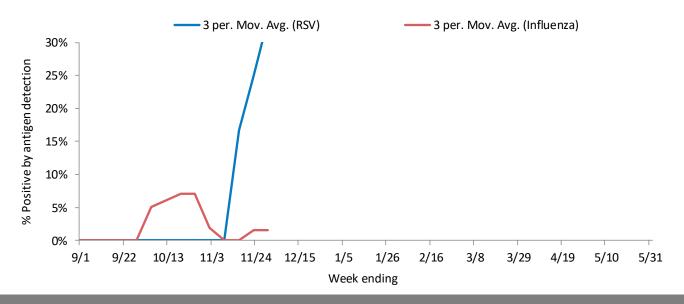
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SOUTHERN REGION

Influenza rapid antigen tests				RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tested	Dositivo (n)	% Docitivo	11 1 0/	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% POSITIVE	restea	Positive (n)	% Positive	ILI %	Ваѕенне	THESHOIL
16	0	0	0	0.0%	4	1	25.0%	2.3%	2.1%	3.2%

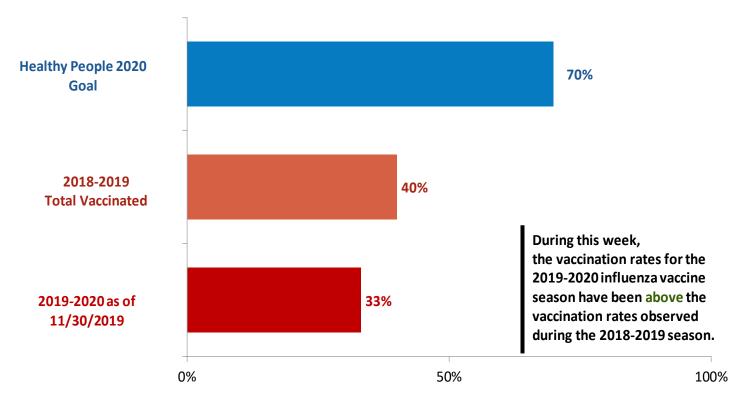
ILI activity trend analysis





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:

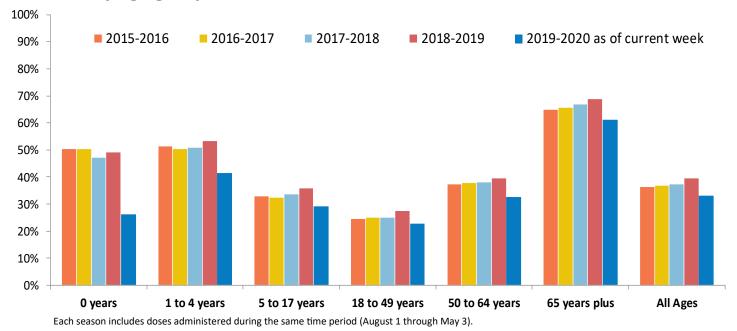
- A/Brisbane/02/2018 (H1N1)pdm09-like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

It is recommended that <u>quadrivalent</u> 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

