

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 49: Ending December 7, 2019

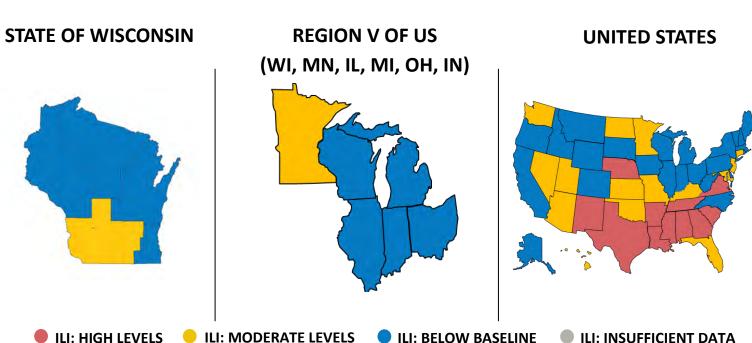
Wisconsin Department of Health Services | Division of Public Health

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 followed closely by influenza and RSV

CURRENT ALERTS:

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

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 49, 2019	October 1, 2019 to present
Wisconsin	0	0
Nationwide	4	10



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

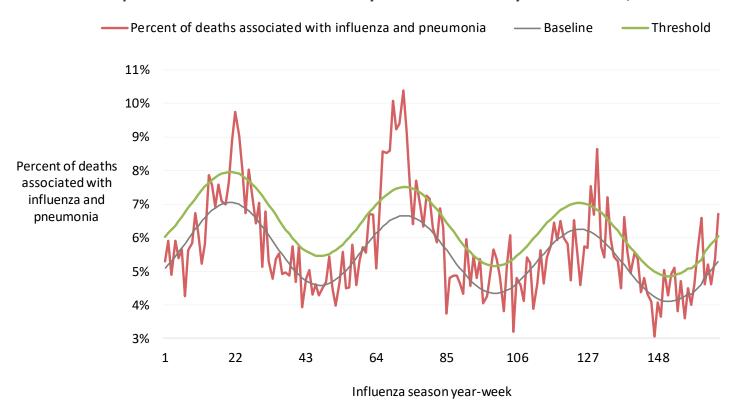




INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

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



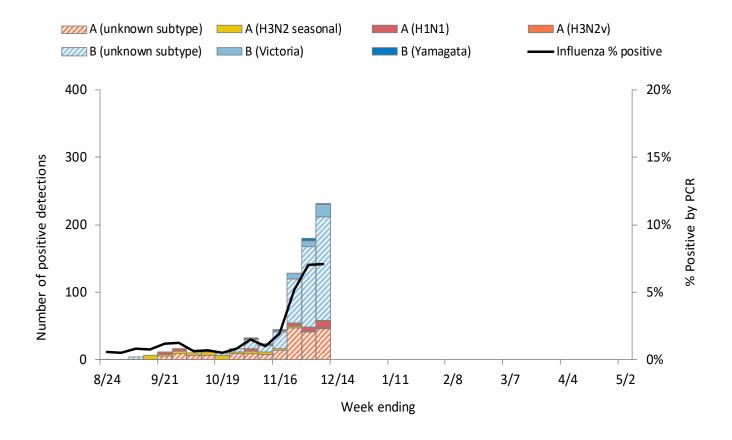
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
47	0	49	4.6%	5.1%	5.8%
48	0	54	5.4%	5.2%	5.9%
49 (Preliminary data)	1	66	6.7%	5.3%	6.0%
Seasonal total	7	763	4.8%	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

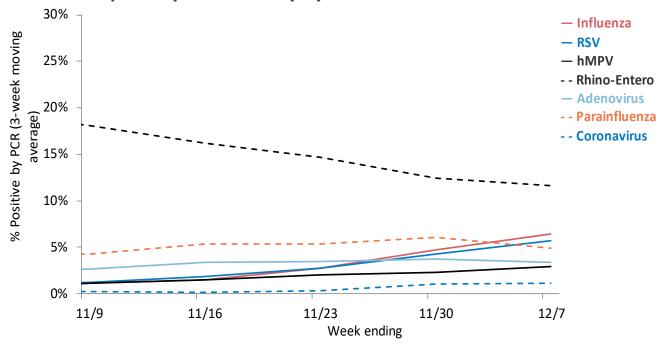


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	38% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	63% B (Unknown)	Total
Total positive (n)	34	42	191	40	8	397	712
% of total positive	5%	6%	27%	6%	1%	56%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 49: Ending on December 7, 2019

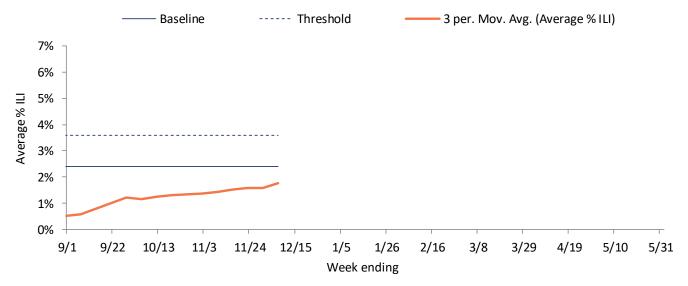
Respiratory virus	Tested	Posi	itive	Posit	ive		Influenz	a A				Influenz	а В	
Respiratory virus	resteu	(r	n)	(%) +	I3N2	2009 H1N	J1	Unknown	Vio	ctoria Yamaga		ta	Unknown
Influenza	3232	23	31	7.1	%	1	11		45		18	2		154
Respiratory virus	Tes	sted	Posi (r		Positiv (%)	e Pa	rainfluenza	1	Parainfluen	za 2	Parair	nfluenza 3	Pai	rainfluenza 4
Parainfluenza	7.	42	2	5	3.4%		15		0			1		9
Respiratory virus	Tes	ted	Posit		Positivo		CoV 229E		CoV OC43	3	Co\	/ NL63	(CoV HKU1
Coronavirus (CoV	/) 30)2	1		0.3%		0		0			0		1
Respiratory virus				Tested				Positive (n)			Pos	itive	(%)	

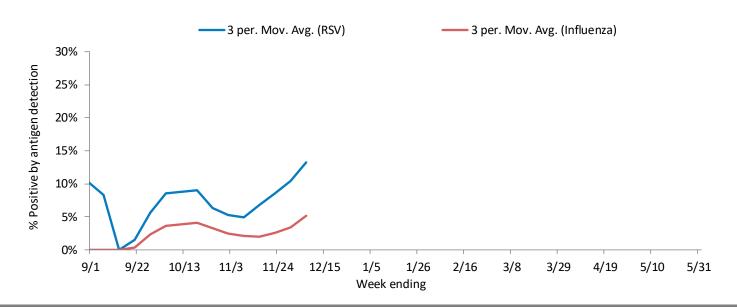
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1119	81	7.2%
Human metapneumovirus	771	28	3.6%
Rhino-enterovirus	668	78	11.7%
Adenovirus	302	8	2.6%

WISCONSIN STATE SUMMARY

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoia	
571	14	33	47	8.2%	139	25	18.0%	2.0%	2.4%	3.6%	

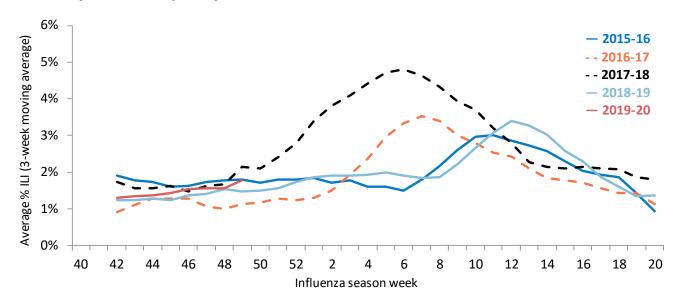
ILI activity trend analysis





WISCONSIN STATE SUMMARY

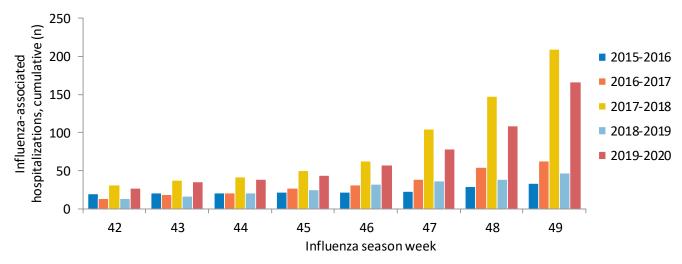
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subt	ype		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	2	0	0	0	2	0	0	0	0	0
1-4	10	0	0	4	6	0	5	1	0	0
5-17	23	2	0	2	11	8	1	0	0	0
18-49	38	1	1	8	23	5	9	1	4	2
50-64	28	3	4	10	10	1	5	1	0	0
65+	66	2	8	29	23	4	6	0	0	0
Total	167	8	13	53	75	18	26	3	4	2

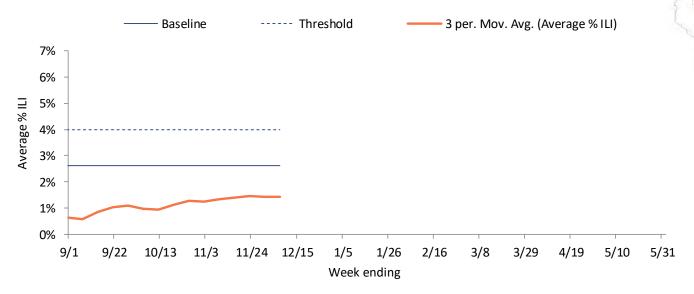
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

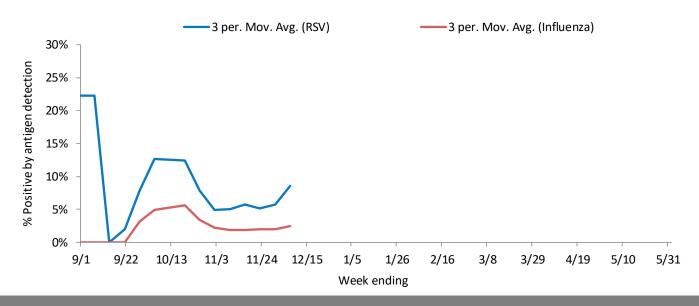


NORTHEASTERN REGION

	Tested Influenza A Influenza B Total % Positive				RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostad		Positive (n)		% Docitivo	Tested	Dositivo (n)	% Positive	11.1.0/	Baseline	Threshold
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (n)	% POSITIVE	ILI %	Baseime	mresnoia
179	4	3	7	3.9%	58	8	13.8%	1.4%	2.6%	4.0%

ILI activity trend analysis

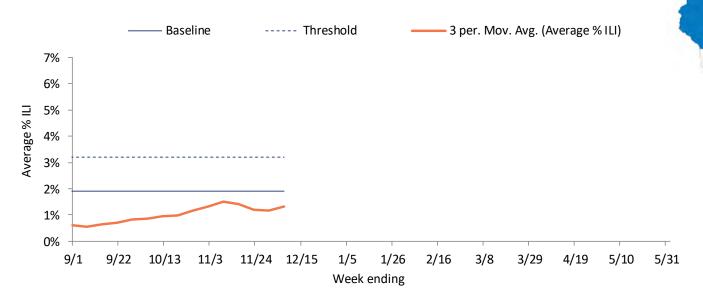


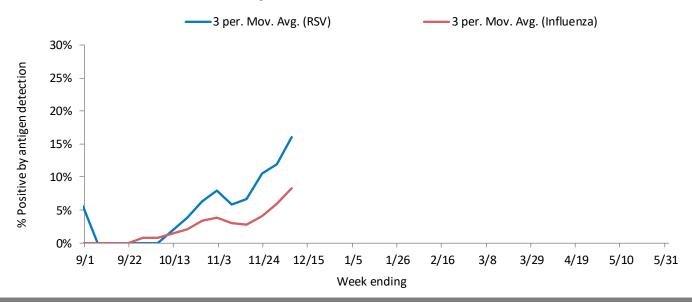


NORTHWESTERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influe	nza-like illne	ess (ILI)
Tostod		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitive	11.1.0/	Dasalina	Throshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
221	6	21	27	12.2%	65	14	21.5%	1.6%	1.9%	3.2%

ILI activity trend analysis



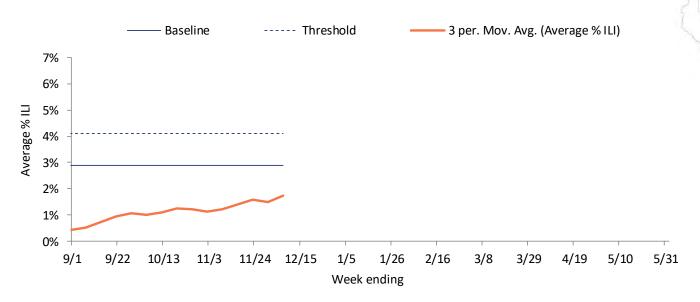


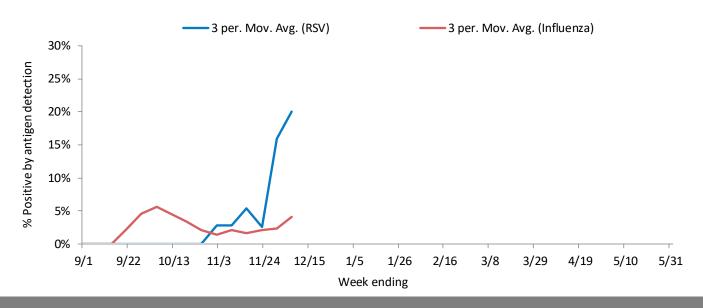
Week 49: Ending December 7, 2019

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	
restea	Influenza A	Influenza B	Total	% Positive	resteu	Positive (II)	% POSITIVE	ILI %	Ваѕеппе	mresnoid	
143	3	7	10	7.0%	5	1	20.0%	2.1%	2.9%	4.1%	

ILI activity trend analysis



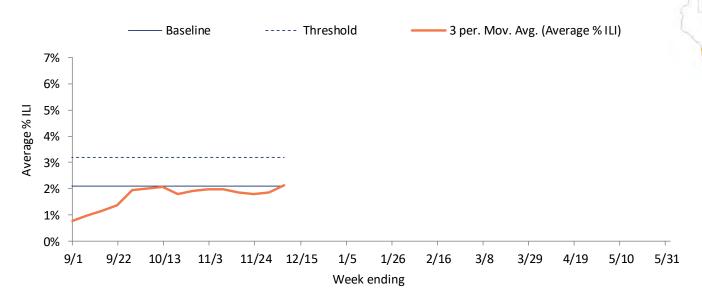


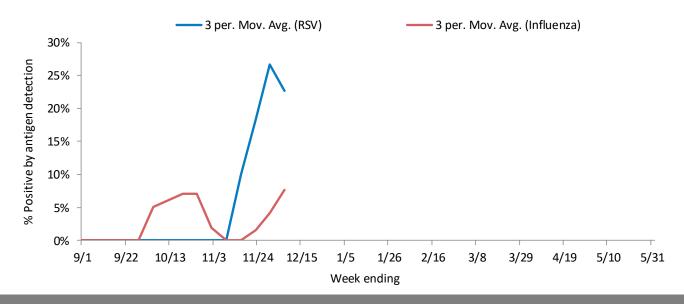
SOUTHERN REGION

	Tested Influenza A Influenza B Total % Positive (n)				RSV r	RSV rapid antigen tests Tested Positive (n) % Positive			Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitive	11.1.0/	Dasalina	Throshold		
rested	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% Positive	ILI %	Baseline	Threshold		
28	1	2	3	10.7%	11	2	18.2%	2.3%	2.1%	3.2%		

Respiratory Virus Surveillance Report

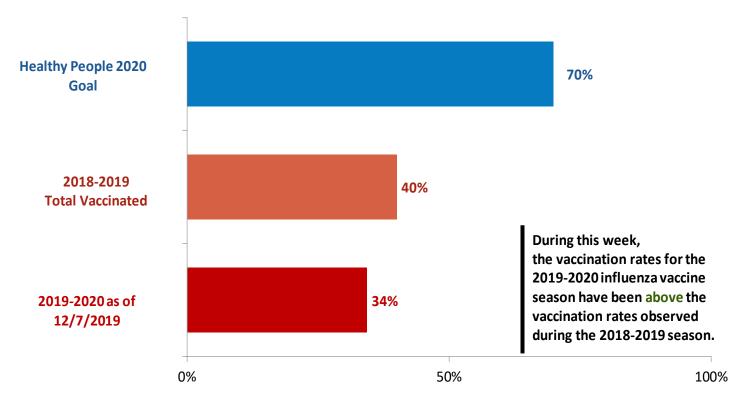
ILI activity trend analysis





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:

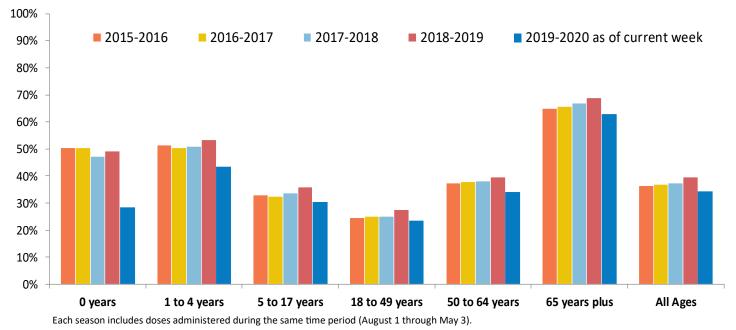
- A/Brisbane/02/2018 (H1N1)pdm09–like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

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

