

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 1: Ending January 4, 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



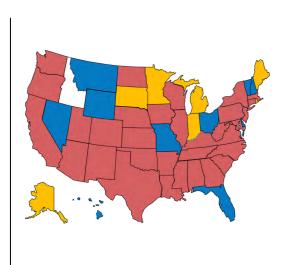




REGION V OF US (WI, MN, IL, MI, OH, IN)



UNITED STATES



ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

ILI: INSUFFICIENT DATA

AT-A-GLANCE:

- Weekly Respiratory Report Description
- Predominant 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.

A total of 15 flu related deaths have been reported in Wisconsin this season.

The first flu pediatric flu related death in Wisconsin was reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 1, 2020	October 1, 2019 to present
Wisconsin	1	1
Nationwide	5	32



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

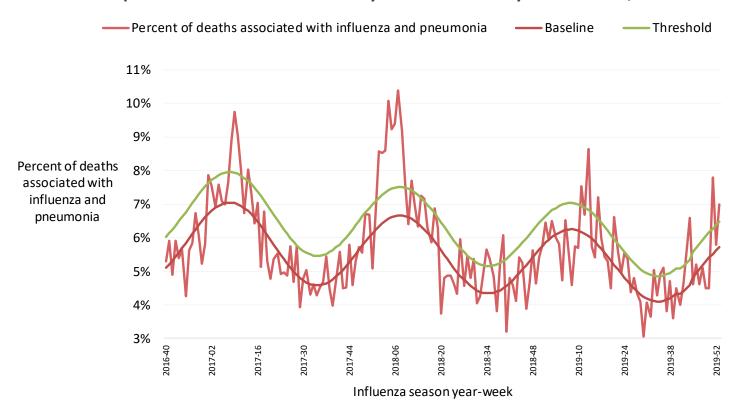




INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

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



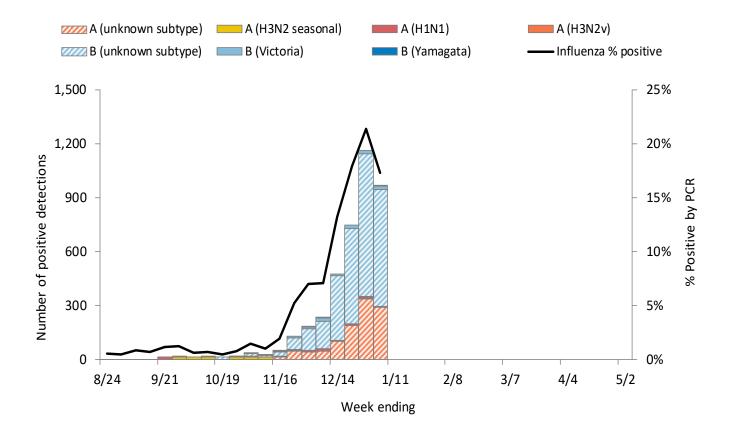
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
51	1	80	7.8%	5.5%	6.3%
52	2	58	5.8%	5.6%	6.4%
1 Preliminary Data	1	60	7.1%	5.7%	6.5%
Seasonal total	15	1011	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)	30% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	70% B (Unknown)	Total
Total positive (n)	62	49	1101	105	9	2728	4054
% of total positive	2%	1%	27%	3%	0%	67%	100%

20.7%

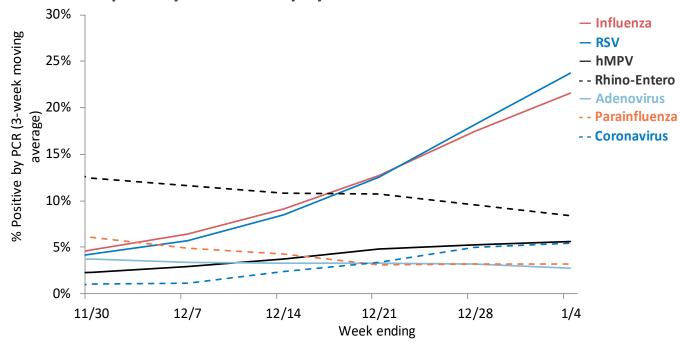
8.6%

4.9%

1.5%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 1: Ending on January 4, 2020

RSV

Human metapneumovirus

Rhino-enterovirus

Adenovirus

		Posit	ive Pos	tive		Influenza A				Influenza B			
Respiratory virus	Testea	(n)) (9	6)	H3N2		2009 H1N1	Unknown Vi		toria	Yamagata		Unknown
Influenza	5548	96	2 17.	3%	2		4	288		17	1		650
Respiratory virus	Tes	ted	Positive (n)		sitive (%)	Para	ninfluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pa	rainfluenza 4
Parainfluenza	9:	24	10	1	.1%		3	0			1	6	
Respiratory virus	Tes	ted	Positive (n)		sitive %)	Co	oV 229E	CoV OC43		Co\	/ NL63	(CoV HKU1
Coronavirus (CoV	') 4 6	51	25	5.	4%		1	0			0		24
Respiratory virus				Te	sted			Positive (n)			Pos	itive	(%)

442

82

44

25

2132

948

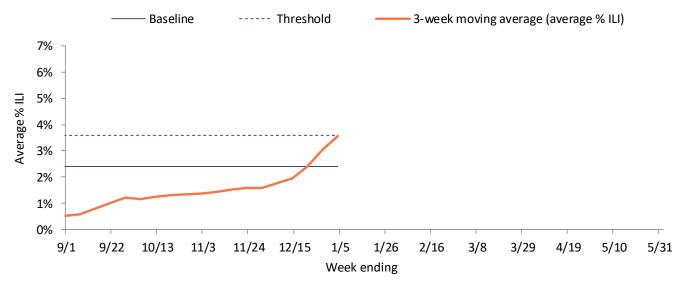
898

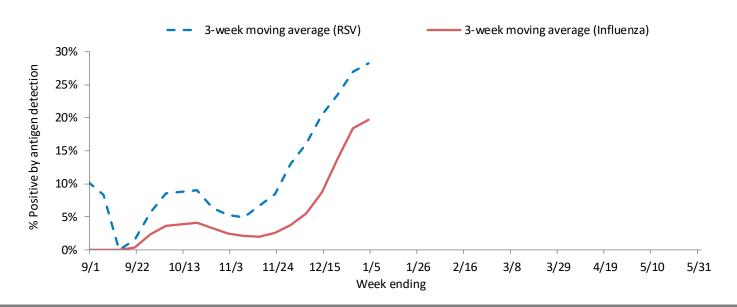
461

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad	Positive (n)		0/ Docitivo	Tostod	Docitive (n)			Danalina	Threshold		
rested	Tested Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoia	
1303	97	121	218	16.7%	332	92	27.7%	3.7%	2.4%	3.6%	

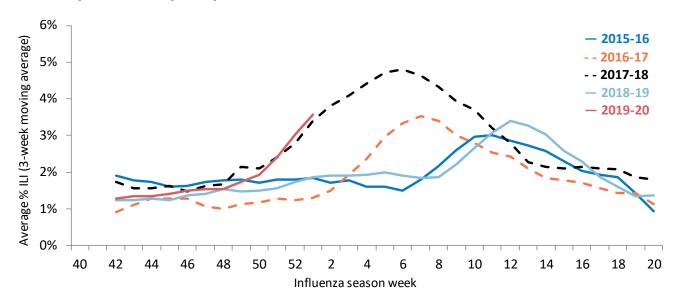
ILI activity trend analysis





WISCONSIN STATE SUMMARY

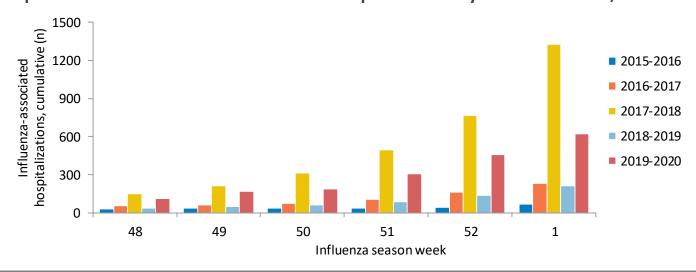
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	nfluenza subty	nza subtype		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	B Not reported	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	21	1	0	3	12	5	4	2	0	0
1-4	44	0	0	9	26	9	8	2	0	0
5-17	48	2	0	7	29	10	6	1	0	0
18-49	143	4	1	45	67	26	24	6	12	2
50-64	139	10	4	69	47	9	27	7	0	0
65+	227	11	12	110	81	13	28	6	0	0
Total	622	28	17	243	262	72	97	24	12	2

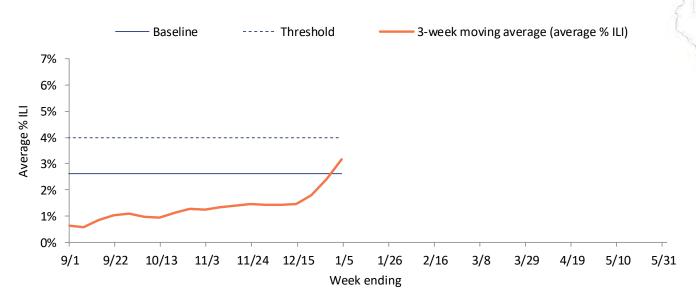
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

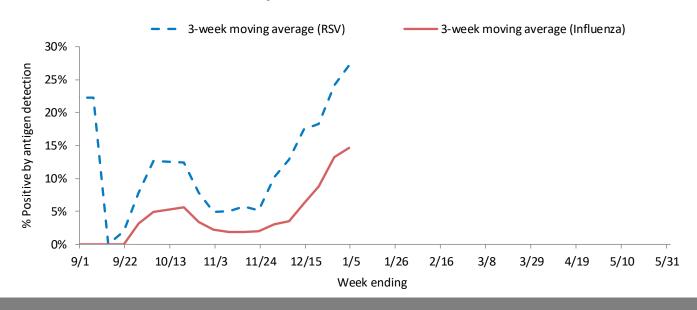


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	0/ Desitive	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Daseille	mesholu	
588	37	49	86	14.6%	159	43	27.0%	3.8%	2.6%	4.0%	

ILI activity trend analysis

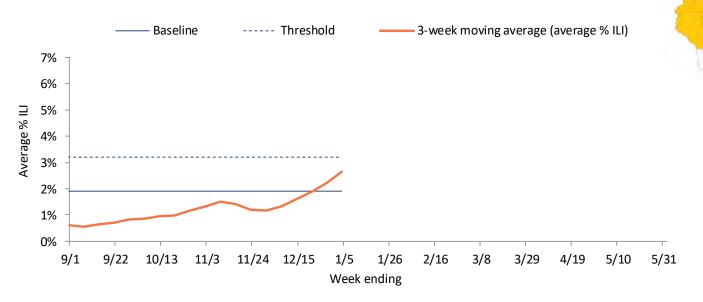


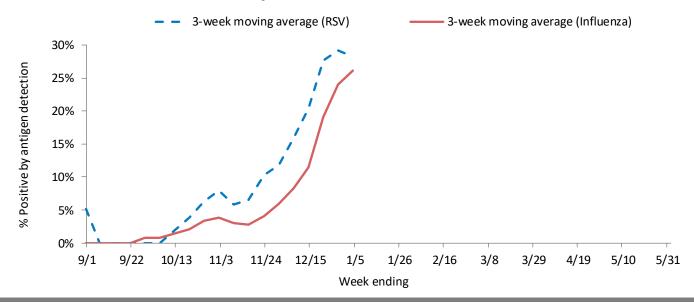


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mresnoia	
466	47	51	98	21.0%	141	38	27.0%	3.0%	1.9%	3.2%	

ILI activity trend analysis

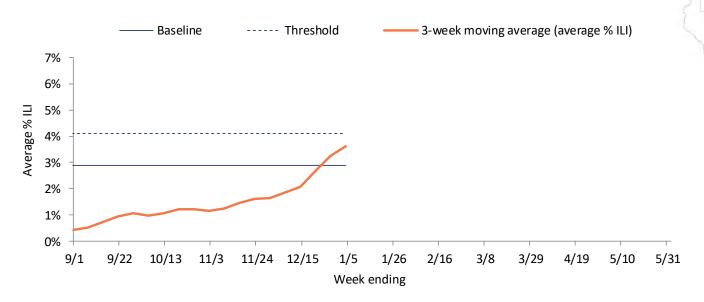


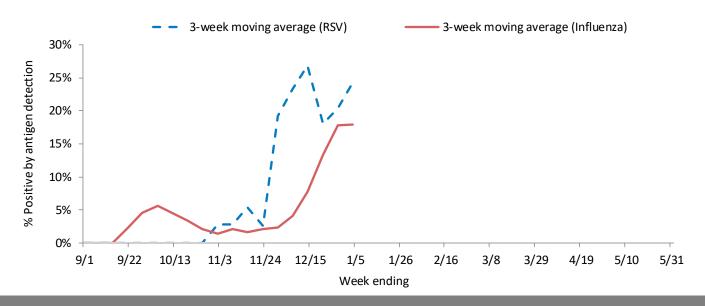




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tested	Dositivo (n)	% Positive	11 1 0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)	% POSITIVE	ILI %	Ваѕенне	THESHOLU	
213	11	18	29	13.6%	18	4	22.2%	3.4%	2.9%	4.1%	

ILI activity trend analysis

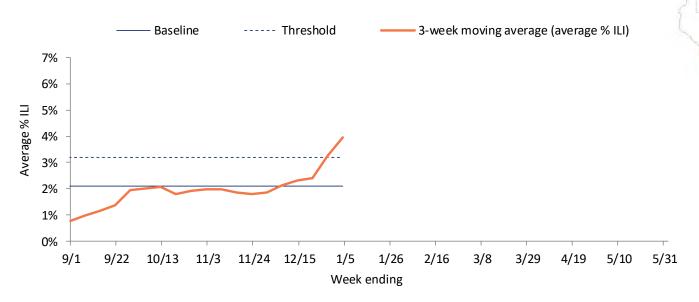


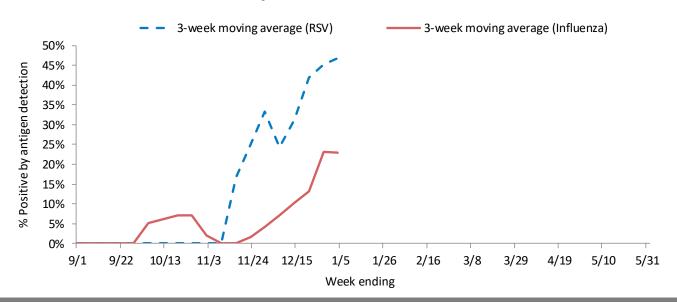


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
		Positive (n)									
Tested	Influenza A	Influenza B	a B Total	% Positive	e Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
36	2	3	5	13.9%	14	7	50.0%	4.4%	2.1%	3.2%	

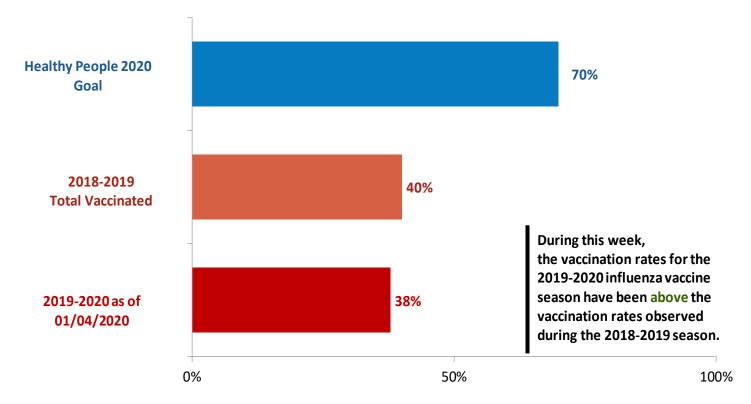
ILI activity trend analysis







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:

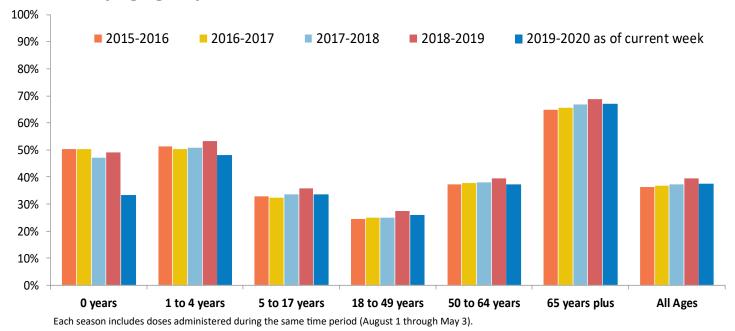
- A/Brisbane/02/2018 (H1N1)pdm09-like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

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

