

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 45: Ending November 9, 2019

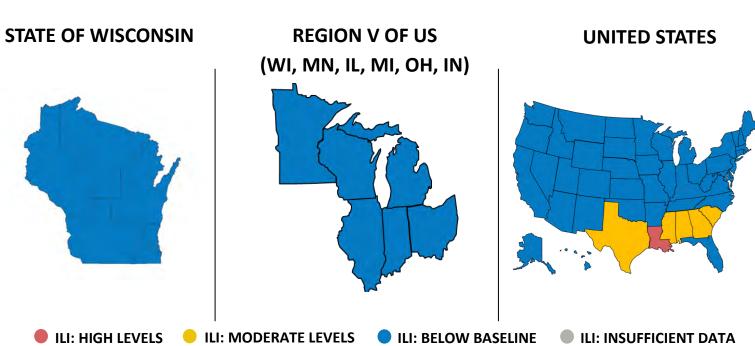
Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

<u>dhs.wi.gov/dph/bcd.htm</u> | <u>dhsdphbcd@dhs.wi.gov</u>







AT-A-GLANCE:

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

CURRENT ALERTS:

Influenza B was the predominant influenza virus this week, however, A/H3 remains the predominant influenza virus for the season in Wisconsin.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 45, 2019	October 1, 2019 to present
Wisconsin	0	0
Nationwide	1	3



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

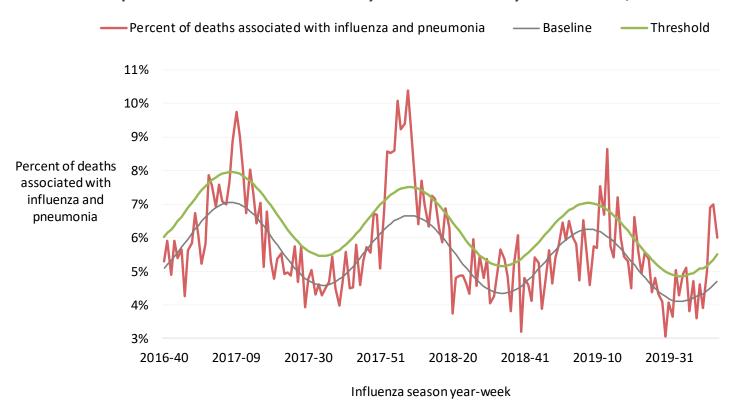




INFLUENZA AND PNEUMONIA-ASSOCIATED MORTAL

Influenza and Pneumonia Deaths, Wisconsin

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



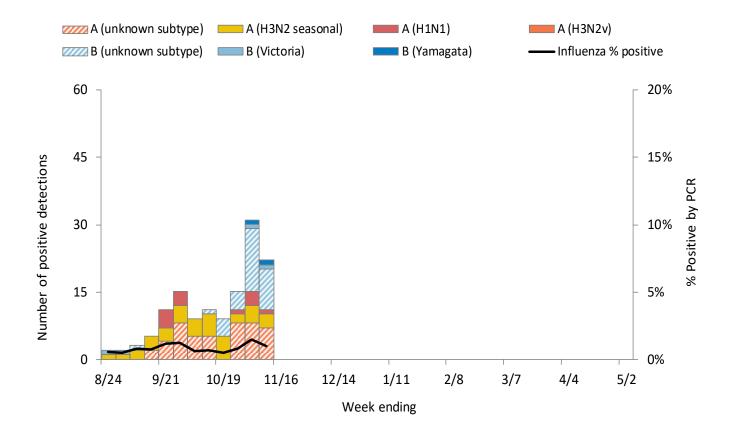
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
43	1	65	5.9%	4.5%	5.3%
44	0	72	7.0%	4.6%	5.4%
45 (Preliminary data)	0	55	6.0	4.7%	5.5%
Seasonal total	6	579	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

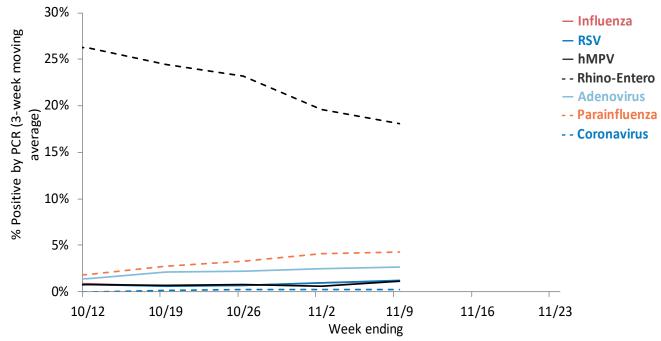


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	72% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	28% B (Unknown)	Total
Total positive (n)	12	35	47	2	2	33	131
% of total positive	9%	27%	36%	2%	2%	25%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



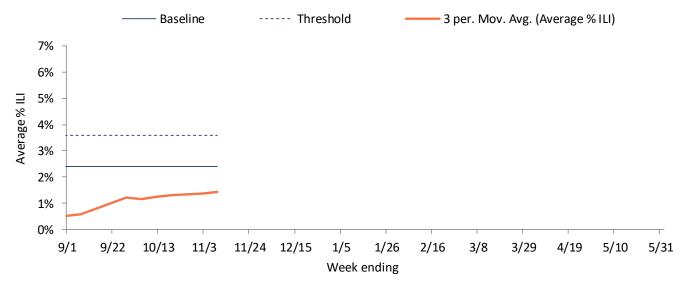
Week 45: Ending on November 9, 2019

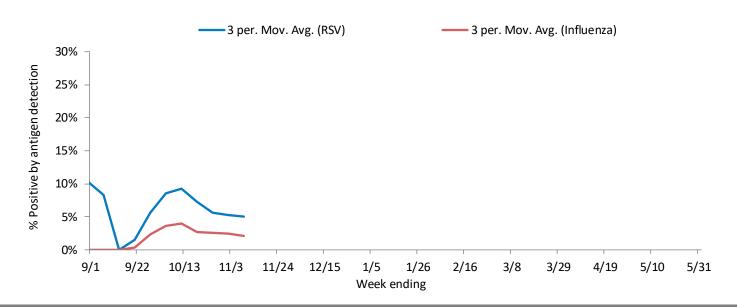
	T1-1	Positive	Posit	ive		Influenza A				Influenz	а В	
Respiratory virus	Testea	(n)	(%) нз	N2	2009 H1N1	Unknown	Vic	toria	Yamaga	ta	Unknown
Influenza	2149	22	1.0	% 3	}	1	7		1	1		9
Respiratory viru	s Tes	sted	ositive (n)	Positive (%)	Par	ainfluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pa	rainfluenza 4
Parainfluenza	6	90	29	4.2%		13	0			0		16
Respiratory virus	Tes	ted	sitive (n)	Positive (%)	C	CoV 229E	CoV OC4	3	Co\	V NL63		CoV HKU1
Coronavirus (Co	V) 30)3	1	0.3%		0	0			0		1
Respiratory	y virus			Tested		Positive (n)				Pos	Positive (%)	
RSV			1068				12			1.1		6
Human metapn	eumovi	rus		704	704		14			2.0%		6
Rhino-ente	rovirus			675	675		114			16.9		%
Adenovi	irus			303			9			3.0%		

WISCONSIN STATE SUMMARY

Influenza rapid antigen 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)	∕₀ FUSILIVE	ILI /0	Daseille	Tinesholu	
385	4	0	4	1.0%	91	5	5.5%	1.7%	2.4%	3.6%	

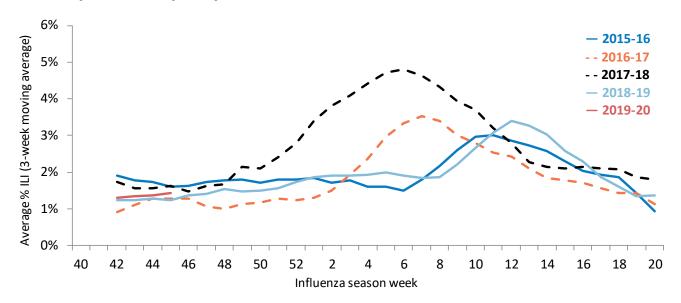
ILI activity trend analysis





WISCONSIN STATE SUMMARY

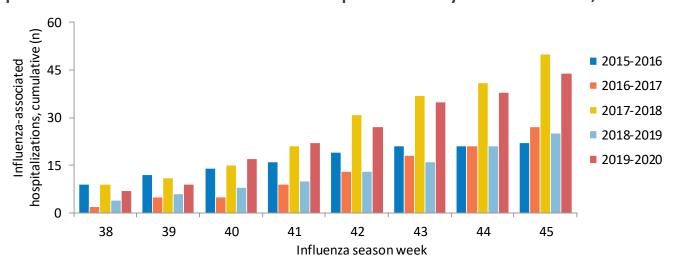
ILI activity trend analysis by influenza season, Wisconsin



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	0	0	0	0	0	0	0	0	0	0
1-4	1	0	0	1	0	0	0	0	0	0
5-17	1	0	0	0	1	0	0	0	0	0
18-49	7	1	0	2	4	0	3	0	1	0
50-64	10	0	3	3	3	1	2	0	0	0
65+	25	0	7	9	9	0	2	0	0	0
Total	44	1	10	15	17	1	7	0	1	0

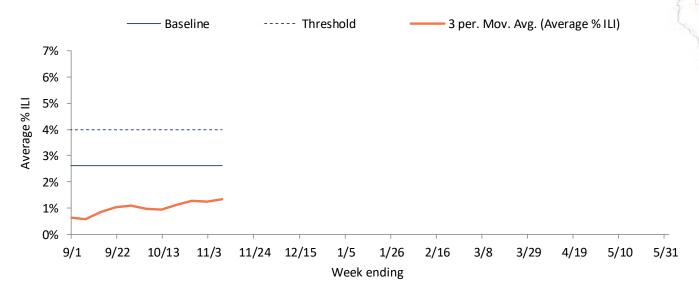
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

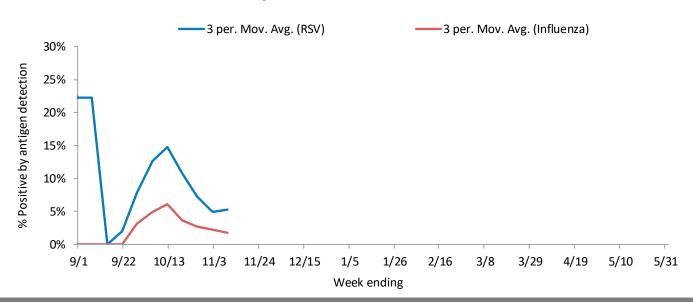


NORTHEASTERN REGION

Influenza rapid antigen 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)	∕₀ FUSILIVE	ILI 70	Daseille	Tillesiloid	
158	1	0	1	0.6%	45	3	6.7%	1.6%	2.6%	4.0%	

ILI activity trend analysis



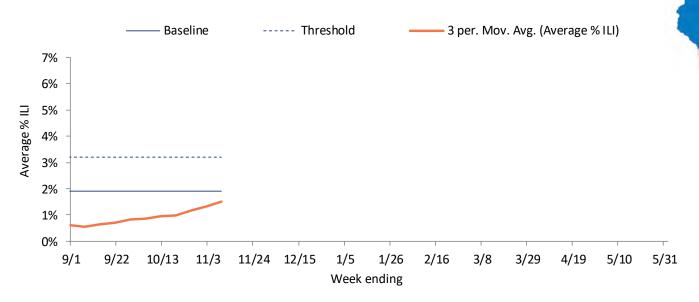


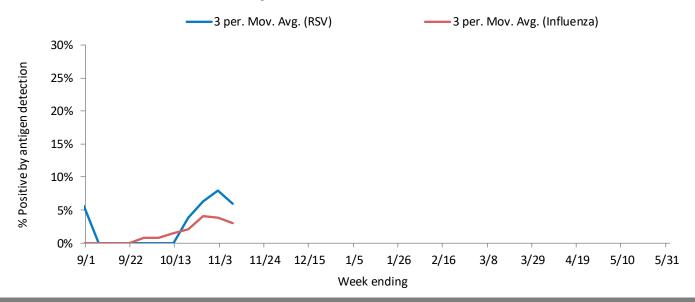
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NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostod		Positive (n)		0/ Desitive	Tostod	Dositivo (n)	0/ Docitivo	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mresnoid	
142	2	0	2	1.4%	36	2	1.0%	1.6%	1.9%	3.2%	

ILI activity trend analysis



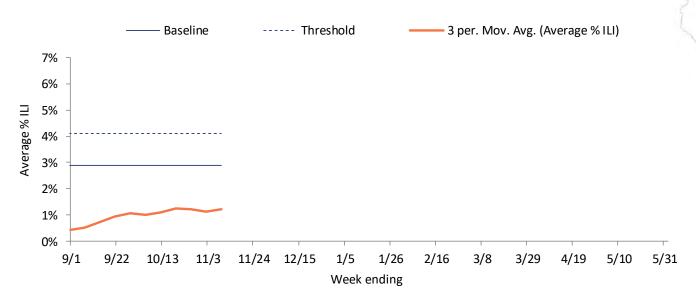


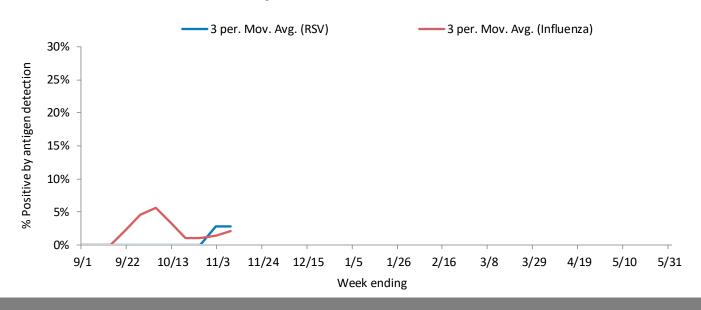
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Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
restea	Influenza A	Influenza B	Total	% Positive	restea	Positive (II)	% POSITIVE	ILI 70	Daseille	mesholu	
36	0	0	0	0.0%	4	0	0.0%	2.1%	2.1%	3.2%	

ILI activity trend analysis

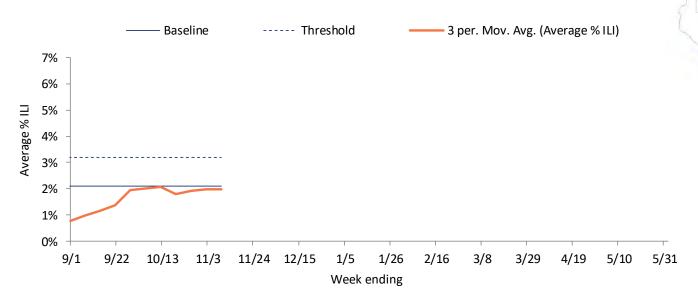


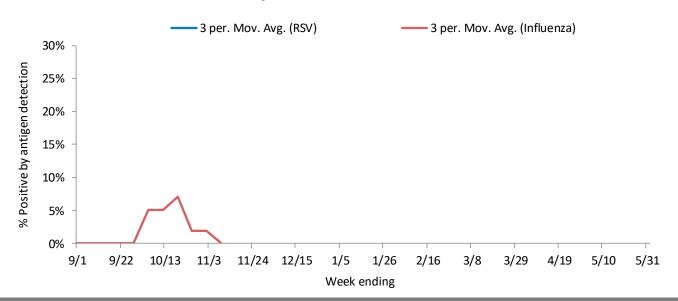


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
rested	Influenza A	Influenza B	Total	% Positive	restea	Positive (II)	% POSITIVE	ILI /0	baseiiile	THESHOU
19	0	0	0	0.0%	2	0	0.0%	2.0%	2.1%	3.2%

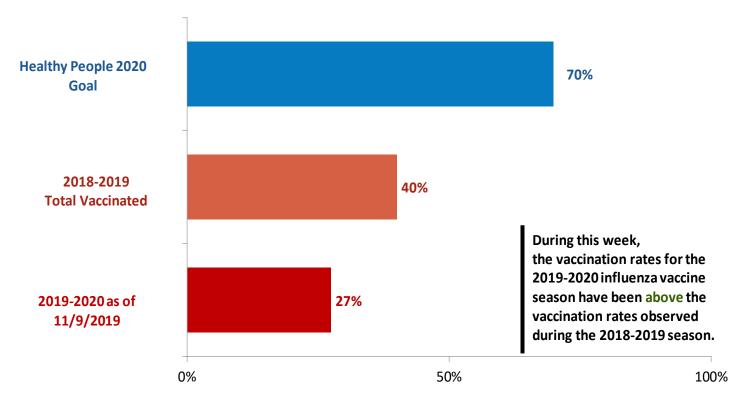
ILI activity trend analysis







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:

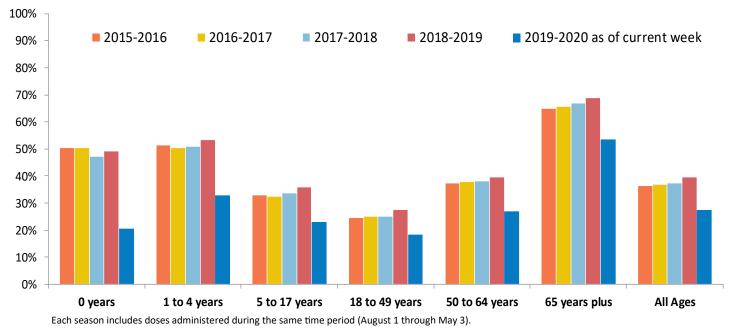
- A/Brisbane/02/2018 (H1N1)pdm09–like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

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

