

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 19: Ending May 11, 2019

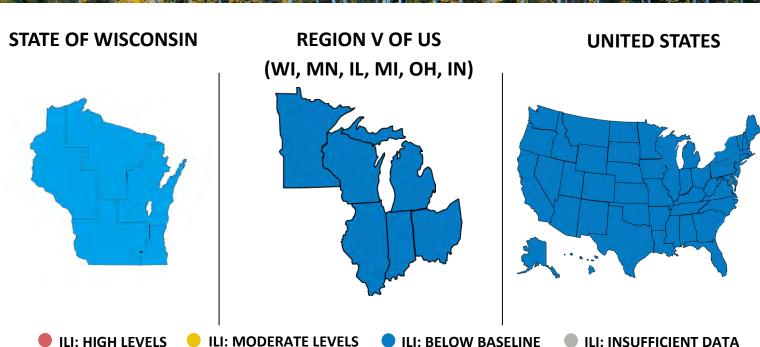
Wisconsin Department of Health Services | Division of Public Health

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 Virus(es) of the Week:

 Rhino/enterovirus, humans metapneumovirus and parainfluenza-3 are the predominant viruses.

CURRENT ALERTS:

 29 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 19, 2019	October 1, 2018 to present
Wisconsin	0	4
Nationwide	3	109

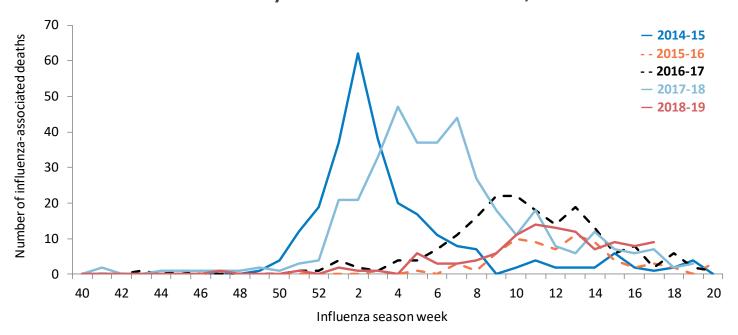


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin

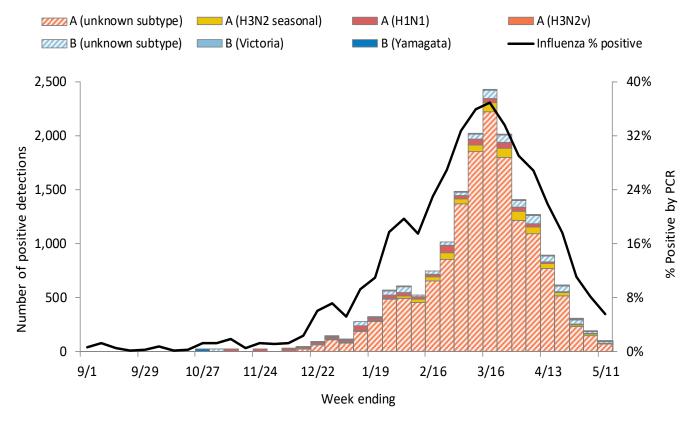


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to May 11, 2019

		Week 19, 201	Cumulative, 2018-2019 season				
Age group (years)	Influenza (I)	Pneumonia (P)	Percent I+P of all deaths	Influenza (I)	Pneumonia (P)	Percent I+P of all deaths	
0-4	0	0	0.0%	4	5	2.0%	
5-17	0	0	0.0%	0	3	2.8%	
18-49	0	3	5.1%	15	81	3.8%	
50-64	1	8	6.4%	22	254	4.7%	
65+	4	54	8.5%	83	1743	5.9%	
All ages	6	65	7.8%	124	2086	5.6%	

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

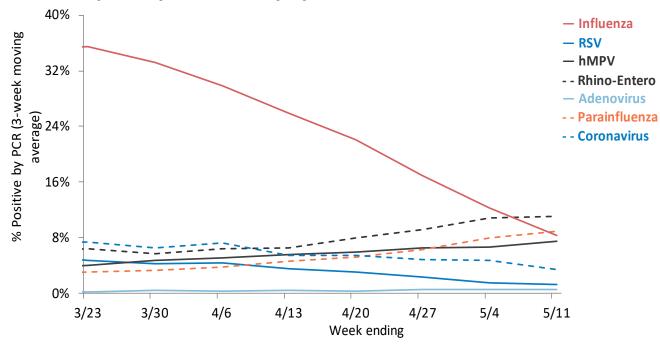


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	95% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	5% B (Unknown)	Total
Total positive (n)	652	734	14944	18	29	765	17142
% of total positive	4%	4%	87%	0%	0%	4%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



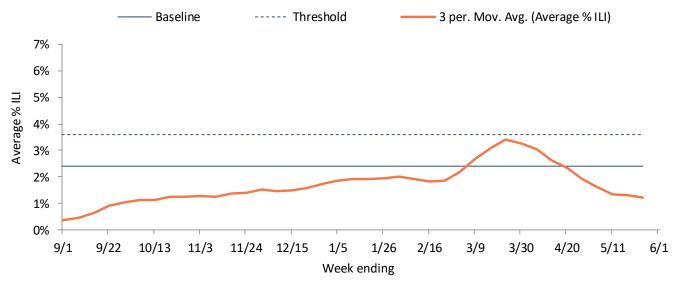
Week 19: Ending on May 11, 2019

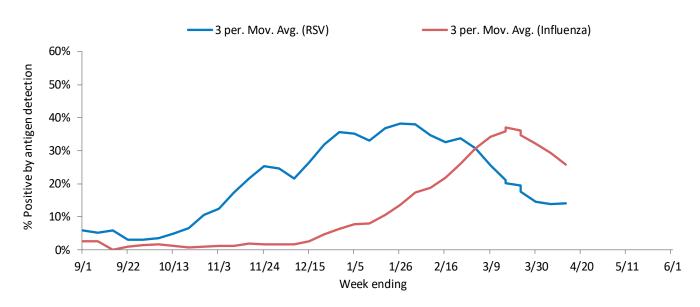
		Positiv	ve Posit	ive		Influenza A				Influenz	а В	
Respiratory virus	Tested	(n)	(%)	I3N2	2009 H1N1	Unknown	Vic	toria	Yamaga	ta	Unknown
Influenza	1664	92	5.5	%	5	2	65		2	1		17
Respiratory viru	s Tes	sted	Positive (n)	Positiv	e Pa	rainfluenza 1	Parainfluen	za 2	Paraiı	nfluenza 3	Pa	rainfluenza 4
Parainfluenza	5	15	42	8.2%		2	5			34		1
Respiratory virus	s Tes	ted	ositive (n)	Positivo (%)	e	CoV 229E	CoV OC4	3	Co	CoV NL63 C		CoV HKU1
Coronavirus (Co	V) 24	40	3	1.3%		2	0			1		0
Respiratory	/ virus			Tested			Positive (n)				Positive (%)	
RSV				715	15 7					1.0%	6	
Human metapn	eumovi	rus		544	44 47					8.6%	6	
Rhino-ente	rovirus			489	489		54		1		11.0%	
Adenovi	irus			240			1			1.3%		6

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tested	Dositivo (n)	% Docitivo	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)	% Positive	ILI 70	Ваѕеппе	Tillesilolu	
610	40	10	50	8.2%	87	3	3.4%	1.2%	2.4%	3.6%	

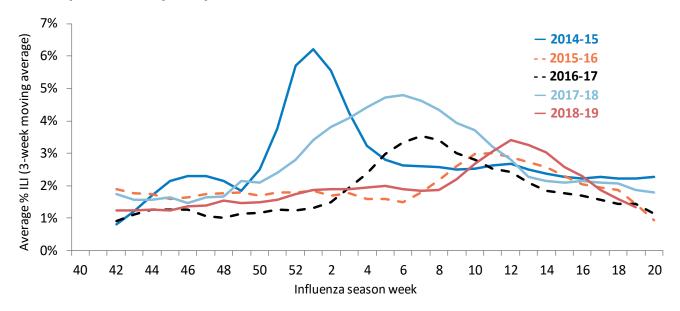
ILI activity trend analysis





WISCONSIN STATE SUMMARY

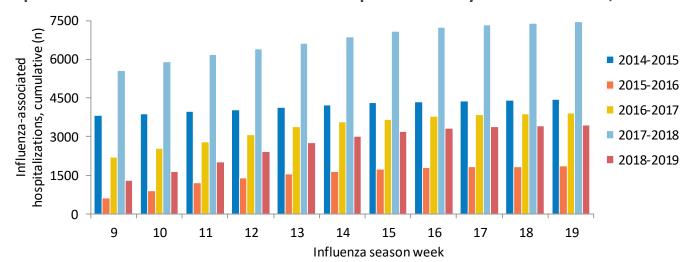
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2018 to present

Ago group	Total		lr	ıfluenza 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	51	5	0	42	2	2	8	4	0	0
1-4	102	3	3	82	5	9	18	4	0	0
5-17	115	3	3	90	5	14	19	2	0	0
18-49	525	44	20	405	24	32	105	37	37	3
50-64	863	97	49	652	37	28	189	53	0	0
65+	1788	132	145	1366	92	53	258	67	0	0
Total	3444	284	220	2637	165	138	597	167	37	3

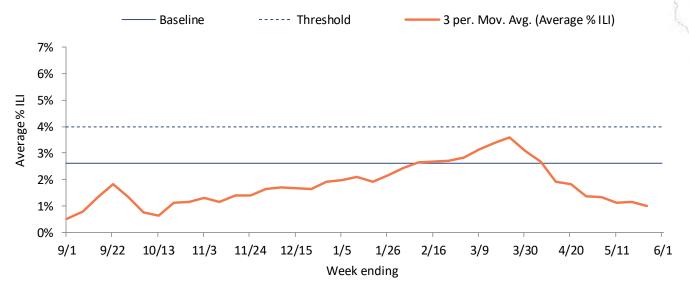
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

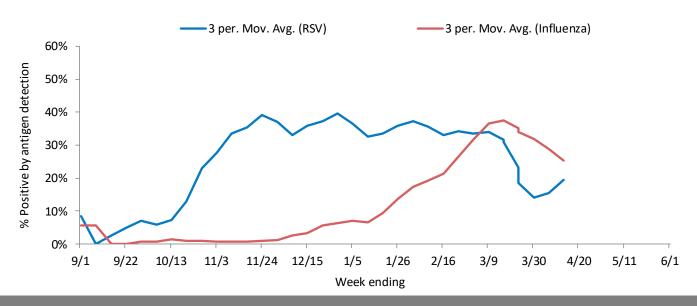


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseiine	mresnoid	
234	9	3	12	5.1%	44	2	4.5%	1.0%	2.6%	4.0%	

ILI activity trend analysis

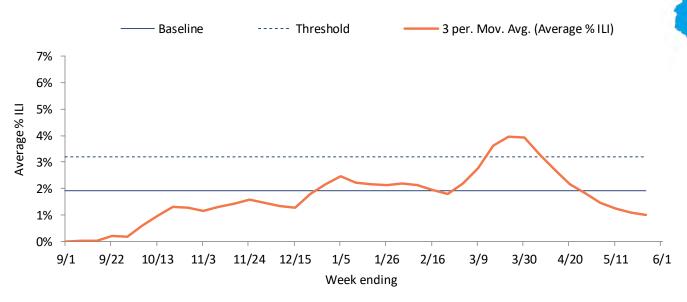


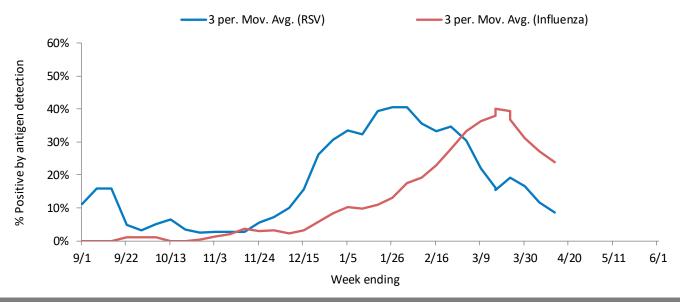


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitivo	11.1.0/	Baseline	Throshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Daseille	Threshold	
169	22	1	23	13.6%	37	1	2.7%	1.0%	1.9%	3.2%	

ILI activity trend analysis

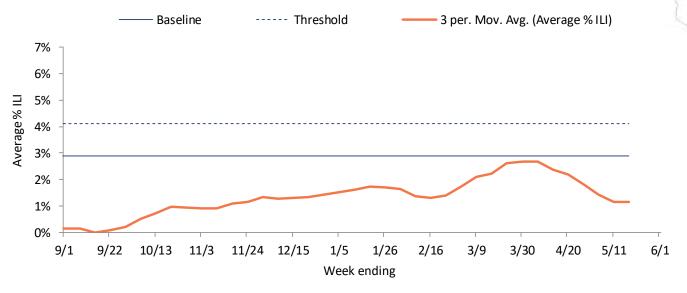


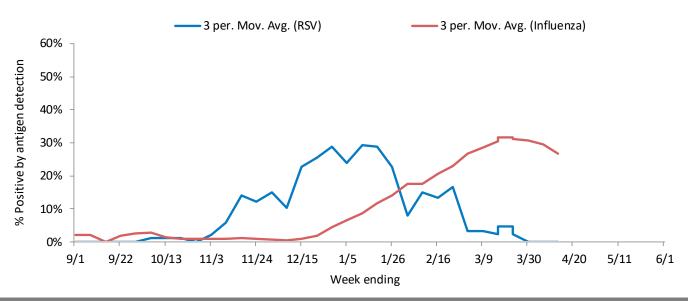




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	% FUSITIVE	ILI /0	Daseille	Tillesiloid	
194	8 6 14		7.2%	4	0	0.0%	1.2%	2.9%	4.1%		

ILI activity trend analysis

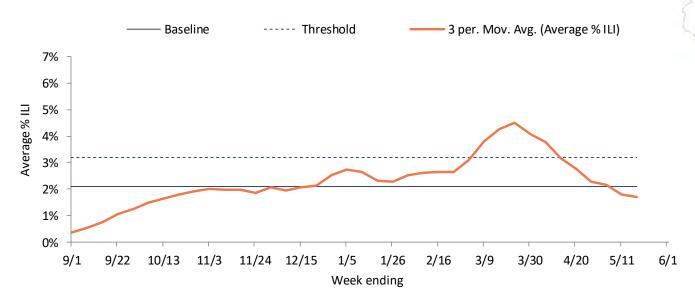


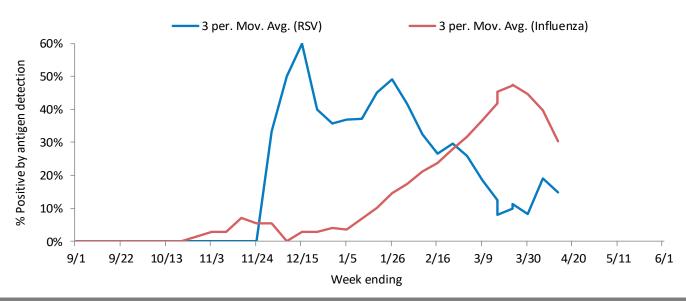


SOUTHERN REGION

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 %	Baseime	Tillesilolu	
13	1	0	1	7.7%	2	0	0.0%	1.3%	2.1%	3.2%	

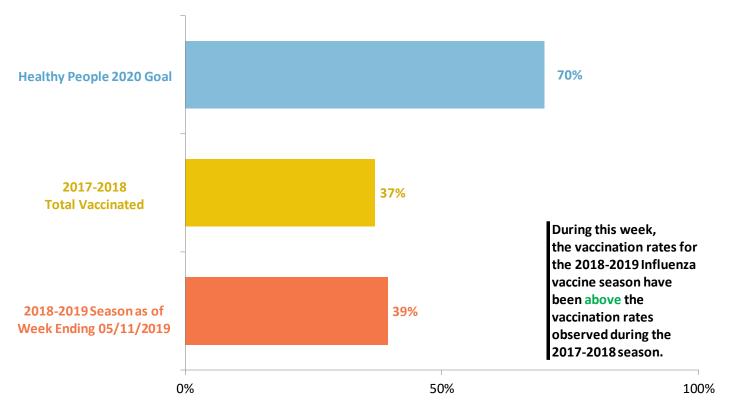
ILI activity trend analysis







Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2018-2019 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 2018-2019:

The **trivalent** vaccines for use in the 2018-2019 influenza season contain the following:

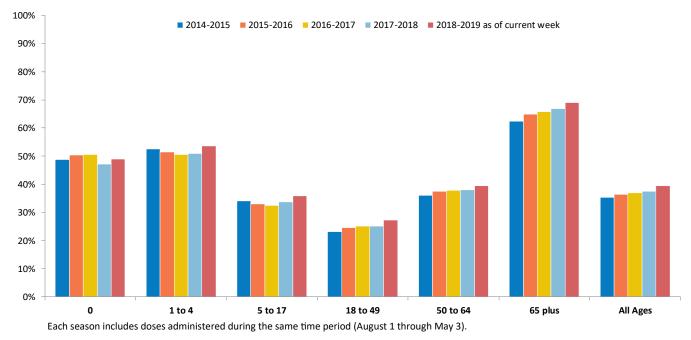
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

B/Phuket/3073/2013-like virus (B/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, 2018-2019 influenza season

