

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 16: Ending April 20, 2019

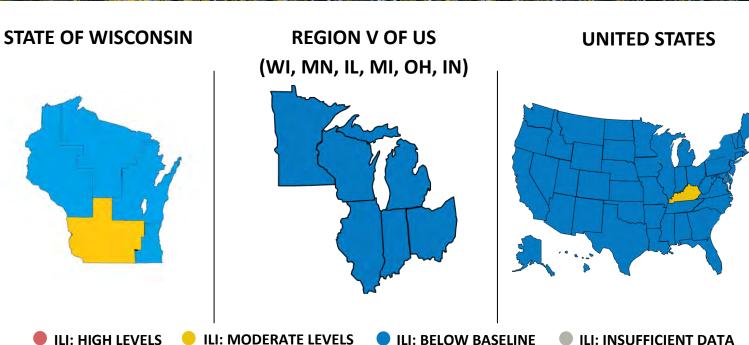
Wisconsin Department of Health Services | Division of Public Health

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 of the Week:

 Influenza A/H3 is the predominant virus this week.

CURRENT ALERTS:

- Influenza activity is declining statewide.
- 130 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 16, 2019	to present
Wisconsin	1	3
Nationwide	5	96

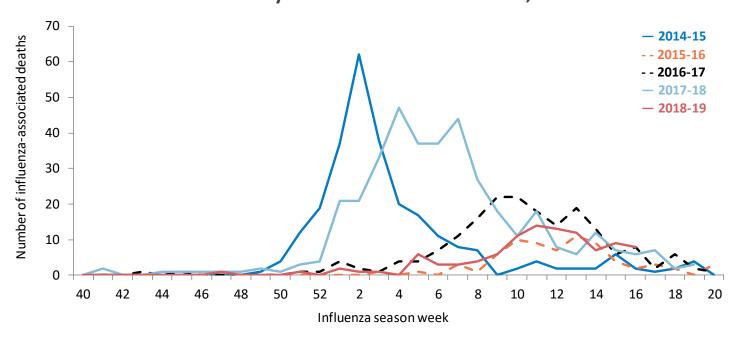


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin

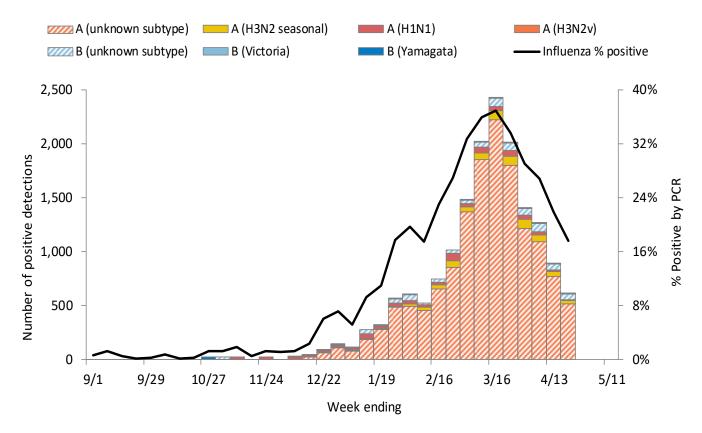


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to April 20, 2019

		Week 16, 201	19	Cumul	ative, 2018-2019	9 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	1	0	100.0%	3	5	2.2%
5-17	0	0	0.0%	0	3	3.0%
18-49	1	3	12.1%	12	73	3.7%
50-64	0	5	4.9%	20	229	4.6%
65+	6	49	8.2%	69	1589	5.9%
All ages	8	57	7.9%	102	1899	5.5%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

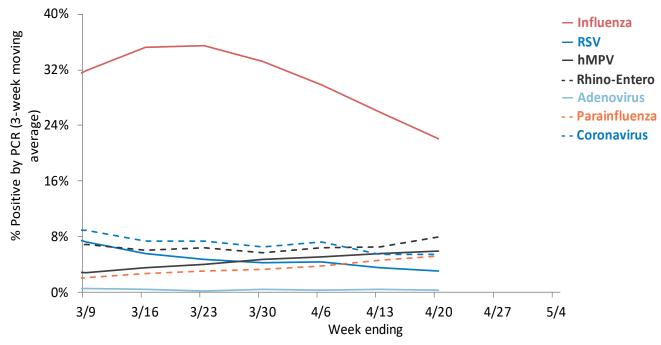


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	4% B (Unknown)	Total
Total positive (n)	630	704	14504	12	27	692	16569
% of total positive	4%	4%	88%	0%	0%	4%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week 16: Ending on April 20, 2019

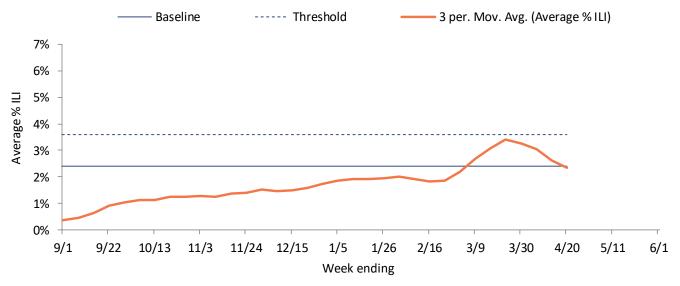
WCCK 10. Lilan		P	·,										
Pasniratany virus	Tostad	Posi	itive	Posit	ive	Influenza A					Influenza	а В	
Respiratory virus	Tested	(r	1)	(%)) нзі	N2	2009 H1N1	Unknown	Vic	toria	Yamagat	ta	Unknown
Influenza	3450	60	08	17.6	5% 28	3	14	512		1	2		51
Respiratory virus	s Tes	sted		itive n)	Positive (%)	Para	ainfluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pai	rainfluenza 4
Parainfluenza	7	23	3	9	5.4%		0	1			38		0
Respiratory virus	Tes	sted	Posi (r	itive n)	Positive (%)	C	CoV 229E	CoV OC4	3	CoV NL63 CoV		CoV HKU1	
Coronavirus (Co\	/) 39	93	2	0	5.1%		6	11			2		1
Respiratory	Respiratory virus Tested			Positive (n)			Pos	itive	(%)				

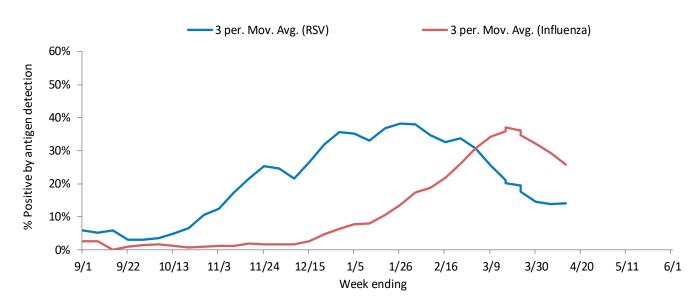
Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1297	22	1.7%
Human metapneumovirus	761	48	6.3%
Rhino-enterovirus	699	72	10.3%
Adenovirus	393	20	5.1%

WISCONSIN STATE SUMMARY

	Influenza rapid antigen tests Positive (n) Influenza A Influenza B Total 233 30 263 17.9				RSV r	RSV rapid antigen tests			Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Threshold		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoia		
1473	233	30	263	17.9%	119	17	14.3%	2.0%	2.4%	3.6%		

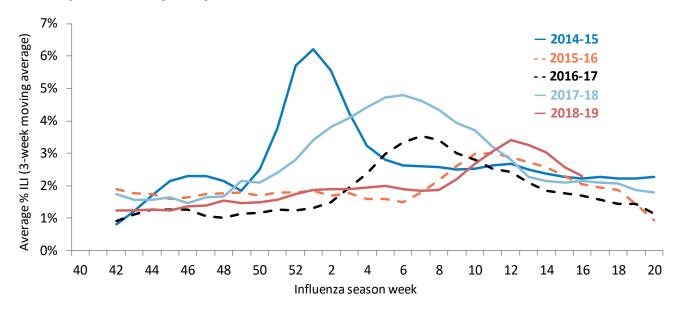
ILI activity trend analysis





WISCONSIN STATE SUMMARY

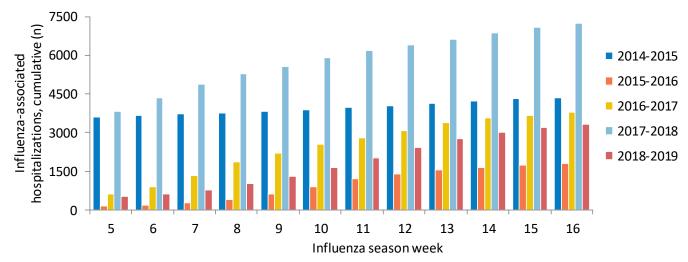
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 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	49	5	0	40	2	2	8	4	0	0	
1-4	96	3	3	77	4	9	16	4	0	0	
5-17	110	2	3	85	5	15	18	2	0	0	
18-49	510	44	19	392	24	31	103	36	34	3	
50-64	835	92	46	638	31	28	182	51	0	0	
65+	1723	128	139	1324	83	49	245	66	0	0	
Total	3323	274	210	2556	149	134	572	163	34	3	

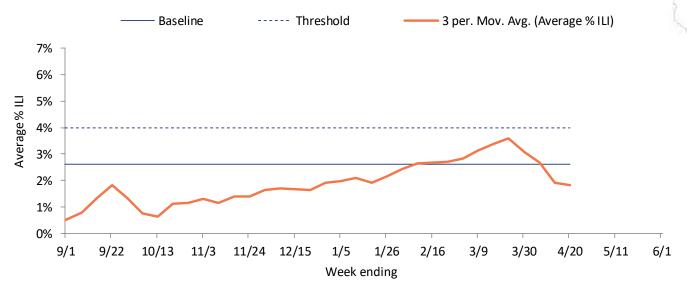
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

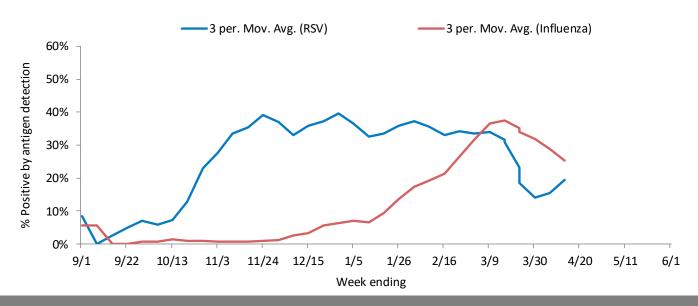


NORTHEASTERN REGION

	Influenz	za A Influenza B Total			RSV r	apid antigen	tests	Influenza-like illness (ILI)		
Tostod		Positive (n)		0/ Docitivo	Tostod	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Throshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
558	63	10	73	13.1%	76	13	17.1%	1.6%	2.6%	4.0%

ILI activity trend analysis

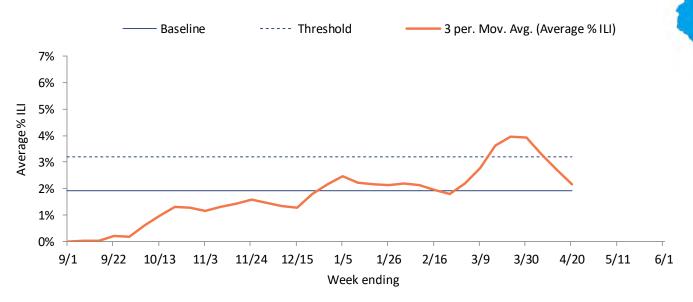


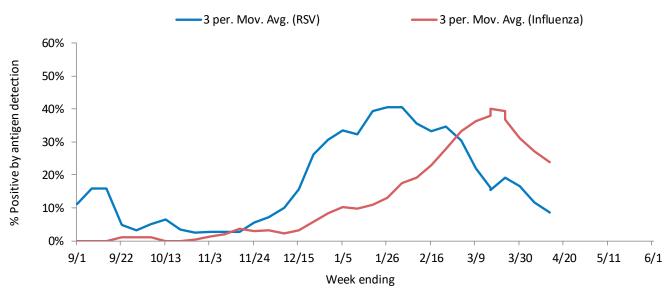


NORTHWESTERN REGION

	Tested Positive (n) Influenza A Influenza B Total % Positive				RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tankad		Positive (n)		0/ Docitive	Taskad	Dasitiva (n)	0/ Docitive	11.1.07	Deseline	Thusabald	
rested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
246	37	1	38	15.4%	31	4	12.9%	1.7%	1.9%	3.2%	

ILI activity trend analysis

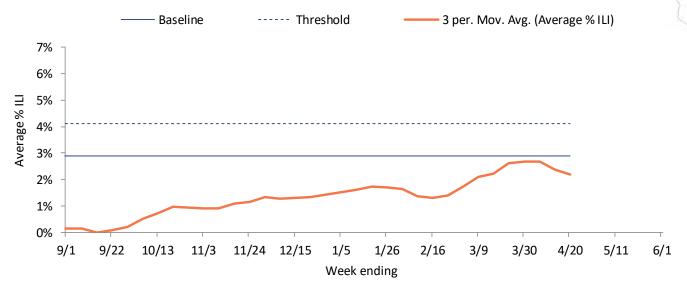


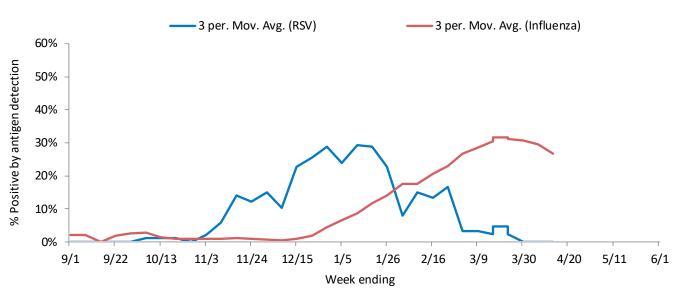




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostod		Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Throchold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
598	112	18	130	21.7%	6	6	100.0%	2.0%	2.9%	4.1%	

ILI activity trend analysis

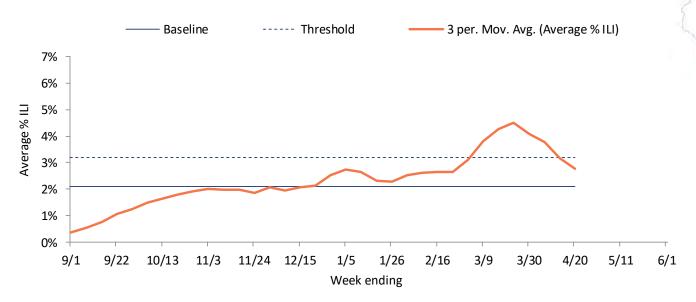


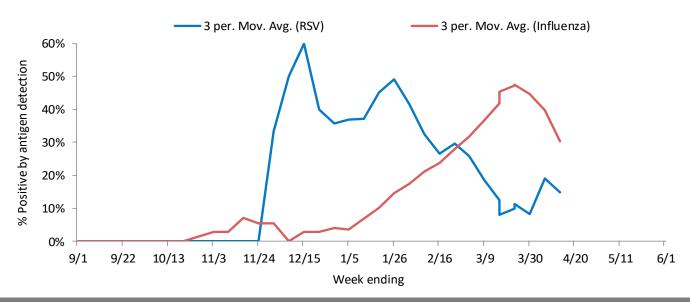


SOUTHERN REGION

	Influenza A Influenza B Total				RSV rapid antigen tests Tested Positive (n) % Positive			Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	0/ Docitive	11.1.0/	Dasalina	Throshold	
Tested	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% Positive	ILI %	Baseline	Threshold	
71	21	1	22	31.0%	6	0	0.0%	2.4%	2.1%	3.2%	

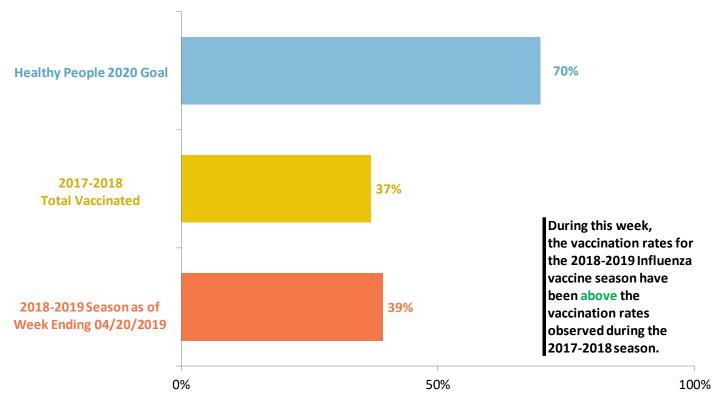
ILI activity trend analysis







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:

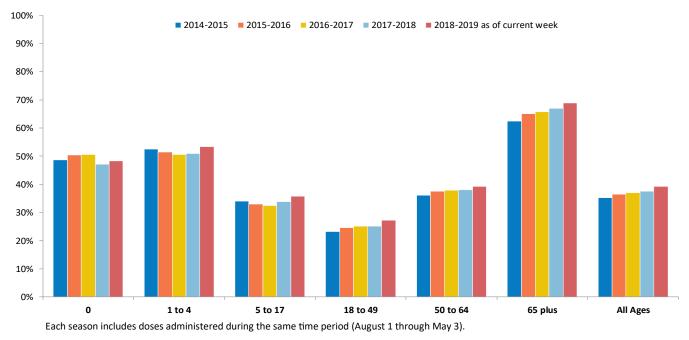
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

