

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 18: Ending May 4, 2019

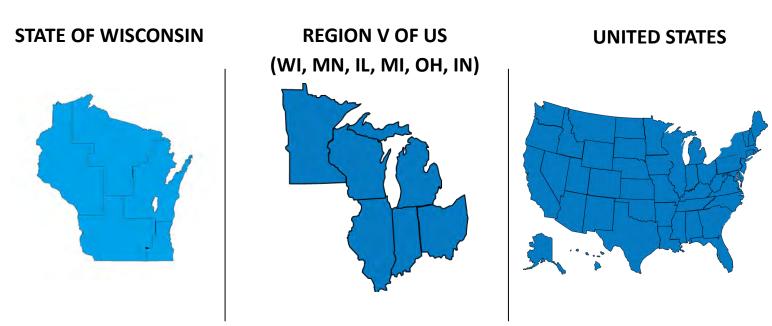
Wisconsin Department of Health Services | Division of Public Health

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:

ILI: HIGH LEVELS

Weekly Respiratory Report Description

ILI: MODERATE LEVELS

Predominant Virus(es) of the Week:
Rhino/enterovirus and parainfluenza-3 are the predominant viruses this week.

CURRENT ALERTS:

- Influenza activity continues to decline nationwide and in Wisconsin.
- 40 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

ILI: INSUFFICIENT DATA

ILI: BELOW BASELINE

	Week 18, 2019	October 1, 2018 to present
Wisconsin	1	4
Nationwide	5	106

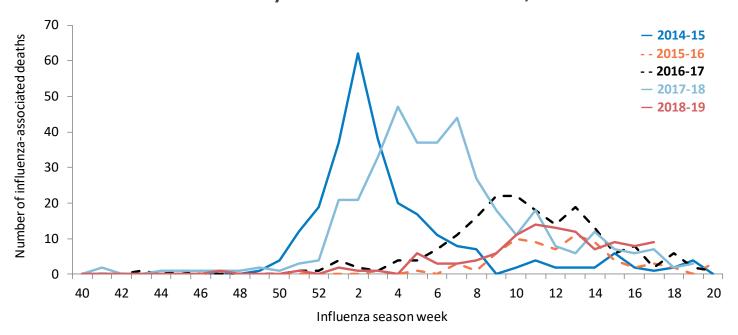


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin

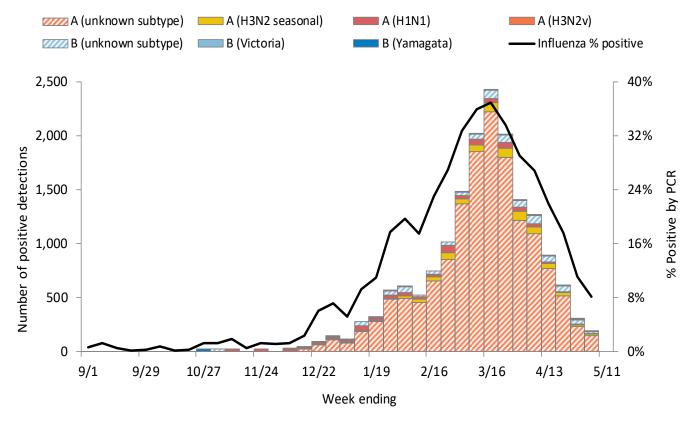


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to May 4, 2019

		Week 18, 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	1	0	50.0%	4	5	2.1%		
5-17	0	0	0.0%	0	3	2.9%		
18-49	1	2	5.8%	15	78	3.8%		
50-64	2	4	3.6	22	246	4.7%		
65+	2	47	97.2%	80	1695	5.9%		
All ages	6	53	7.0%	121	2027	5.6%		



Wisconsin positive influenza results and subtypes by PCR

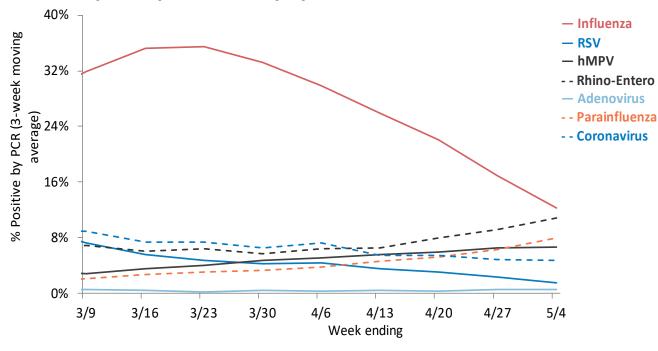


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	95% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	5% B (Unknown)	Total
Total positive (n)	650	729	14879	16	28	748	17050
% 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



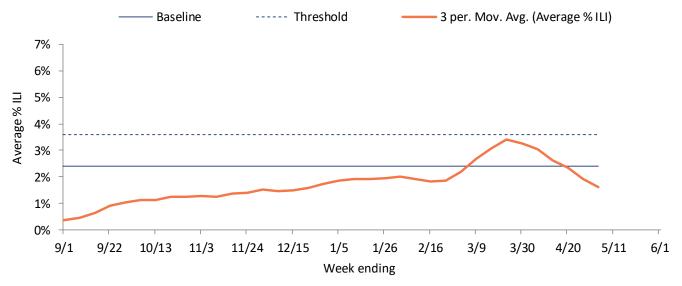
Week 18: Ending on May 4, 2019

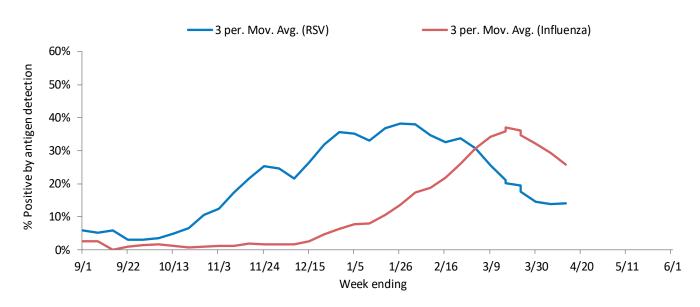
Posnirotory virus	Tested	Posit	tive I	Positiv	re e		Influenza A				Influenz	а В			
Respiratory virus	resteu	(n)	(%)	нзи	2 2	2009 H1N1	Unknown	Vic	toria	Yamagat	ta	Unknown		
Influenza	2294	18	6	8.1%	9		11	146		2	0		18		
Respiratory viru	s Te	sted	Positi (n)		Positive (%)	Para	influenza 1	Parainfluenza 2		Parair	nfluenza 3	Pa	rainfluenza 4		
Parainfluenza	6	55	69)	10.5%	0.5% 4		3 62		4 3 62		4 3			0
Respiratory virus	s Tes	sted	Positi (n)		Positive (%)	Co	oV 229E	CoV OC4	3	Co'	V NL63		CoV HKU1		
Coronavirus (Co	V) 2	94	11		3.7%		3	4			3		1		
Respiratory	/ virus				Tested			Positive (n)			Pos	ositive (%)			
RSV					1078			12			1.1%	6			
Human metapn	eumovi	rus			673	3 43				6.4%	6				
Rhino-ente	rovirus				638			77	77 12.1%		%				
Adenovi	irus				294			1				0.3%	6		

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests				RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad	Positive (n)	% Positive	Tostad	Positive (n)	% Positive	ILI %	Danalina	Threshold		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (II)	% Positive	ILI 70	Baseline	mesnoid
883	63	18	81	9.2%	102	12	11.8%	1.4%	2.4%	3.6%

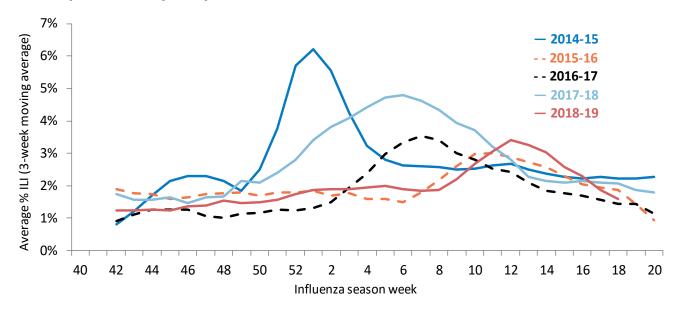
ILI activity trend analysis





WISCONSIN STATE SUMMARY

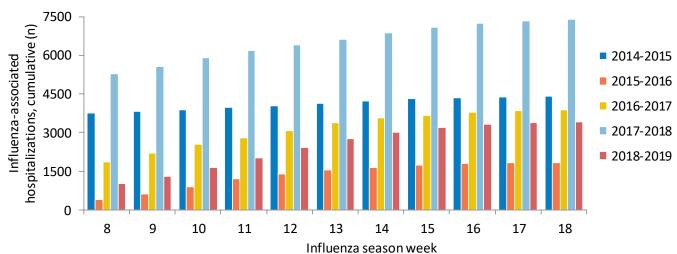
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subt	уре		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	49	5	0	40	2	2	8	4	0	0
1-4	100	3	3	81	5	8	17	4	0	0
5-17	115	3	3	89	5	15	19	2	0	0
18-49	520	44	20	402	24	30	105	37	37	3
50-64	856	97	49	646	36	28	187	53	0	0
65+	1775	132	143	1360	89	51	254	67	0	0
Total	3415	284	218	2618	161	134	590	167	37	3

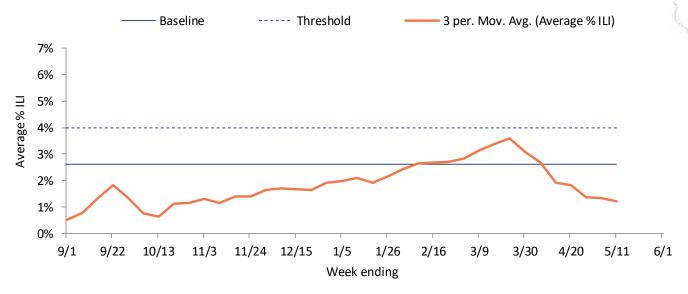
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

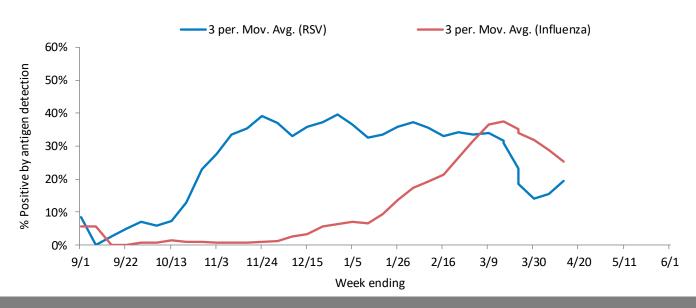


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad	Positive (n)		% Positive	Tested	Dositivo (n)	% Docitivo	11.1.0/	Deseline	Threshold		
Tested	Influenza A	Influenza B	Total	% Positive	restea	Positive (n)	% Positive	ILI %	Baseline	Tillesilolu	
304	21	5	26	8.6%	52	8	15.4%	1.3%	2.6%	4.0%	

ILI activity trend analysis

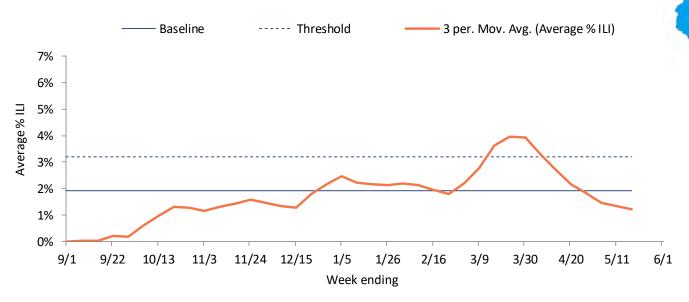


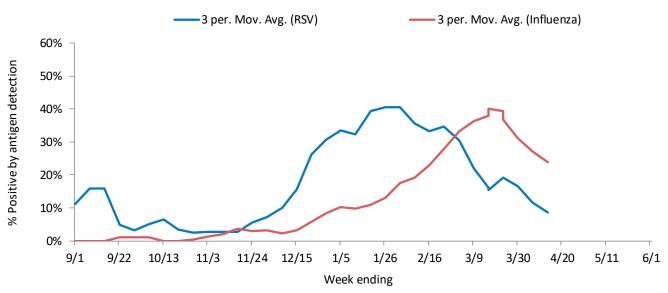




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad	Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Davitive	11.1.0/	Dli	Thuashald		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
182	13	1	14	7.7%	39	3	7.7%	1.2%	1.9%	3.2%	

ILI activity trend analysis

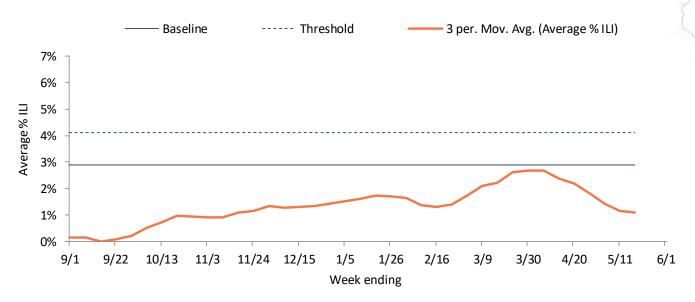


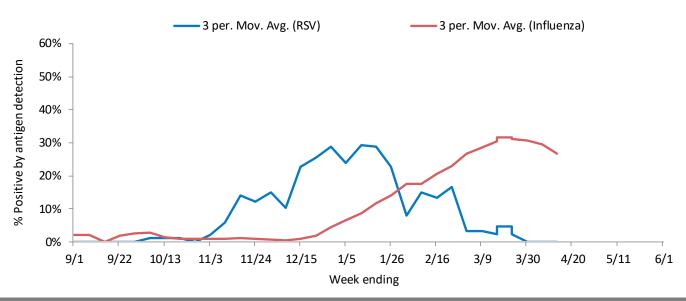




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostod	Positive (n)		\ ,		Tostod	Danitiva (n)	0/ Docitive	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mresnoid	
374	24	11	35	9.4%	4	0	0.0%	1.1%	2.9%	4.1%	

ILI activity trend analysis

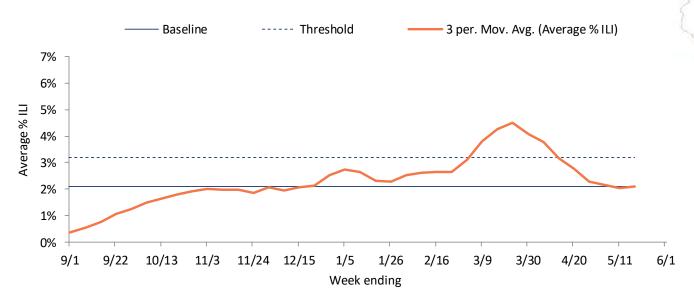


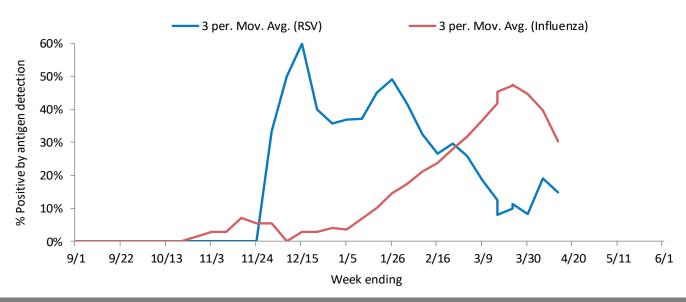


SOUTHERN REGION

	Influenza rapid antigen tests				RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	% Positive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)		ILI 70			
23	5	1	6	26.1%	7	1	14.3%	2.1%	2.1%	3.2%	

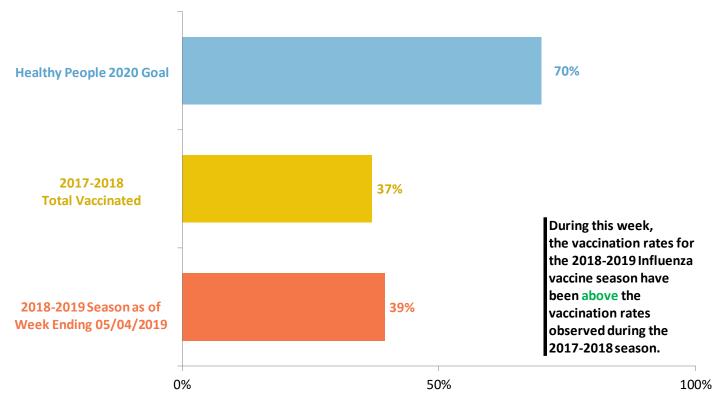
ILI activity trend analysis







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:

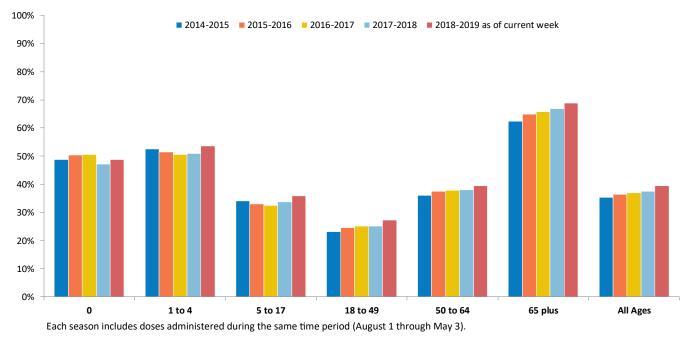
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

