

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 17: Ending April 27, 2019

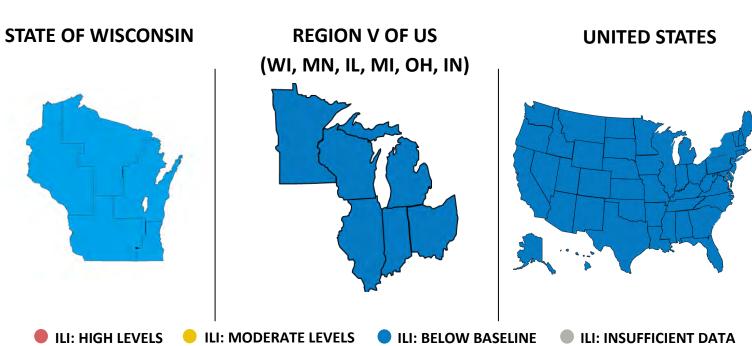
Wisconsin Department of Health Services | Division of Public Health

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.
 Human metapneumovirus and parainfluenza activity is increasing.
- 52 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 17, 2019	October 1, 2018 to present
Wisconsin	0	3
Nationwide	5	101

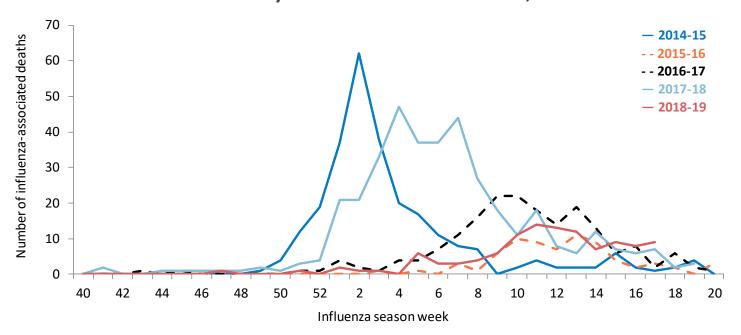


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin

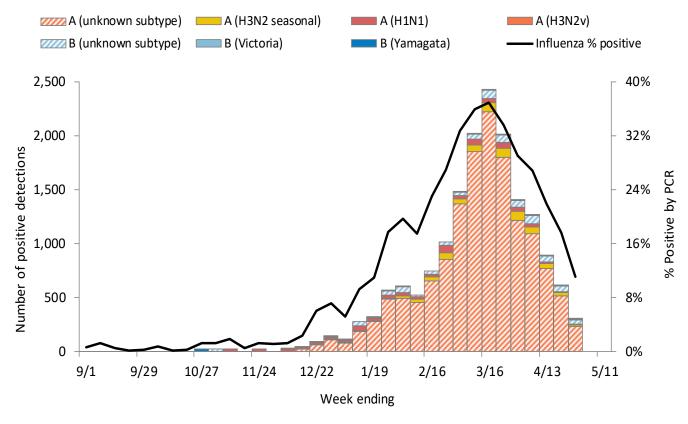


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to April 27, 2019

		Week 17, 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%	3	5	2.2%		
5-17	0	0	0.0%	0	3	2.9%		
18-49	1	1	5.0%	14	76	3.8%		
50-64	0	8	7.5%	20	239	4.7%		
65+	8	59	9.2%	78	1648	5.9%		
All ages	9	68	8.8%	113	1971	5.6%		

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

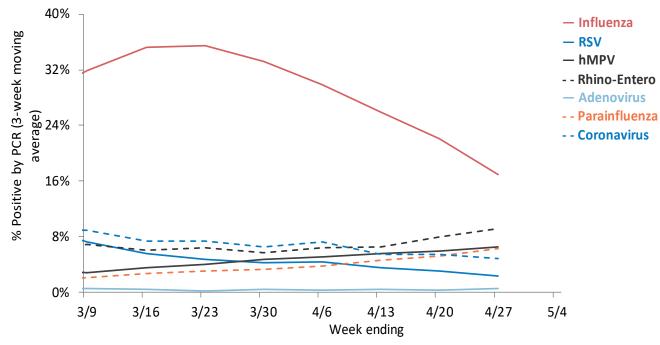


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	95% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	5% B (Unknown)	Total
Total positive (n)	639	720	14733	14	28	730	16864
% 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



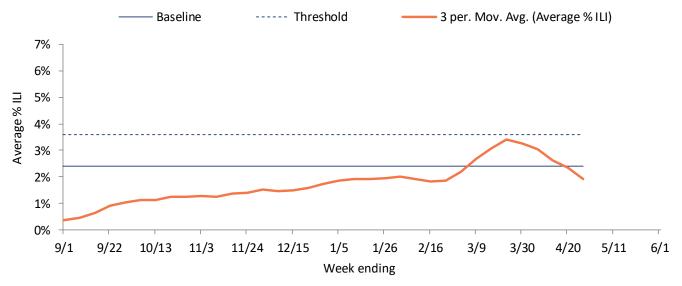
Week 17: Ending on April 27, 2019

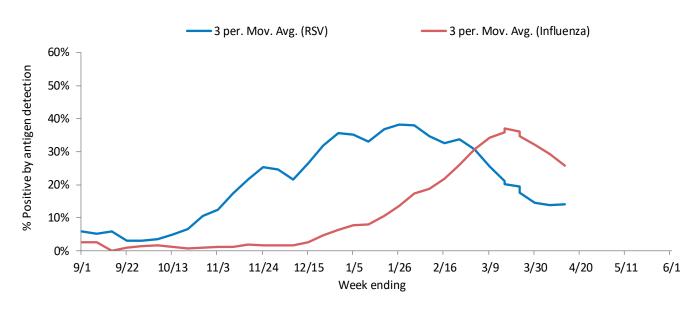
		Positiv	ve Posit	tive			Influenza A				Influenz	а В		
Respiratory virus	Testea	(n)	(%	5)	H3N2	2	2009 H1N1	Unknown	Vic	toria	Yamagata		Unknown	
Influenza	2647	295	11.:	1%	16		9	229		2	1		38	
Respiratory viru	s Tes	sted	Positive (n)		sitive (%)	Paraiı	nfluenza 1	Parainfluen	za 2	Parair	nfluenza 3	Pa	rainfluenza 4	
Parainfluenza	6	21	49	7.	9% 2		3			43		1		
Respiratory virus	s Tes	sted	Positive (n)		sitive %)	Co	V 229E	CoV OC4	3	Co	V NL63		CoV HKU1	
Coronavirus (Co	V) 29	96	16	5.	.4%		9	4			3		0	
Respiratory	/ virus			Tes	sted			Positive (n)			Pos	ositive (%)		
RSV					35		17				1.8%			
Human metapn	eumovi	ovirus 6		6	32			46				7.3%	6	
Rhino-ente	o-enterovirus 602		02	60			60			10.0%				
Adenovi	irus			2	96			3				1.0%	1.0%	

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n)		0/ Docitivo	Tostad	Docitive (n)	oditivo (n) O(Doditivo		Deseline	Thuashalal			
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
952	116	27	143	15.0%	117	10	8.5%	1.4%	2.4%	3.6%	

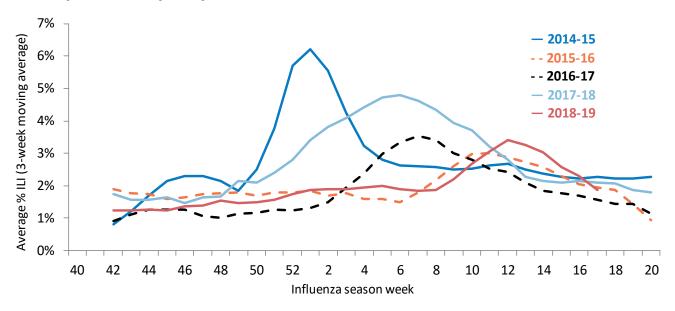
ILI activity trend analysis





WISCONSIN STATE SUMMARY

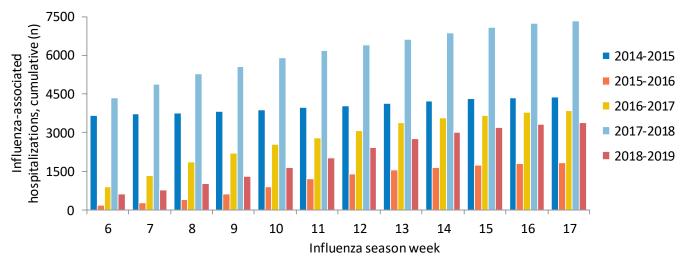
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza 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	98	3	3	80	4	8	17	4	0	0	
5-17	110	2	3	85	5	15	18	2	0	0	
18-49	515	44	20	398	24	29	105	36	37	3	
50-64	851	97	49	642	34	29	187	53	0	0	
65+	1752	129	141	1346	88	48	250	66	0	0	
Total	3375	280	216	2591	157	131	585	165	37	3	

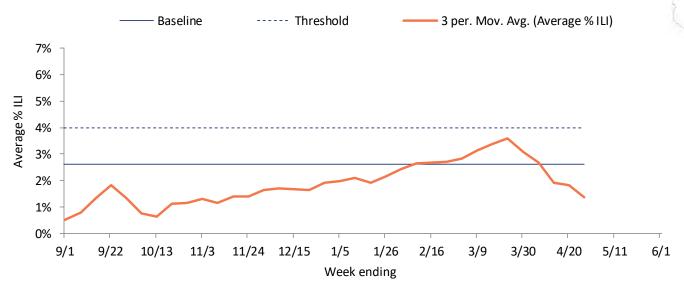
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

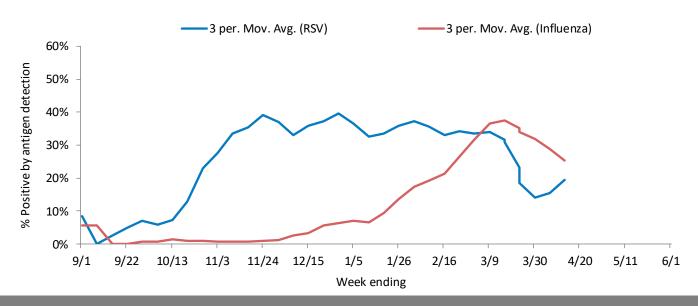


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n)		% Positive	Tested	Dositivo (n)	% Positive	11 1 0/	Danalina	Threshold			
Tested	Influenza A	Influenza B	Total	% Positive	resteu	Positive (n)	% Positive	ILI %	Baseline	meshold	
369	37	13	50	13.6%	58	9	15.5%	1.1%	2.6%	4.0%	

ILI activity trend analysis

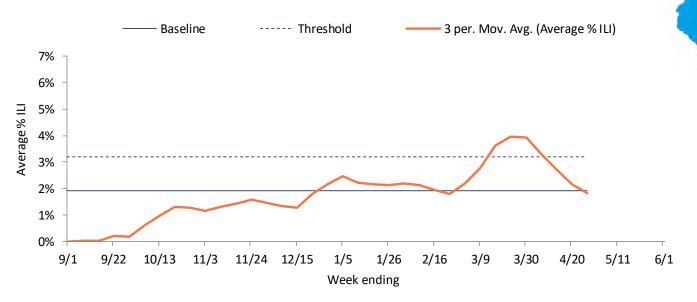


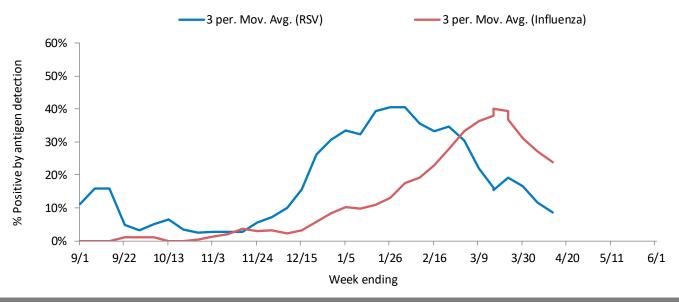


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tankad		Positive (n)		0/ Davitive	Taskad	Dasitiva (n)	% Positive	11.1.07	Baseline	Thusabald	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% POSITIVE	ILI %	Daseille	Threshold	
226	30	2	32	14.2%	48	1	2.1%	1.5%	1.9%	3.2%	

ILI activity trend analysis

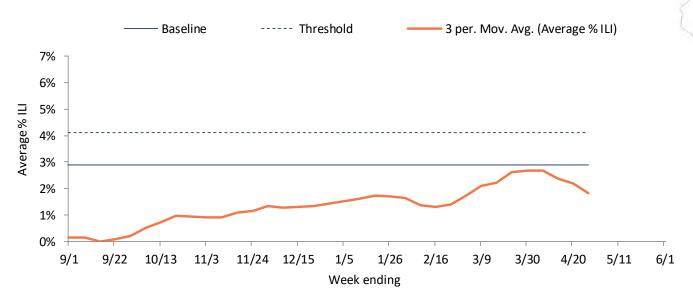


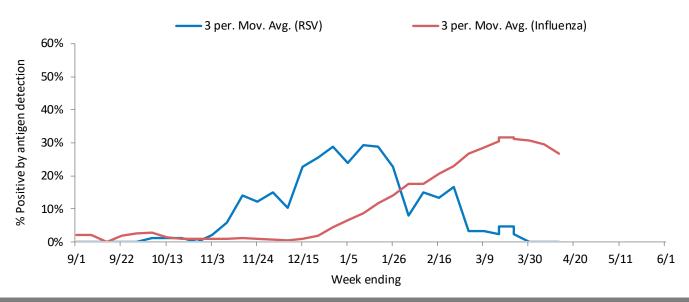




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n)			0/ Desitive	Tostod	Docitive (n)	1 0 Desiries	11.1.0/	DI:	Threshold		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	mresnoia	
316	43	10	53	16.8%	8	0	0.0%	1.2%	2.9%	4.1%	

ILI activity trend analysis

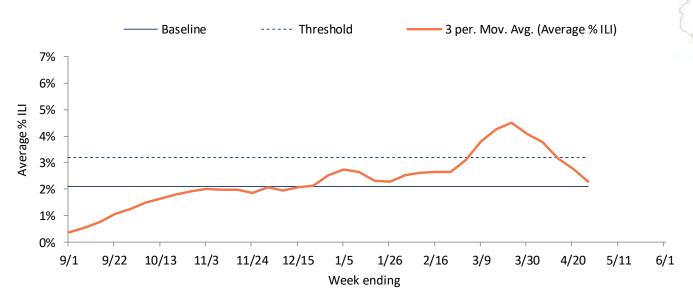


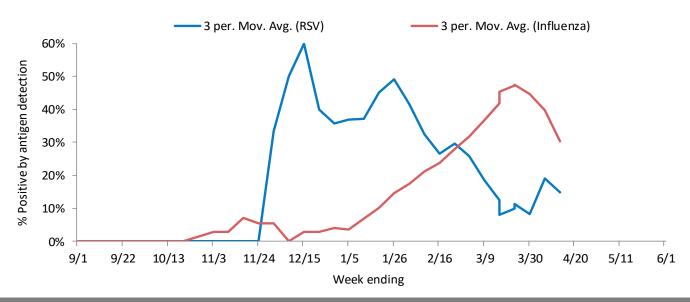


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n)			0/ Docitive	Tostad	Docitive (n)	Desition (a) Of Desition		Danalina	Thusabala		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
41	6	2	8	19.5%	3	0	0.0%	2.0%	2.1%	3.2%	

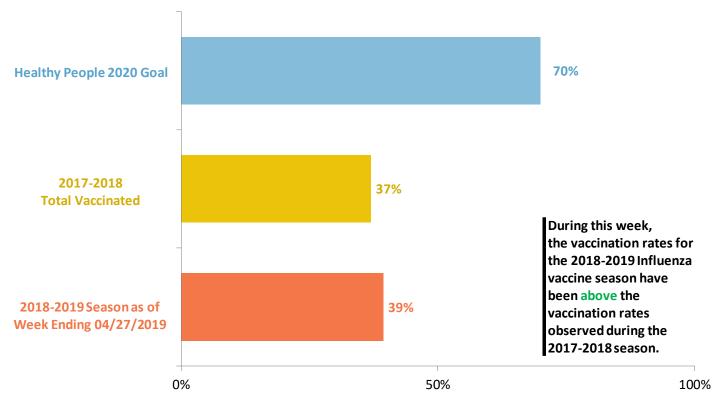
ILI activity trend analysis







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

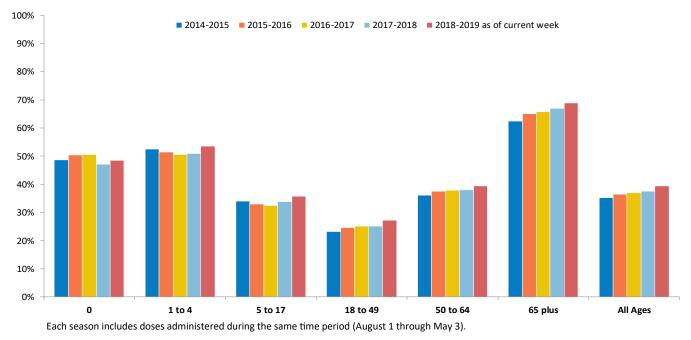
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

