

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 15: Ending April 13, 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>





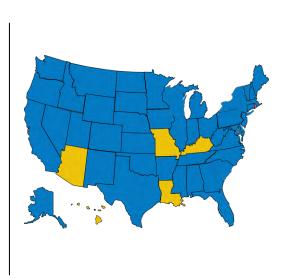
STATE OF WISCONSIN



REGION V OF US (WI, MN, IL, MI, OH, IN)



UNITED STATES



ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

ILI: INSUFFICIENT DATA

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.
- 176 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 15, 2019	October 1, 2018 to present
Wisconsin	Ω	2

Nationwide 5 91

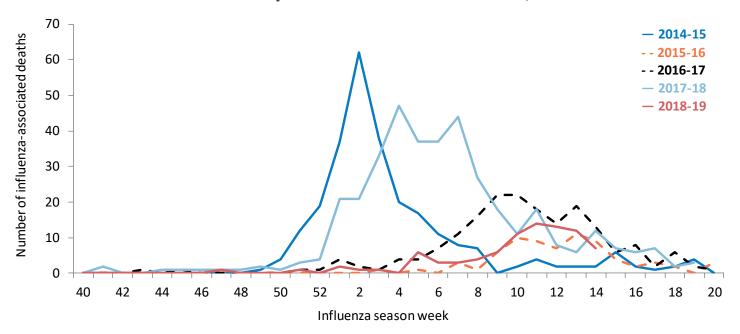


For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza-associated deaths by week and influenza season, Wisconsin

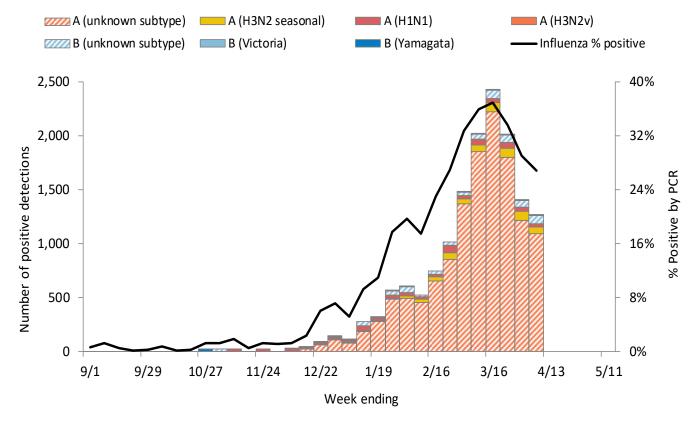


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to April 13, 2019

		Week 15, 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%	2	5	2.3%		
5-17	0	0	0.0%	0	3	3.1%		
18-49	0	1	2.0%	11	69	3.6%		
50-64	1	7	6.8%	20	223	4.8%		
65+	7	48	7.9%	62	1543	5.9%		
All ages	8	56	7.3%	94	1843	5.6%		



Wisconsin positive influenza results and subtypes by PCR

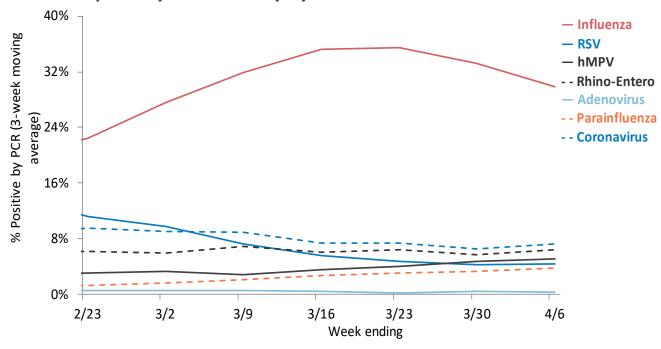


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	4% B (Unknown)	Total
Total positive (n)	594	630	13230	9	23	592	15078
% 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 15: Ending on April 13, 2019

Adenovirus

B	Toolad	Positi	ve Posi	tive		ı	Influenza A				Influenz	а В		
Respiratory virus	Testea	(n)	(%	6)	H3N	2 2	2009 H1N1	Unknown	Vic	ctoria Yamag		ta	Unknown	
Influenza	4031	883	3 21.	9%	46		22	762		2 2		49		
Respiratory virus	s Tes	sted	Positive (n)		sitive (%)	Parai	nfluenza 1	Parainfluenza 2 Parainfluenza 3 Parain		rainfluenza 4				
Parainfluenza	7	67	43	5	5.6%		4	1		37		1		
Respiratory virus	Tes	ted	Positive (n)		sitive (%)	Co	oV 229E	CoV OC4	3	Co	V NL63	CoV HKU1		
Coronavirus (Co\	/) 38	85	16	4	.2%		4	6			6		0	
Respiratory	virus			Te	ested			Positive (n)			Pos	ositive (%)		
RSV	RSV			1	163			39				3.4%		
Human metapn	eumovi	rus		796		49								
Rhino-enter	rovirus			7	738			52			7.0%			

16

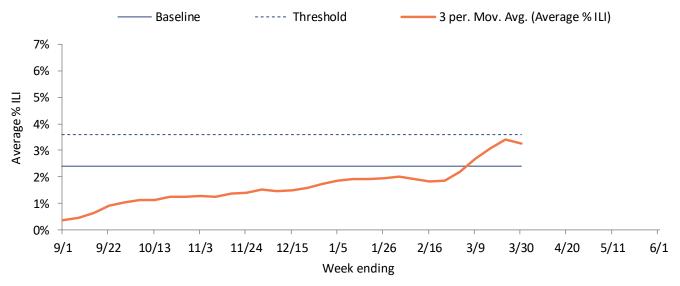
0.3%

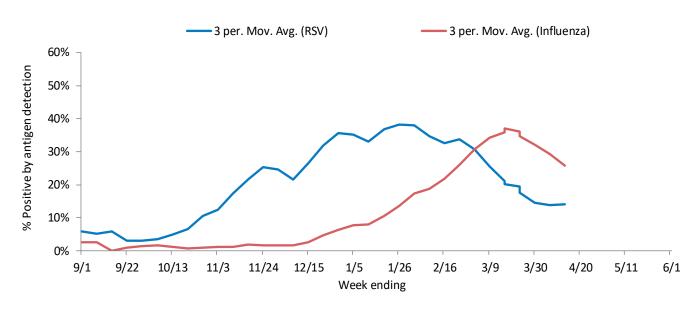
385

WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Taskad	Positive (n)			0/ Docitive	Taskad	Dasitiva (n)	0/ Desitive	11.1.07	DII	Thursday Isl	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
1783	352	53	405	22.7%	133	21	15.8%	2.2%	2.4%	3.6%	

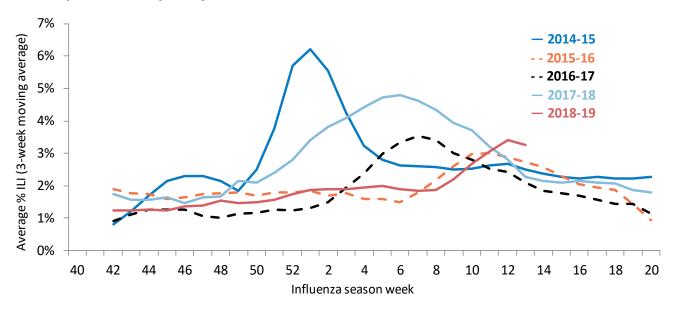
ILI activity trend analysis





WISCONSIN STATE SUMMARY

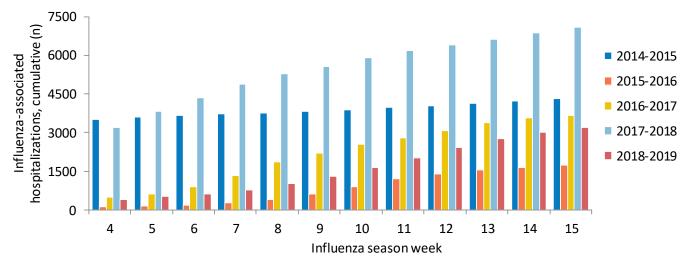
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		lr	ıfluenza subt	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	48	5		39	2	2	8	4	0	0
1-4	93	3	3	74	4	9	16	4	0	0
5-17	106	2	3	83	5	13	18	2	0	0
18-49	491	41	17	379	22	32	99	35	34	3
50-64	809	90	43	619	30	27	172	47	0	0
65+	1646	123	132	1267	80	44	236	63	0	0
Total	3193	264	198	2461	143	127	549	155	34	3

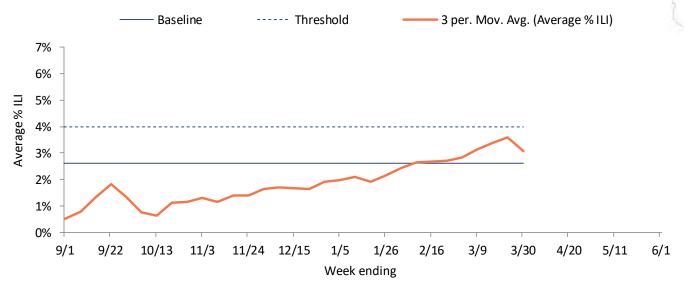
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

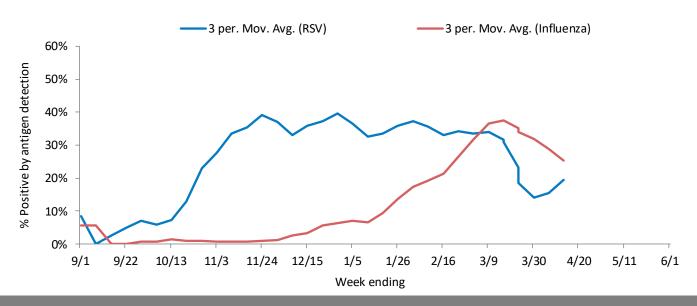




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Taskad	Positive (n)			0/ Docitive	Taskad	Dasitiva (n)	0/ Desitive	11.1.07	D!:	Thuashald	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
562	104	20	124	22.1%	62	16	25.8%	1.4%	2.6%	4.0%	

ILI activity trend analysis

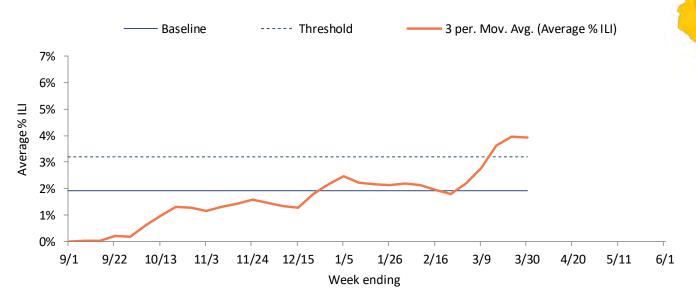


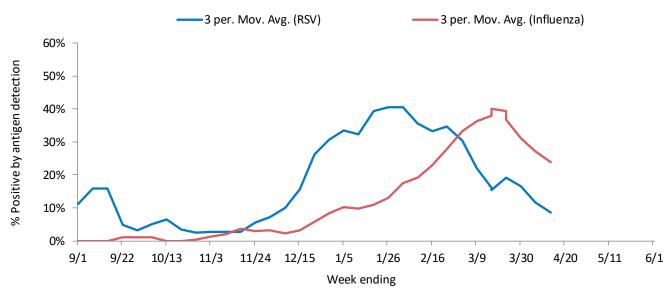


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tankad	Positive (n)			0/ Docitive	Taskad	Dasitiva (n)	0/ Desitive	11.1.07	DII	Thursday Isl	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
399	90	7	97	24.3%	49	5	10.2%	2.3%	1.9%	3.2%	

ILI activity trend analysis

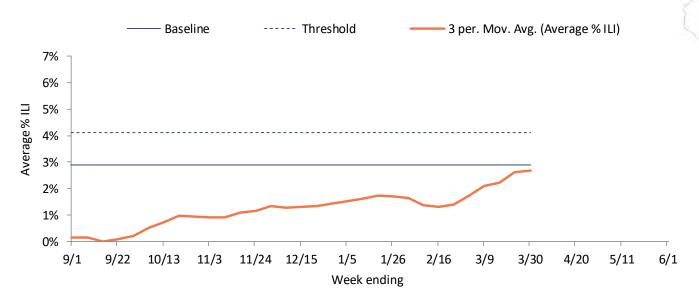


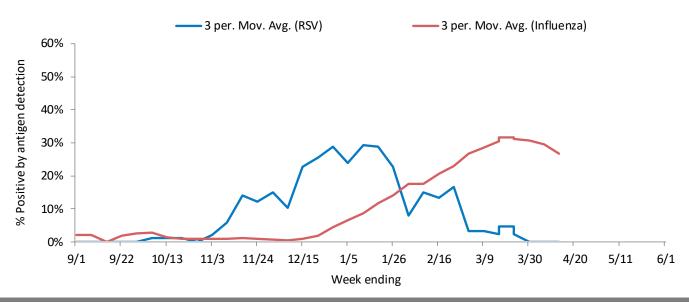




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n)		0/ Desitive	Tostod	Docitive (n)	0/ Docitive	11.1.0/	Danalina.	Thusabald			
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
756	184	23	207	27.4%	8	0	0.0%	2.3%	2.9%	4.1%	

ILI activity trend analysis

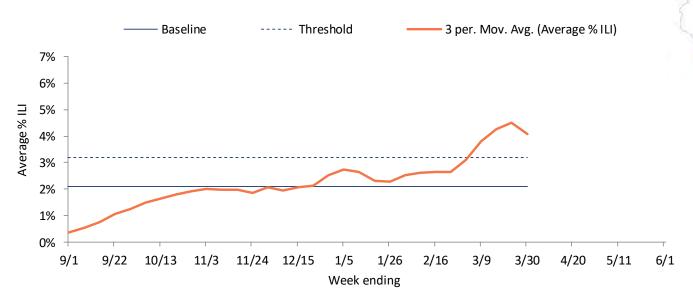


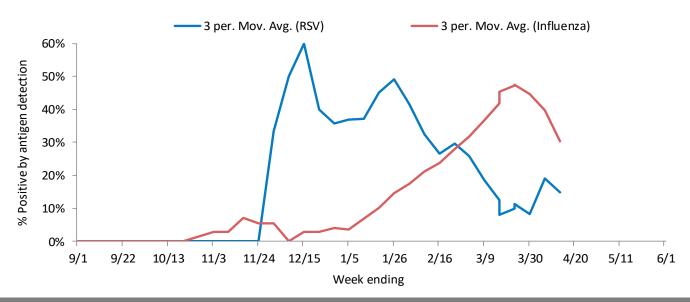


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold		
resteu	Influenza A	Influenza B	Total	70 FOSILIVE	resteu	rositive (II)	70 FOSILIVE	ILI 70	Daseille	Till Callola	
78	15	0	15	19.2%	6	0	0.0%	2.4%	2.1%	3.2%	

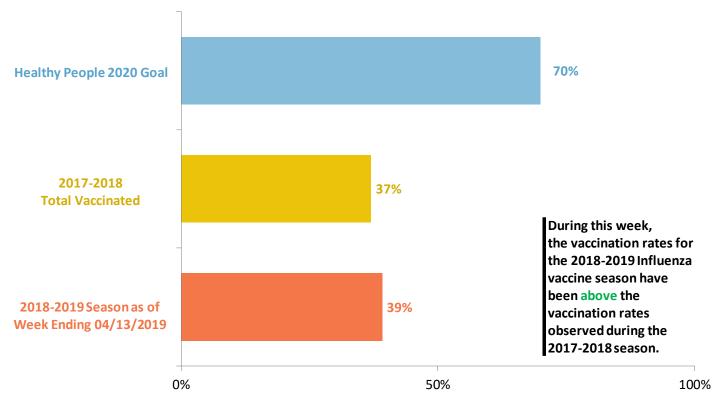
ILI activity trend analysis







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:

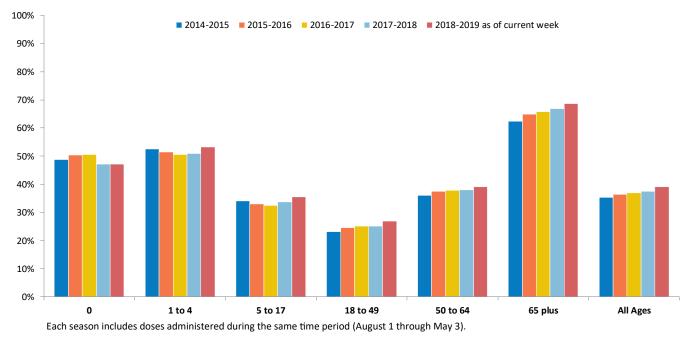
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

