

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 11: Ending March 16, 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>





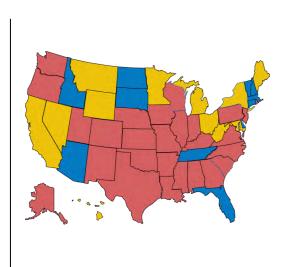
STATE OF WISCONSIN



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



UNITED STATES



ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

Nationwide

ILI: INSUFFICIENT DATA

AT-A-GLANCE:

Weekly Respiratory Report Description

Predominant Virus of the Week: Influenza A/H3 s the predominant virus this week.

CURRENT ALERTS:

- Flu activity has not yet peaked in Wisconsin.
 High influenza activitywill likely continue well into April, 2019.
- 390 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 11, 2019	October 1, 2018 to present
Wisconsin	0	1

8



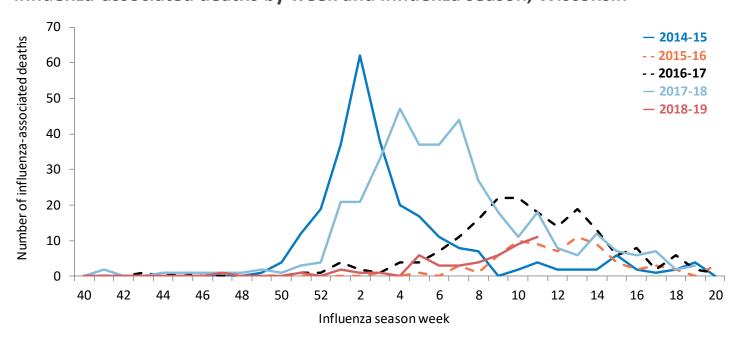
For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



76



Influenza-associated deaths by week and influenza season, Wisconsin



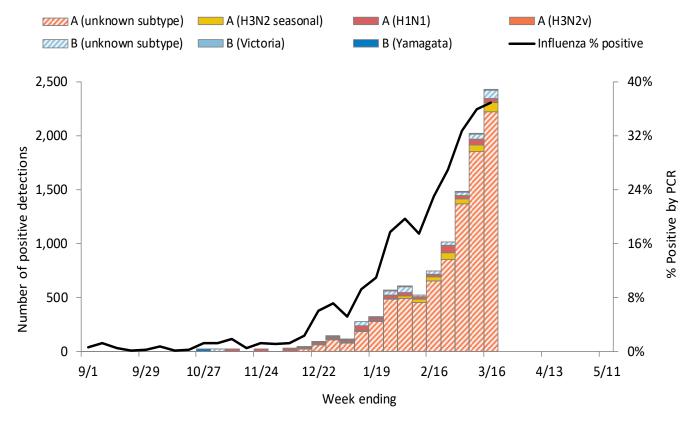
Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to March 16, 2011

		Week 11, 2019	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%	1	5	2.7%		
5-17	0	0	0.0%	0	2	2.3%		
18-49	0	4	8.3%	6	62	3.5%		
50-64	5	9	9.4%	9	189	4.3%		
65+	6	46	7.1%	33	313	5.6%		
All ages	11	59	7.5%	49	1571	5.3%		

Data source: **DPH**, Office of Health Informatics

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

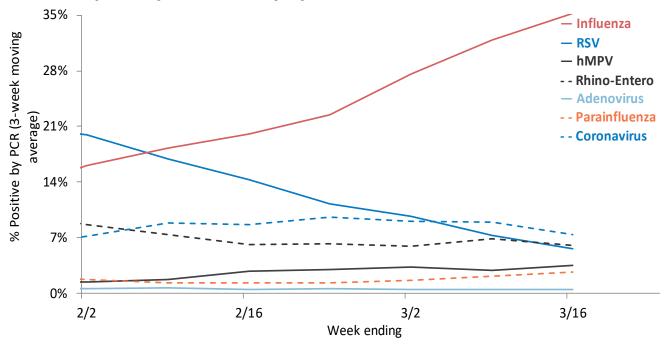


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	4% B (Unknown)	Total
Total positive (n)	468	402	9133	2	21	388	10414
% 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 11: Ending on March 16, 2019

Human metapneumovirus

Rhino-enterovirus

Adenovirus

			,										
		Pos	sitive	Posit	ive	Influenza A				Influenza B			
Respiratory virus	Teste	a ((n)	(%)) H:	N2	2009 H1N1	Unknown	Vio	ctoria	Yamagat	ta	Unknown
Influenza	6570) 24	423	36.9	9% 85		44	2217		0	3		74
Respiratory virus	s T	ested		itive n)	Positive (%)	Pa	rainfluenza 1	Parainfluen	Parainfluenza 2 Parainfluenza 3 Parainfl		rainfluenza 3 Parai		rainfluenza 4
Parainfluenza		930	2	27	2.9%		5	4			17		1
Respiratory virus	s T	ested		itive n)	Positive (%)		CoV 229E	CoV OC4	3	Co	V NL63		CoV HKU1
Coronavirus (Co\	V)	500	2	25	5.0%	8 8			9		0		
Respiratory virus				Tested			Positive (n)	Po		Pos	sitive (%)		
RSV		1615		58				3.6%	, 5				

41

38

3

4.3%

4.0%

0.6%

945

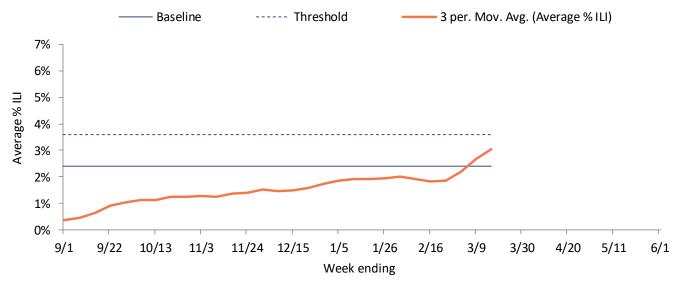
939

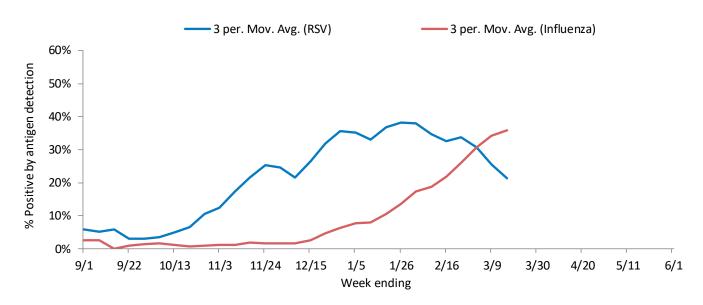
500

WISCONSIN STATE SUMMARY

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)	% POSITIVE	ILI 70	baseille	Tillesilolu	
3281	1180	59	1239	37.8%	224	48	21.4%	3.3%	2.4%	3.6%	

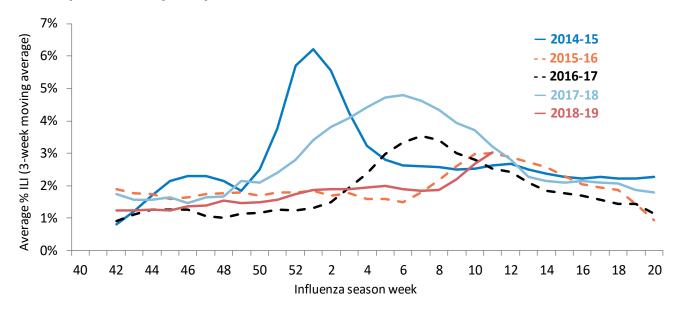
ILI activity trend analysis





WISCONSIN STATE SUMMARY

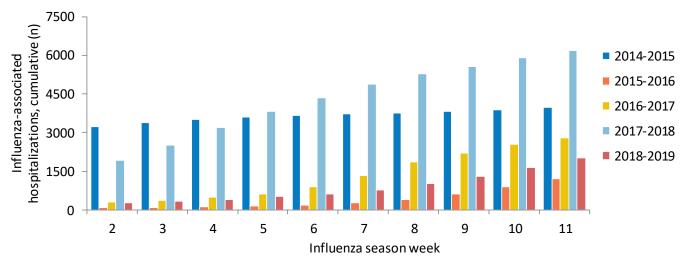
ILI activity trend analysis by influenza season, Wisconsin



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

Age group	Total		Ir	ıfluenza subty	subtype		Admitted	Required		Postpartum
(years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	5	3	0	0	2	0	4	2	0	0
1-4	62	2	3	50	3	4	10	2	0	0
5-17	66	1	2	45	2	16	10	1	0	0
18-49	349	32	8	270	17	22	76	24	25	1
50-64	558	63	21	428	24	22	120	35	0	0
65+	988	86	66	744	54	38	145	43	0	0
Total	2028	187	100	1537	102	102	365	107	25	1

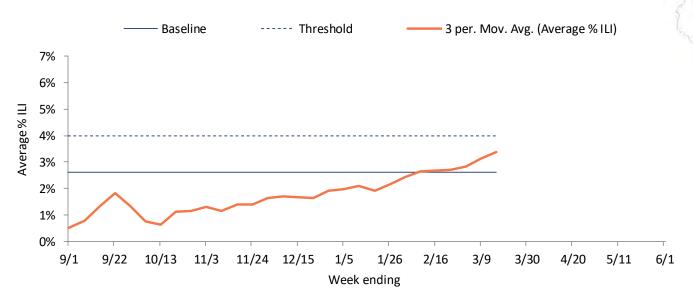
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

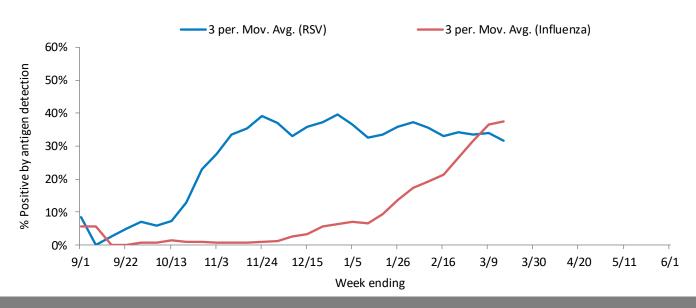


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitive	11.1.07	Dasalina	Throshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
1434	485 36 521		36.3%	100	28	28.0%	3.7%	2.6%	4.0%		

ILI activity trend analysis

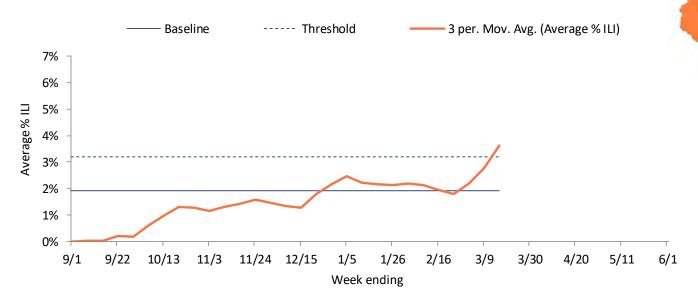


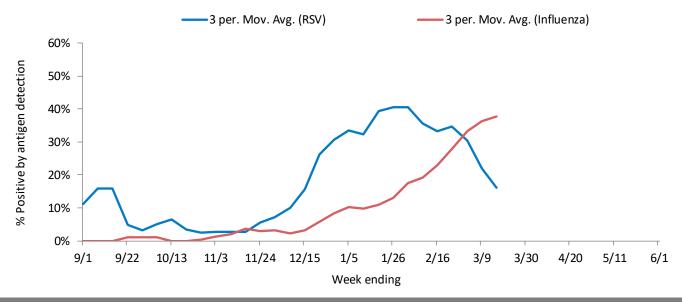


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
726	394	394 4 398 54.8		54.8%	87	17	19.5%	4.4%	1.9%	3.2%	

ILI activity trend analysis

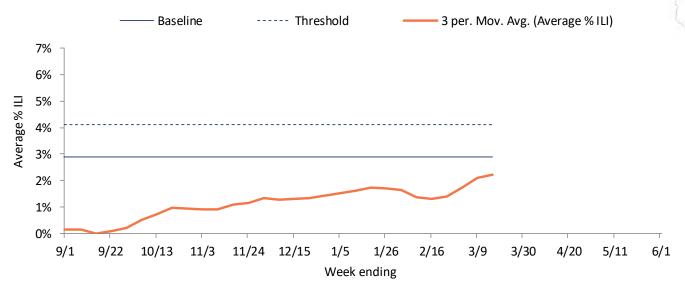


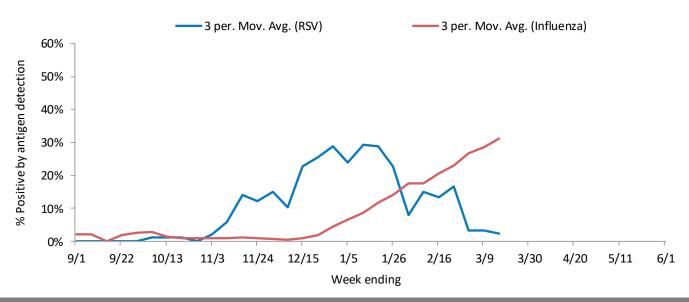




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positive	Tested	Positive (n)	Positive (n) % Positive		Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% POSITIVE	resteu	Positive (II)	% FUSITIVE	ILI %	Daseille	Tillesiloid	
820	270	11	281	34.3%	14	1	7.1%	2.3%	2.9%	4.1%	

ILI activity trend analysis

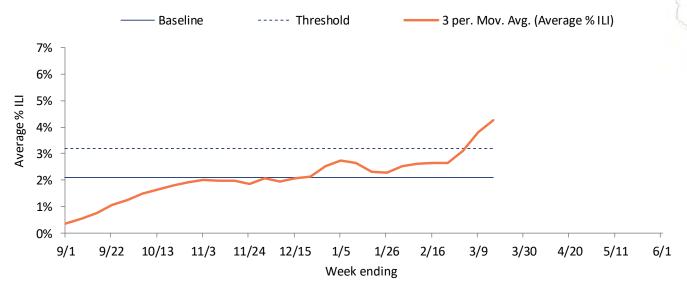


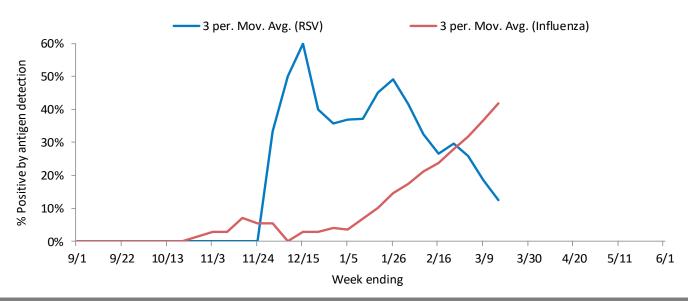


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tostad	Dositivo (n)	% Docitivo	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% Positive	ILI %			
231	101	8	109	47.2%	23	2	8.7%	4.4%	2.1%	3.2%	

ILI activity trend analysis

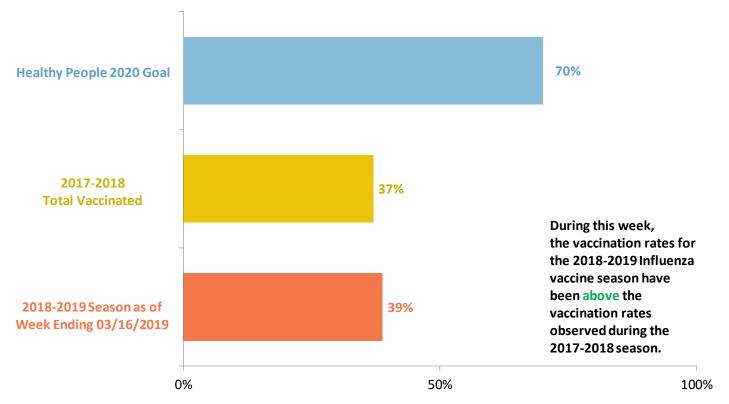






SEASONAL INFLUENZA VACCINATION

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:

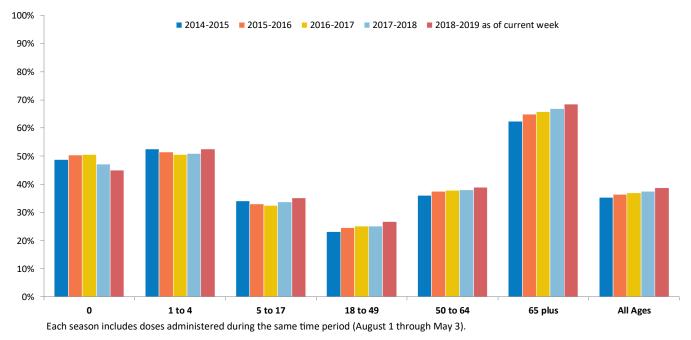
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

