

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 7: Ending February 16, 2019

Wisconsin Department of Health Services | Division of Public Health Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section www.dhs.wi.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov





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 is the predominant virus this week.

CURRENT ALERTS:

- Influenza A/HINI and A/H3N2 are cocirculating in Wisconsin. A/H3N2 is the predominant influenza virus in Wisconsin for week 7.
- 142 flu-associated hospitalizations were reported this week.



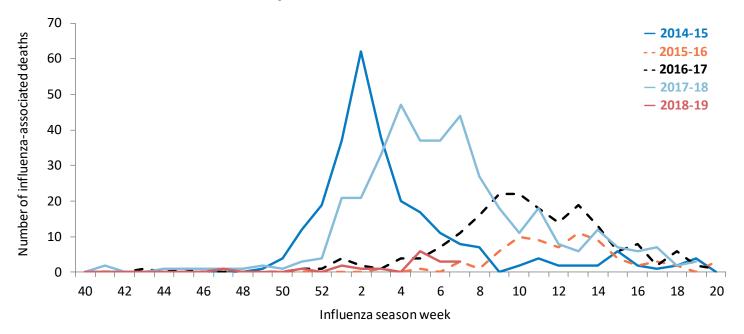
PEDIATRIC DEATHS REPORTED:

INFLUENZA-ASSOCIATED

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

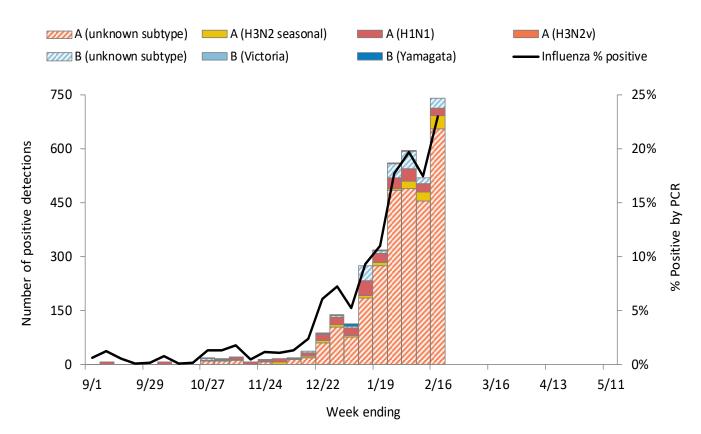
September 30, 2018 to February 16, 2019

		Week 7, 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%	0	2	1.4%		
5-17	0	0	0.0%	0	1	1.7%		
18-49	1	2	8.4%	3	37	3.1%		
50-64	1	6	5.6%	2	129	4.2%		
65+	1	36	6.2%	13	937	5.7%		
All ages	3	44	6.1%	18	1108	5.3%		

Data source: DPH, Office of Health Informatics



Wisconsin positive influenza results and subtypes by PCR

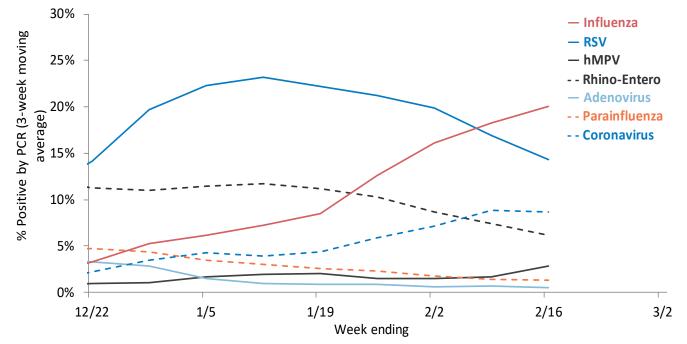


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	94% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	6% B (Unknown)	Total
Total positive (n)	275	143	2851	1	17	207	3494
% of total positive	8%	4%	82%	0%	0%	6%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



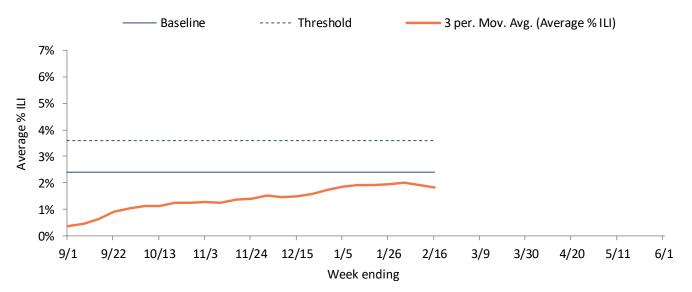
Week 7: Ending on February 16, 2019

Descriptor	Tested	Posit		Positive		tive Positiv		Positive		Influenza A					Influenza B			
Respiratory virus	atory virus Testeu		n) (%))	H3N2		2009 H1N1	Unknown	Vio	toria	Yamagata		Unknown				
Influenza	3220	74	10	23.0	1%	37		21	654		0	0		28				
Respiratory virus	s Te	sted		itive n)		sitive (%)	Para	influenza 1	Parainfluer	iza 2	Paraiı	nfluenza 3	Pa	rainfluenza 4				
Parainfluenza	6	99	1	.0	1.	.4%		0	5			5 0		0				
Respiratory virus	s Tes	ted		itive n)		sitive %)	C	oV 229E	CoV OC4	3	Co	CoV NL63 CoV HKI		CoV HKU1				
Coronavirus (Co	/) 34	48	2	8	8.	.0%		4	17			5		2				
Respiratory	virus				Te	sted			Positive (n)			Pos	itive	(%)				
RSV					12	205			145			12.0%						
Human metapn	Human metapneumovirus 718					32			4.5%									
Rhino-enter	rovirus		681 37				5.4%			, D								
Adenovi	rus				3	48			0				0%					

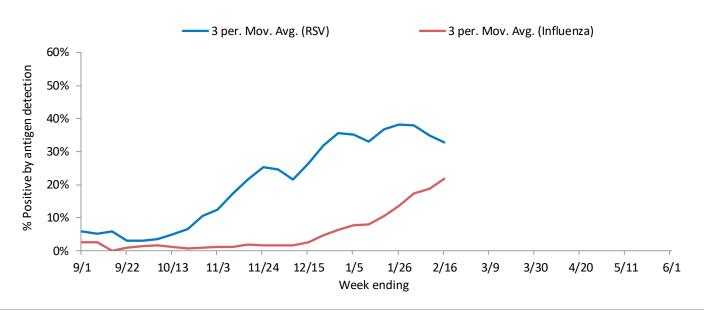


	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tastad	Positive (n) % Positive				Tested	Decitive (n)	1/ Decitive	11.1.0/	Deceline	Thusehold	
Tested In	Influenza A	Influenza B	Total	% POSITIVE	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
1447	350	24	374	25.8%	211	71	33.6%	1.8%	2.4%	3.6%	

ILI activity trend analysis

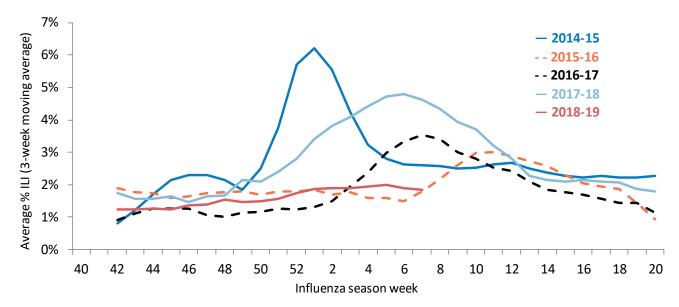


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

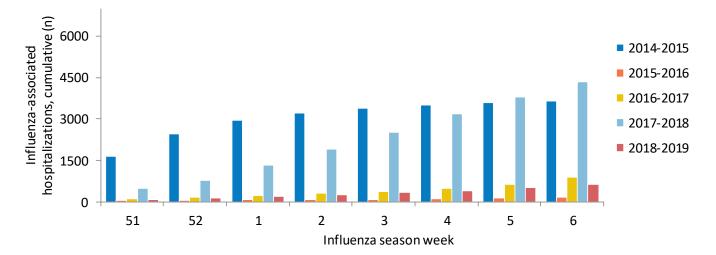
ILI activity trend analysis by influenza season, Wisconsin



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

	Total		Ir	nfluenza subty	уре		Admitted	Required		Postpartum (≤6 weeks)
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	
<1	13	1	0	11	1	0	1	0	0	0
1-4	32	2	1	23	2	4	7	2	0	0
5-17	15	1	1	9	2	2	4	0	0	0
18-49	156	19	1	114	12	10	27	8	8	0
50-64	216	31	4	155	18	8	40	7	0	0
65+	330	39	17	238	27	9	49	20	0	0
Total	762	93	24	550	62	33	128	37	8	0

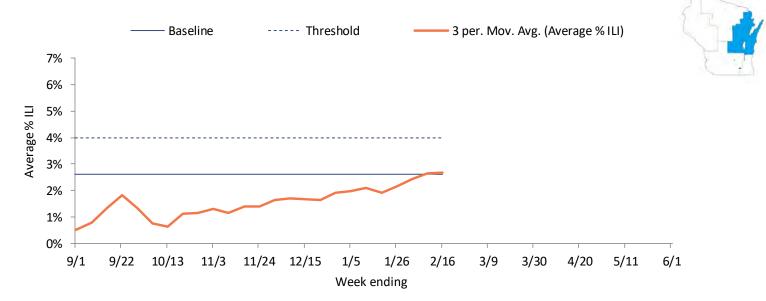
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



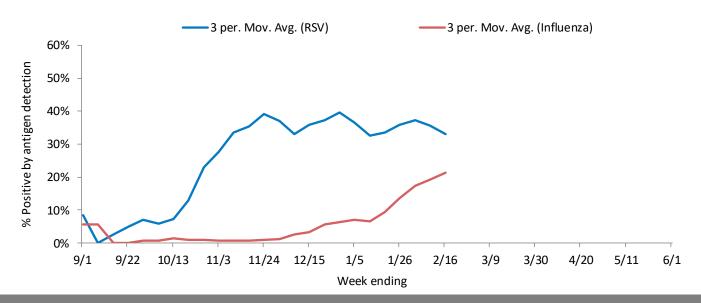
NORTHEASTERN REGION

	Influenz	a rapid antig	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Desitive	Tostod	Docitivo (n)	% Desitive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Inreshold	
668	161	6	167	25.0%	105	37	35.2%	2.2%	2.6%	4.0%	

ILI activity trend analysis



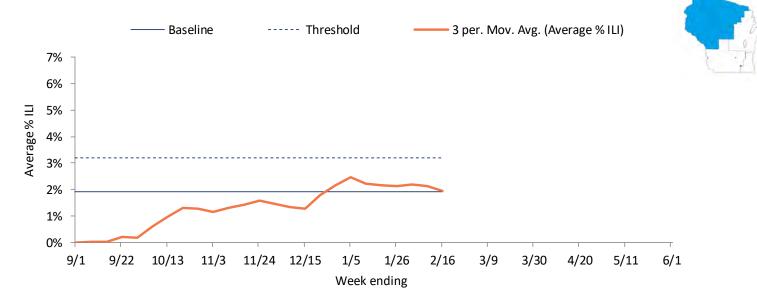
Influenza and RSV trend analysis



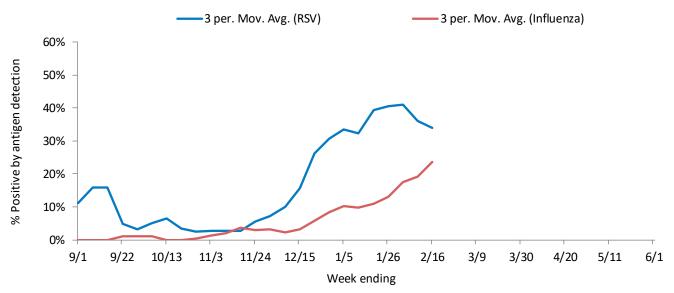
NORTHWESTERN REGION

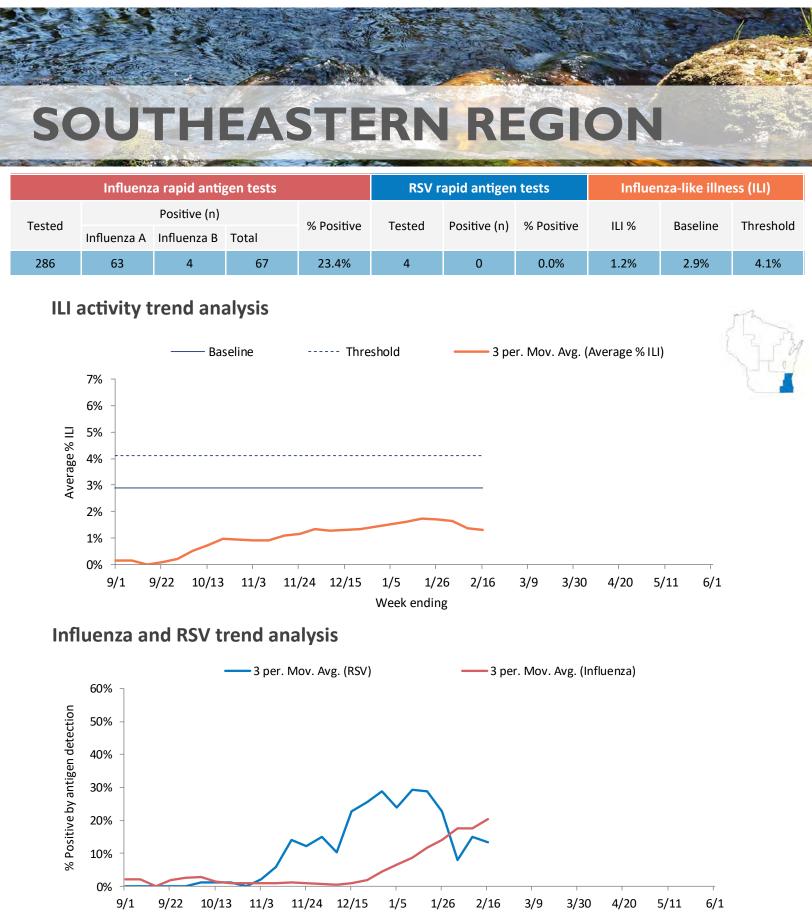
	Influenza rapid antigen tests					apid antigen	tests	Influenza-like illness (ILI)		
Tostad	Positive (n)				Tested	Desitive (n)	% Desitive	ILI %	Baseline	Thrashold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI 70	Baseline	Threshold
437	115	13	128	29.3%	96	33	34.4%	1.7%	1.9%	3.2%

ILI activity trend analysis



Influenza and RSV trend analysis



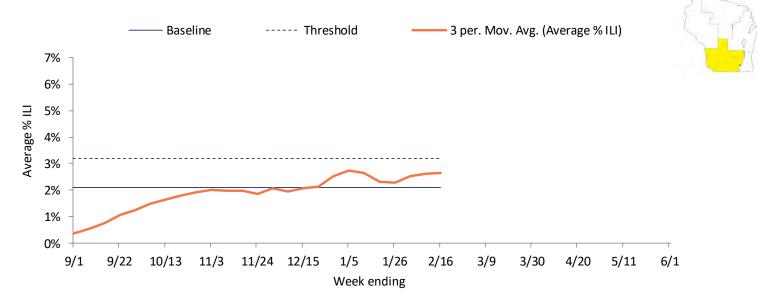


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Week ending
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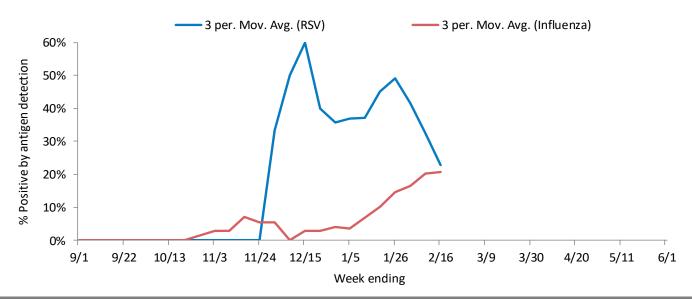
SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Testeu	Influenza A	Influenza B	Total	70 POSITIVE	Testeu	Positive (II)	70 POSILIVE	ILI 70	Dasellille	mesholu	
56	11	1	12	21.4%	6	1	16.7%	2.8%	2.1%	3.2%	

ILI activity trend analysis

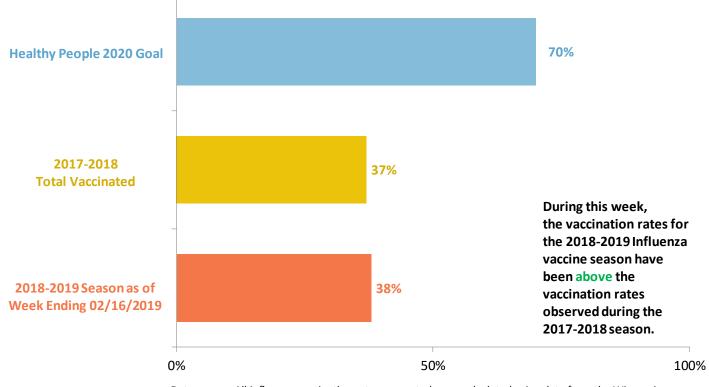


Influenza and RSV trend analysis





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:

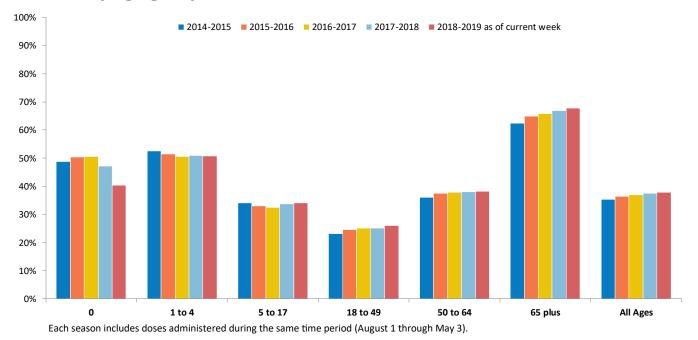
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

It is recommended that **<u>quadrivalent</u>** vaccines containing two influenza B viruses contain the above three viruses and:

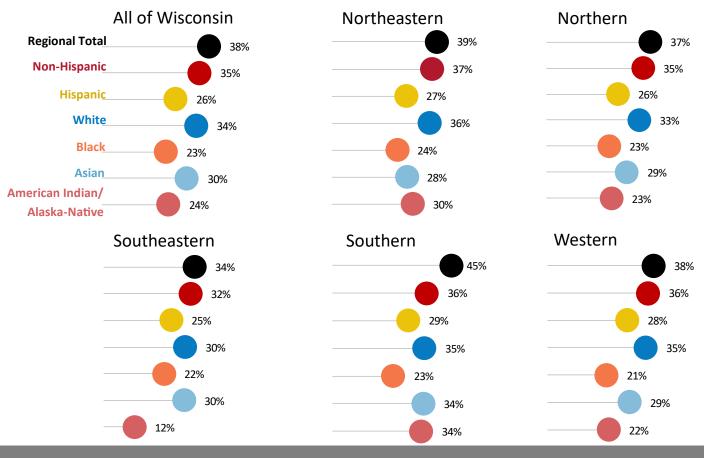
• B/Phuket/3073/2013-like virus (B/Yamagata lineage)

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



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