

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 10: Ending March 9, 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>



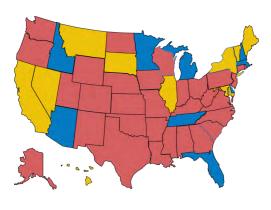


STATE OF WISCONSIN



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 is the predominant virus this week.

CURRENT ALERTS:

- Influenza A/HINI and A/H3N2 are cocirculating in Wisconsin. A/H3N2 was predominant this week.
- 338 flu-associated hospitalizations were reported this week.



PEDIATRIC DEATHS REPORTED:

Week 10, 2019

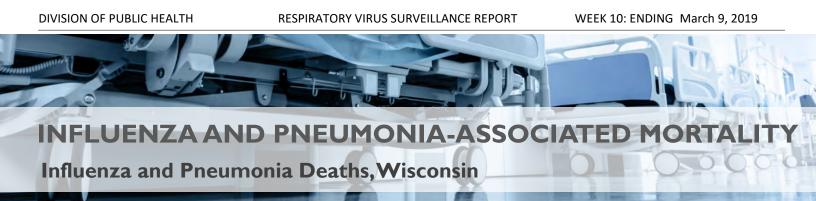
INFLUENZA-ASSOCIATED

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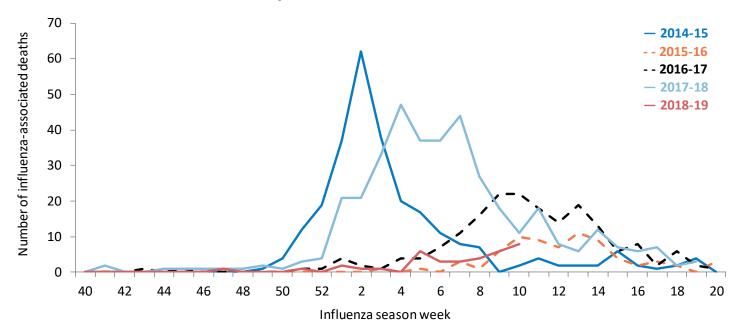
For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



October 1, 2018



Influenza-associated deaths by week and influenza season, Wisconsin



Influenza and pneumonia-associated deaths by age group, 2018-2019 season

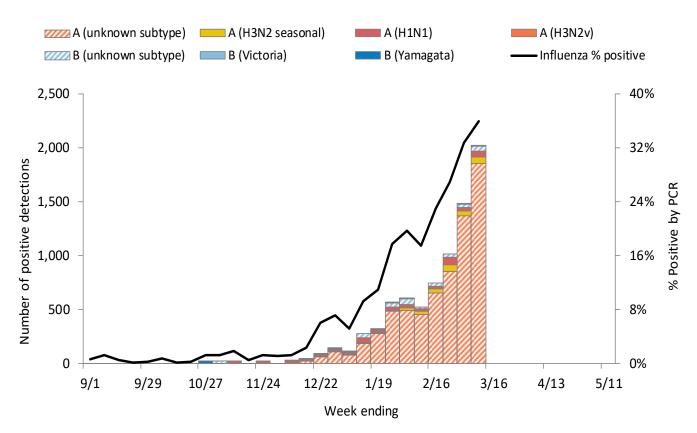
September 30, 2018 to March 9, 2019

		Week 10, 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	3.0%			
5-17	0	0	0.0%	0	2	2.5%			
18-49	1	1	4.5%	5	55	3.4%			
50-64	1	6	5.3%	4	169	4.2%			
65+	6	38	6.0%	26	1217	5.6%			
All ages	8	45	6.1%	36	1448	5.2%			

Data source: DPH, Office of Health Informatics



Wisconsin positive influenza results and subtypes by PCR

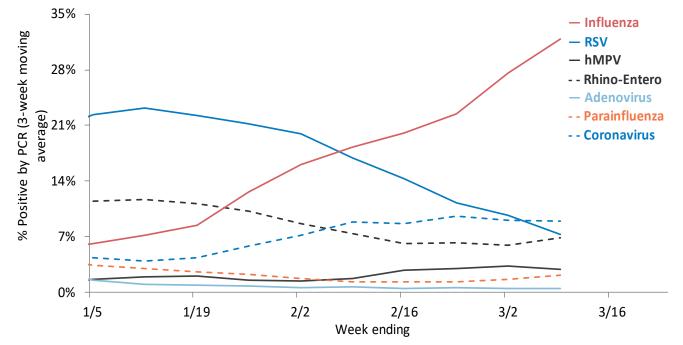


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	4% B (Unknown)	Total
Total positive (n)	424	317	6916	2	18	314	7991
% of total positive	5%	4%	87%	0%	0%	4%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



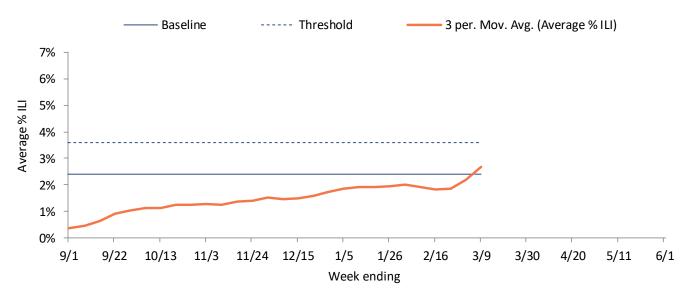
Week 10: Ending on March 9, 2019

Description	T	Posi	tive	Positi	ive			Influenza A				Influenz	a B	
Respiratory virus	Tested	(n	(n) (5) H3N		2	2009 H1N1	Unknown	Vic	ctoria Yamaga		ta	Unknown
Influenza	5598	20	16	36.0	%	59		52	1852		1	0		52
Respiratory virus	s Te	sted		itive n)		sitive (%)	Para	influenza 1	Parainfluen	za 2	Paraiı	ainfluenza 3 P		rainfluenza 4
Parainfluenza	7	65	2	2	2.	.9%		3	3			16		0
Respiratory virus	s Tes	sted	Posi (r	itive n)		sitive %)	Co	oV 229E	CoV OC4	3	Co	V NL63		CoV HKU1
Coronavirus (Co	V) 3	83	3	0	7.	.8%		4	20			6		0
Respiratory	y virus				Tes	sted			Positive (n)			Pos	itive	(%)
RSV					15	555			73				4.7%	, D
Human metapn	eumovi	rus			7	74			23	3.0%		,		
Rhino-enter	rovirus				7	54			63			8.4%		, D
Adenovi	rus				3	83			0				0%	

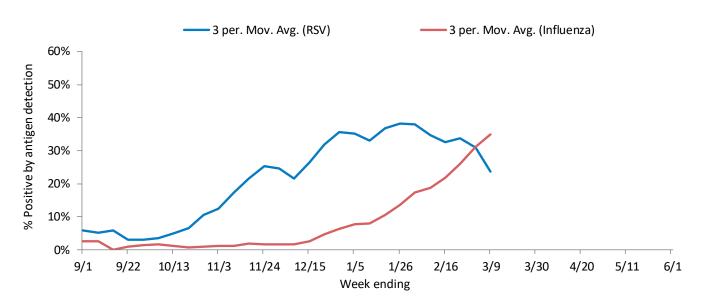


Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Testeu	Influenza A	Influenza B	Total	% Positive	Testeu						
2494	912	16	928	37.2%	158	19	12.0%	3.2%	2.4%	3.6%	

ILI activity trend analysis

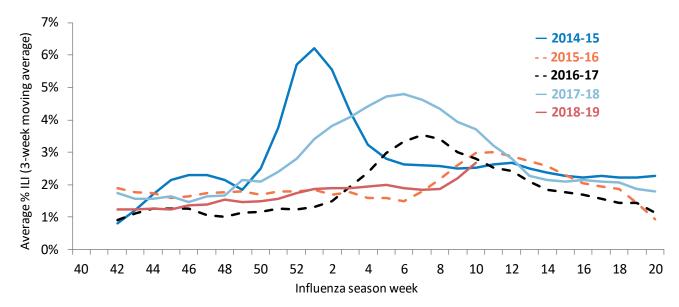


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

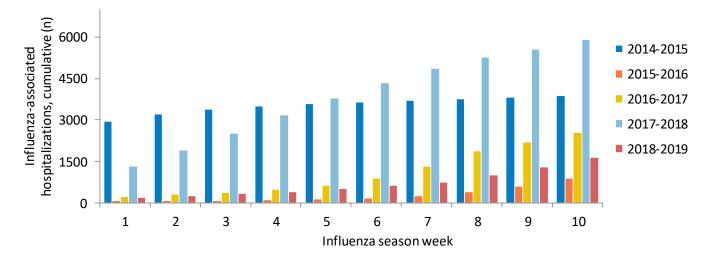
ILI activity trend analysis by influenza season, Wisconsin



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

	Total		Ir	nfluenza subty	уре		Admitted	Required		Doctoortum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	Postpartum (≤6 weeks)
<1	24	2	0	21	1	0	3	1	0	0
1-4	53	2	2	42	2	5	9	2	0	0
5-17	59	1	2	39	2	15	9	1	0	0
18-49	295	27	7	229	15	17	65	20	21	1
50-64	453	52	15	343	23	20	96	27	0	0
65+	754	69	51	563	44	27	113	34	0	0
Total	1638	153	77	1237	87	84	295	85	21	1

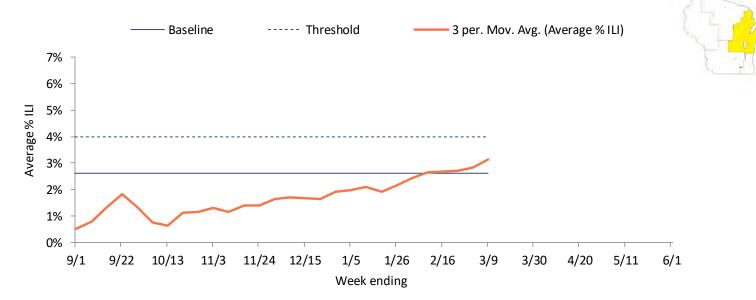
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

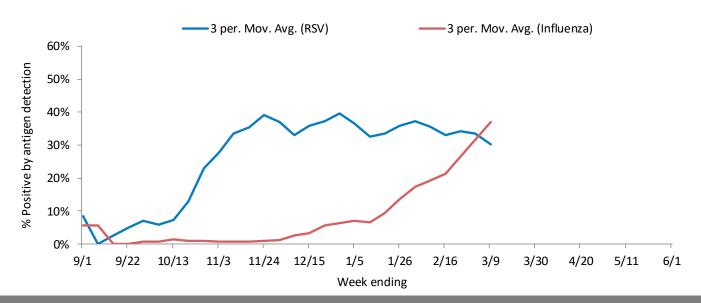




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tastad		Positive (n)		% Desitive	Tastad	Decitive (n)	% Desitive	11.1.0/	Deceline	Thrashold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
908	368	6	374	41.2%	40	10	25.0%	3.4%	2.6%	4.0%	

ILI activity trend analysis

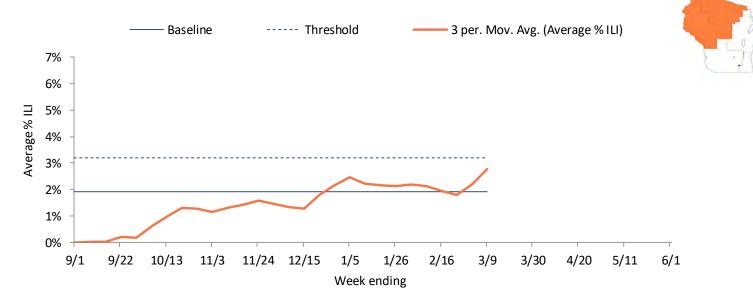


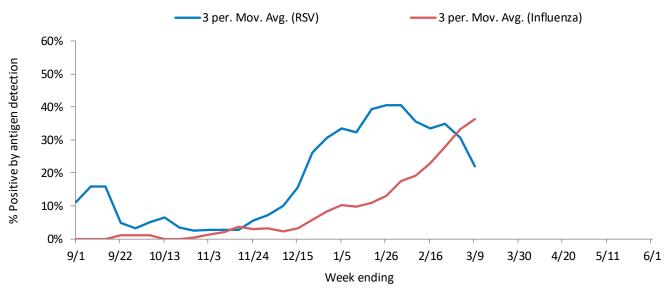


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Desitive	Tostad	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Testeu	Influenza A	Influenza B	Total	% Positive	Tested		% POSITIVE				
739	267	0	267	36.1%	96	8	8.3%	3.4%	1.9%	3.2%	

ILI activity trend analysis

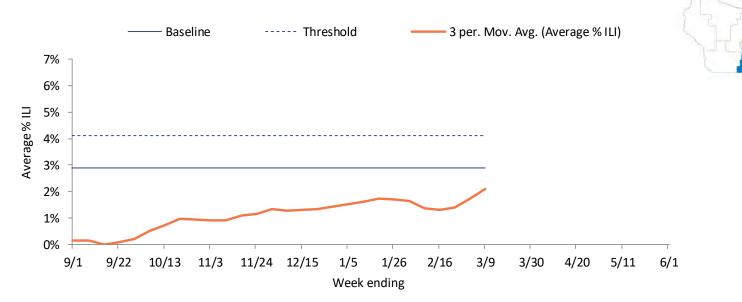


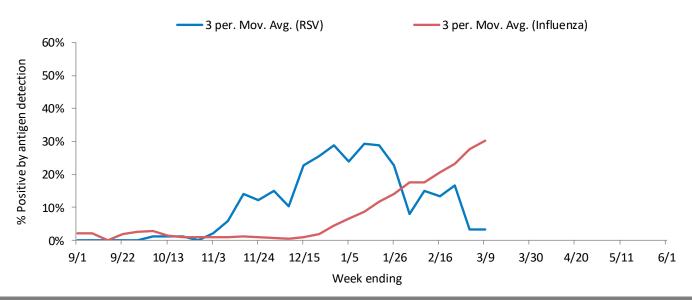




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)				Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive	Testeu	rositive (II)	70 F USILIVE	ILI 70	Daseille	mesholu	
740	237	5	242	32.7%	7	0	0.0%	2.3%	2.9%	4.1%	

ILI activity trend analysis

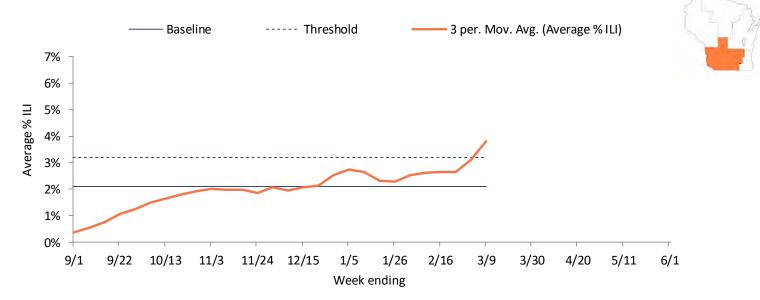


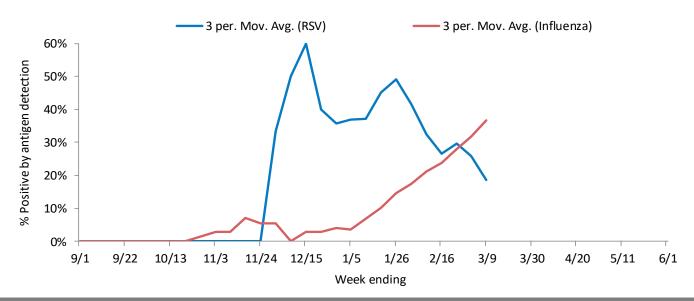


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested		Positive (n)		% Positivo	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
resteu	Influenza A	Influenza B	Total	% Positive				ILI 70			
107	40	5	45	42.1%	15	1	6.7%	4.9%	2.1%	3.2%	

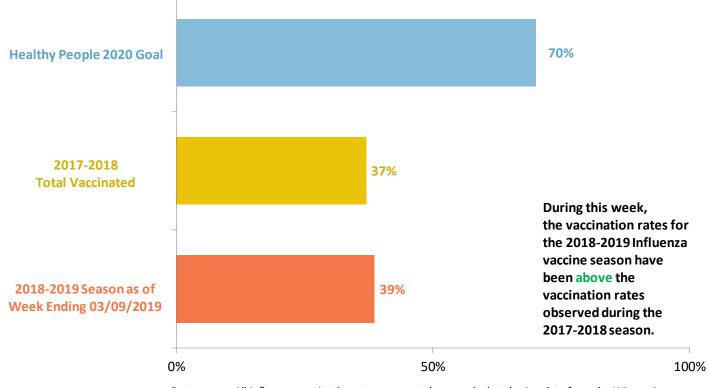
ILI activity trend analysis







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:

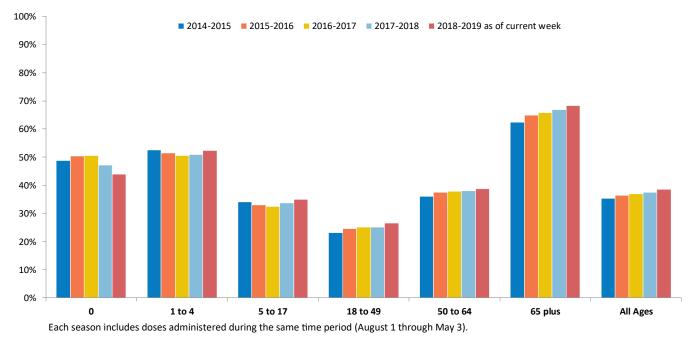
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

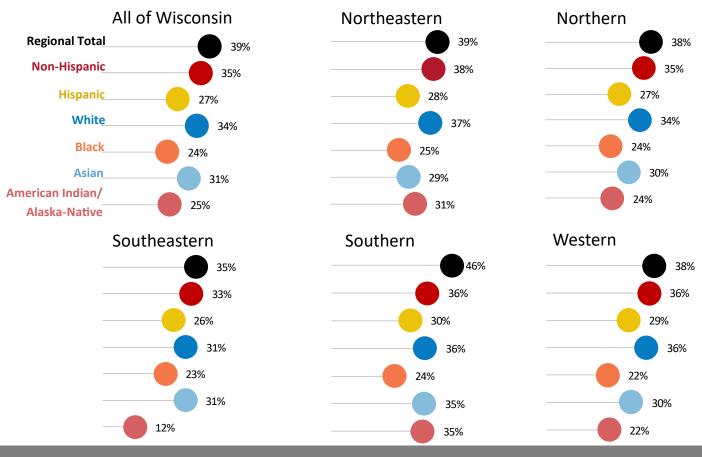
• B/Phuket/3073/2013-like virus (B/Yamagata lineage)

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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