

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 14: Ending April 6, 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>





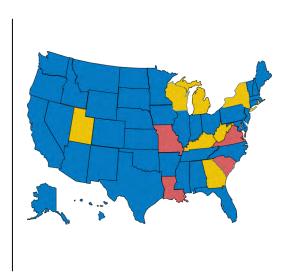




REGION V OF US (WI, MN, IL, MI, OH, IN)



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 is the predominant virus this week.

CURRENT ALERTS:

- Influenza activity is lowing declining statewide.
- 257 flu-associated hospitalizations were reported this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

Week 14, 2019	to present
0	2



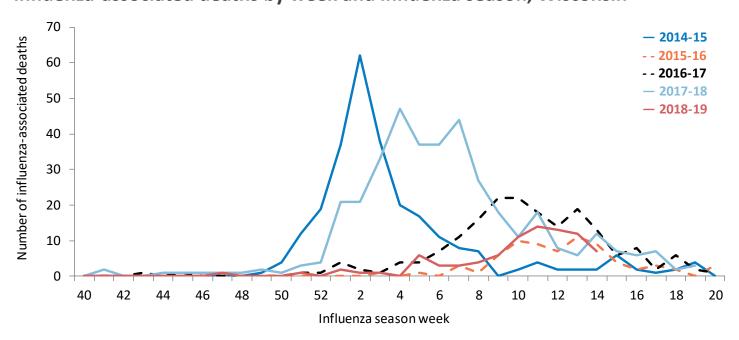
For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



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Influenza-associated deaths by week and influenza season, Wisconsin

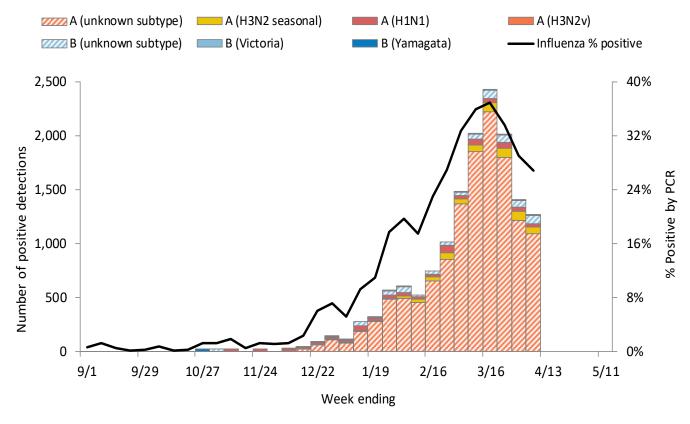


Influenza and pneumonia-associated deaths by age group, 2018-2019 season September 30, 2018 to April 6, 2019

		Week 14,	2019	Cumulative, 2018-2019 season					
Age group (years)	Infl uen za (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	2.4%			
5-17	0	1	33.3%	0	3	3.1%			
18-49	0	2	4.4%	11	69	3.6%			
50-64	2	4	4.8%	19	214	4.6%			
65+	5	47	7.4%	55	1497	5.8%			
All ages	7	54	7.0%	86	1788	5.5%			

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

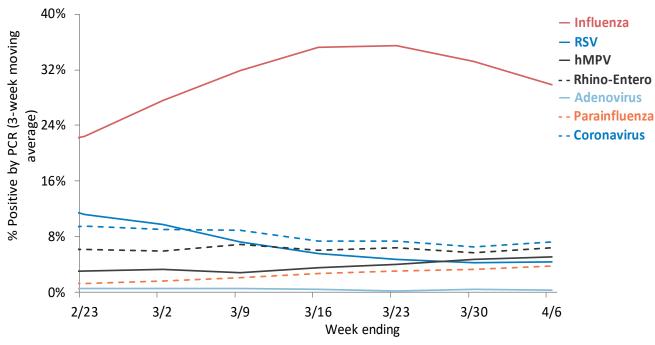


Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	4% B (Unknown)	Total
Total positive (n)	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 14: Ending on April 6, 2019

Adenovirus

WCCK 14. Ellali		, p	,										
		Posi	tive	Positi	ive		Influenza A				Influenz	а В	
Respiratory virus	Tested	(r	1)	(%)) нз	N2	2009 H1N1	Unknown	Victoria		Yamagata		Unknown
Influenza	4692	12	60	26.9	% 6	4	26	1089		2	1		78
Respiratory virus	Те	sted		itive n)	Positive (%)	Para	ainfluenza 1	Parainfluen	za 2	Parai	nfluenza 3	Pai	rainfluenza 4
Parainfluenza	7	86	3	5	4.5%		2	4 26		26		3	
Respiratory virus	Tes	sted		itive n)	Positive (%)	C	CoV 229E	CoV OC4	3	CoV NL63			CoV HKU1
Coronavirus (Co\	/) 3	98	2	8	7.0%		7	14			7		0
Respiratory	virus				Tested			Positive (n)			Pos	itive	(%)
RSV					1375	56					4.1%		
Human metapn	eumovi	rus			807			43				5.3%	
Rhino-enter	ovirus				765			49			6.4%		

1

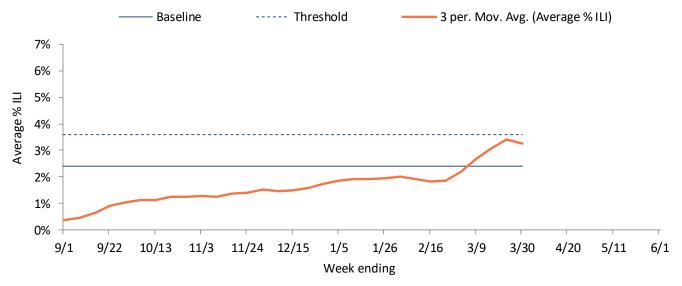
0.3%

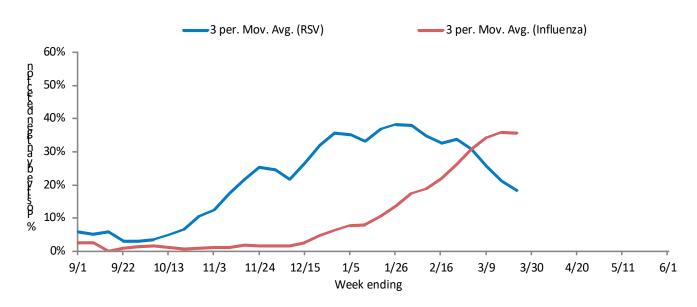
398

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/ Docitive	11.1.07	Danalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Tillesilolu	
2191	488	54	542	24.7%	133	18	13.5%	2.7%	2.4%	3.6%	

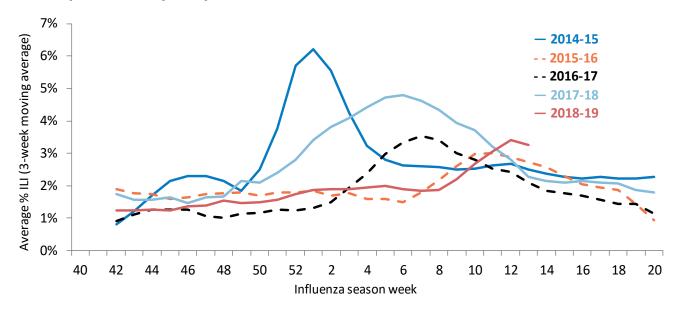
ILI activity trend analysis





WISCONSIN STATE SUMMARY

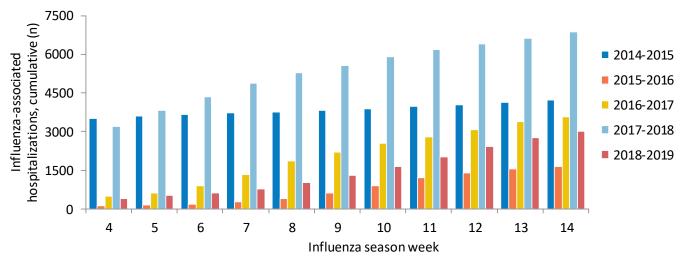
ILI activity trend analysis by influenza season, Wisconsin



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

Ago group	Total		Ir	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	44	5		35	2	2	6	2	0	0
1-4	88	3	3	70	4	8	16	4	0	0
5-17	102	2	3	78	5	14	16	2	0	0
18-49	462	40	16	358	21	27	95	33	31	2
50-64	776	86	41	595	27	27	163	45	0	0
65+	1545	115	112	1194	77	47	217	56	0	0
Total	3017	251	175	2330	136	125	513	142	31	2

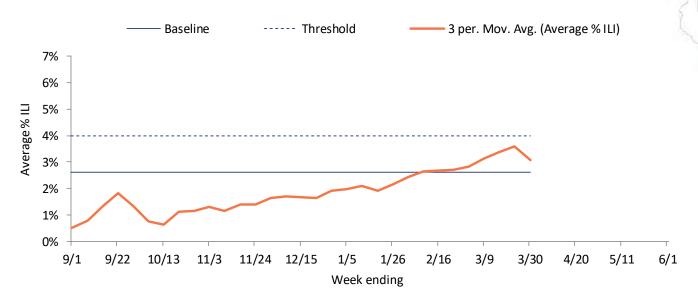
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

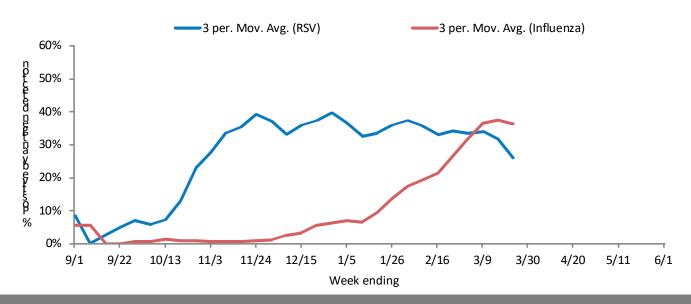


NORTHEASTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostad	Docitive (n)	0/ Desitive	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Tillesilolu	
987	203 27 230		23.3%	84	15	17.9%	2.6%	2.6%	4.0%		

ILI activity trend analysis



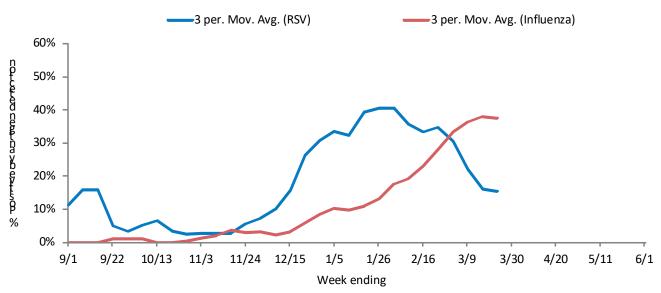


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Desitive	Tostad	Docitive (n)	0/ Desitive	11.1.0/	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Daseille	Tillesilolu	
386	81	3	84	21.8%	38	2	5.3%	2.5%	1.9%	3.2%	

ILI activity trend analysis

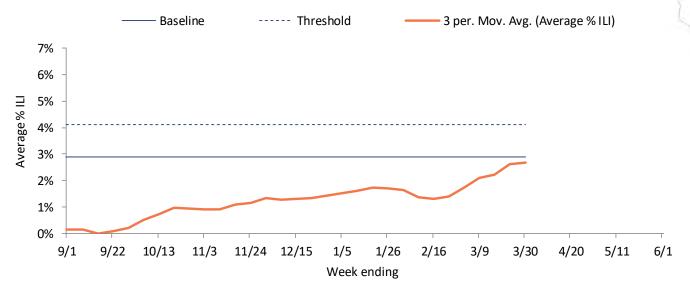


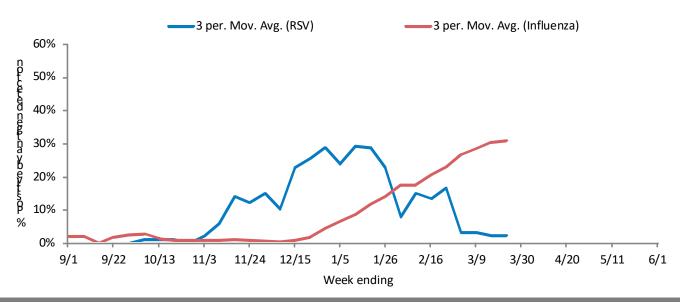




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		0/ Docitivo	Tostod	Dositivo (n)	0/ Docitivo	11.1.0/	Dasalina	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Tillesiloiu	
756	184	23	207	27.4%	8	0	0.0%	2.3%	2.9%	4.1%	

ILI activity trend analysis

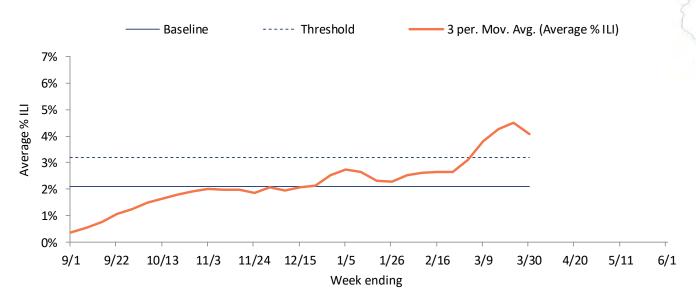


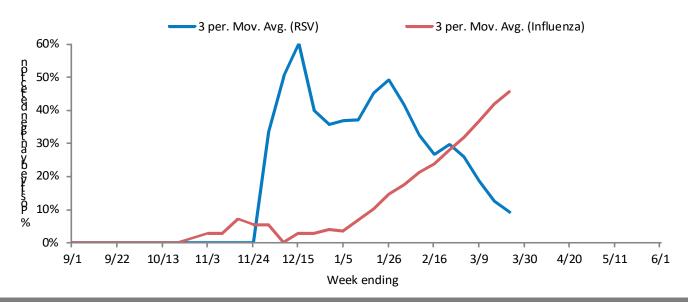


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
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	mresnoia	
62	20	1	21	33.9%	3	1	33.3%	3.5%	2.1%	3.2%	

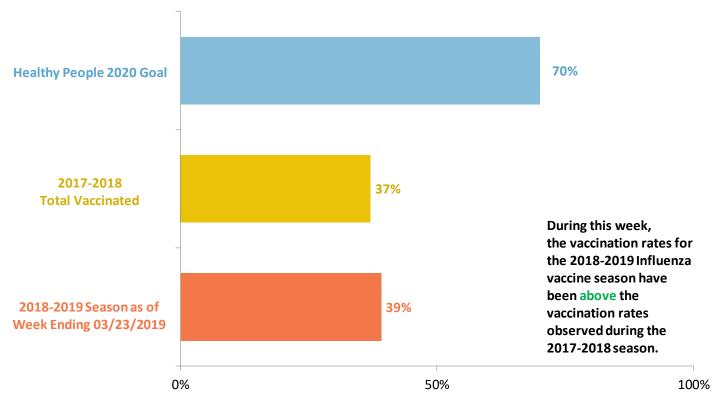
ILI activity trend analysis







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:

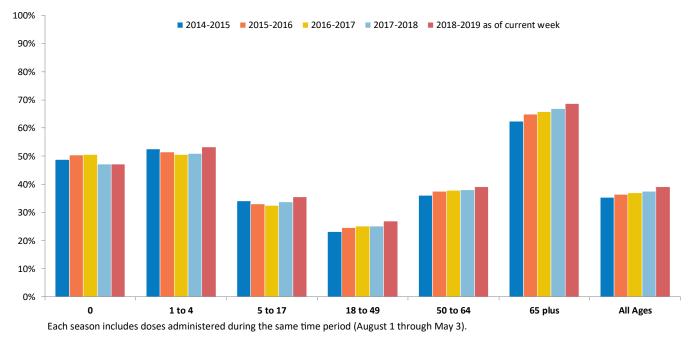
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

