

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 14, Ending April 4, 2020

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

www.dhs.wisconsin.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov





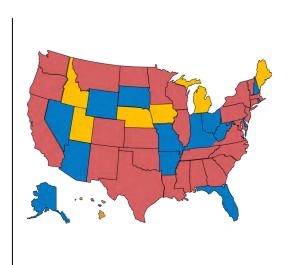




REGION V OF US (WI, MN, IL, MI, OH, IN)



UNITED STATES



ILI: HIGH LEVELS

ILI: MODERATE LEVELS

ILI: BELOW BASELINE

ILI: INSUFFICIENT DATA

AT-A-GLANCE:

Predominant Viruses of the Week:

Rhino/enterovirus and COVID-19 were the predominant viruses this week.

Current Alerts:

The percentage of deaths attributed to pneumonia and influenza (P&I) increased for the fifth consecutive week. P&I last week was 10.3%, far exceeding the state threshold of 6.8%.

P&I percentage nationally also exceeds threshold levels.

Based on the low incidence of influenza statewide and nationally, the increase in P&I deaths is likely due to COVD-19..

Additional data on COVID-19 in Wisconsin can be found at

https://www.dhs.wisconsin.gov/covid-19/data.htm

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 14, 2020	October 1, 2019 to present
Wisconsin	0	3
Nationwide	4	166



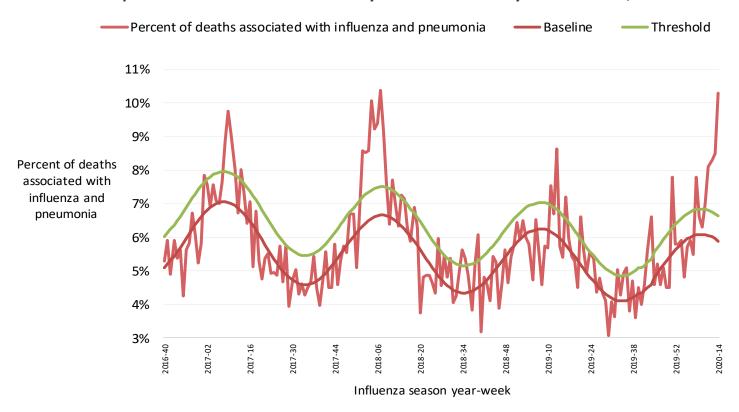
For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/





Influenza and Pneumonia Deaths, Wisconsin

Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin



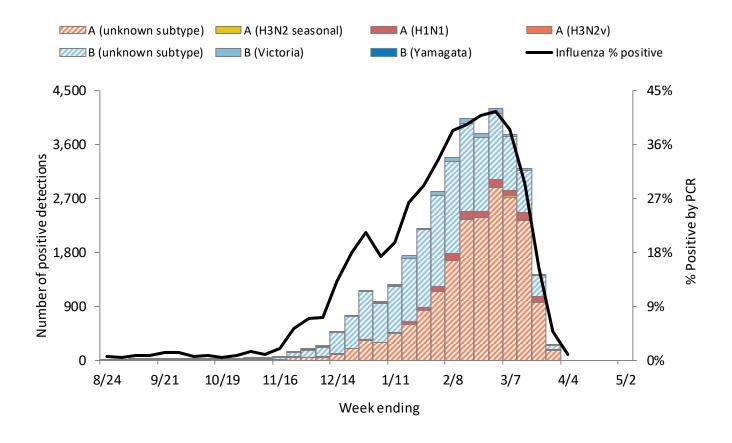
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

Influenza season week	Influenza- associated deaths (I)	Pneumonia- associated deaths (P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
12	19	92	8.3%	6.0%	6.8%
13	13	93	8.5%	6.0%	6.8%
14 Preliminary Data	7	99	10.3%	6.0%	6.8%
Seasonal total	167	2005	5.6%	NA	NA

Data source: DPH, Office of Health Informatics

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

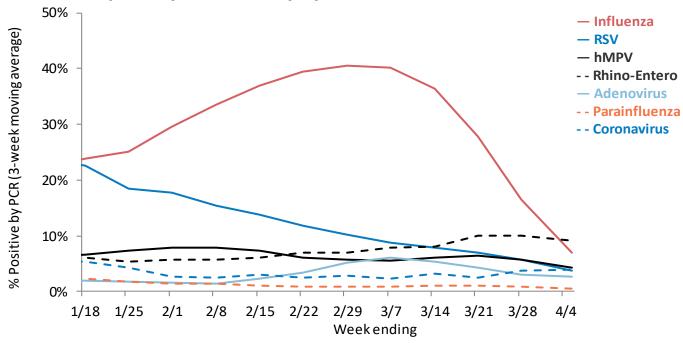


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	57% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	43% B (Unknown)	Total
Total positive (n)	1003	168	19587	618	10	14770	36156
% of total positive	3%	0%	54%	2%	0%	41%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



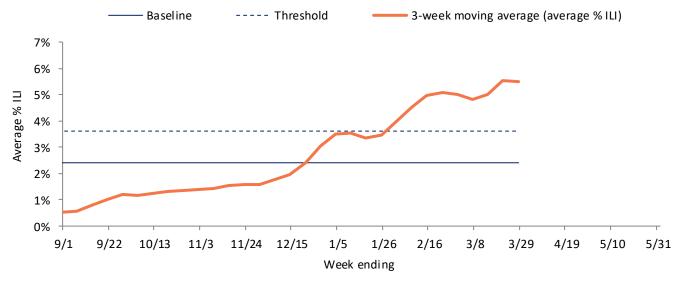
Week 14: Ending on April 4, 2020

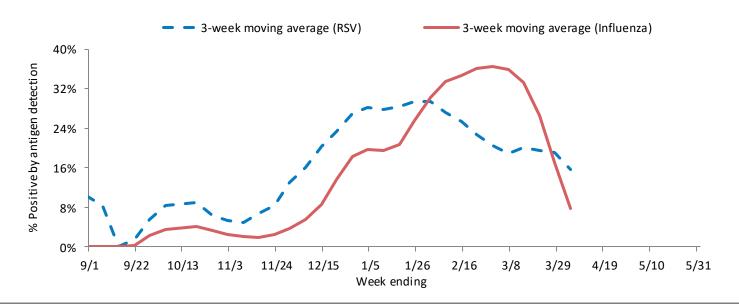
Barrier to the second	T1-1	Posit	tive	Positi	ve		Influenza A				Influenz	Influenza B	
Respiratory virus	Tested	(n)	(%)	H	13N2	2009 H1N1	Unknown	Vic	toria	Yamaga	ta	Unknown
Influenza	3937	38	3	1.0%	6	0	4	17		0	0		17
Respiratory virus	s Tes	ted	Posi (r	itive 1)	Positiv (%)	e Pa	rainfluenza 1	Parainfluen	za 2	Paraiı	rainfluenza 3		rainfluenza 4
Parainfluenza	10	79	1	L	0.1%		0	0	<u>:</u>		1		0
Respiratory virus	Tes	ted	Posit		Positive (%)	e	CoV 229E	CoV OC4	3	Co\	/ NL63		CoV HKU1
Coronavirus	6	0	2		3.3%		0	0			2		0
Respiratory	virus				Tested			Positive (n)			Pos	itive	(%)
RSV					2176			42				1.9%	ó
Human metapn	Human metapneumovirus		1		1086	86		25			2.3%		ó
Rhino-enter	rovirus				997	97		65			6.5%		ó
Adenovi	rus				60			1				1.7%	ó

WISCONSIN STATE SUMMARY

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	Docalina	Throshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
717	7	4	11	1.5%	54	7	13.0%	3.5%	2.4%	3.6%	

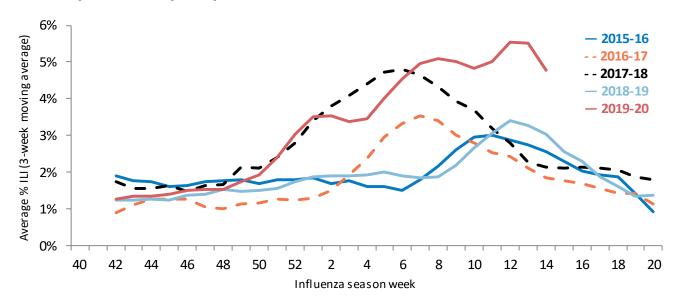
ILI activity trend analysis





WISCONSIN STATE SUMMARY

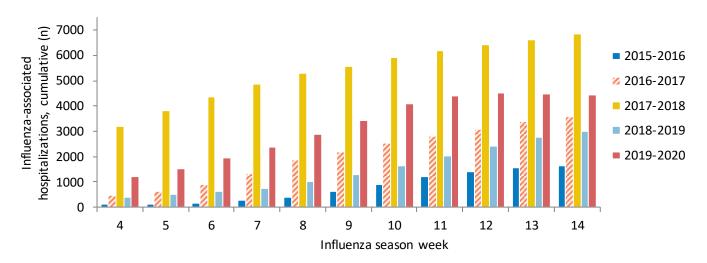
ILI activity trend analysis by influenza season, Wisconsin



Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2019 to present

Age group	Total		In	fluenza subt	ype		Admitted	Required		Postpartum
(years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
	(11)	117147	(113142)	(OTIKITOWIT)		reported		ventuation		
<1	87	5	0	35	26	21	12	4		
1-4	205	6	0	63	68	68	29	9		
5-17	313	4	0	64	98	147	28	11		
18-49	881	51	2	423	189	216	124	41	71	13
50-64	1108	95	6	774	134	99	185	53		
65+	1848	166	20	1292	272	98	246	58		
Total	4442	327	28	2651	787	649	624	176	71	13

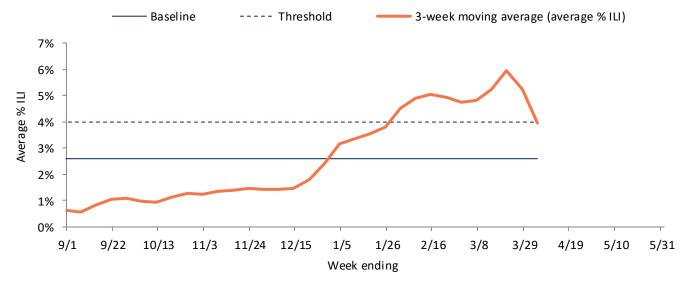
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

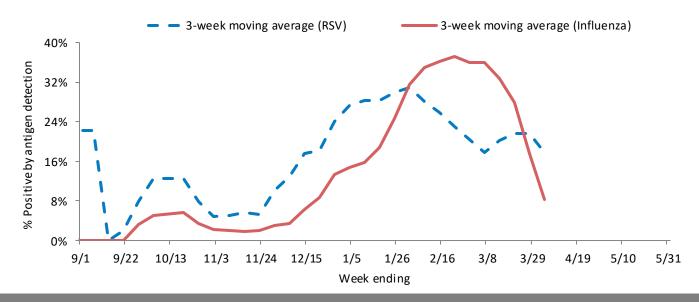


NORTHEASTERN REGION

Influenza rapid antigen tests				RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tostad		Positive (n)		% Positive	Tostad	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	inresnoia
196	3	1	4	2.0%	24	4	16.7%	2.4%	2.6%	4.0%

ILI activity trend analysis

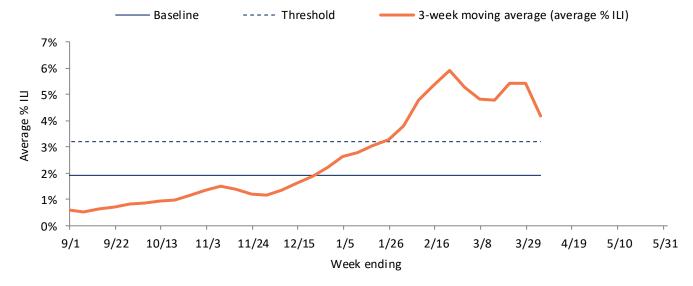


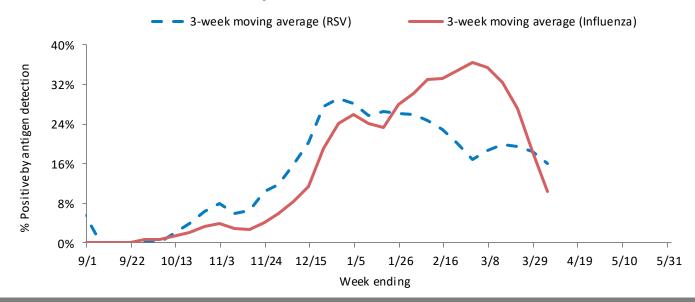


NORTHWESTERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tookad		Positive (n)		0/ Davitive	Taskad	Dasitiva (n)	0/ Davitiva	11.1.07	Danalina	Thusabald	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
160	3	1	4	2.5%	26	3	11.5%	2.1%	1.9%	3.2%	

ILI activity trend analysis

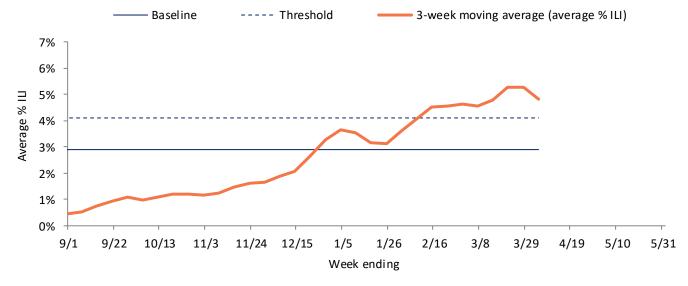


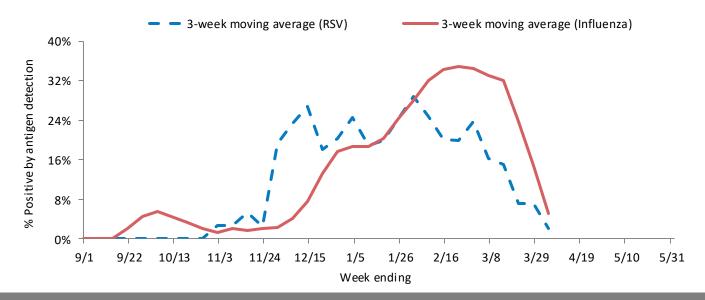




Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
		Positive (n)		0/ 5 111		5 ()	0/ 5		- II		
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
342	1	2	3	0.9%	3	0	0.0%	4.0%	2.9%	4.1%	

ILI activity trend analysis

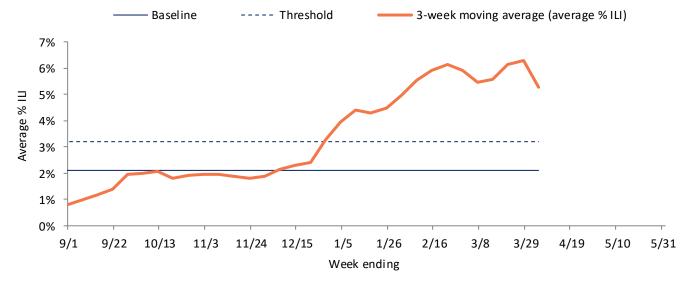


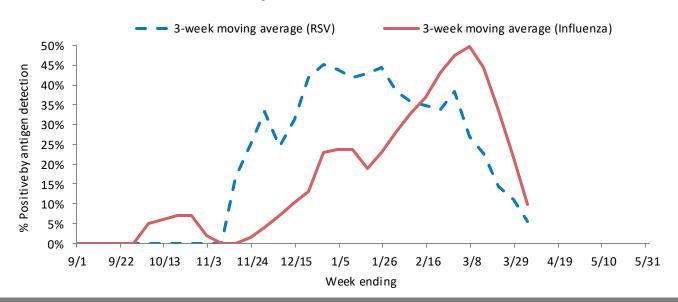


SOUTHERN REGION

Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
		Positive (n)									
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
35	2	2	4	11.4%	8	0	0.0%	5.2%	2.1%	3.2%	

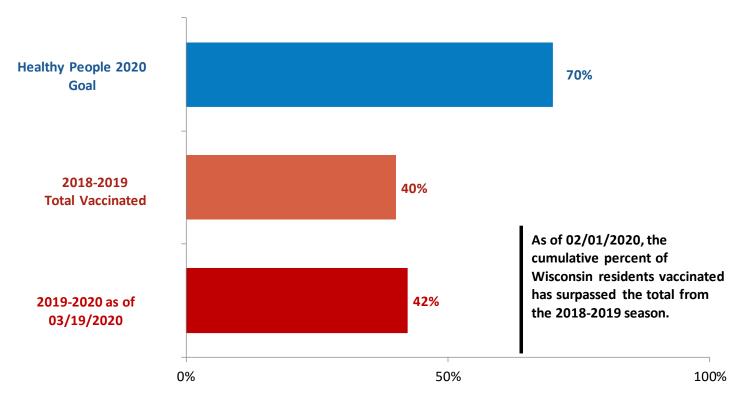
ILI activity trend analysis





SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2019-2020 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 2019-2020:

The **trivalent** vaccines for use in the 2019-2020 influenza season contain the following:

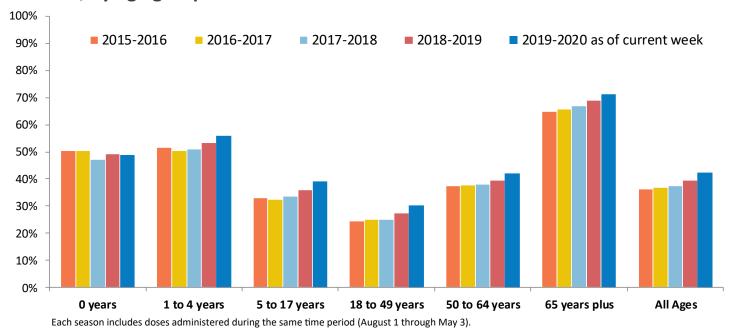
- A/Brisbane/02/2018 (H1N1)pdm09-like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

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

B/Phuket/3073/2013-like virus (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, 2019-2020 influenza season

