

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 5 Ending February 1, 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





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 Viruses of the Week:

Influenza B, Influenza A/H1 and RSV are the predominant viruses this week.

CURRENT ALERTS:

Influenza B (Victoria lineage) continues to be the predominant influenza virus in Wisconsin.

An increase in influenza A/HI has been identified nationally and in Wisconsin.

335 influenza hospitalizations were reporterd this week.

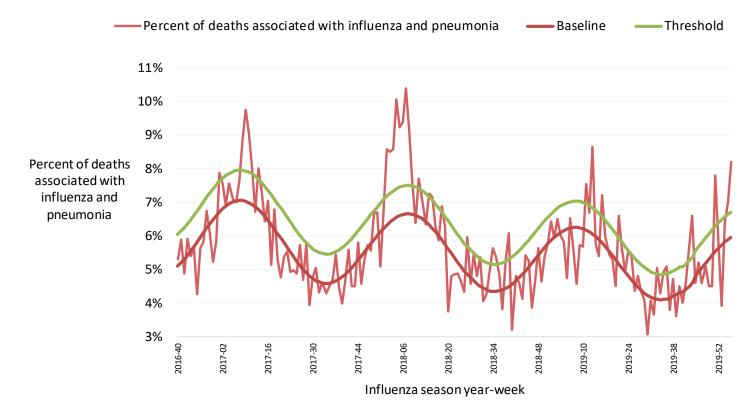
INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 5, 2020	October 1, 2019 to present
Wisconsin	0	1
Nationwide	10	78

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



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



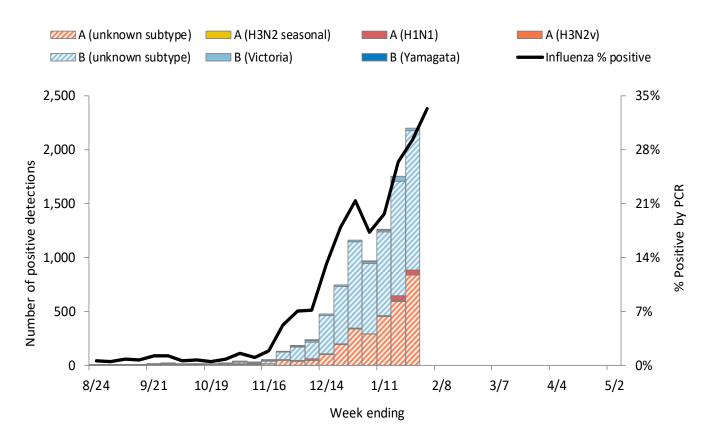
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
3	1	60	5.2%%	5.9%	6.7%
4	5	72	7.1%	6.0%	6.8%
5 Preliminary Data	2	78	7.8%	6.1%	6.9%
Seasonal total	30	1245	5.1%	NA	NA

Data source: DPH, Office of Health Informatics



Wisconsin positive influenza results and subtypes by PCR

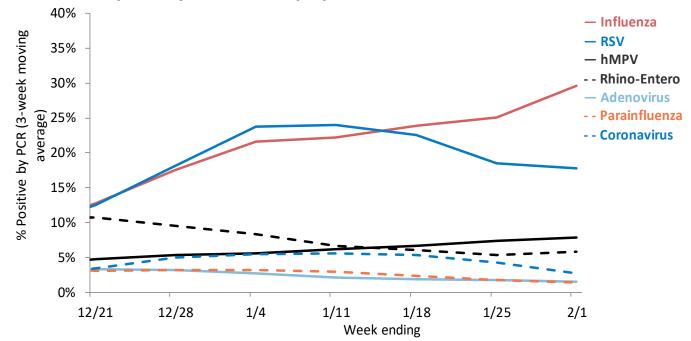


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	37% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	63% B (Unknown)	Total
Total positive (n)	240	62	4123	256	10	7385	12076
% of total positive	2%	1%	34%	2%	0%	61%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



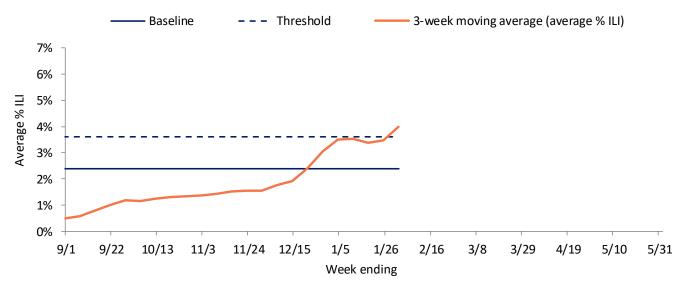
Week 5: Ending on February 1, 2020

Descriptor	Tested	Positiv	e Posit	tive			Influenza A				Influenza	a B			
Respiratory virus	rested	(n)	(%)		H3N2	2 2	2009 H1N1	Unknown	Vic	toria	Yamagat	ta	Unknown		
Influenza	8453	2819	319 33.3%		4		77	1145		63	0		1530		
Respiratory viru	s Tes	ted P	ositive	Pos	sitive	ve Parainflue		Parainfluen	iza 2 Par		nfluenza 3	Pa	rainfluenza 4		
Parainfluenza	11	.10	11	1	.0%		7	0		1		1		1 3	
Respiratory virus	Tes	ted P	ositive	Pos	itive	Co	V 229E	CoV OC43	3	Co\	/ NL63 CoV HK		CoV HKU1		
Coronavirus	58	88	7	1.	2%		1	1		0		5			
Respiratory	v virus			Te	sted			Positive (n)			Pos	itive	(%)		
RSV				27	750	750 442				16.1			%		
Human metapn	eumovi	rus		11	150	.50 107				9.			,		
Rhino-enter	Rhino-enterovirus 1091				67			6.1%							
Adenovi	rus			5	88			8				1.4%	,		

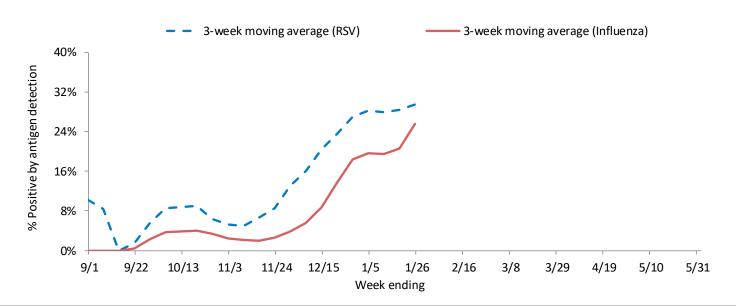


Influenza rapid antigen tests					RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tastad		Positive (n)		% Desitive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive							
2049	258 405 663 32		32.4%	422	111	26.3%	4.8%	2.4%	3.6%		

ILI activity trend analysis

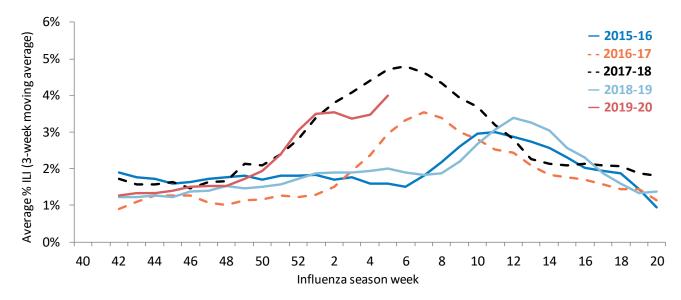


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

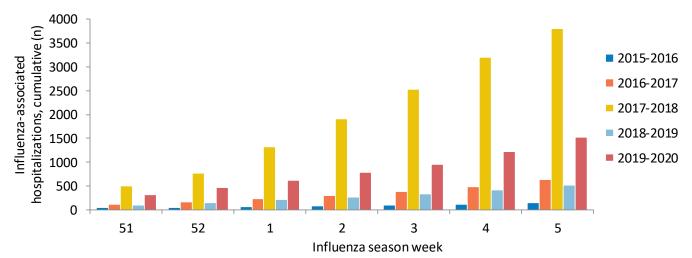
ILI activity trend analysis by influenza season, Wisconsin



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

Age group (years)	Total		Ir	ıfluenza subty	ре		Admitted to ICU	Required	Pregnant	Postpartum (≤6 weeks)
	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported		mechanical ventilation		
<1	46	3	0	15	21	7	8	3		
1-4	87	1	0	20	40	26	13	5		
5-17	181	4	0	20	58	99	14	6		
18-49	357	14	1	149	125	68	56	17	34	6
50-64	338	23	4	200	84	27	58	16		
65+	516	38	13	278	151	36	65	10		
Total	1525	83	18	682	479	263	214	57	34	6

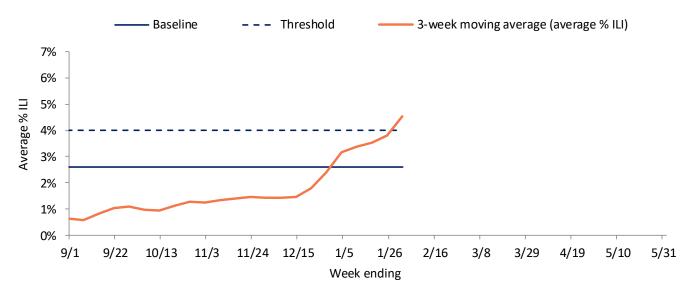
Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

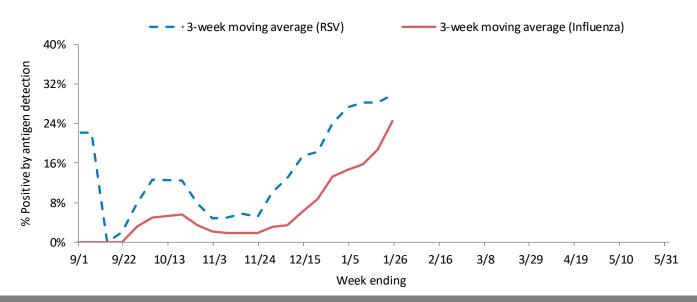




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)				Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% POSITIVE	ILI %	Baseline	mresnoid	
998	110	252	362	36.3%	250	73	29.2%	5.3%	2.6%	4.0%	

ILI activity trend analysis

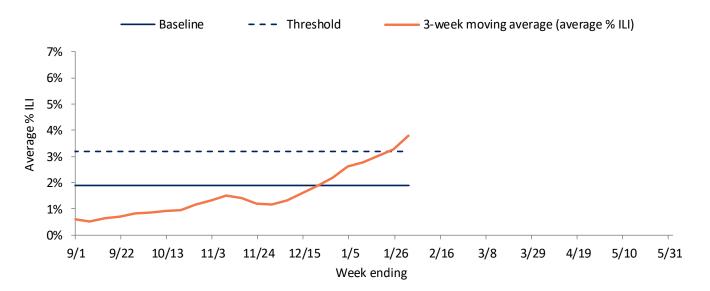


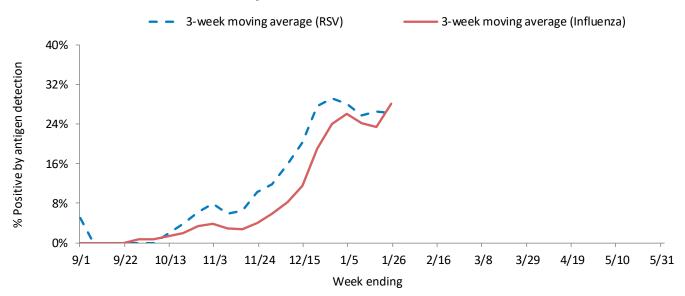




RSV rapid antigen tests Influenza-like illness (ILI) Influenza rapid antigen tests Positive (n) Tested % Positive Tested Positive (n) % Positive ILI % Baseline Threshold Influenza A Influenza B Total 104 124 228 31.1% 147 35 23.8% 4.3% 1.9% 3.2% 732

ILI activity trend analysis

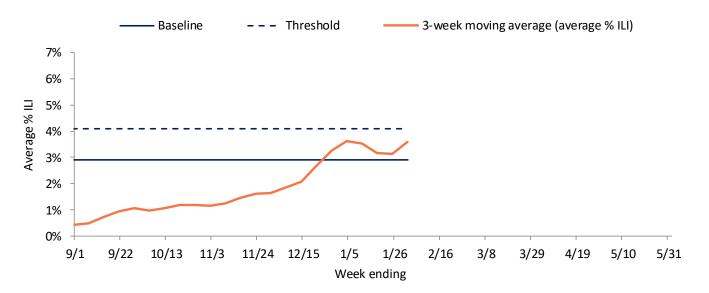


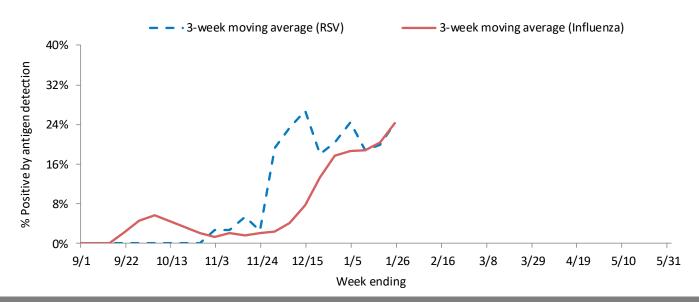




	in the child									
Tostad		Positive (n)		% Positivo	6 Positive Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested Influ	Influenza A	Influenza B	Total	% POSITIVE						
244	36	16	52	21.3%	17	3	17.6%	4.6%	2.9%	4.1%

ILI activity trend analysis

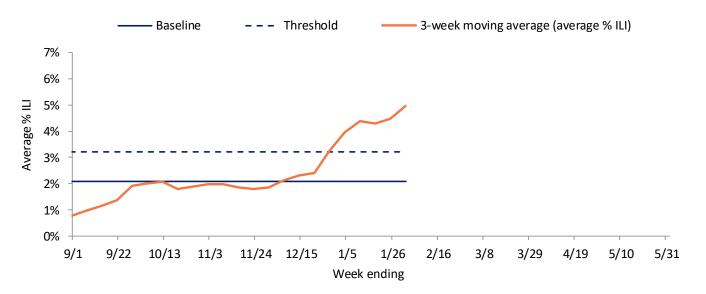


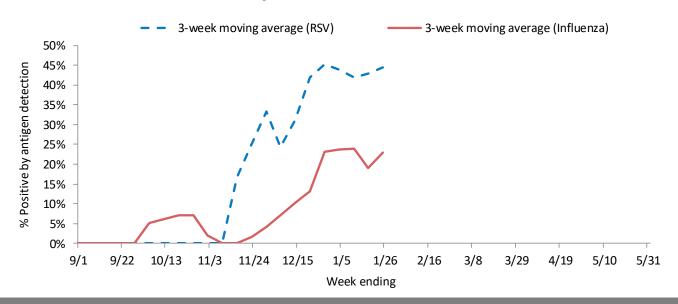


SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
		Positive (n)			Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive							
75	8	13	21	28.0%	8	0	0.0%	5.4%	2.1%	3.2%	

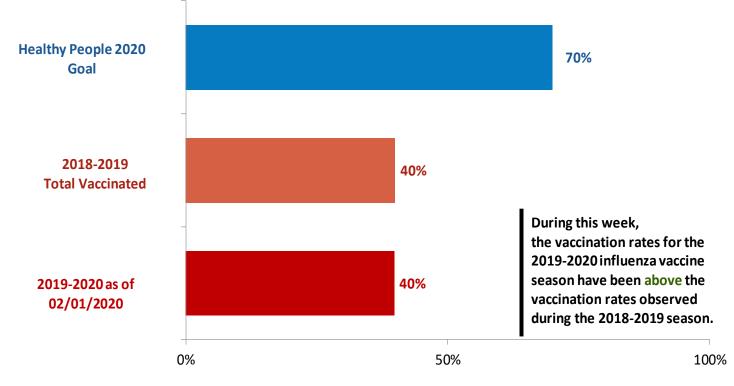
ILI activity trend analysis







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:

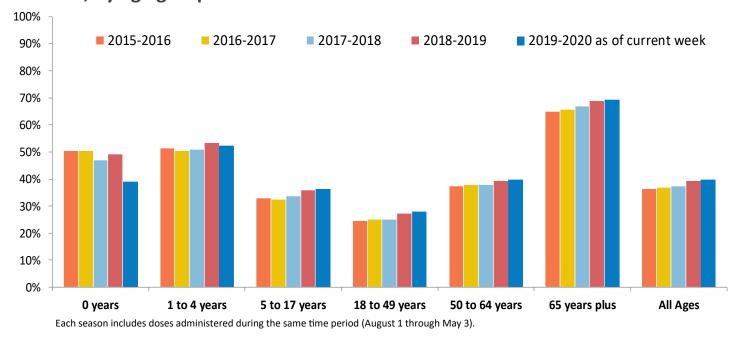
- A/Brisbane/02/2018 (H1N1)pdm09–like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

It is recommended that **<u>quadrivalent</u>** 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

