

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 4: Ending January 25, 2020

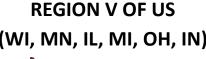
Wisconsin Department of Health Services | Division of Public Health Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section www.dhs.wisconsin.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov





INFLUENZA LIKE ILLNESS (ILI) ACTI

STATE OF WISCONSIN

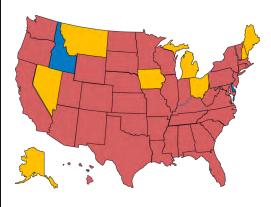


UNITED STATES



(WI, MN, IL, MI, OH, IN)





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 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.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

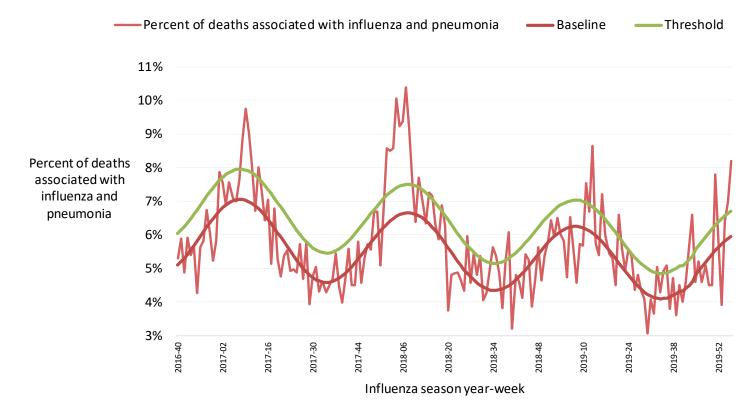
	Week 4, 2020	October 1, 2019 to present
Wisconsin	0	1
Nationwide	14	68



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



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



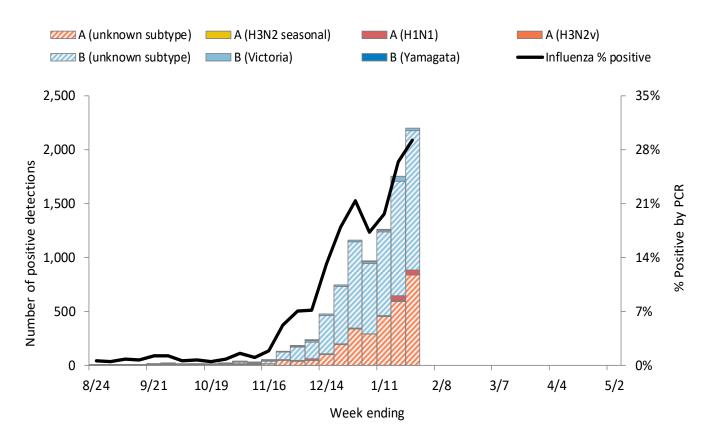
Influenza- and pneumonia-associated deaths by most recent influenza season week, Wisconsin, 2019-2020 season

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
2	7	66	6.4%	5.8%	6.6%
3	1	77	7.0%	5.9%	6.7%
4 Preliminary Data	3	67	8.2%	6.0%	6.8%
Seasonal total	26	1182	5.1%	NA	NA

Data source: DPH, Office of Health Informatics



Wisconsin positive influenza results and subtypes by PCR

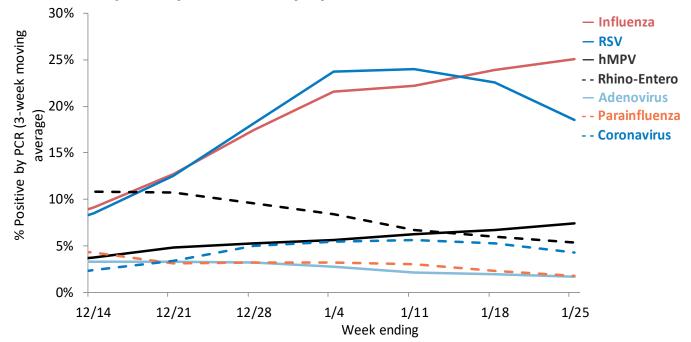


Cumulative number of positive influenza PCR tests by subtype September 1, 2019 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	35% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	65% B (Unknown)	Total
Total positive (n)	163	58	2978	193	10	5855	9257
% of total positive	2%	1%	32%	2%	0%	63%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR

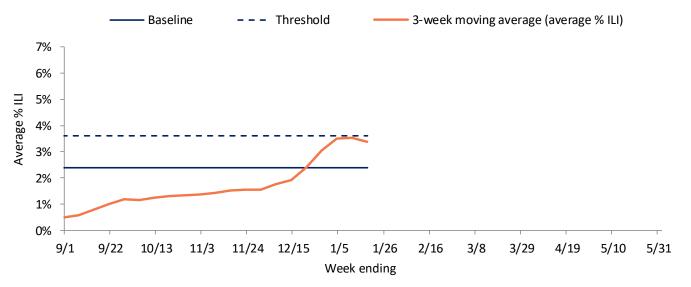


Week 4: Ending on January 25, 2020

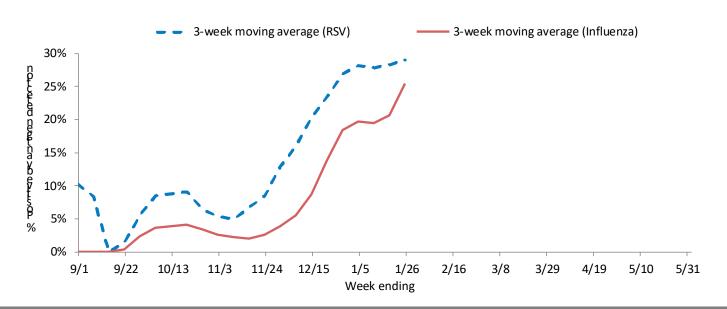
Descriptory	Tested	Positive	e Posit	ive		Influ	enza A				Influenz	a B	
Respiratory virus	Tested	(n)	(%)	H3N2	2009	H1N1	Unknown	Vic	toria	Yamaga	ta	Unknown
Influenza	7549	2201	29.2	2%	1	5	0 834		26		0		1290
Respiratory viru	s Tes	sted Po	ositive (n)		sitive (%)	Parainflue	luenza 1 Parainfluer		za 2	Paraiı	nfluenza 3	Ра	rainfluenza 4
Parainfluenza	10	000	18	1.	.8%	8		1			1		8
Respiratory virus	s Tes	ted Po	sitive	Pos	itive	CoV 22	9E	CoV OC43	3	Co	/ NL63	B CoV HKU	
Coronavirus	49	92	13	2.	.6^	0		3			1		9
Respiratory	y virus			Tes	sted			Positive (n)	Pos		sitive	(%)	
RSV				25	508			438		1		17.5%	
Human metapn	eumovi	rus		10	035		81		7.8%		,		
Rhino-enter	rovirus			9	81		49 5.09		5.0%	,			
Adenovi	irus			4	92			7				1.4%	,



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	FOSILIVE (II)	70 POSITIVE	ILI 70	Dasenne	mresnoid	
1997	274 348 622		31.1%	408	121	29.7%	3.8%	2.4%	3.6%		

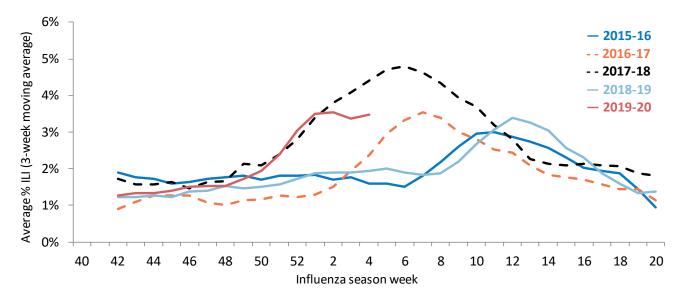


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

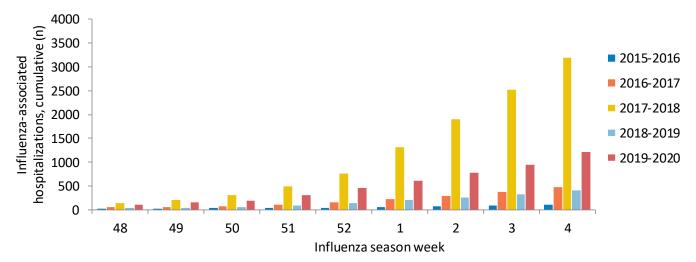
ILI activity trend analysis by influenza season, Wisconsin



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

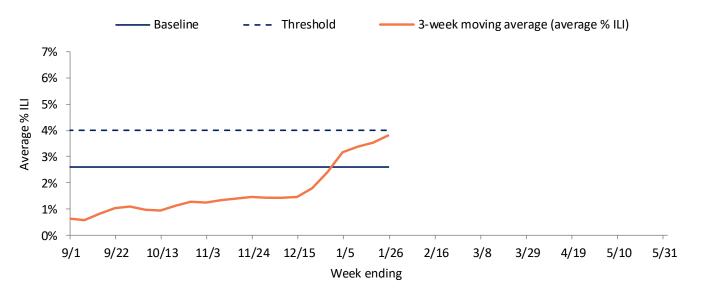
	Total		Ir	nfluenza subty	ре		Admitted	Required		Postpartum
Age group (years)	reported (n)	A (2009 H1N1)	A (H3N2)	A (Unknown)	В	Not reported	to ICU	mechanical ventilation	Pregnant	(≤6 weeks)
<1	38	3		11	19	5	7	3		
1-4	77	2		15	37	23	12	5		
5-17	128	3		18	51	56	12	3		
18-49	294	12	1	124	108	49	53	17	28	4
50-64	269	18	4	148	74	25	48	13		
65+	409	29	12	215	128	25	48	8		
Total	1215	67	17	531	417	183	180	49	28	4

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

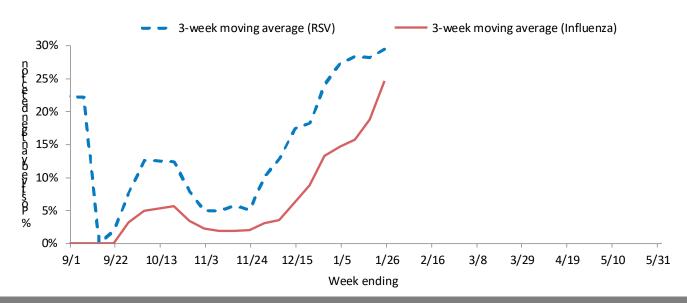




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Positive (n) Tested				% Desitive	Tested	Desitive (n)	% Desitive	11 1 07	Deceline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Inresnoid	
869	109	169	278	32.0%	219	69	31.5%	4.6%	2.6%	4.0%	

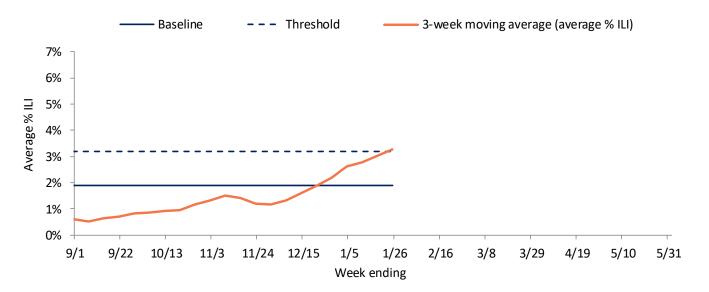


Influenza and RSV trend analysis

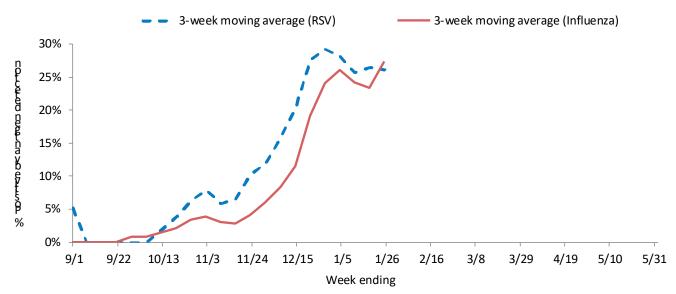




	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold	
Testeu	Influenza A	enza A Influenza B Total	Total	% POSITIVE	Testeu	Positive (II)	% POSITIVE	ILI 70	Daseillie	mesnou	
586	81	110	191	32.6%	166	42	25.3%	3.5%	1.9%	3.2%	

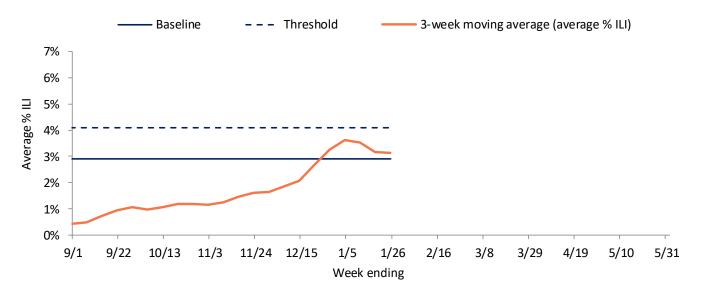


Influenza and RSV trend analysis

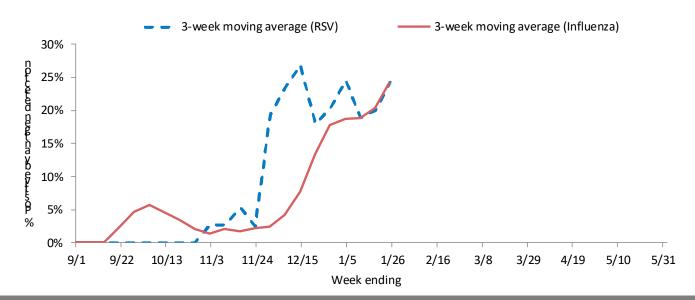




	in the child									
Tostad		Positive (n)		% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
Tested	Influenza A	Influenza B	Total	% POSITIVE						
493	81	57	138	28.0%	12	6	50.0%	3.3%	2.9%	4.1%



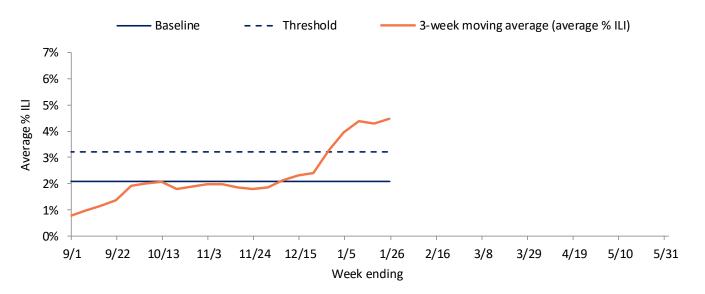
Influenza and RSV trend analysis



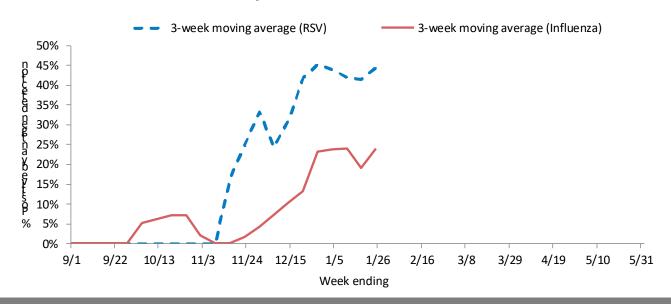
SOUTHERN REGION

	Influenz	a rapid anti	gen tests		RSV r	apid antigen	tests	Influenza-like illness (ILI)			
		Positive (n)							Baseline	Threshold	
Tested	Influenza A	Influenza B	Total	% Positive	Tested	Positive (n)	% Positive	ILI %			
49	3	12	15	30.6%	12	6	50.0%	4.9%	2.1%	3.2%	

ILI activity trend analysis

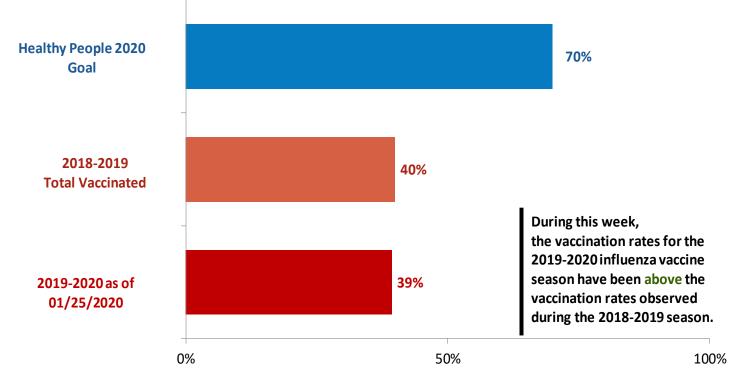


Influenza and RSV trend analysis





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

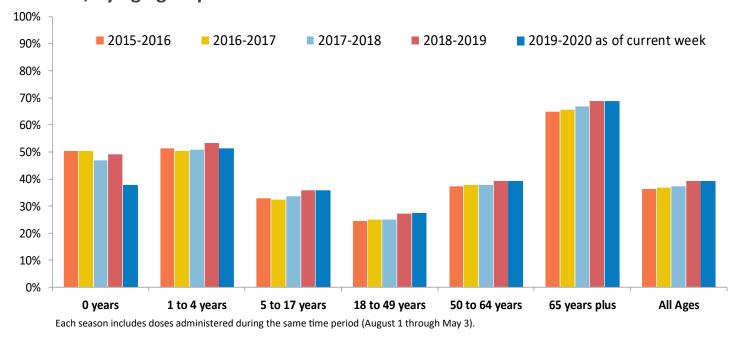
- A/Brisbane/02/2018 (H1N1)pdm09–like virus (updated)
- A/Kansas/14/2017 (H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus

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

