

RESPIRATORY VIRUS SURVEILLANCE REPORT

Week Ending January 21, 2017

BUREAU OF COMMUNICABLE DISEASES

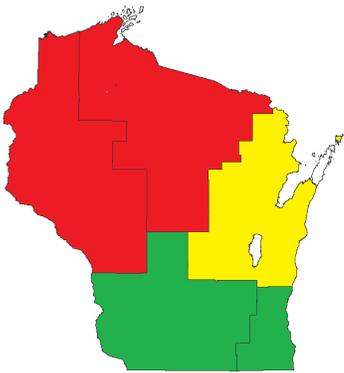
<https://www.dhs.wisconsin.gov/dph/bcd.htm> | DHSDPHBCD@dhs.wi.gov

Wisconsin Department of Health Services | Division of Public Health



INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

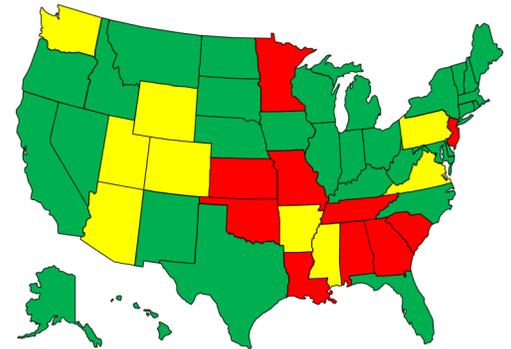
STATE OF WISCONSIN



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



UNITED STATES



● ILI: HIGH LEVELS ● ILI: MODERATE LEVELS ● ILI: BELOW BASELINE ● ILI: INSUFFICIENT DATA

Influenza vaccine composition 2016-2017

The **trivalent** vaccines for use in the 2016-2017 influenza season contain the following:

- A/California/7/2009 (H1N1)pdm09-like virus
- A/Hong Kong/4801/2014 (H3N2)-like virus
- B/Brisbane/60/2008-like virus (B/Victoria lineage)

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)

Influenza-associated pediatric deaths reported

(October 1, 2016 to present)

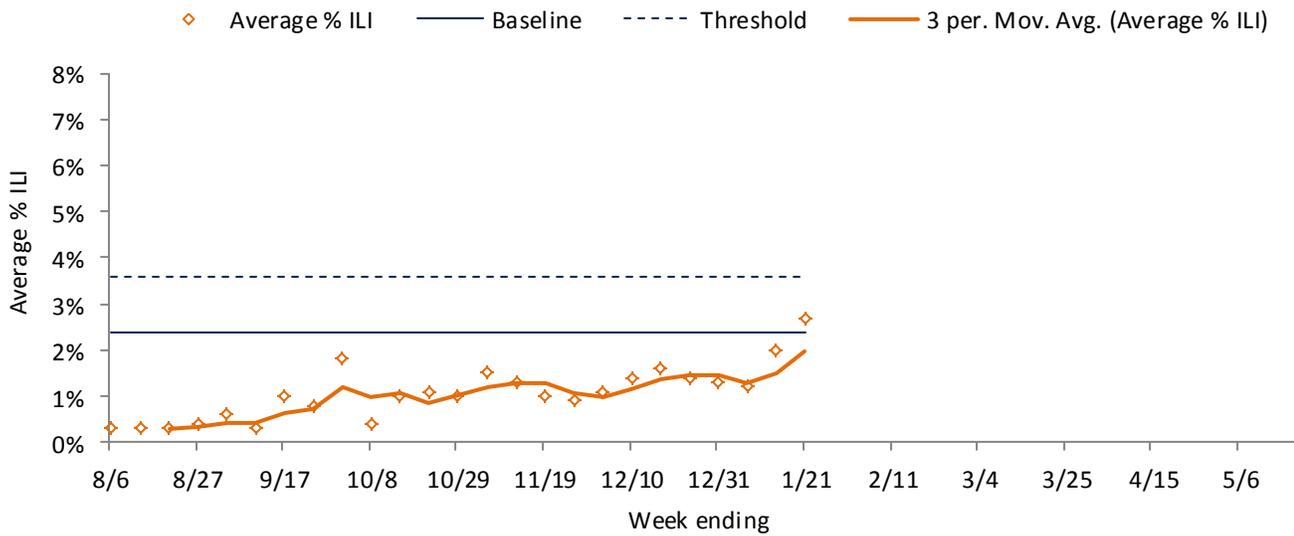
	<u>Week 3 (2017)</u>	<u>Total to date</u>
Wisconsin	0	0
Nationwide	3	8

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

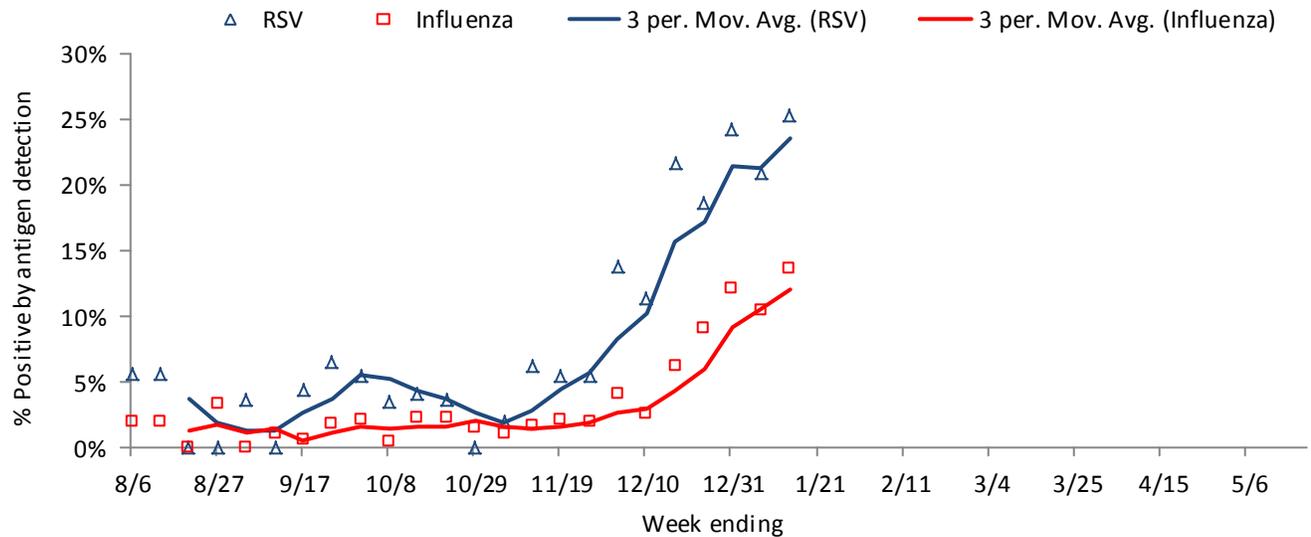
WISCONSIN STATE SUMMARY

Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total							
1100	180	24	204	18.5%	223	56	25.1%	2.7%	2.4%	3.6%

ILI activity trend analysis

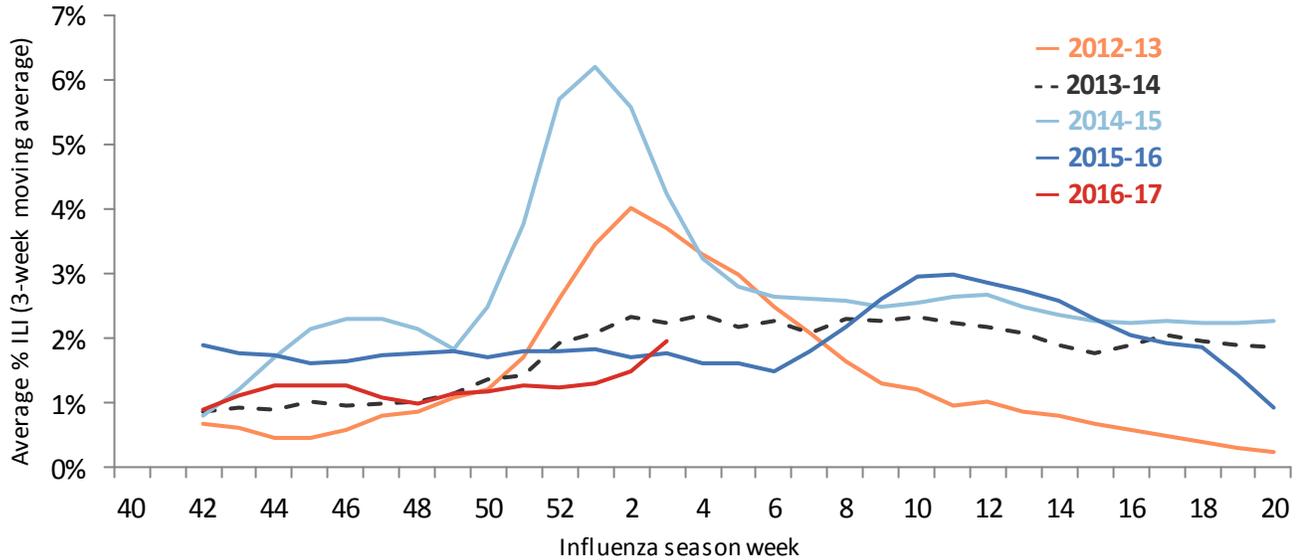


Influenza and RSV trend analysis



WISCONSIN STATE SUMMARY

ILI activity trend analysis by influenza season, Wisconsin



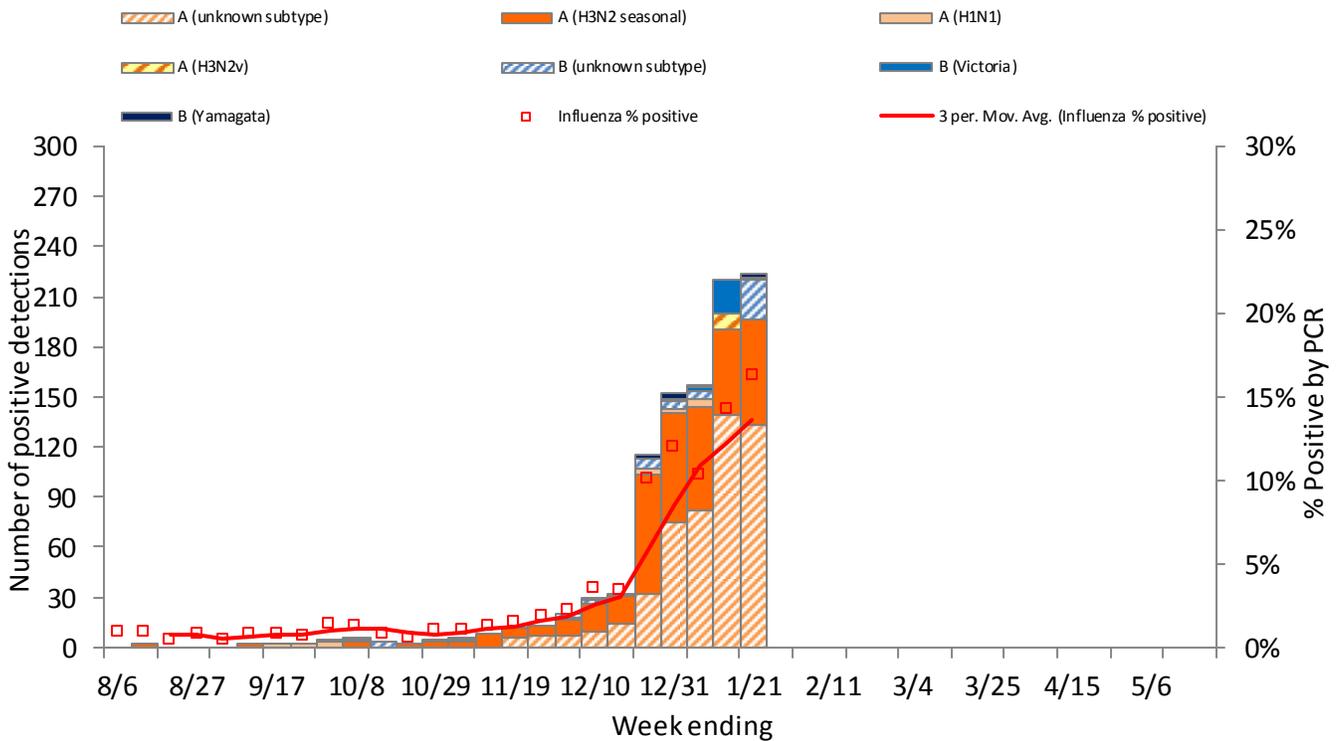
Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System September 1, 2016 to present

Age group (years)	Total reported (n)	Influenza subtype					Admitted to ICU	Required mechanical ventilation	Pregnant
		A (2009 H1N1)	A (H3N2)	A (Unknown)	B	Not reported			
<1	4	0	0	2	1	1	1	0	0
1	4	0	0	3	1	0	1	0	0
05-17	19	0	1	11	5	2	3	1	0
18-49	48	1	12	26	6	3	9	2	2
50-64	78	2	17	45	9	5	16	2	0
65+	304	5	61	204	28	6	29	4	0
Total	457	8	91	291	50	17	59	9	2

Rates of influenza-associated hospitalizations by age group and public health region will be available during February, 2017.

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

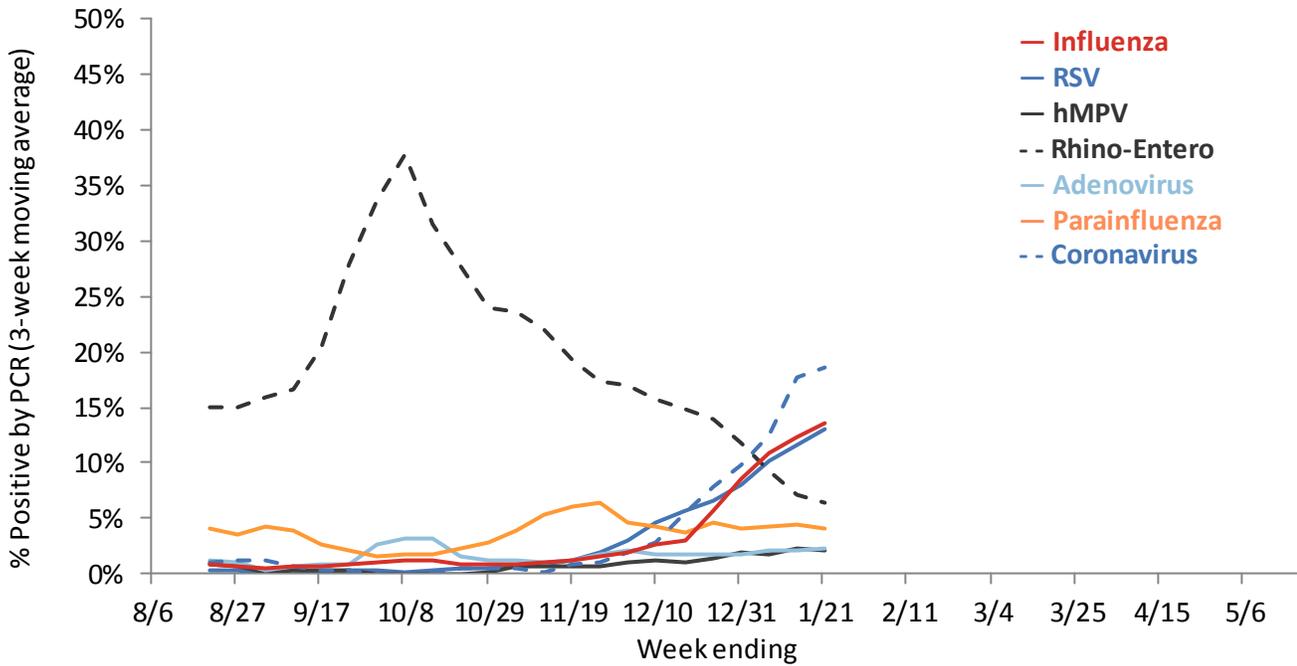


Cumulative number of positive influenza PCR tests by subtype September 3, 2016 to present

	Influenza A: 91%			Influenza B: 9%			Total
	A (2009 H1N1)	A (H3N2)	A (Unknown)	B (Victoria)	B (Yamagata)	B (Unknown)	
Total positive (n)	26	392	525	8	9	72	1032
% of total positive	3%	38%	51%	1%	1%	7%	100%

WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR



Week ending on January 14, 2017

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	1543	221	14.3%	140	9	51	0	0	21

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	503	24	4.8%	1	1	17	5

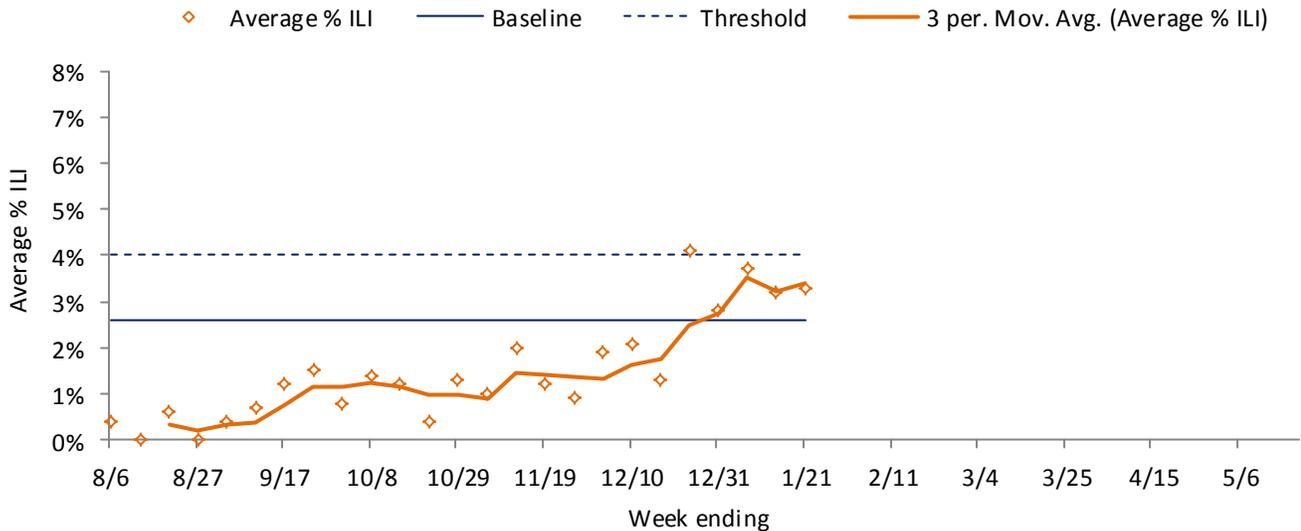
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	99	25	25.3%	4	21	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	804	93	11.6%
Human metapneumovirus	533	17	3.2%
Rhino-enterovirus	478	36	7.5%
Adenovirus	99	2	2.0%

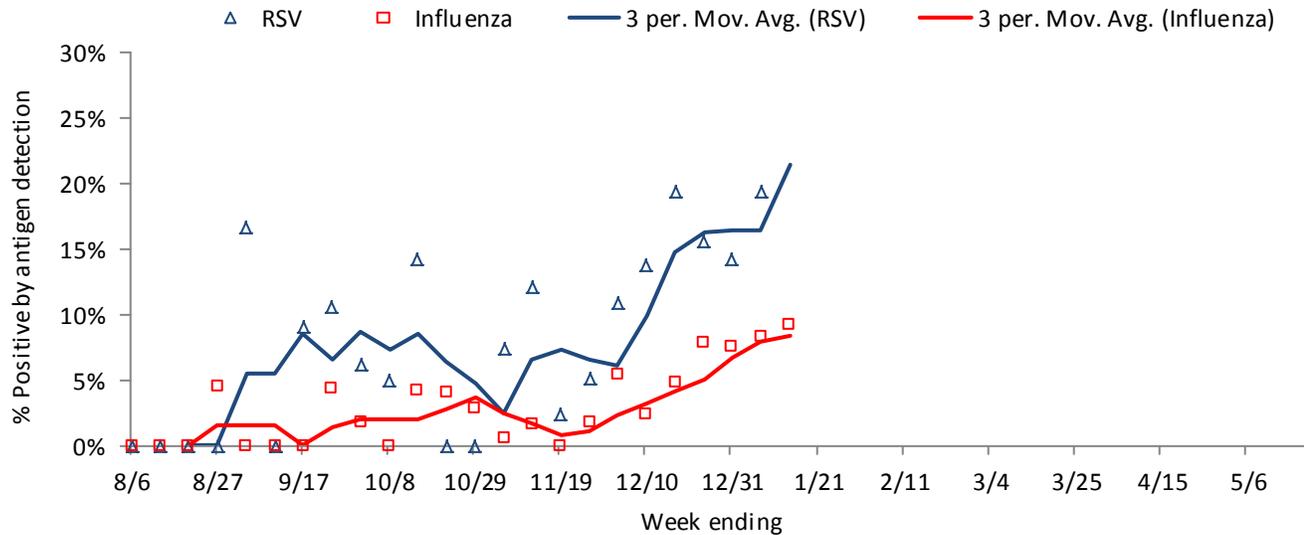
NORTHEASTERN REGION

Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total							
208	9	1	10	4.8%	36	7	19.4%	3.3%	2.6%	4.0%

ILI activity trend analysis



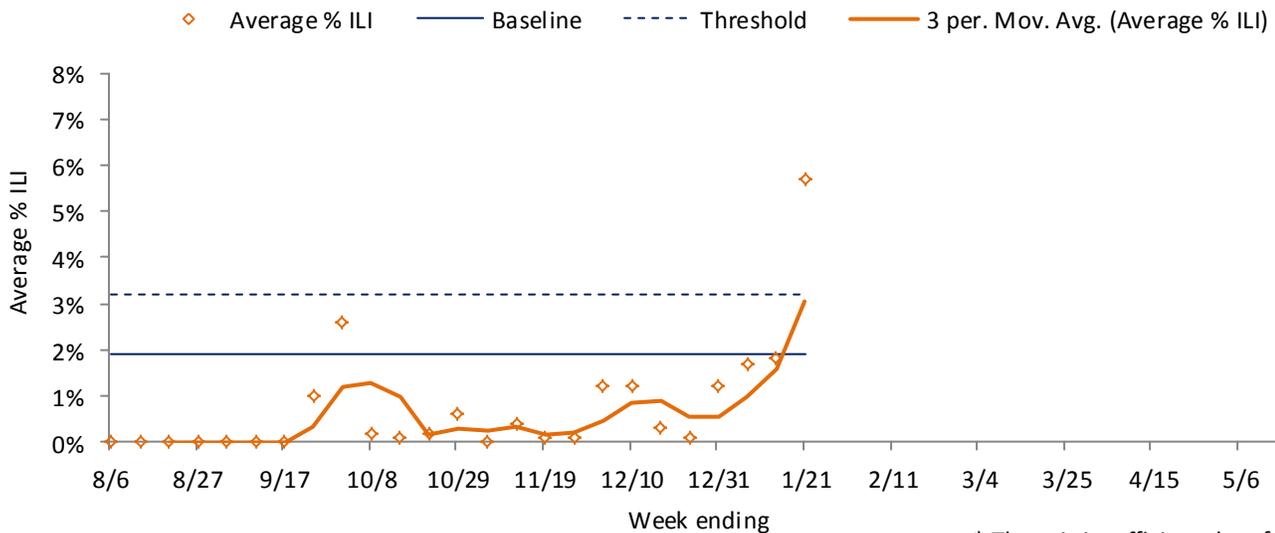
Influenza and RSV trend analysis



NORTHWESTERN REGION

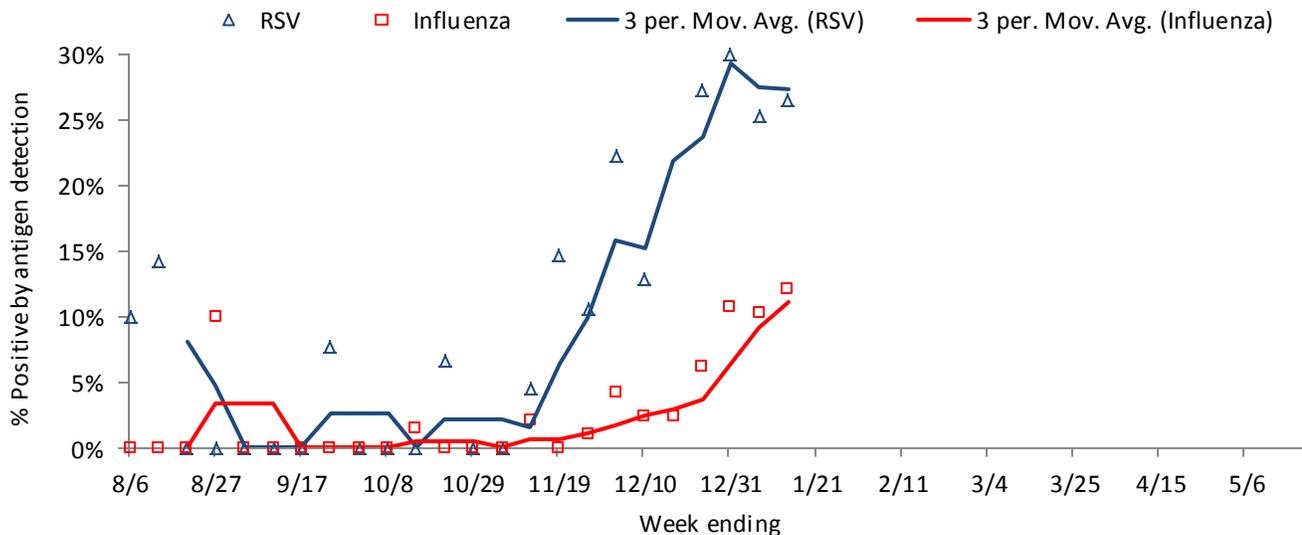
Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total							
258	30	5	35	13.6%	63	18	28.6%	5.7%	1.9%	3.2%

ILI activity trend analysis



* There is insufficient data for the week ending October 22, 2016.

Influenza and RSV trend analysis

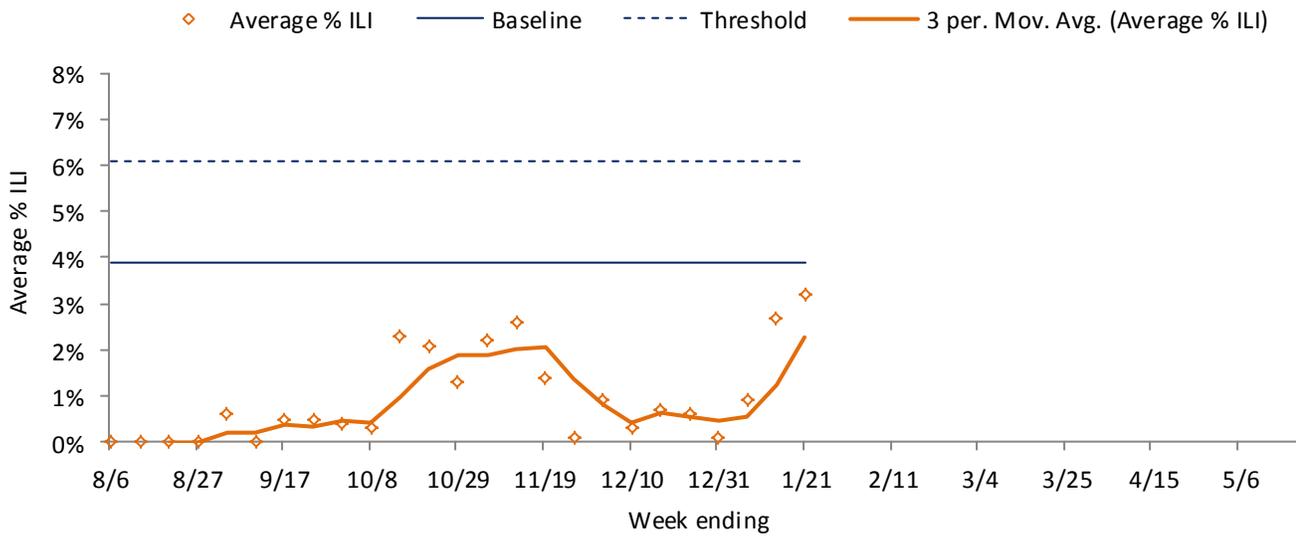




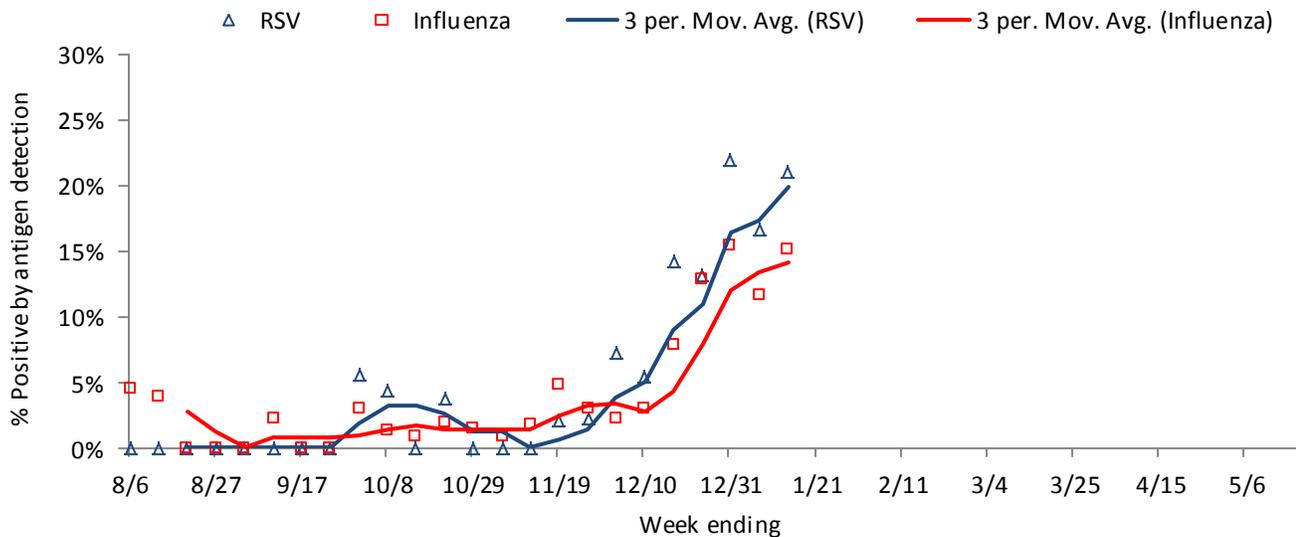
SOUTHEASTERN REGION

Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total							
438	74	5	79	18.0%	72	9	12.5%	3.2%	3.9%	6.1%

ILI activity trend analysis



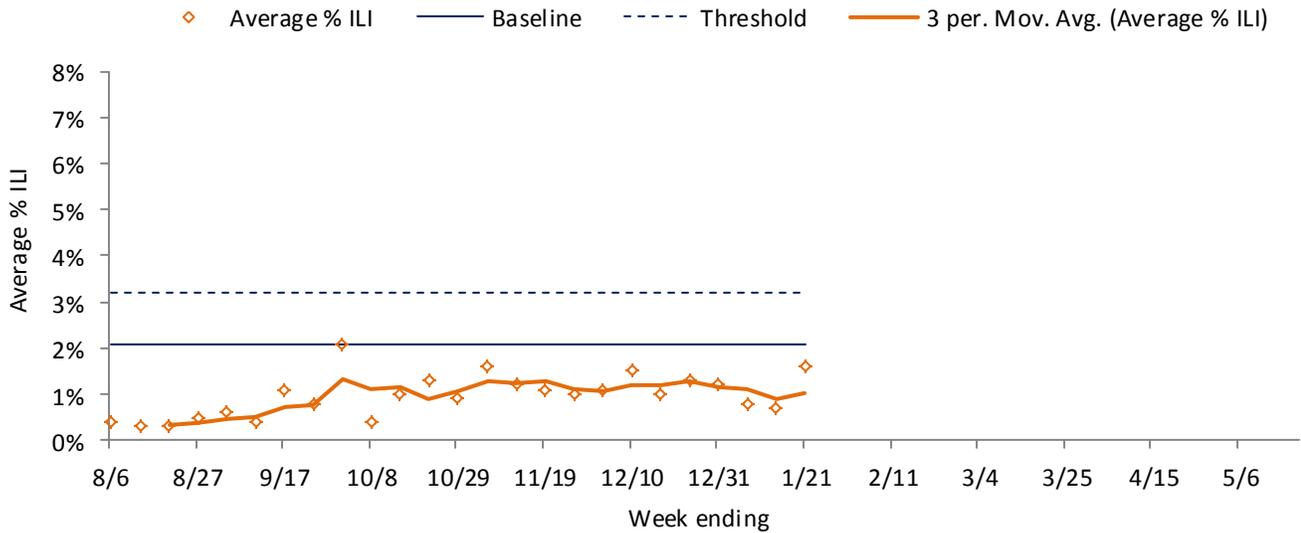
Influenza and RSV trend analysis



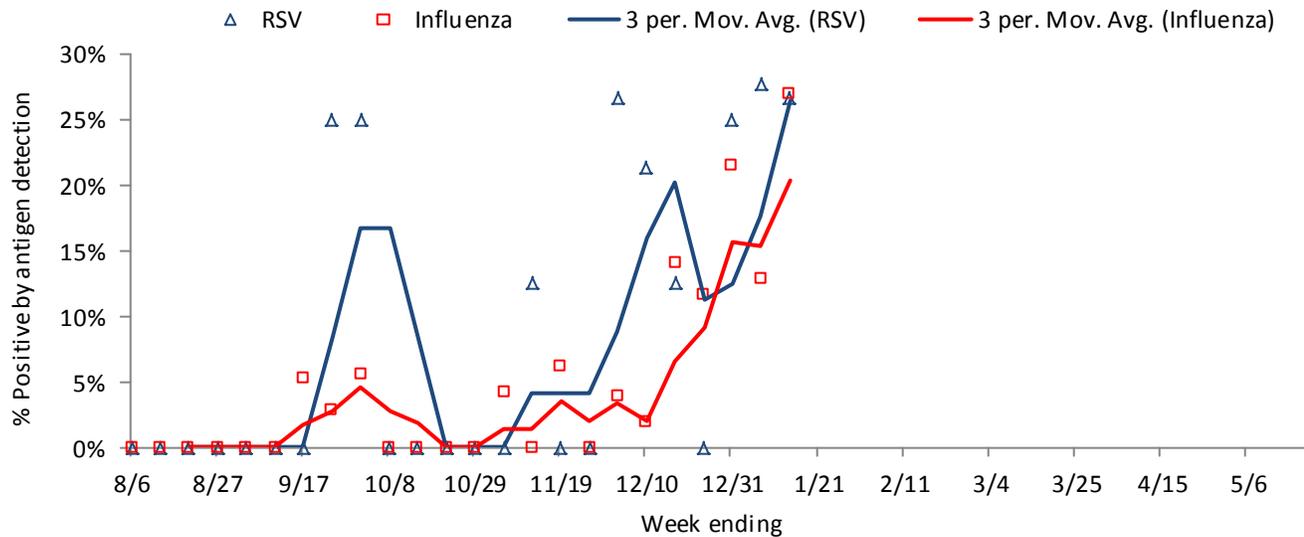
SOUTHERN REGION

Influenza rapid antigen tests					RSV rapid antigen tests			Influenza-like illness (ILI)		
Tested	Positive (n)			% Positive	Tested	Positive (n)	% Positive	ILI %	Baseline	Threshold
	Influenza A	Influenza B	Total							
55	10	1	11	20.0%	34	11	32.4%	1.6%	2.1%	3.2%

ILI activity trend analysis

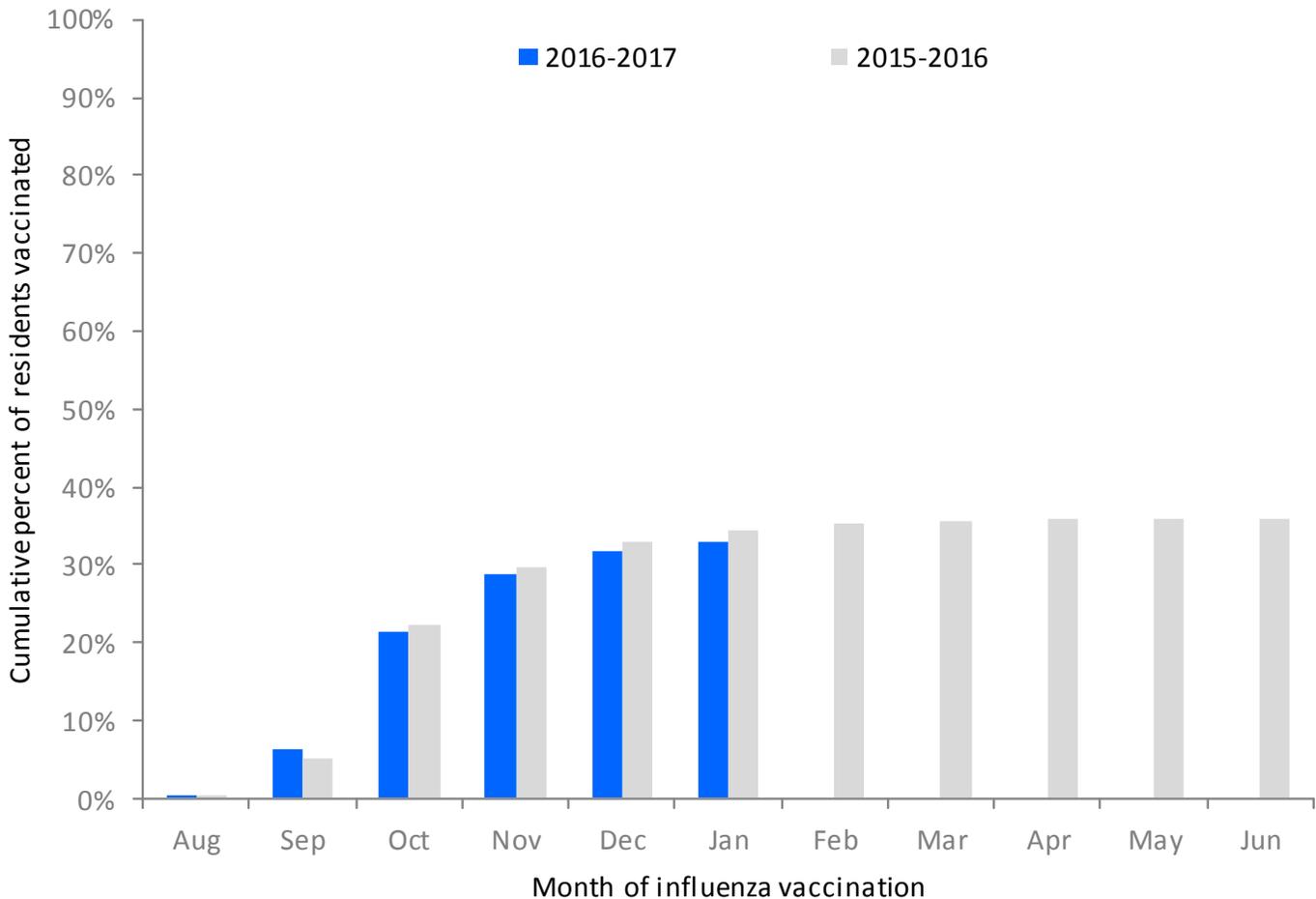


Influenza and RSV trend analysis



SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received one or more doses of influenza vaccine, by month of vaccination and influenza season

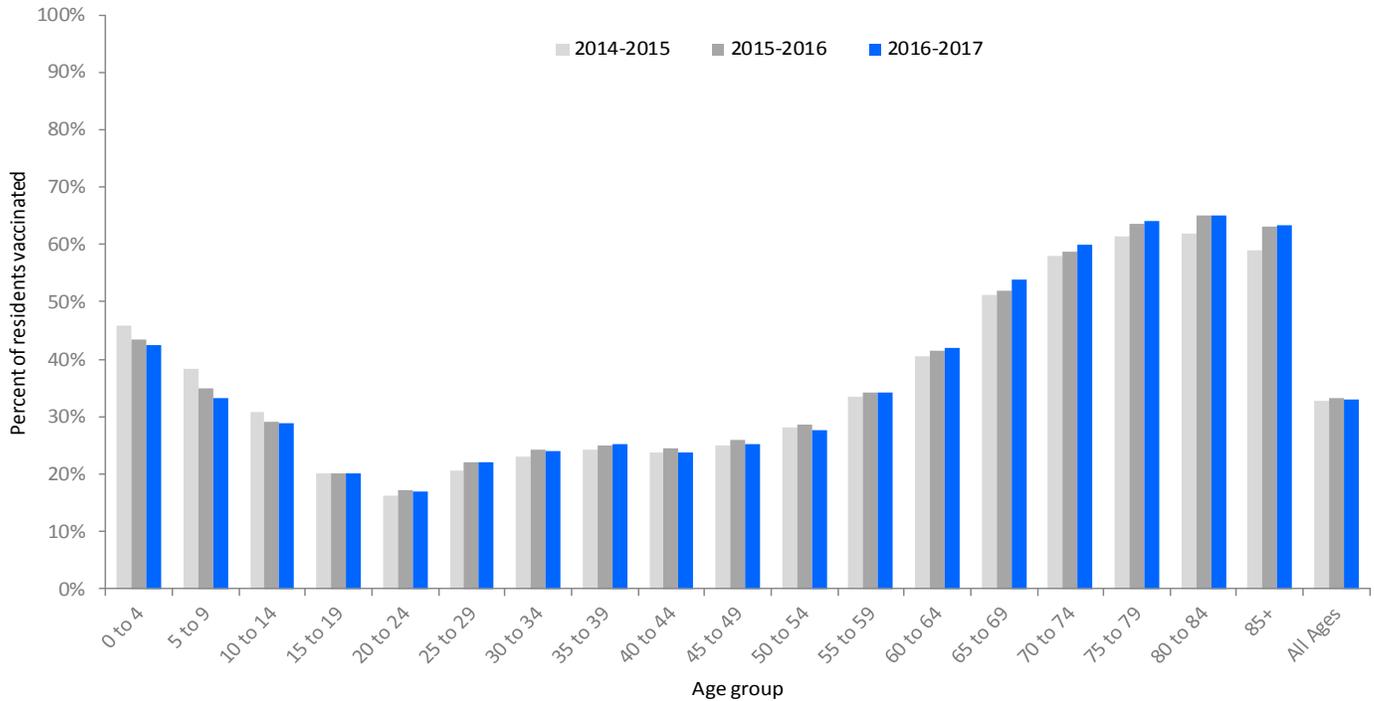


Data source: All influenza vaccination rates presented were calculated using data from the Wisconsin Immunization Registry (numerator) and Wisconsin population estimates (denominator).

Note: Maps of vaccination rates by county are temporarily unavailable.

SEASONAL INFLUENZA VACCINATION

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by age group and influenza season



Each season includes doses administered during the same time period (August 1 through January 25).

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2016-2017 influenza season

