



# RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 20: Ending May 18, 2019

Wisconsin Department of Health Services | Division of Public Health  
Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

[dhs.wi.gov/dph/bcd.htm](https://dhs.wi.gov/dph/bcd.htm) | [dhsdphbcd@dhs.wi.gov](mailto:dhsdphbcd@dhs.wi.gov)



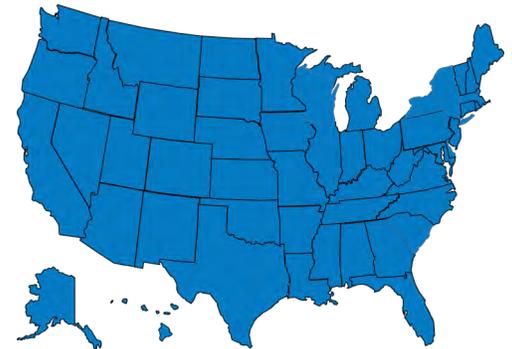


# INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

## 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

### AT-A-GLANCE:

- [Weekly Respiratory Report Description](#)

- **Predominant Virus(es) of the Week:**

Rhino/enterovirus, humans metapneumovirus and parainfluenza-3 are the predominant viruses.

### INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 20, 2019	October 1, 2018 to present
Wisconsin	0	4
Nationwide	2	111

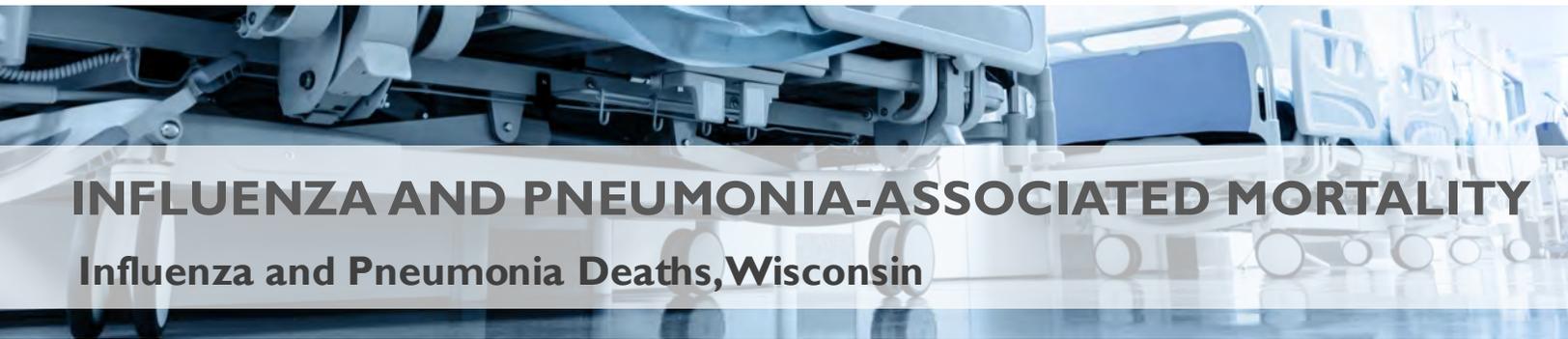
### CURRENT ALERTS:

Fairs and agriculture exhibits will begin soon. Summer influenza surveillance and testing guidelines will be available soon.



For National US influenza surveillance statistics visit: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)

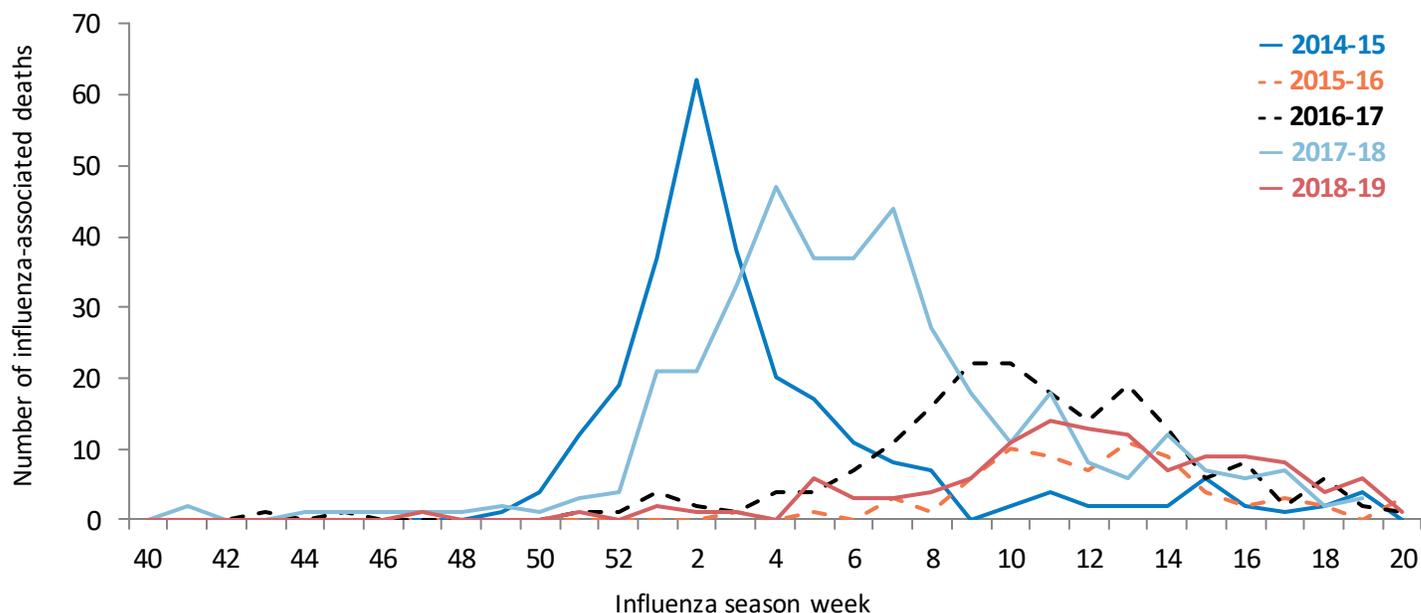




# INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

## Influenza and Pneumonia Deaths, Wisconsin

### Influenza-associated deaths by week and influenza season, Wisconsin



### Influenza and pneumonia-associated deaths by age group, 2018-2019 season

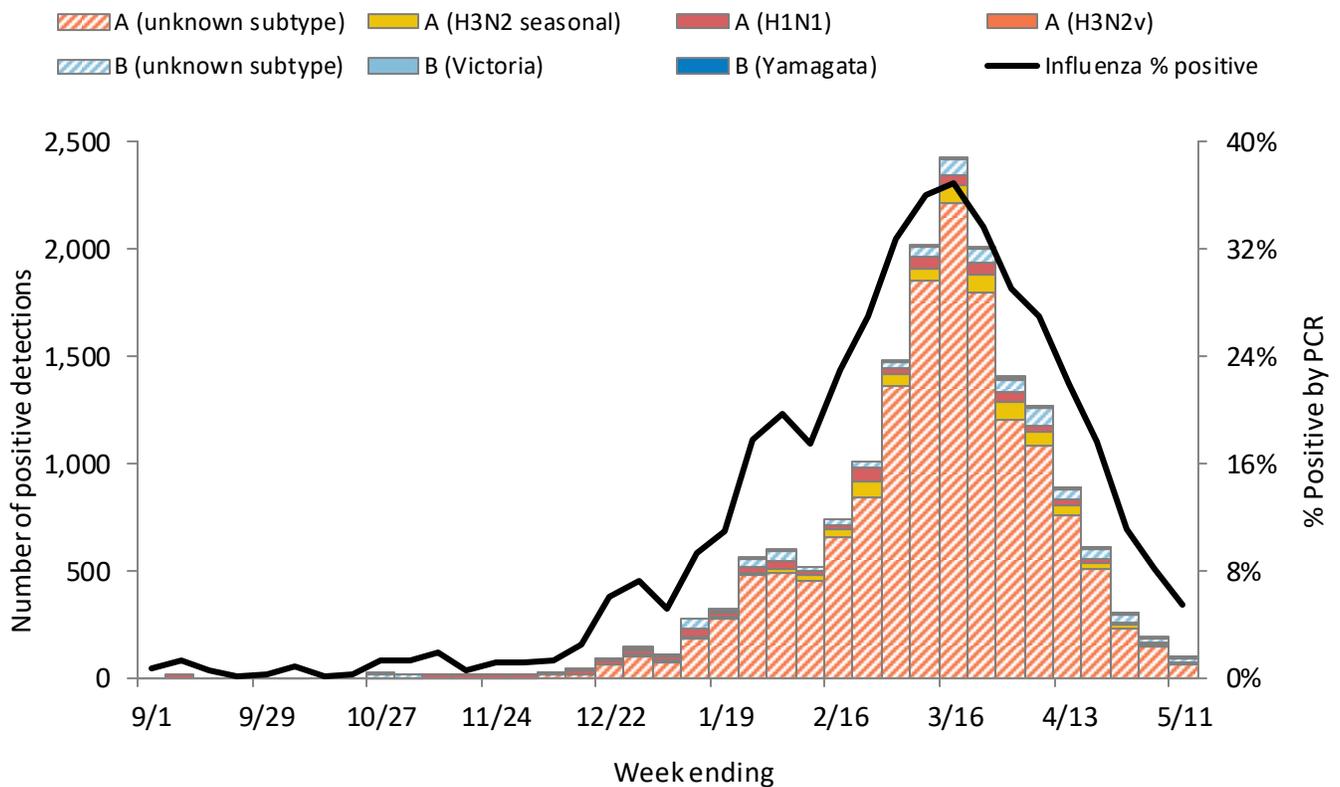
September 30, 2018 to May 11, 2019

Age group (years)	Week 20, 2019			Cumulative, 2018-2019 season		
	Influenza (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%	4	6	2.7%
5-17	0	0	0.0%	0	3	2.7%
18-49	0	1	2.5%	15	83	3.8%
50-64	0	8	7.1%	22	262	4.7%
65+	1	45	6.9%	85	1787	5.9%
<b>All ages</b>	<b>1</b>	<b>54</b>	<b>6.6%</b>	<b>126</b>	<b>2141</b>	<b>5.6%</b>



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Wisconsin positive influenza results and subtypes by PCR

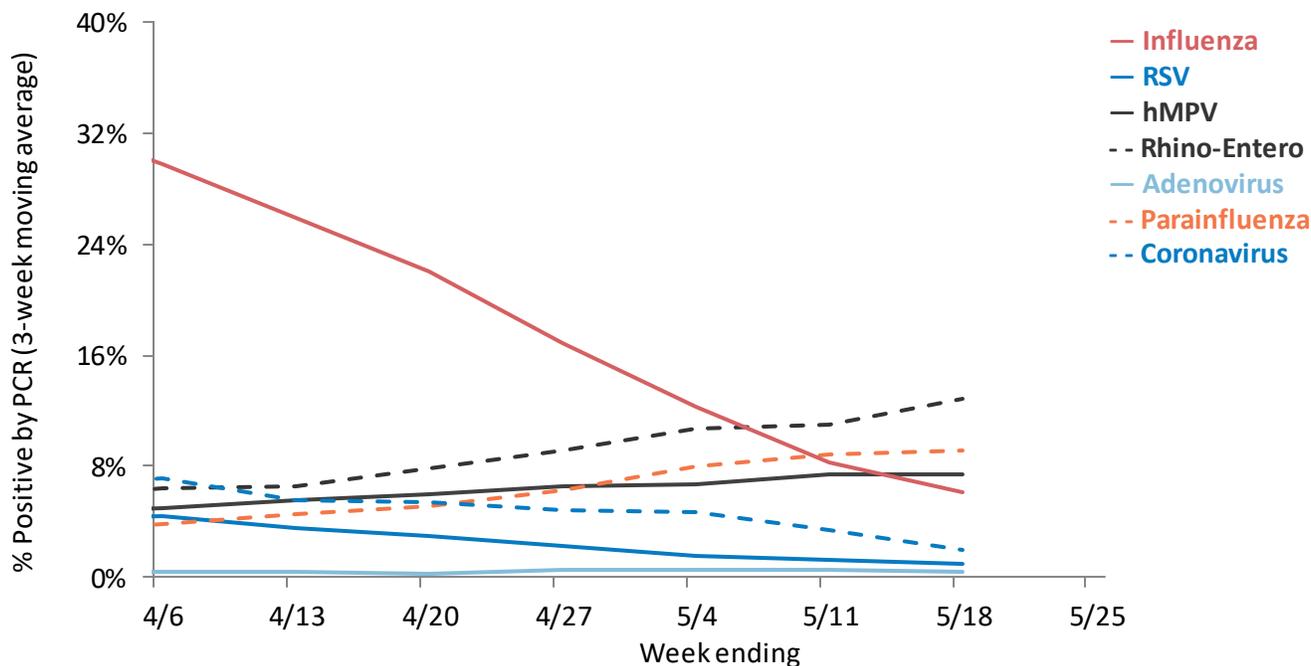


## Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: 95%			Influenza B: 5%			Total
	A (H3N2)	A (Unknown)	B (Victoria)	B (Yamagata)	B (Unknown)			
Total positive (n)	654	741	14983	19	29	784	17210	
% of total positive	4%	4%	87%	0%	0%	5%	100%	

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Trends in respiratory virus activity by PCR



Week 20: Ending on May 18, 2019

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	1478	68	4.6%	7	2	39	1	0	19

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	523	45	8.6%	3	1	41	0

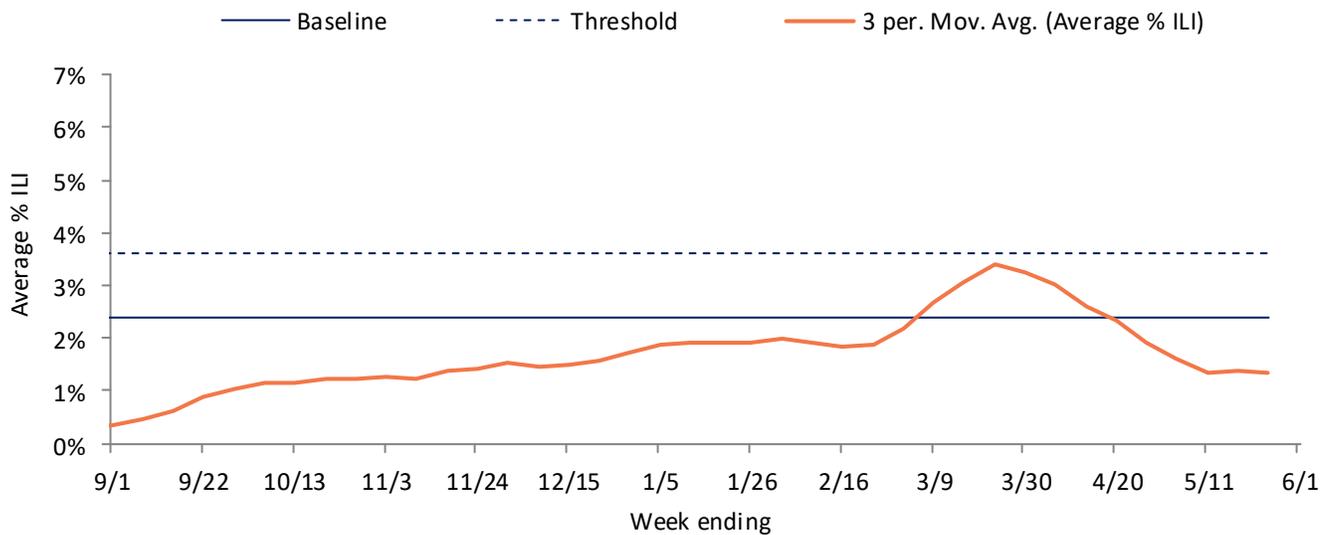
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	268	2	0.7%	0	2	0	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	727	5	0.7%
Human metapneumovirus	534	38	7.1%
Rhino-enterovirus	512	79	15.4%
Adenovirus	268	1	0.4%

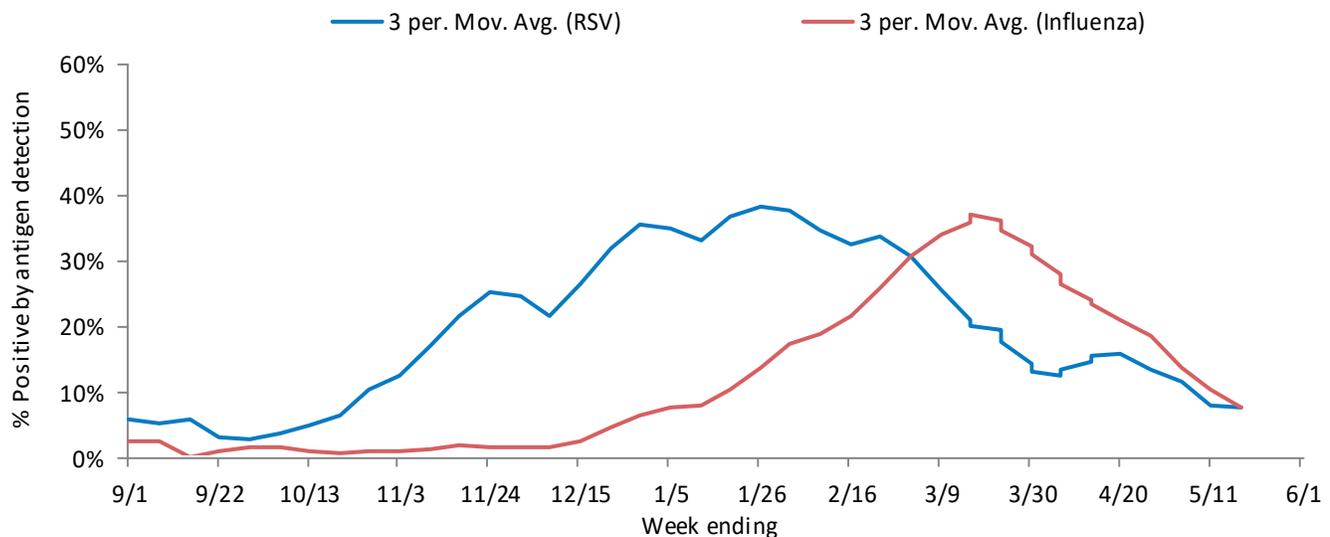
# WISCONSIN STATE SUMMARY

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							
436	19	11	30	6.9%	80	6	7.5%	1.5%	2.4%	3.6%

## ILI activity trend analysis

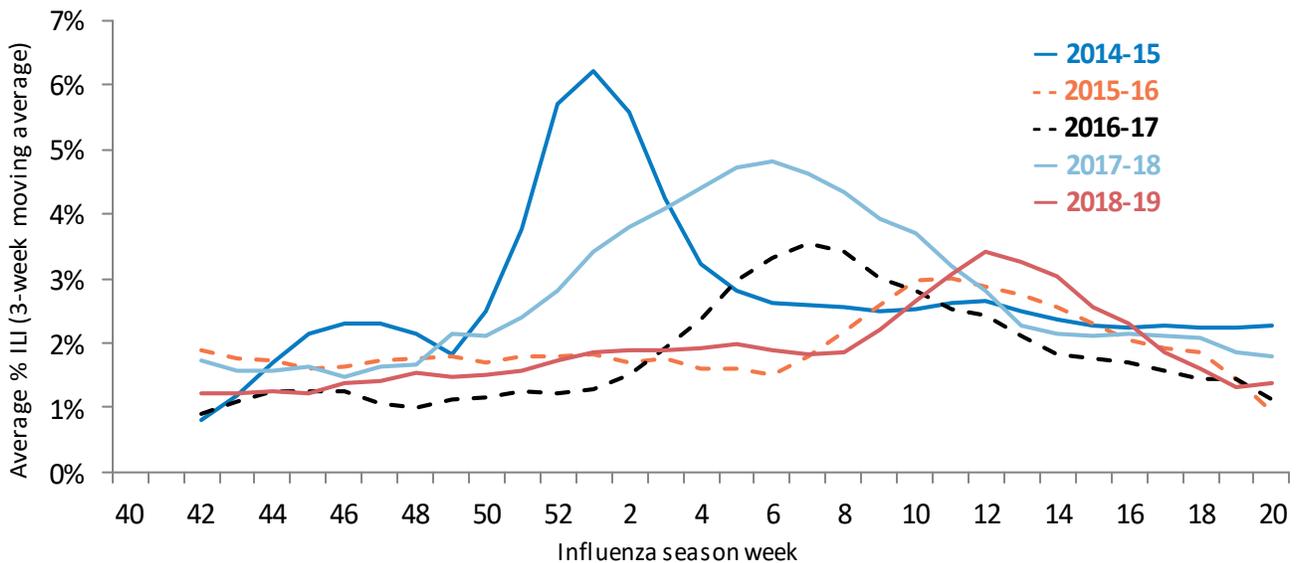


## Influenza and RSV trend analysis



# WISCONSIN STATE SUMMARY

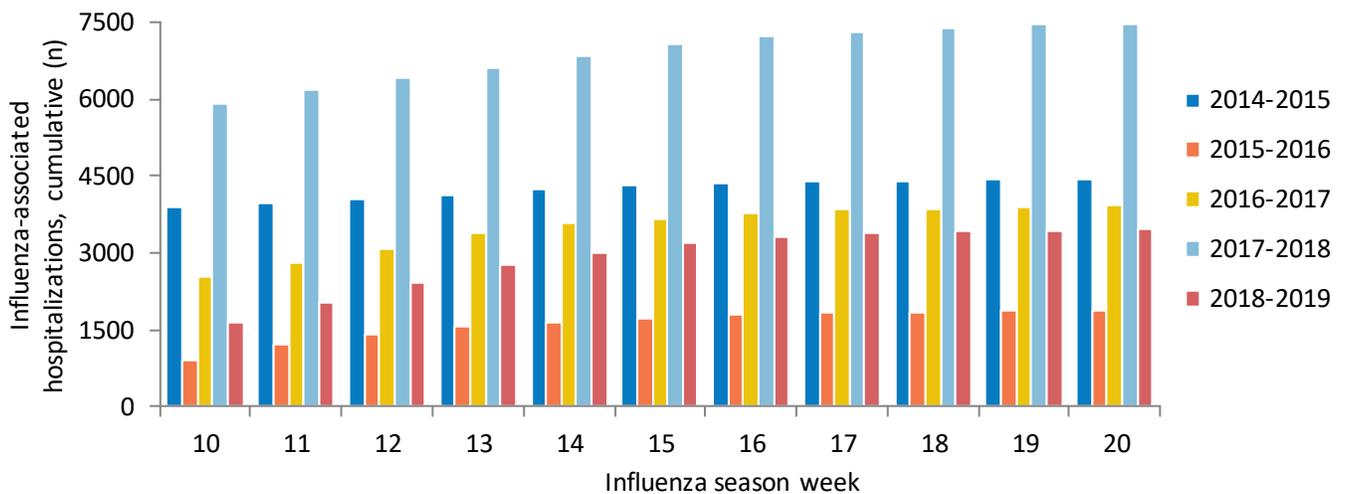
## ILI activity trend analysis by influenza season, Wisconsin



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

Age group (years)	Total reported (n)	Influenza subtype					Admitted to ICU	Required mechanical ventilation	Pregnant	Postpartum (≤6 weeks)
		A (2009 H1N1)	A (H3N2)	A (Unknown)	B	Not reported				
<1	51	5	0	42	2	2	8	4	0	0
1-4	102	3	3	82	5	9	18	4	0	0
5-17	114	3	3	90	5	13	19	2	0	0
18-49	525	44	21	406	24	30	105	37	37	3
50-64	863	97	49	652	37	28	189	53	0	0
65+	1794	132	146	1371	94	51	258	67	0	0
<b>Total</b>	<b>3449</b>	<b>284</b>	<b>222</b>	<b>2643</b>	<b>167</b>	<b>133</b>	<b>597</b>	<b>167</b>	<b>37</b>	<b>3</b>

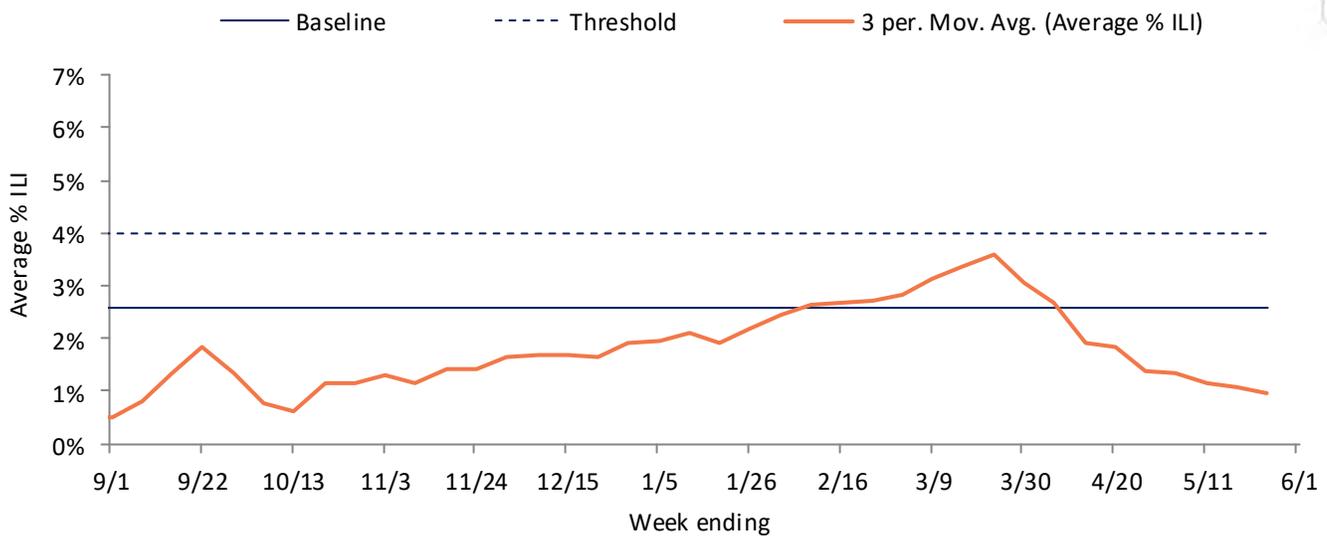
## Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



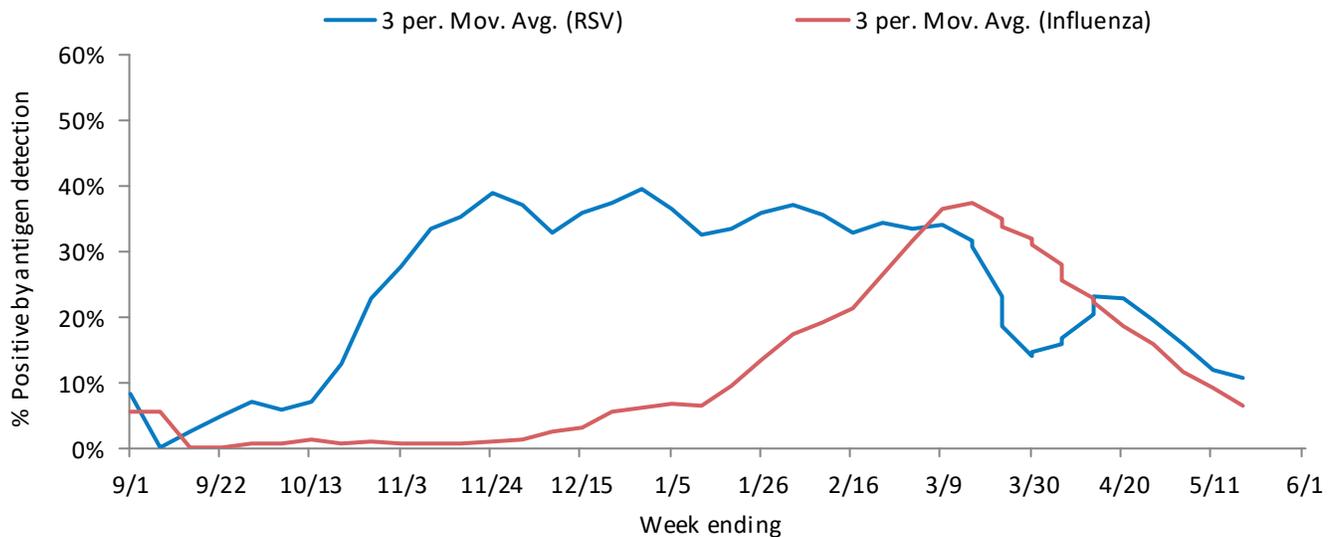
# NORTHEASTERN REGION

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							
158	4	5	9	5.7%	41	5	12.2%	0.9%	2.6%	4.0%

## ILI activity trend analysis



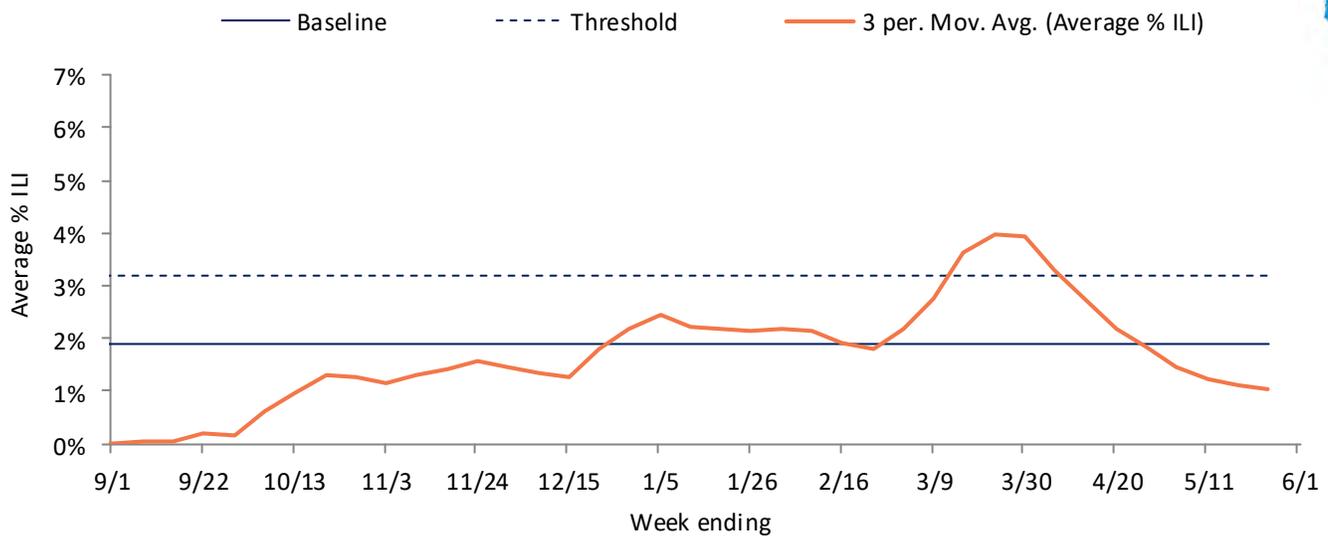
## Influenza and RSV trend analysis



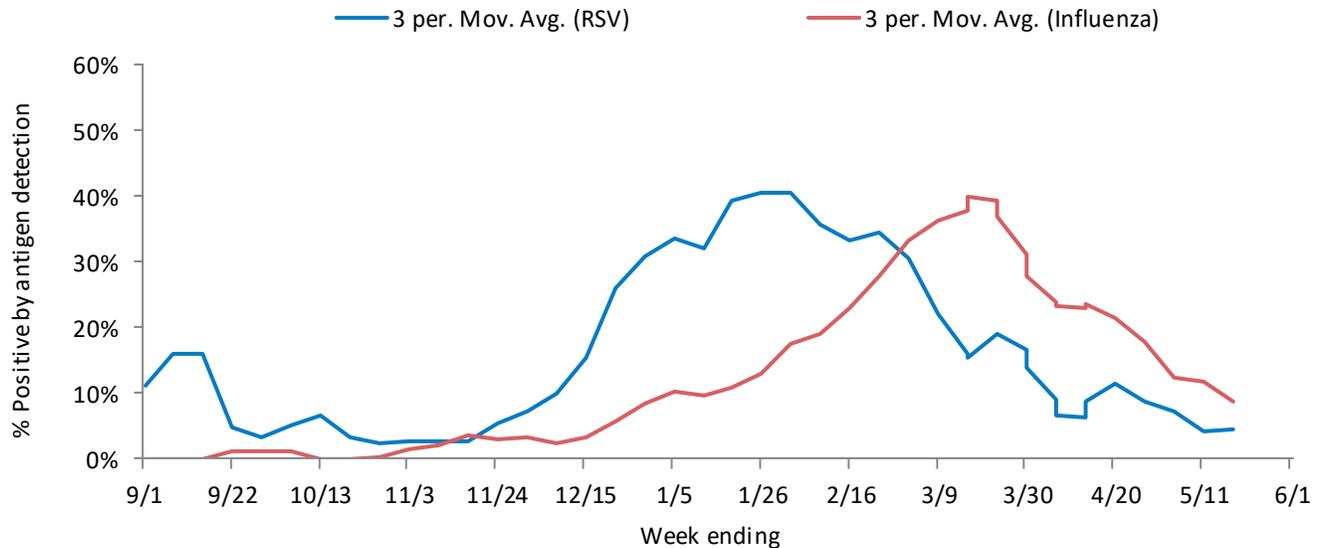
# NORTHWESTERN REGION

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							
94	3	1	4	4.3%	28	1	3.6%	1.1%	1.9%	3.2%

## ILI activity trend analysis



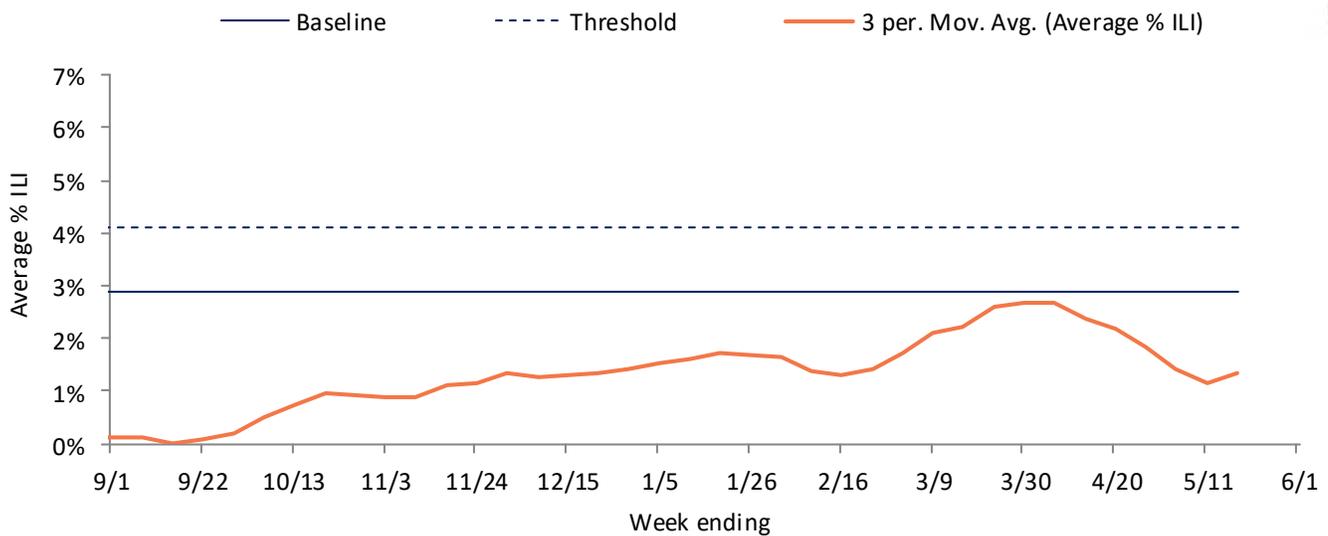
## Influenza and RSV trend analysis



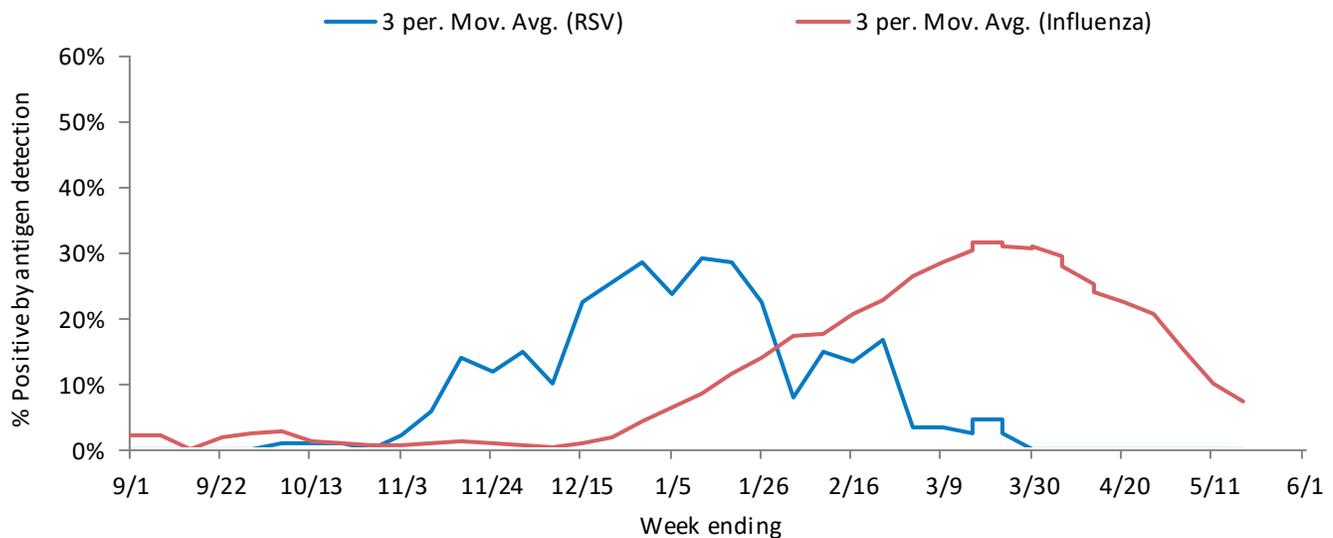
# SOUTHEASTERN REGION

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							
177	11	5	16	9.0%	4	0	0.0%	1.7%	2.9%	4.1%

## ILI activity trend analysis



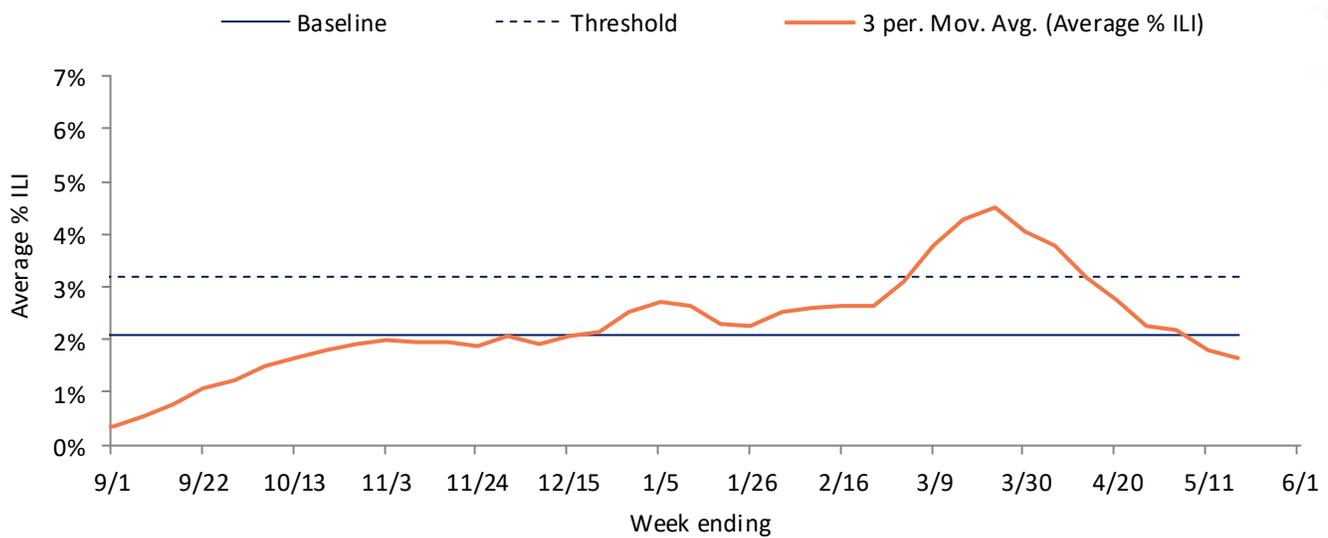
## Influenza and RSV trend analysis



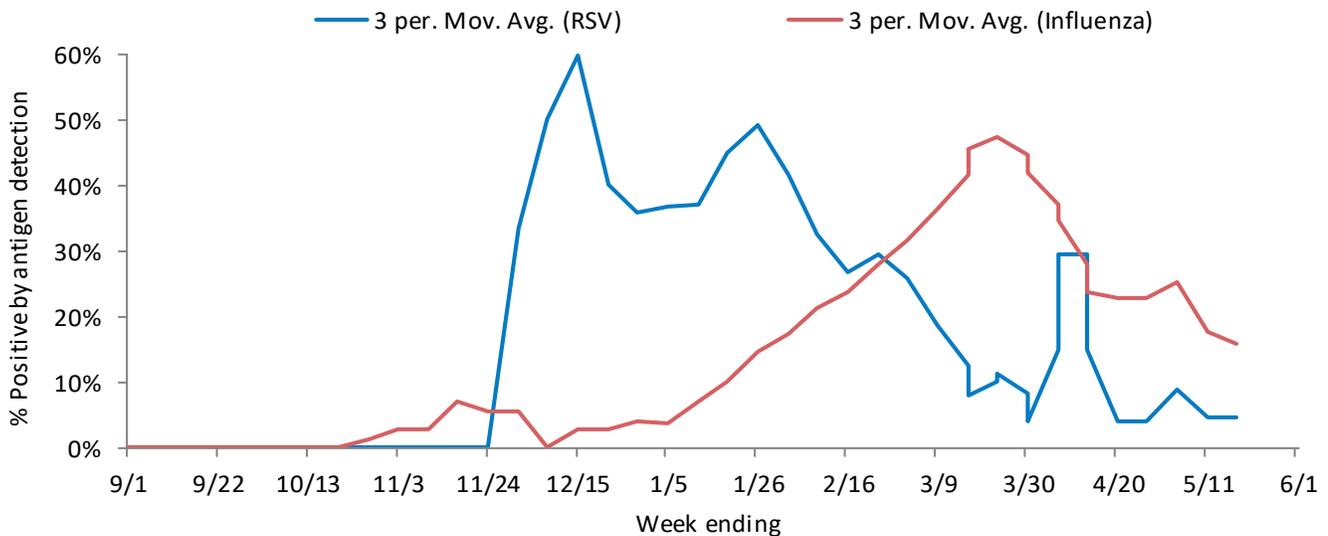
# SOUTHERN REGION

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							
7	1	0	1	14.3%	4	0	0.0%	1.5%	2.1%	3.2%

## ILI activity trend analysis

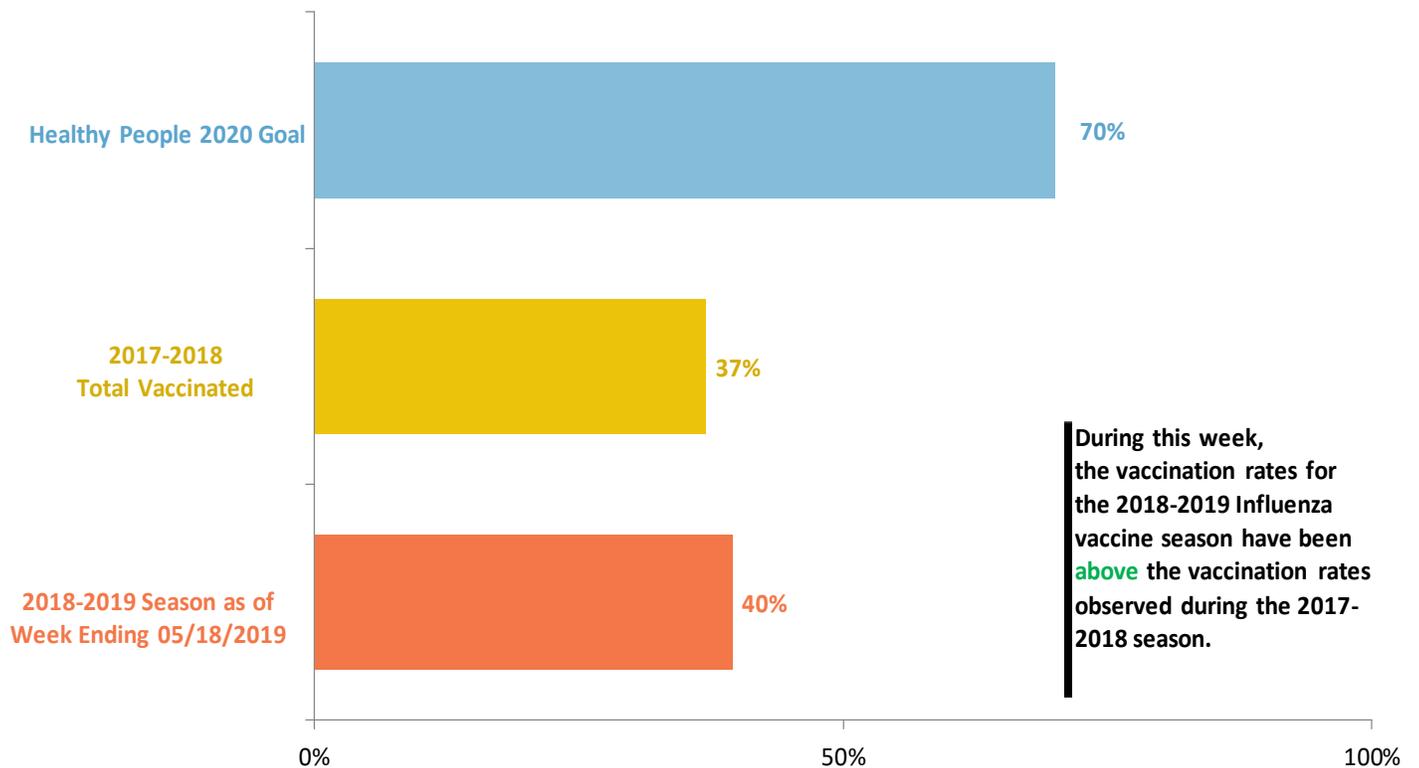


## Influenza and RSV trend analysis



# SEASONAL INFLUENZA VACCINATION

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2018-2019 influenza season



During this week, the vaccination rates for the 2018-2019 Influenza vaccine season have been above the vaccination rates observed during the 2017-2018 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:

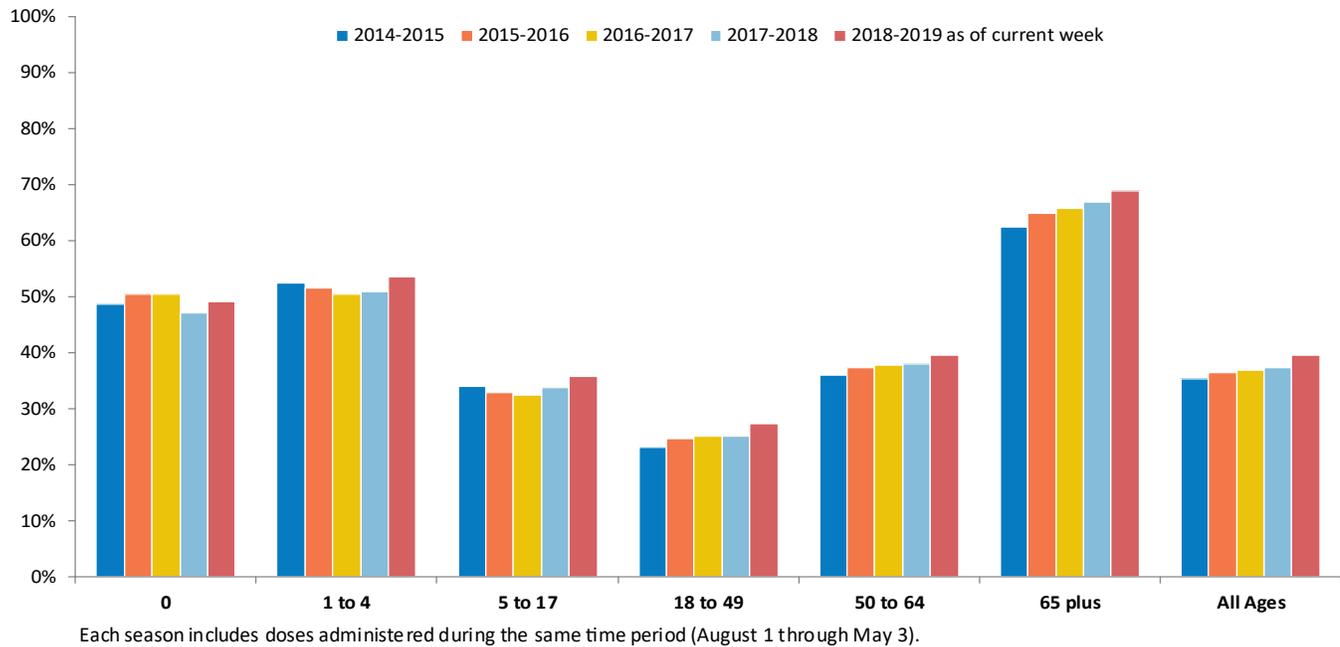
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

