



# RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 13: Ending March 30, 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)



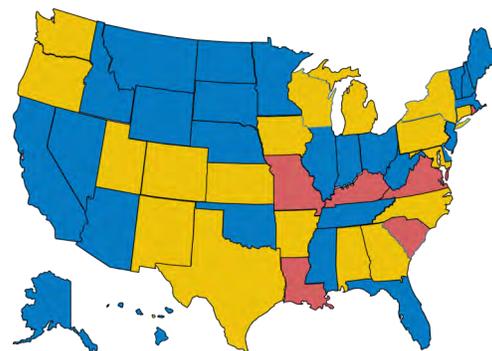


# INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

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 of the Week:**

Influenza A/H3 is the predominant virus this week.

## INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

	Week 13, 2019	October 1, 2018 to present
Wisconsin	1	2
Nationwide	5	82

## CURRENT ALERTS:

- During week 12, the week ending March 23, flu activity peaked in Wisconsin. High influenza activity will likely continue well into April, 2019.
- 338 flu-associated hospitalizations were reported this week.



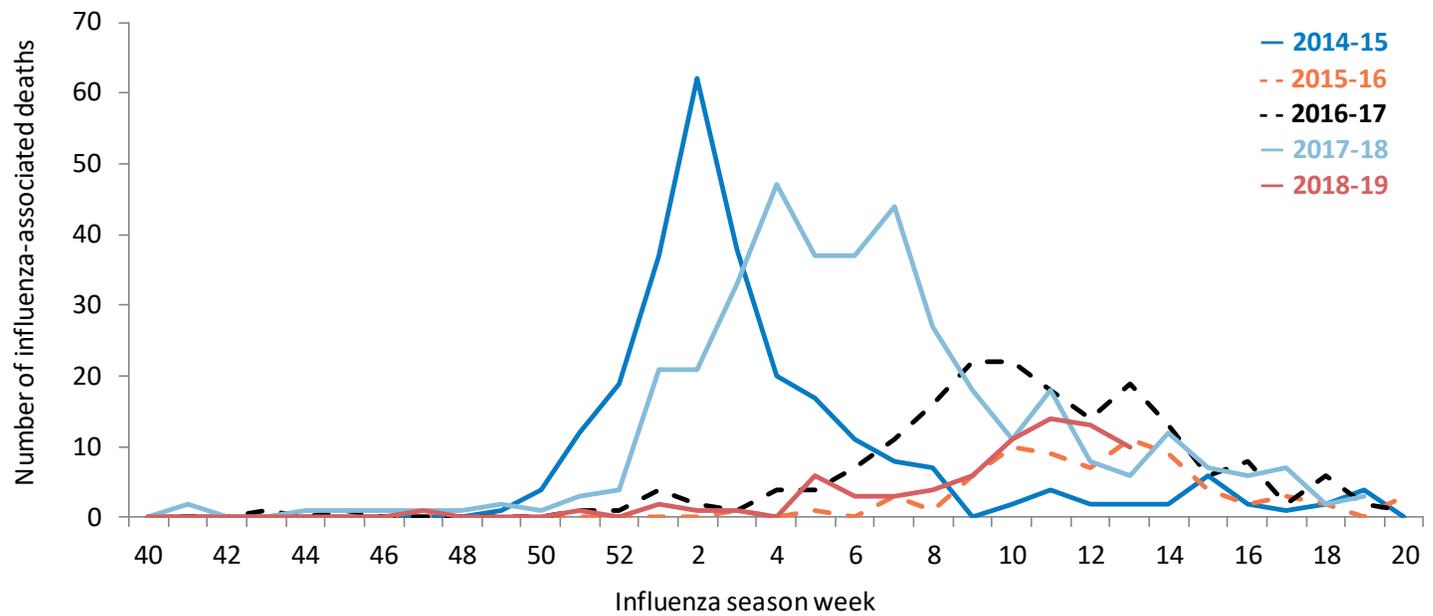
For National US influenza surveillance statistics visit: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)



# 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

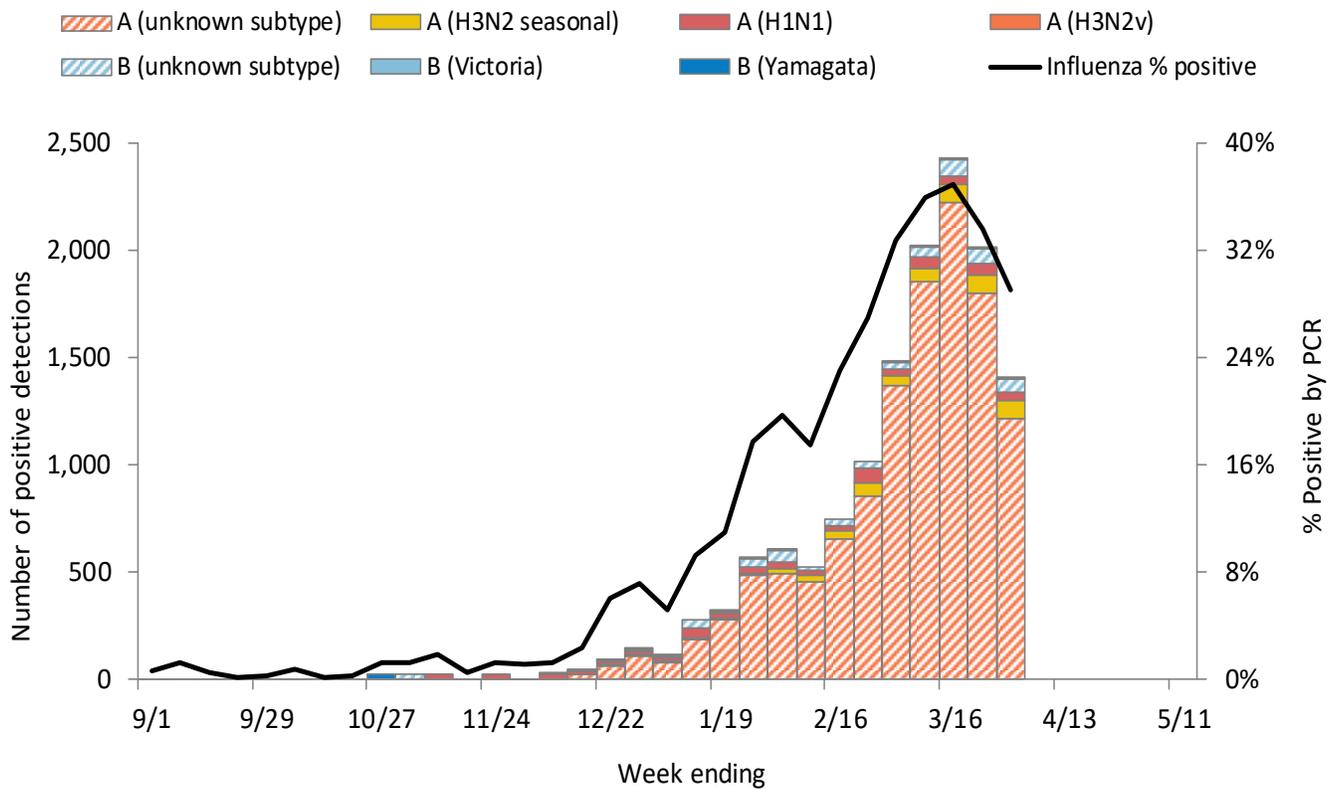
September 30, 2018 to March 23, 2019

Age group (years)	Week 13, 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%	1	5	2.5%
5-17	0	0	0.0%	0	2	2.2%
18-49	0	4	8.9%	9	67	3.6%
50-64	2	8	7.8%	17	207	4.5%
65+	8	67	10.9%	49	1453	5.8%
<b>All ages</b>	<b>10</b>	<b>79</b>	<b>10.4%</b>	<b>76</b>	<b>1734</b>	<b>5.5%</b>



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Wisconsin positive influenza results and subtypes by PCR

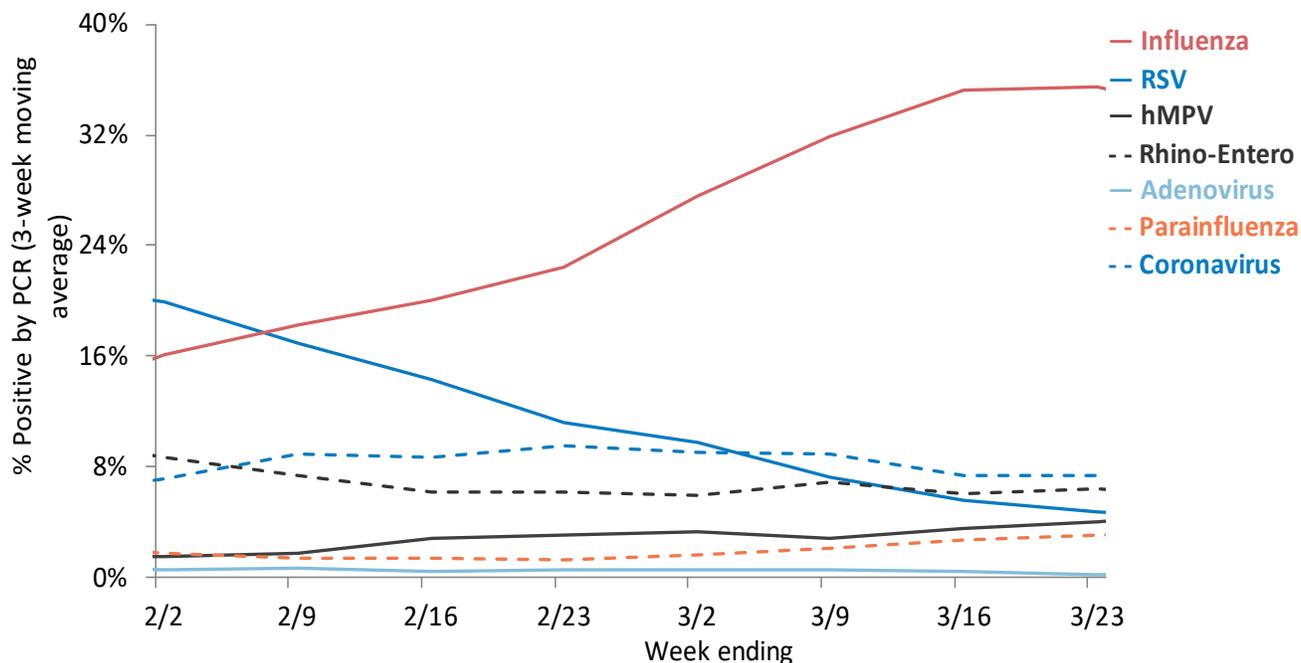


## Cumulative number of positive influenza PCR tests by subtype September 1, 2018 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	Influenza A: 96% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	Influenza B: 4% B (Unknown)	Total
Total positive (n)	568	566	12141	7	22	514	13818
% of total positive	4%	4%	88%	0%	0%	4%	100%

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Trends in respiratory virus activity by PCR



### Week 13: Ending on March 30, 2019

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	4796	1397	29.1%	84	43	1209	1	1	59

Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4
Parainfluenza	807	29	3.6%	2	0	26	1

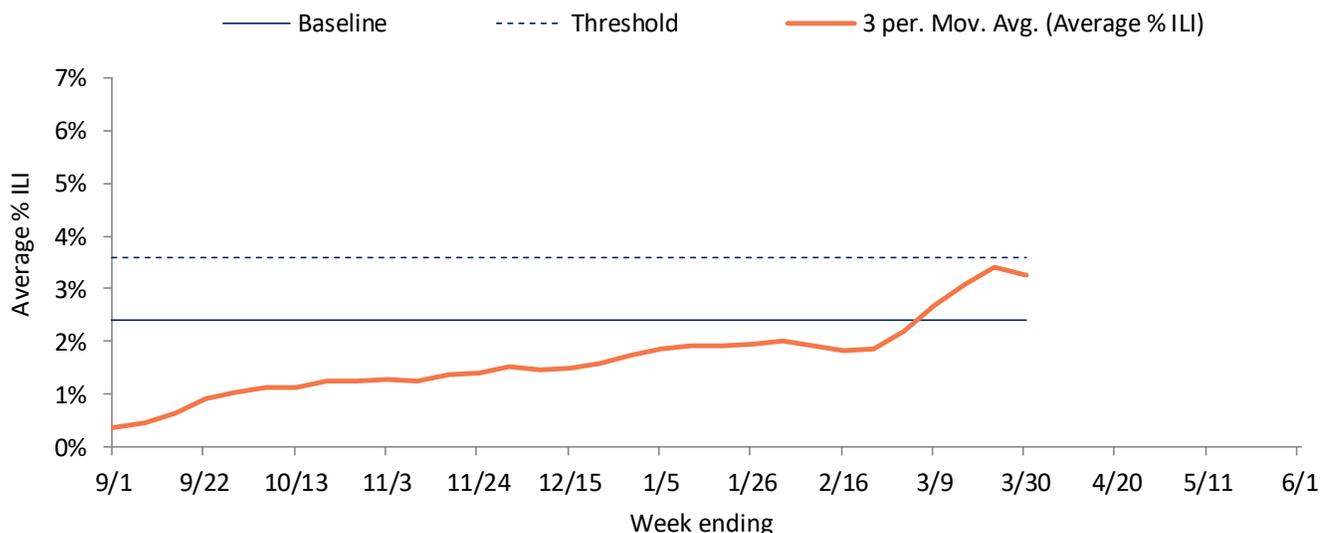
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1
Coronavirus (CoV)	417	22	5.3%	10	7	5	0

Respiratory virus	Tested	Positive (n)	Positive (%)
RSV	1377	44	3.2%
Human metapneumovirus	831	43	5.2%
Rhino-enterovirus	786	48	6.1%
Adenovirus	417	3	0.7%

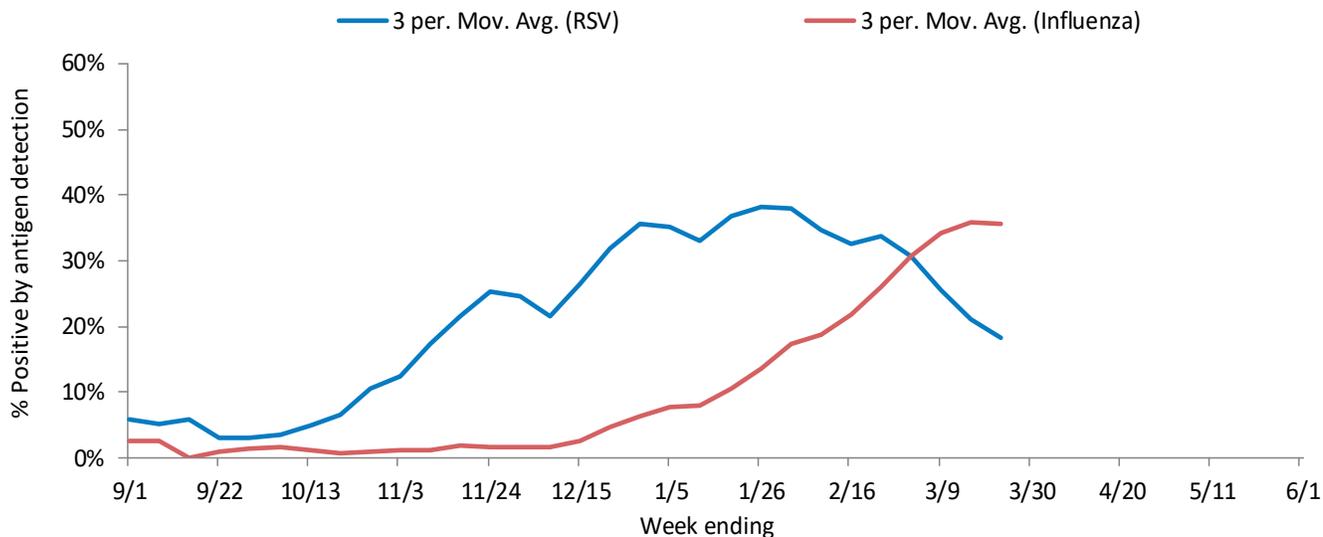
# WISCONSIN STATE SUMMARY

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							
2956	833	47	880	29.8%	156	21	13.5%	2.8%	2.4%	3.6%

## ILI activity trend analysis

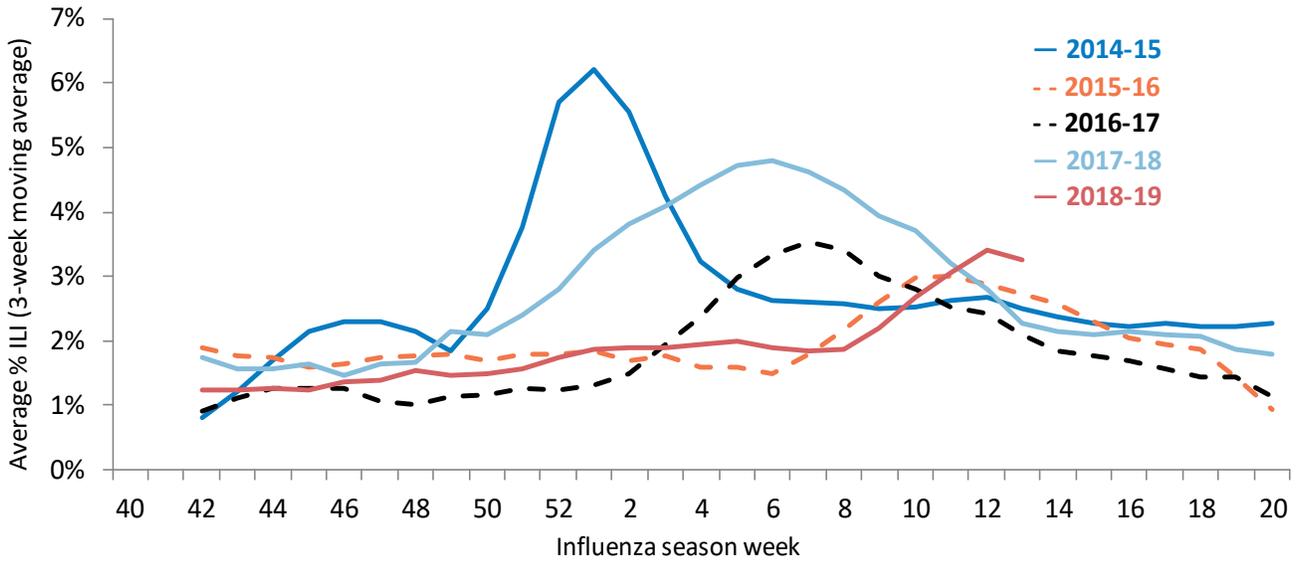


## Influenza and RSV trend analysis



# WISCONSIN STATE SUMMARY

## ILI activity trend analysis by influenza season, Wisconsin

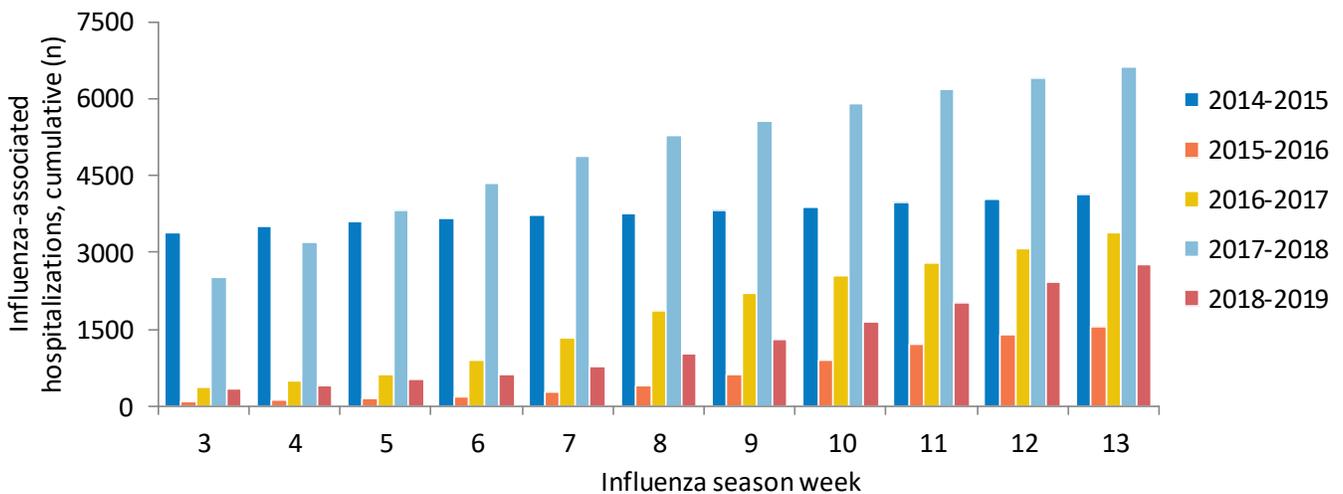


## Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System

September 1, 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	39	3	0	31	2	3	4	2	0	0
1-4	81	3	3	63	3	9	15	4	0	0
5-17	102	2	3	75	3	19	16	2	0	0
18-49	435	38	14	330	20	33	91	33	30	2
50-64	717	75	35	551	27	29	152	40	0	0
65+	1386	114	97	1058	64	53	194	52	0	0
<b>Total</b>	<b>2760</b>	<b>235</b>	<b>152</b>	<b>2108</b>	<b>119</b>	<b>146</b>	<b>472</b>	<b>133</b>	<b>30</b>	<b>2</b>

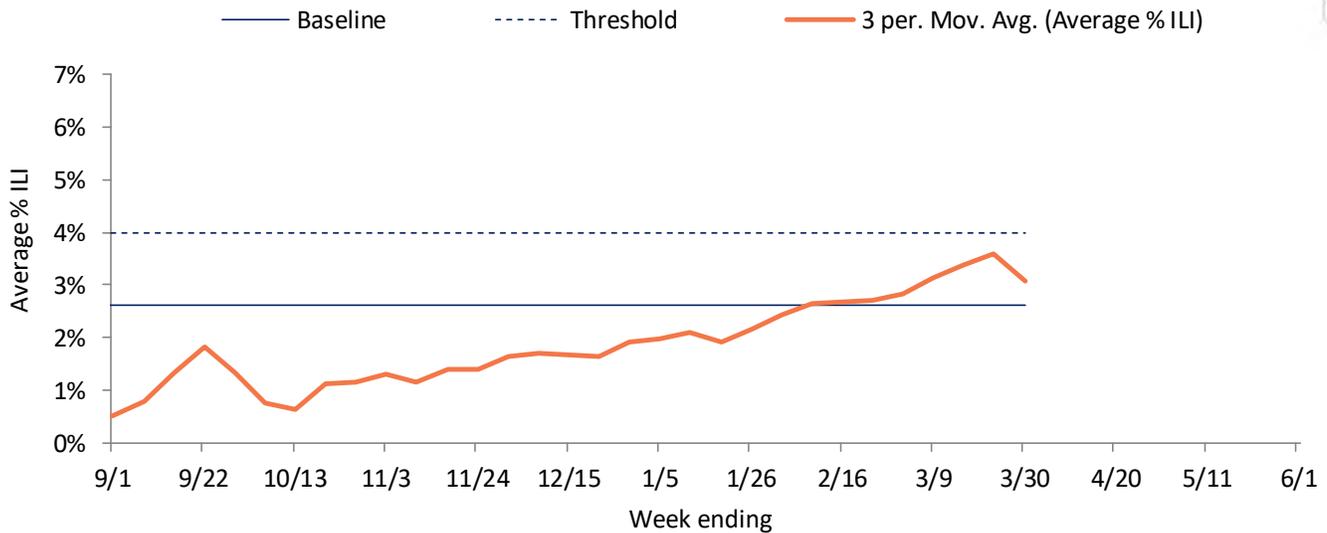
## Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



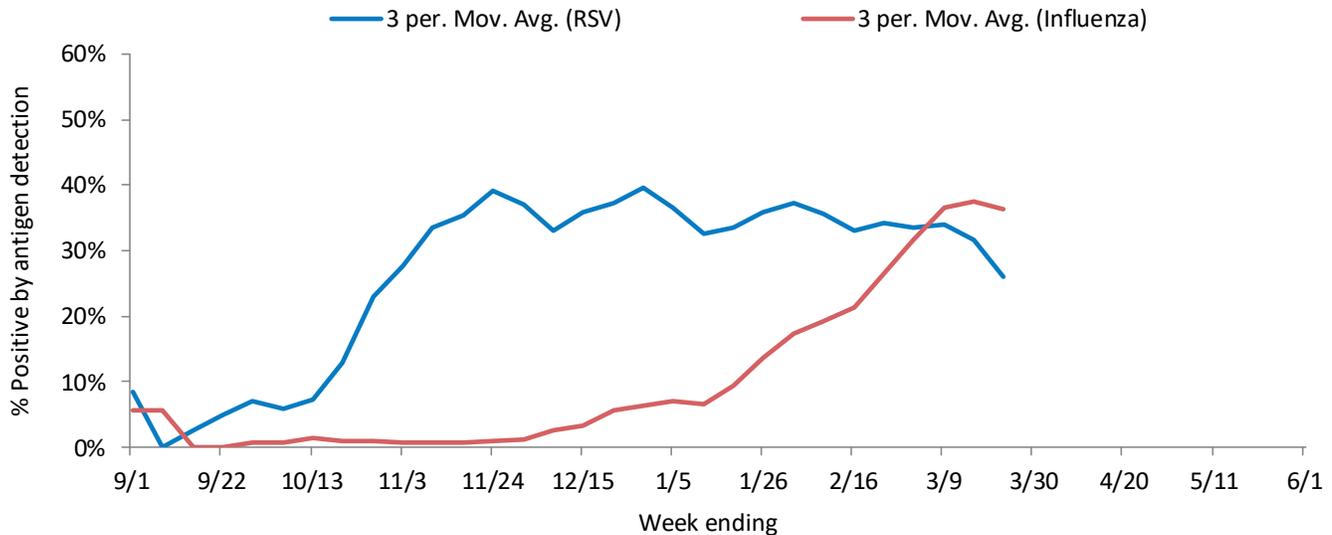
# NORTHEASTERN REGION

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							
1179	327	31	358	30.4%	65	12	18.5%	1.8%	2.6%	4.0%

## ILI activity trend analysis



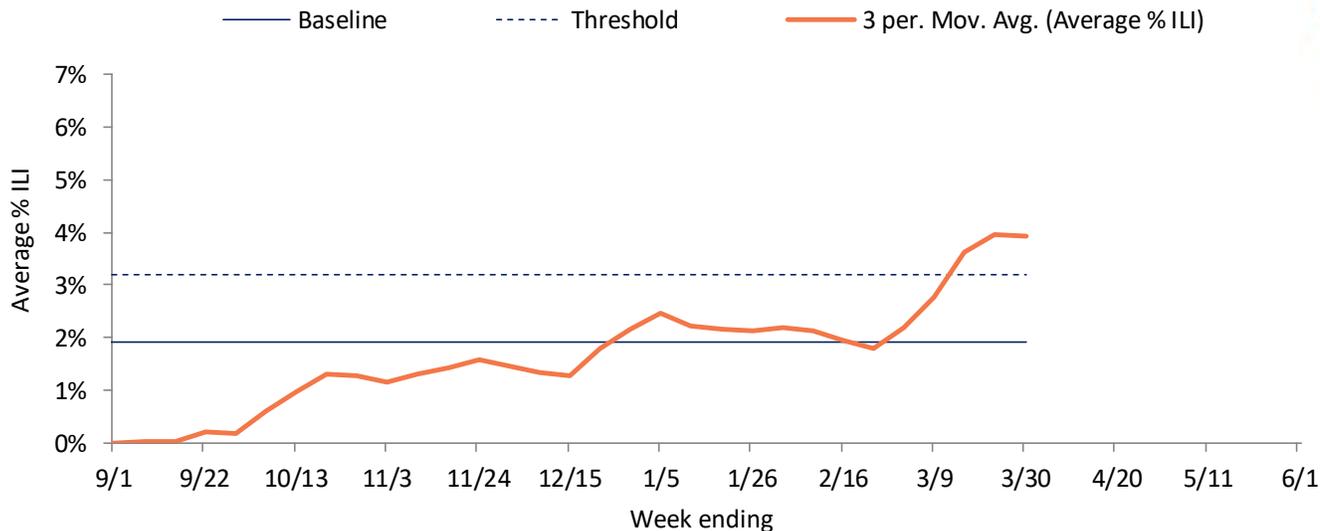
## Influenza and RSV trend analysis



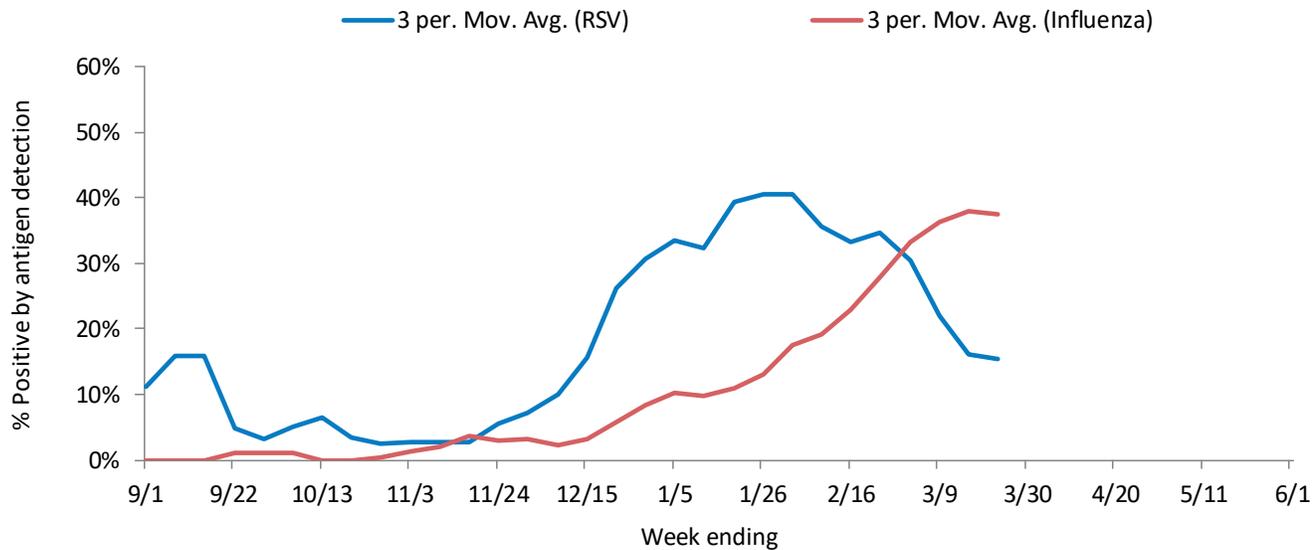
# NORTHWESTERN REGION

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							
645	157	1	158	24.5%	79	9	11.4%	3.3%	1.9%	3.2%

## ILI activity trend analysis



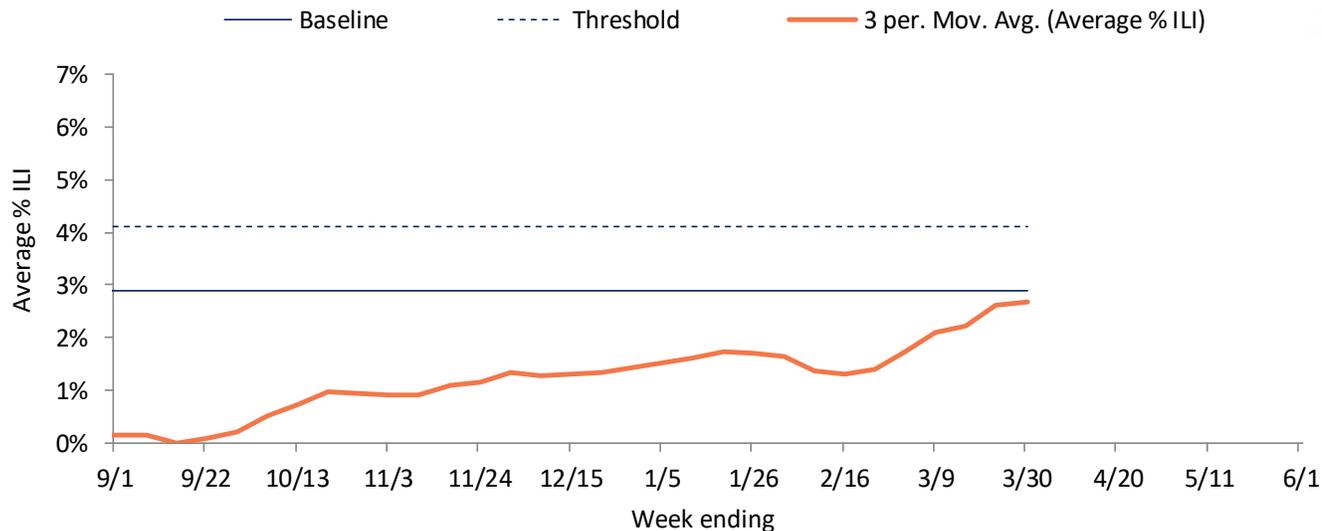
## Influenza and RSV trend analysis



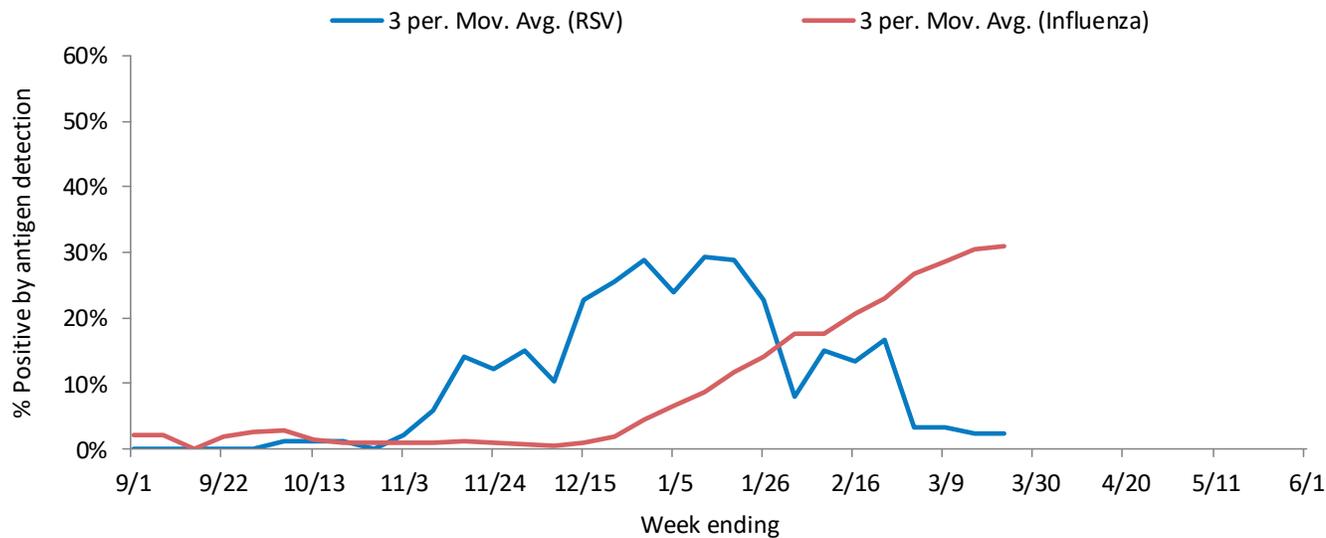
# SOUTHEASTERN REGION

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							
1007	304	11	315	31.3%	3	0	0.0%	2.5%	2.9%	4.1%

## ILI activity trend analysis



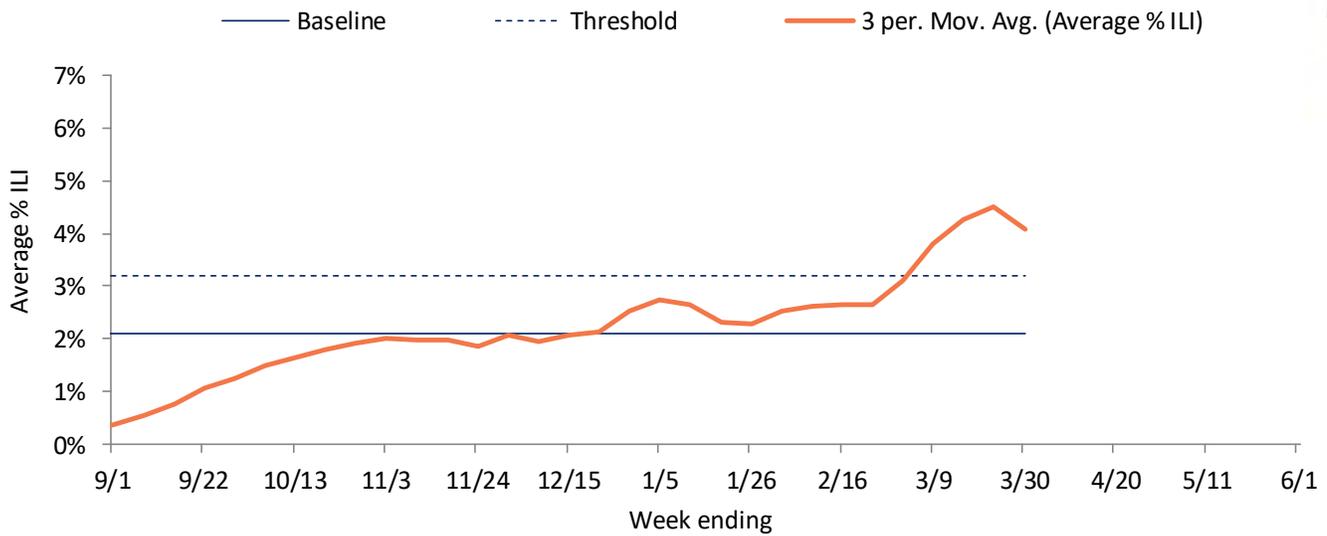
## Influenza and RSV trend analysis



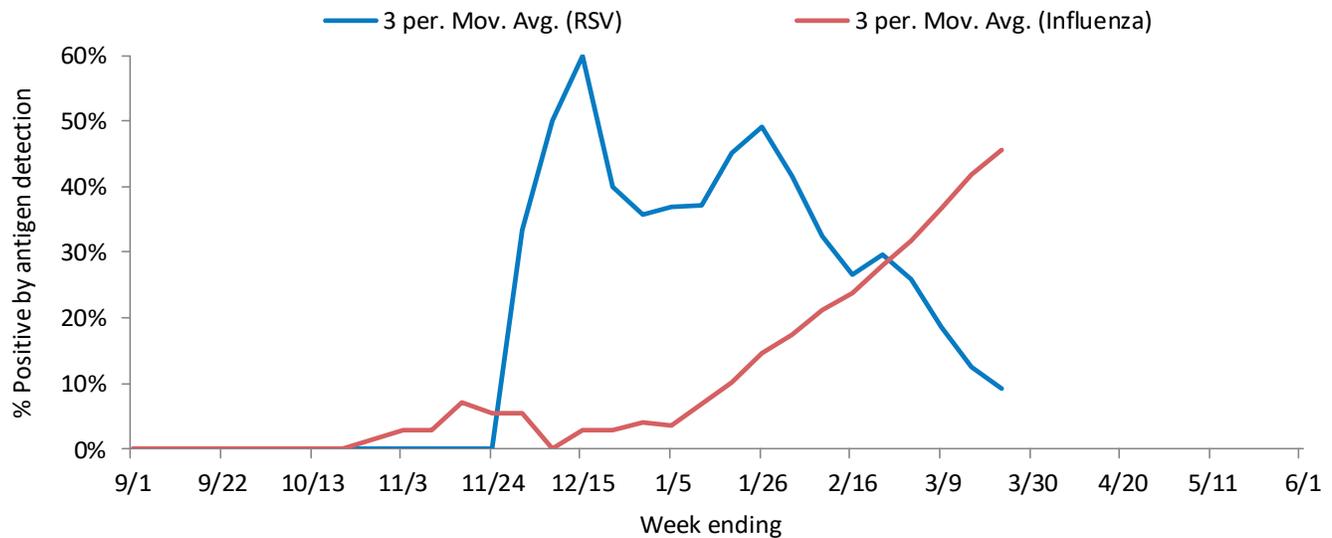
# SOUTHERN REGION

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							
125	45	4	49	39.2%	9	0	0.0%	3.6%	2.1%	3.2%

## ILI activity trend analysis

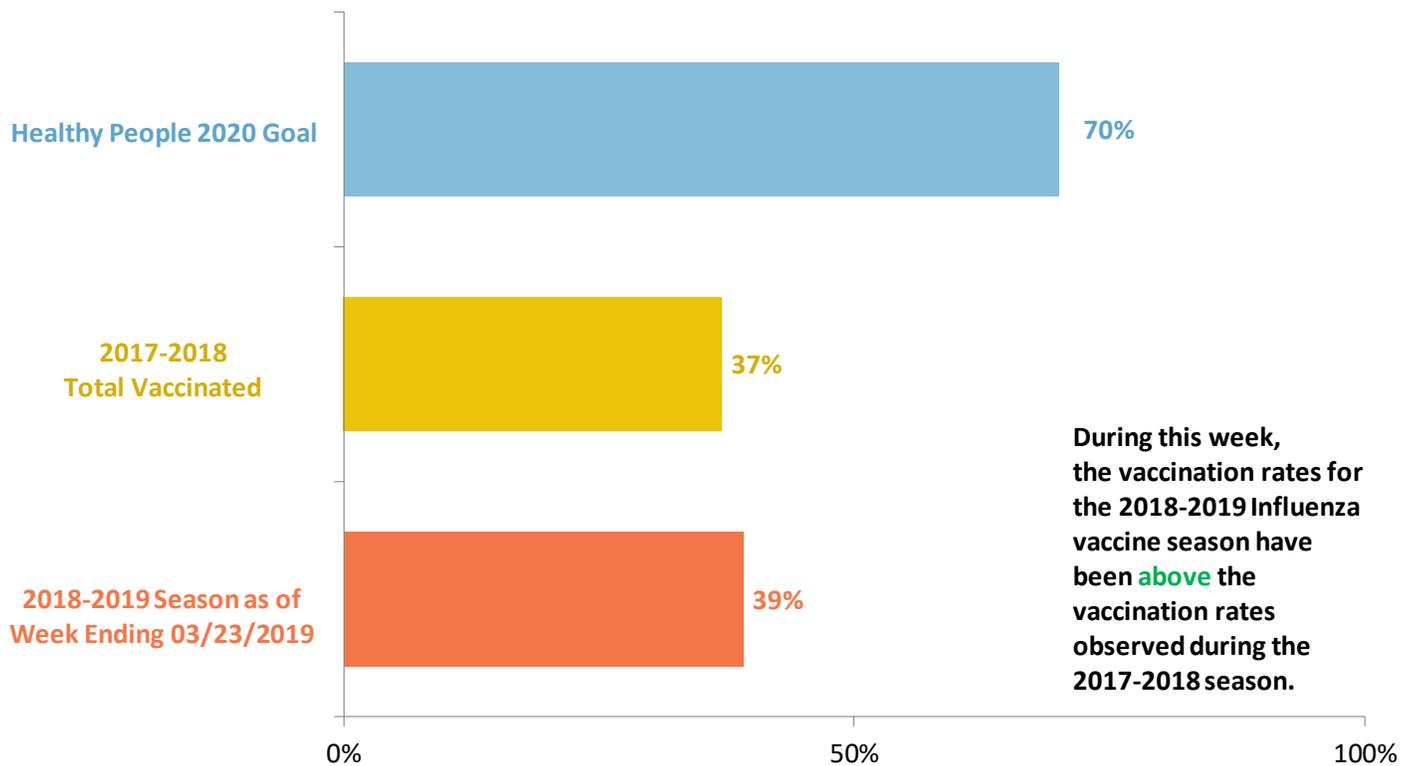


## Influenza and RSV trend analysis



# SEASONAL INFLUENZA VACCINATION

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



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:

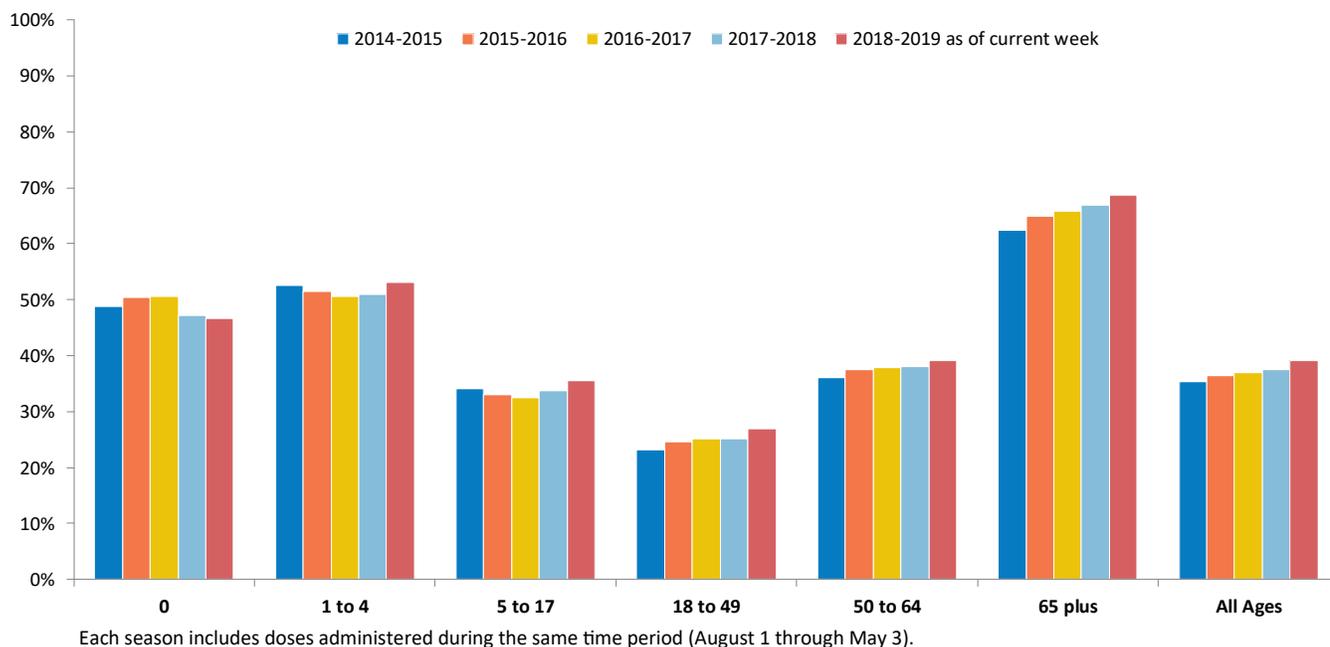
- A/Michigan/45/2015 (H1N1)pdm09-like virus
- A/Singapore/INFIMH-16-0019/2016 A(H3N2)-like virus (updated)
- B/Colorado/06/2017-like (Victoria lineage) virus (updated)

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

