



WISCONSIN DEPARTMENT OF HEALTH SERVICES
 Division of Public Health
 Bureau of Communicable Diseases



Respiratory virus surveillance report for the week ending October 3, 2015 week 39-15

AT-A-GLANCE

- Respiratory viruses identified this week :
 rhinovirus and parainfluenza viruses are predominant this week. Sporadic cases of influenza A and B were also identified.

- Influenza-like illness (ILI) activity for this week

Wisconsin	Low
Wisconsin (CDC level)	Low
Northwestern Region	Low
Northeastern Region	Low
Southeastern Region	Low
Southern Region	Low

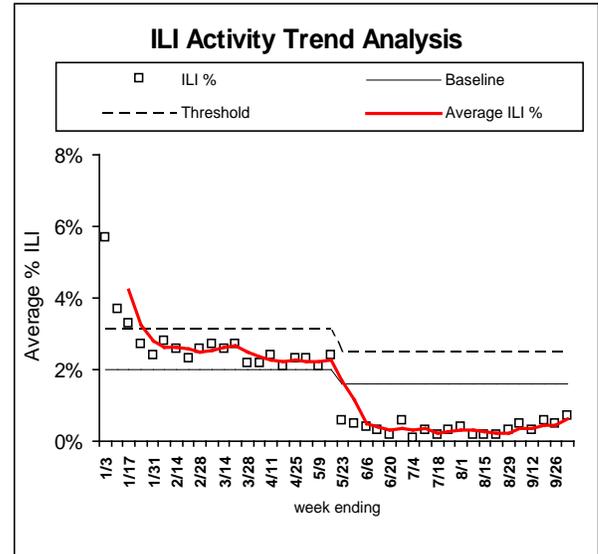
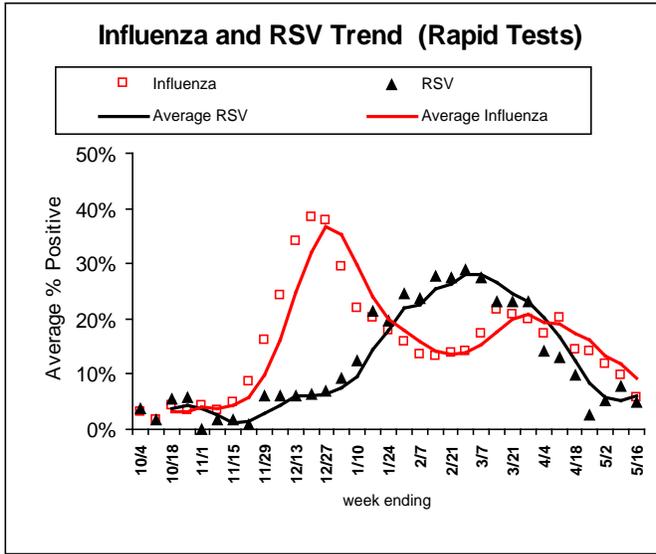
- ILI activity in Region V of the U.S. (WI, MN, IL, MI, OH, IN) is below baseline levels
- ILI activity in the U.S. is below baseline levels
- The Predictive Value Positive (PVP) for rapid influenza and RSV tests is: Low
 (PVP is the probability of disease in a patient with a positive test result)
- The Predictive Value Negative (PVN) for rapid influenza and RSV tests is: High
 (PVN is the probability of not having disease when the test result is negative)
- Influenza-associated pediatric deaths reported (October 4, 2014-present)

	<u>Week 39-15</u>	<u>Total to Date</u>
Wisconsin	0	6
Nationwide	0	145

WISCONSIN and REGIONAL SUMMARIES
(Trend analysis based on 3-week moving averages)

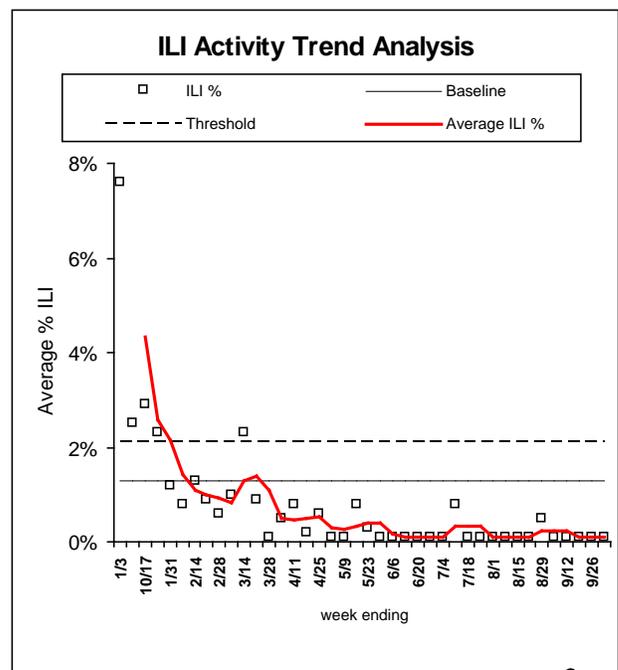
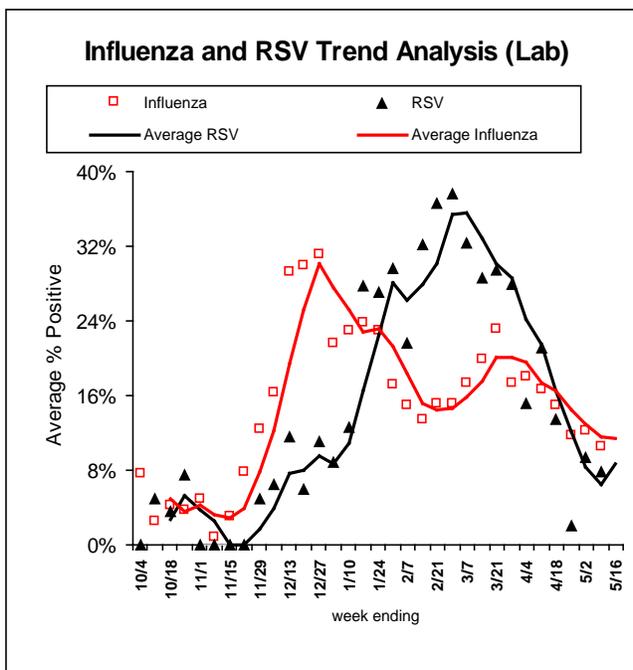
Wisconsin (ILI activity is Low)

INFLUENZA RAPID ANTIGEN TESTS				RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS			
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
								0.7%	1.6%	2.5%



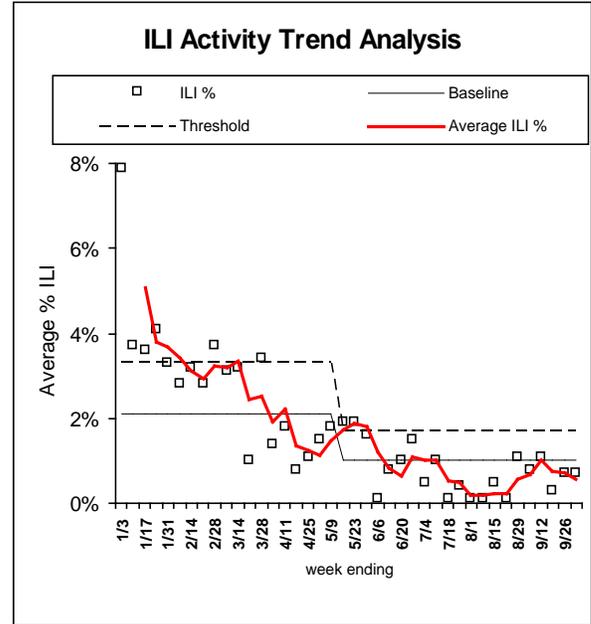
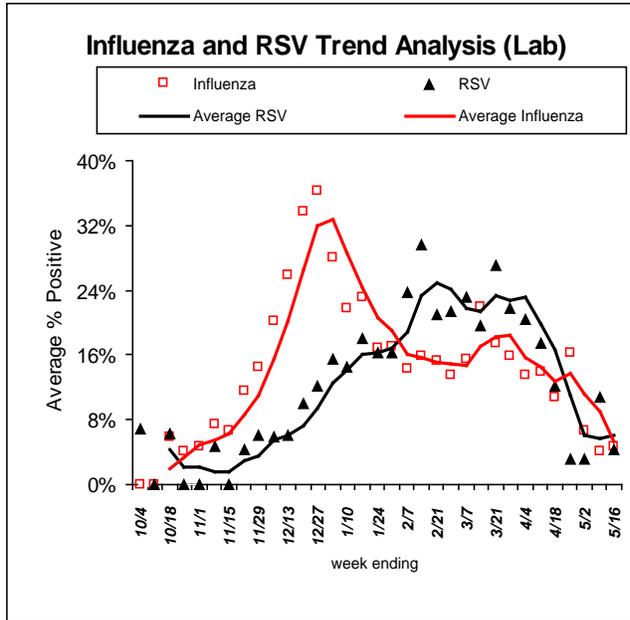
Northwestern Region (ILI activity is Low)

INFLUENZA RAPID ANTIGEN TESTS				RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS			
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
								0.1%	1.3%	2.1%



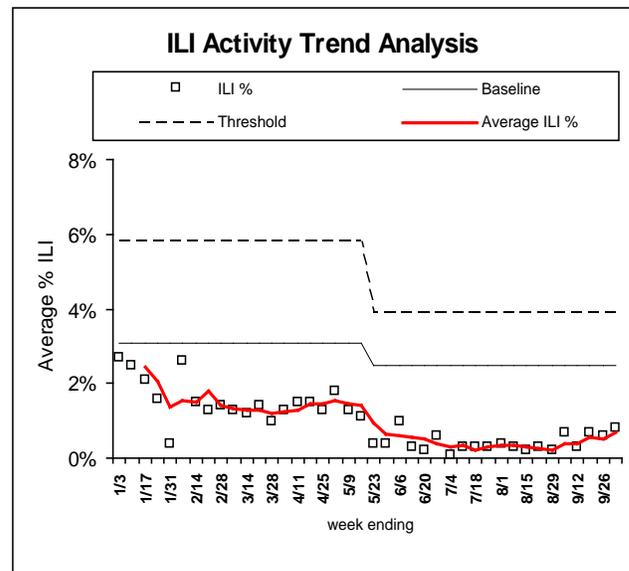
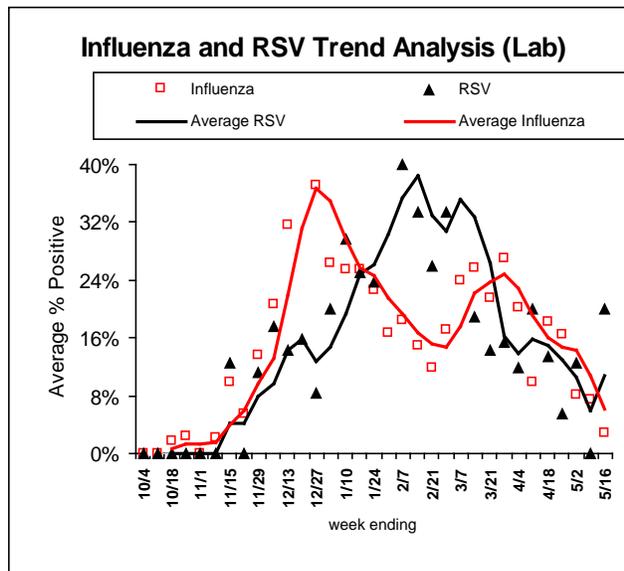
Northeastern Region (ILI activity is Moderate)

INFLUENZA RAPID ANTIGEN TESTS				RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS			
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
								0.7%	1.0%	1.7%



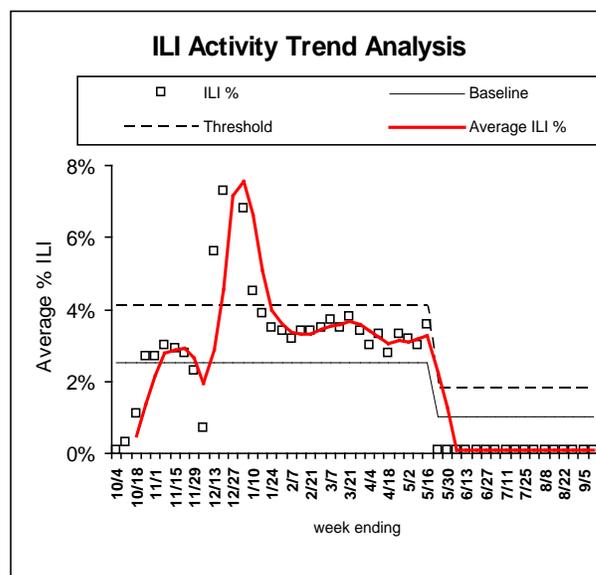
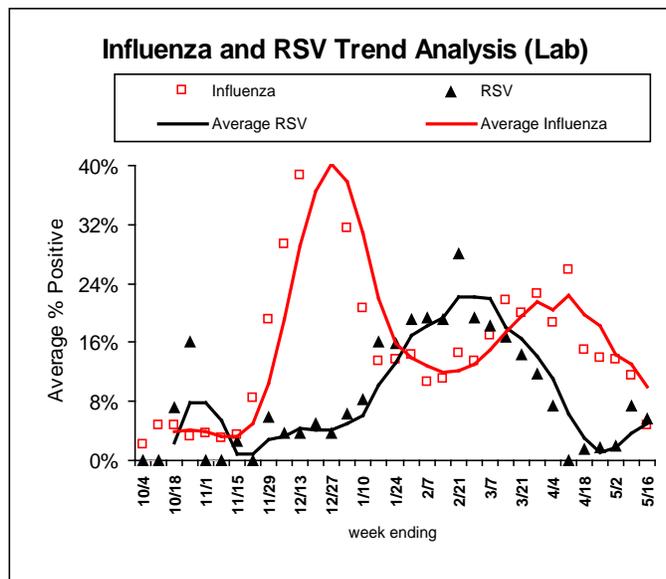
Southern Region (ILI activity is Low)

INFLUENZA RAPID ANTIGEN TESTS				RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS			
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
								0.8%	2.5%	3.9%



Southeastern Region (ILI activity is Low)

INFLUENZA RAPID ANTIGEN TESTS				RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS			
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
								0.5%	1.0%	1.8%



For the 2014-15 influenza season, data from the Western Region and the Northern Region will be combined and referred to as the Northwestern Region. This change was made in response to the small number of providers who participate in our weekly surveillance in the Northern Region.

Influenza Vaccine Composition 2015-2016

The trivalent vaccines for use in the 2015-2016 influenza season) contain the following:

- A/California/7/2009 (H1N1)pdm09-like virus;
- A/Switzerland/9715293/2013 (H3N2)-like virus;
- B/Phuket/3073/2013-like virus (Yamagata lineage).

It is recommended that quadrivalent vaccines containing two influenza B viruses contain the above three viruses and

- B/Brisbane/60/2008-like virus (Victoria Lineage)

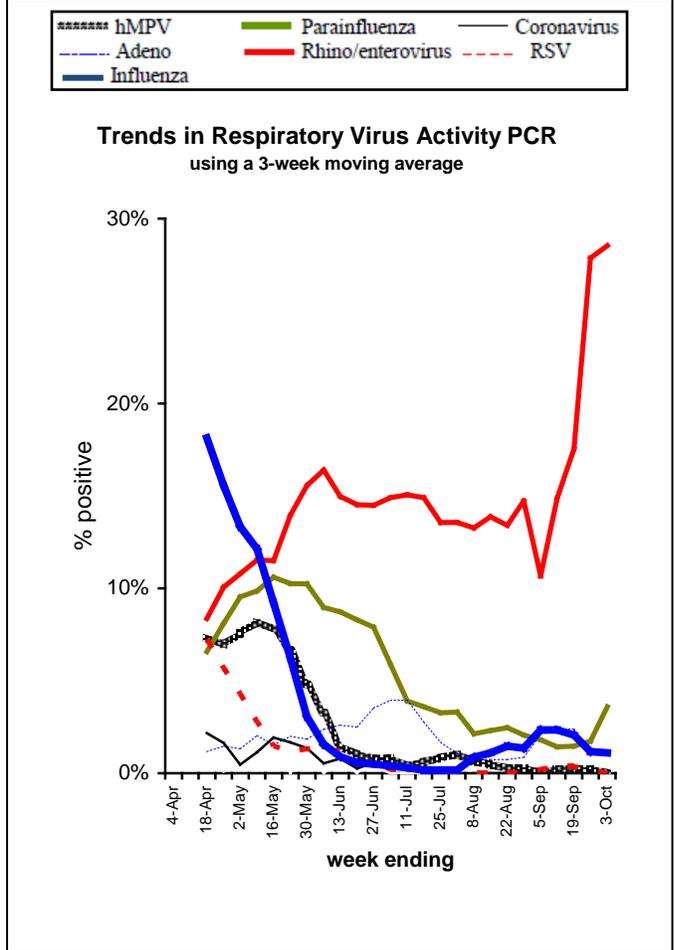
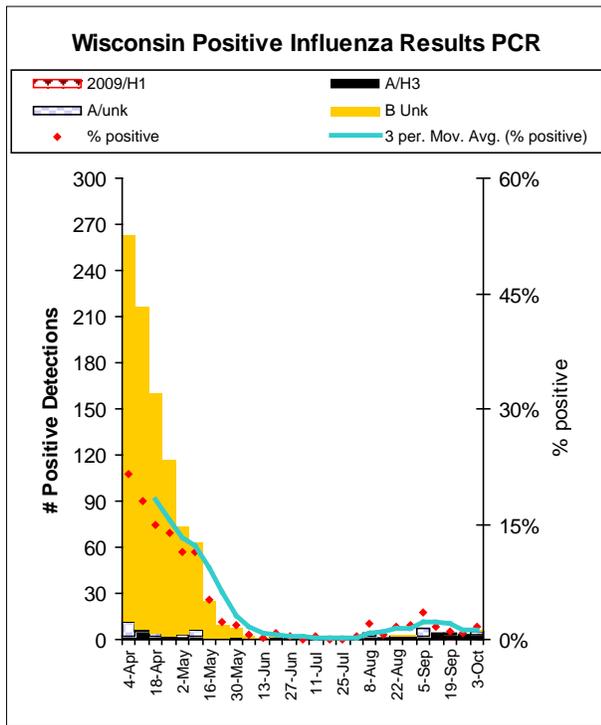
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

Respiratory Agent	Tested	Positive	% Positive	Flu A			Flu B		
				H3	pd2009 H1	Unk	Yamagata	Victoria	Unk
Influenza	417	6	1.4%	3	0	2	0	1	0

Respiratory Agent	Tested	Positive	% Positive	PI-1	PI-2	PI-3	PI-4
Parainfluenza	192	13	6.8%	9	0	1	3

Respiratory Agent	Tested	Positive	% Positive	CoV-229E	CoV-OC43	CoV-NL63	CoV-HKU1
Coronavirus	96	0	0%	0	0	0	0

Respiratory Agent	Tested	Positive	% Positive
RSV	219	0	0%
Human Metapneumovirus	192	0	0%
Rhino-entero	181	51	28.2%
Adenovirus	145	1	0.7%



**Cumulative number of positive influenza tests
By subtype, September 1, 2015 to present**

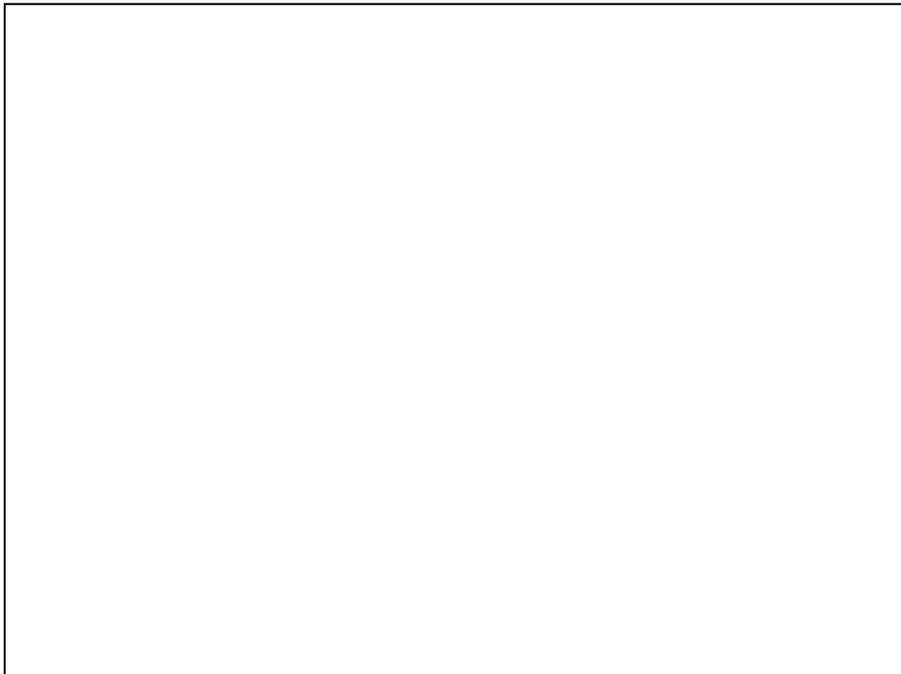
	Influenza A			Influenza B			Total
	pd2009 H1	H3	Unknown	Yamagata	Victoria	Unknown	
Total Number positive	1	14	8	0	1	0	24
% of Total number positive	4%	58%	33%	0%	4%	0%	100%

Influenza-associated Hospitalizations, September 1, 2015 to present

Age group	Total Number Reported (2015-16)	Influenza Subtypes				Not reported	Admitted to ICU	Required Mechanical Ventilation
		2009 H1N1	H3N2	A/Unknown	B			
< 1 year	0	0	0	0	0	0	0	0
1 to 4	0	0	0	0	0	0	0	0
5 to 17	1	0	0	1	0	0	0	0
18 to 49	2	0	0	1	1	0	1	0
50 to 64	1	0	0	1	0	0	0	0
65 and over	10	0	2	4	4	0	1	0
Total	14	0	2	7	5	0	2	0

Influenza-associated Hospitalizations by Public Health Region, September 1, 2015 to present

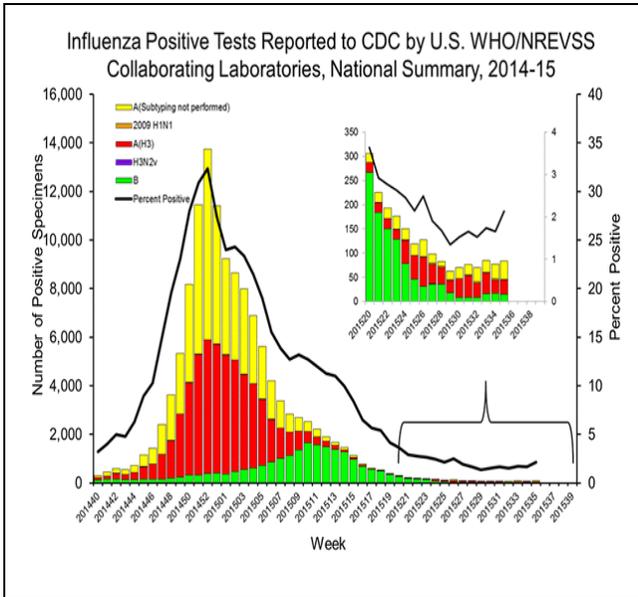
Region	Week 39	Season Total
Southeastern	0	1
Southern	1	4
Northeastern	1	8
Western	0	0
Northern	0	1
Wisconsin	0	14



Incidence/100,000

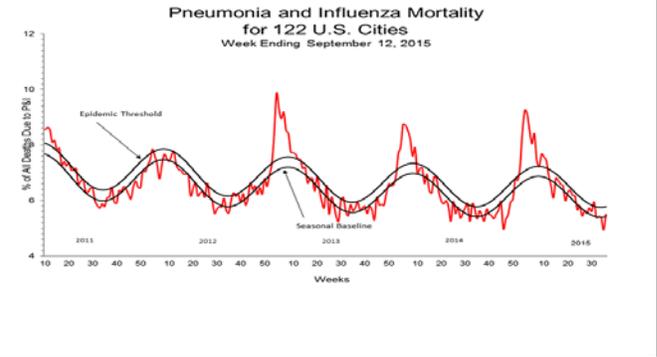
Age group	Wisconsin	National
<1		
1 to 4		
0 to 4		
5 to 17		
18 to 49		
50 to 64		
65+		
total		

NATIONAL INFLUENZA SURVEILLANCE



Pneumonia and Influenza (P&I) Mortality Surveillance:

During week 36, 5.5% of all deaths reported through the 122 Cities Mortality Reporting System were due to P&I. This percentage was below the epidemic threshold of 5.8% for week 35.



State and Territorial reports will resume in October, 2015

Influenza-like illness indicator map will resume in October, 2015.

*This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Influenza characterization data will resume in October, 2015.

Influenza antiviral resistance data will resume in October, 2015.