WISCONSIN DEPARTMENT OF HEALTH SERVICES

Division of Public Health
Bureau of Communicable Diseases and Emergency Response

Respiratory virus surveillance report for the week ending April 7, 2012 week 12-14

AT-A-GLANCE

- Respiratory viruses identified this week :
  Rhino/enterovirus,RSV, and influenza (A/H3) are predominant.

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

Wisconsin	Low
Wisconsin (CDC level)	Minimal
Western Region	Low
Northern 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 tests is: declining
  (PVP is the probability of disease in a patient with a positive test result)

- The Predictive Value Negative (PVN) for rapid influenza tests is: increasing
  (PVN is the probability of not having disease when the test result is negative)

- Influenza-associated pediatric deaths (October 8, 2011-present)

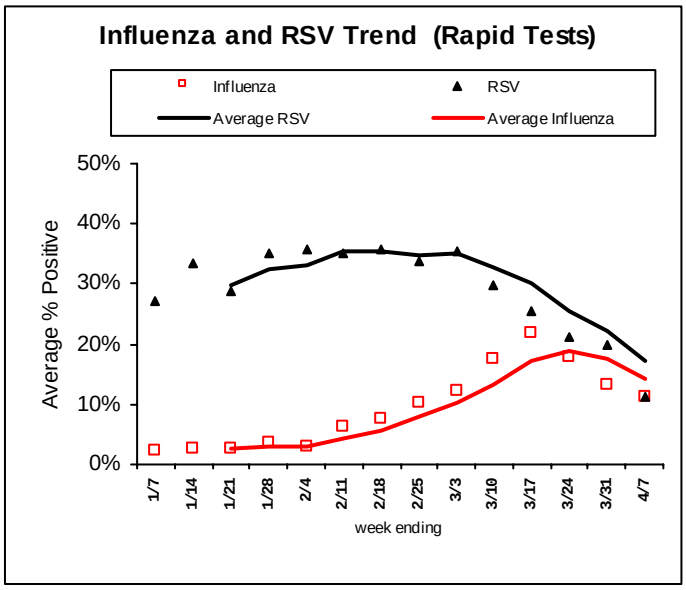
	Week 12-14	Total to Date
Wisconsin	0	1
United States	0	13

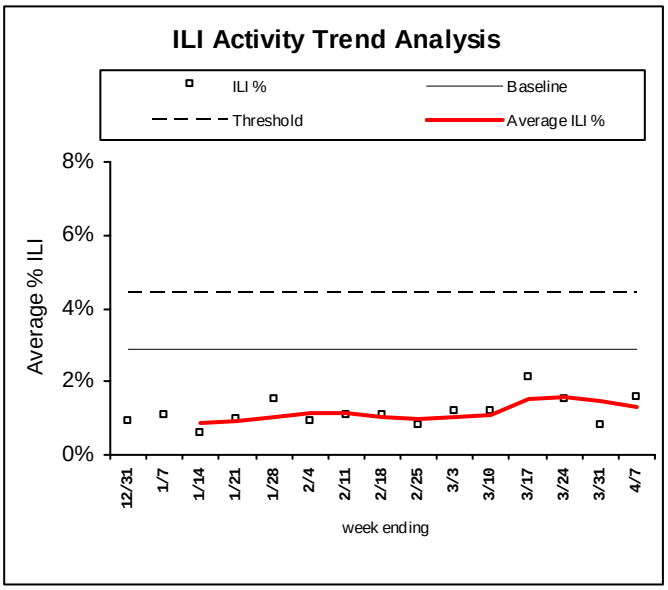
The influenza and RSV season continue in Wisconsin. March 31, 2012 ***is not*** recognized as the official end of either season. The determination of when either season ends is based on positive laboratory results. As long as positive results are seen we do not consider the season to have ended.

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

Wisconsin (ILI activity is Low)

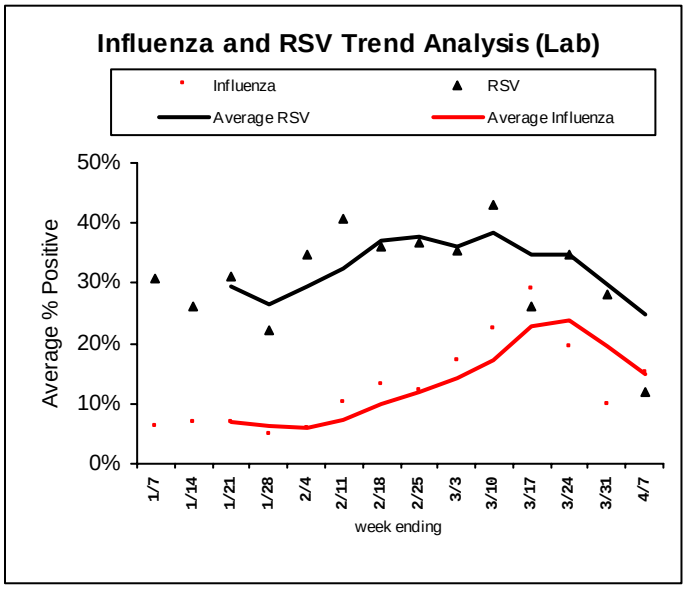
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
557	38	24	62	11.1%	206	23	11.2%	1.6%	2.9%	4.4%

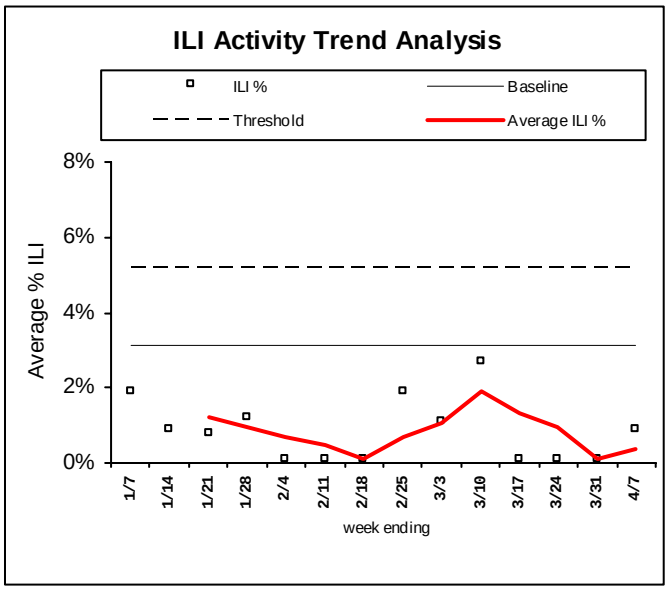




Northern Region (ILI activity is Low)

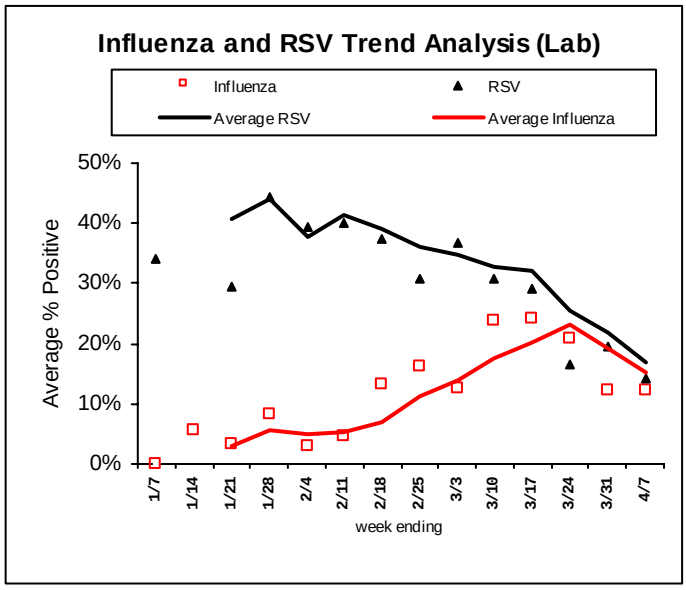
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
66	8	2	10	15.2%	25	3	12.0%	0.9%	3.1%	5.2%

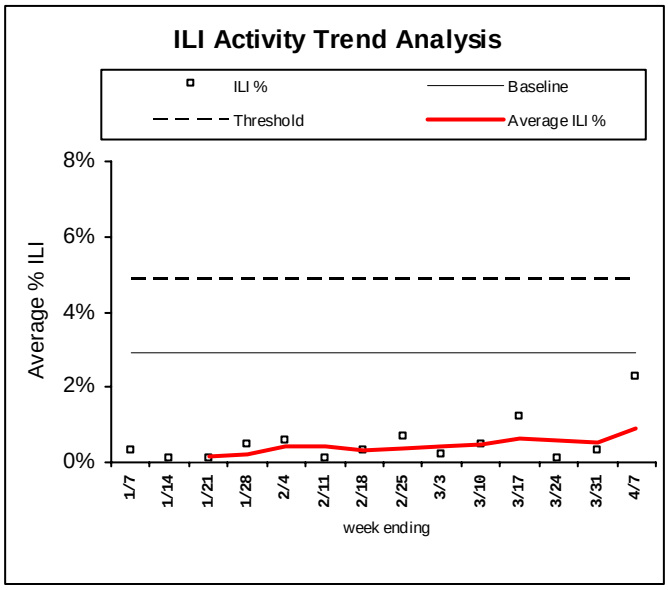




Western Region (ILI activity is Low)

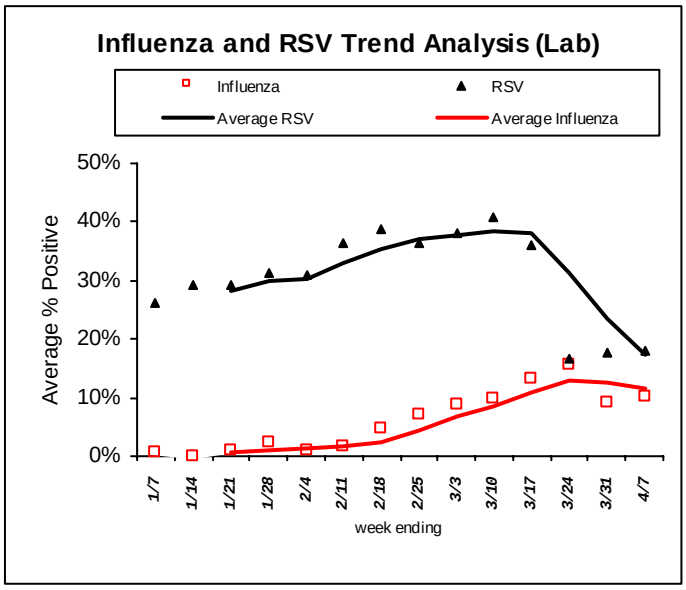
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
82	10	0	10	12.2%	35	5	14.3%	2.3%	2.9%	4.9%

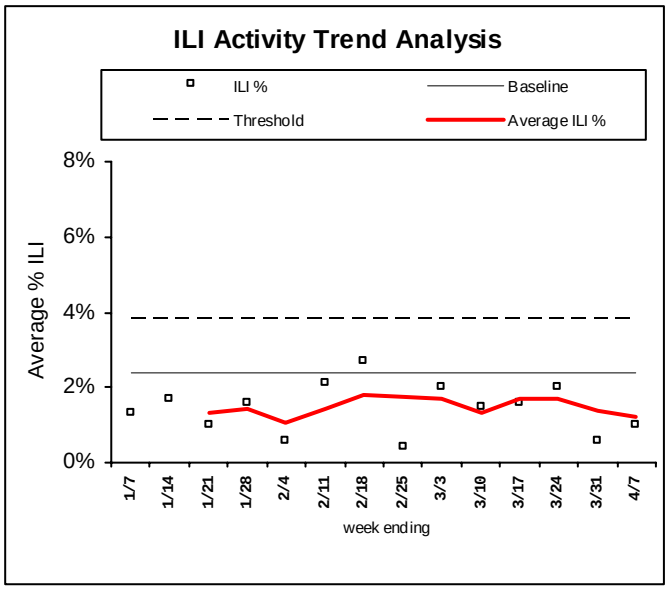




Northeastern Region (ILI activity is Low)

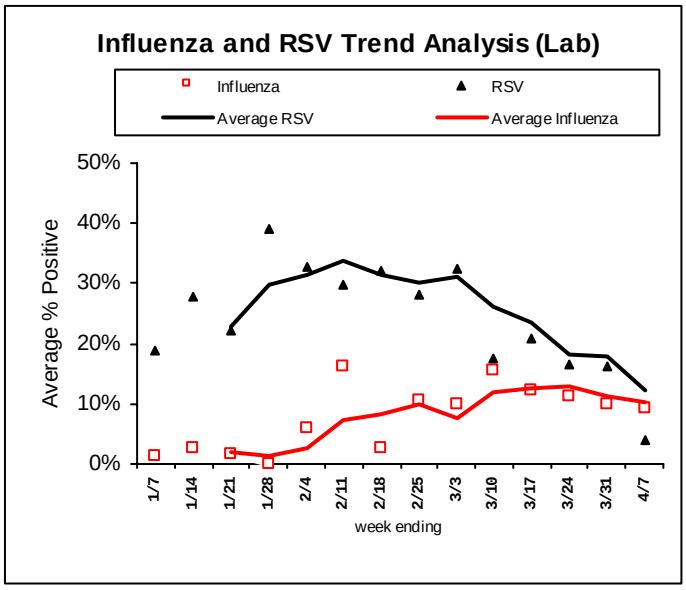
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
87	7	2	9	10.3%	39	7	17.9%	1.0%	2.4%	3.8%

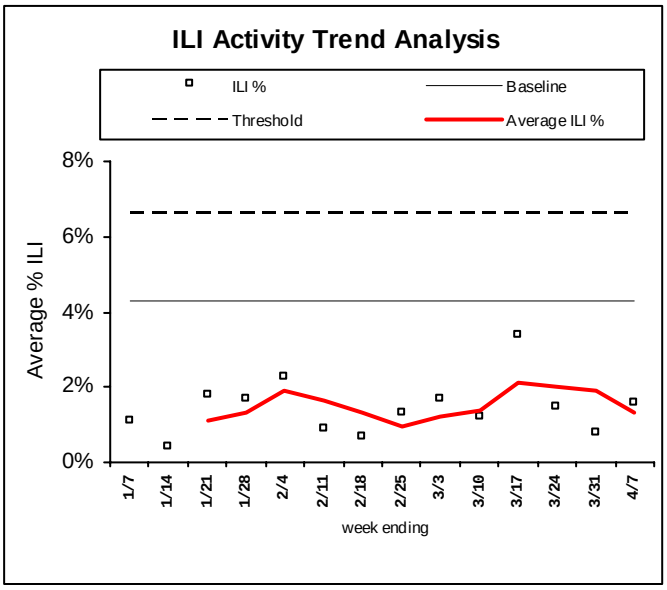




Southern Region (ILI activity is Low)

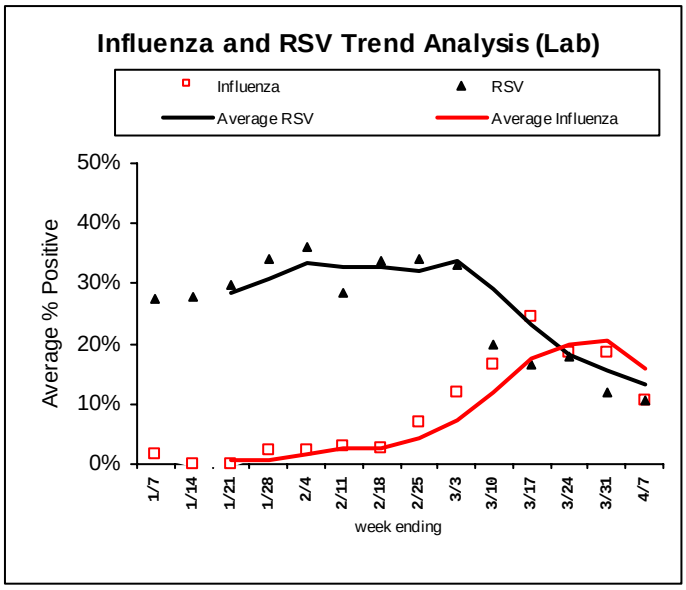
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
86	3	5	8	9.3%	50	2	4.0%	1.6%	4.3%	6.6%

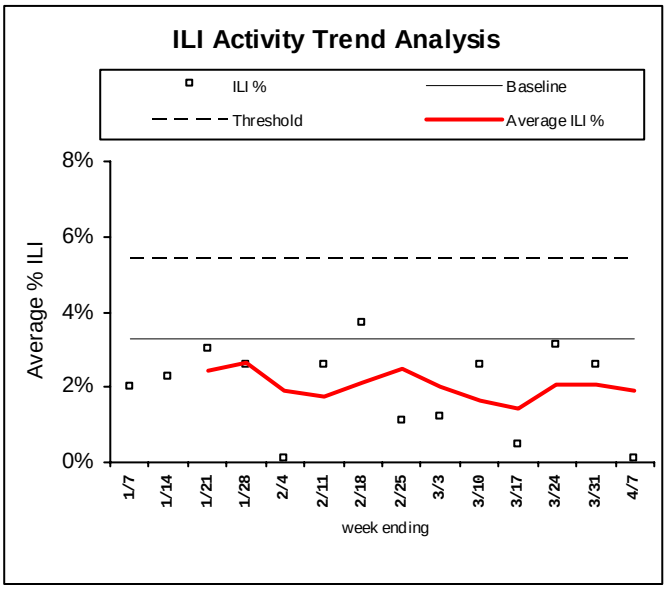




Southeastern Region (ILI activity is Low)

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							
236	10	15	25	10.6%	57	6	10.5%	0.1%	3.3%	5.5%





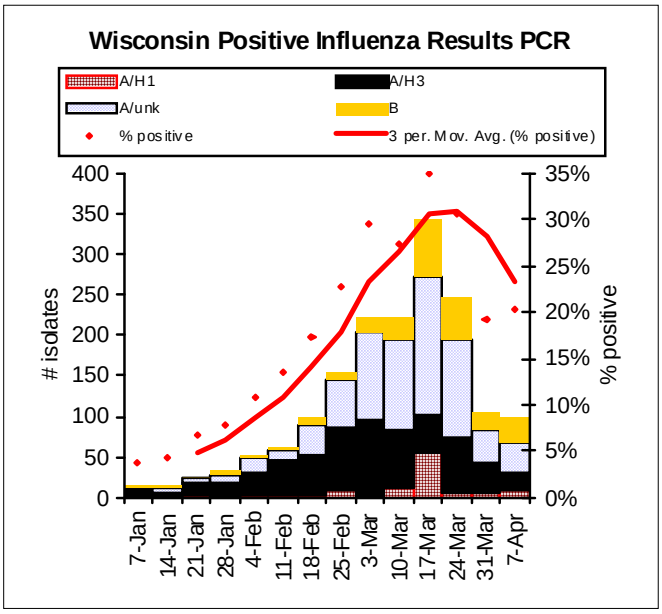
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

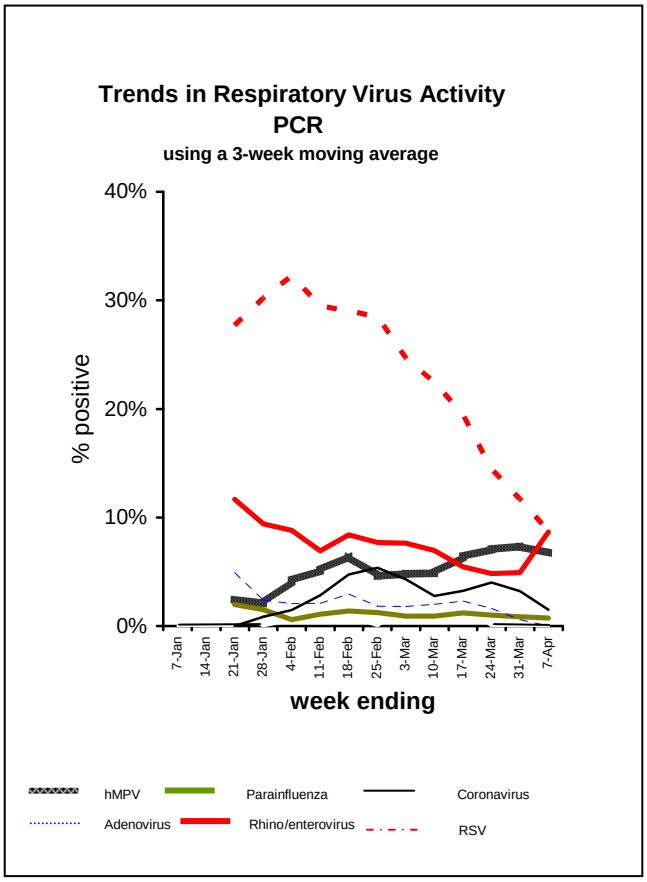
Respiratory Agent	Tested	Positive	% Positive	Flu A (H1)	Flu A (H3)	Flu A (Unk)	Flu B
Influenza	483	98	20.2%	8	24	36	30

Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	176	1	0.5%	0	1	0	0

Respiratory Agent	Tested	Positive	% Positive	CoV-229E	CoV-OC43	CoV-NL63	CoV-HKU1
Coronavirus	65	0	0%	0	0	0	0

Respiratory Agent	Tested	Positive	% Positive
RSV	228	19	8.3%
Human Metapneumovirus	115	6	5.2%
Rhino-entero	92	12	13.0%
Adenovirus	92	0	0%





Cumulative number of positive influenza tests
By subtype, October 1, 2011 to present

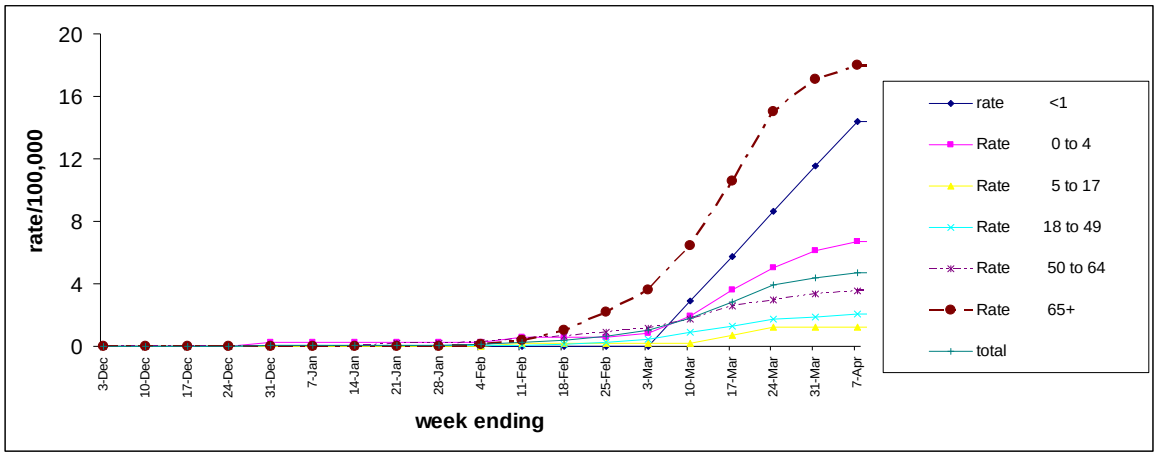
	2009 A/H1	A/H3	A/Unknown	B	Total
Total Number positive	**127**	**538**	**845**	**267**	**1777**
% of Total number positive	**7%**	**30%**	**48%**	**15%**	**100%**

Influenza-associated Hospitalizations, October 1, 2011 to present

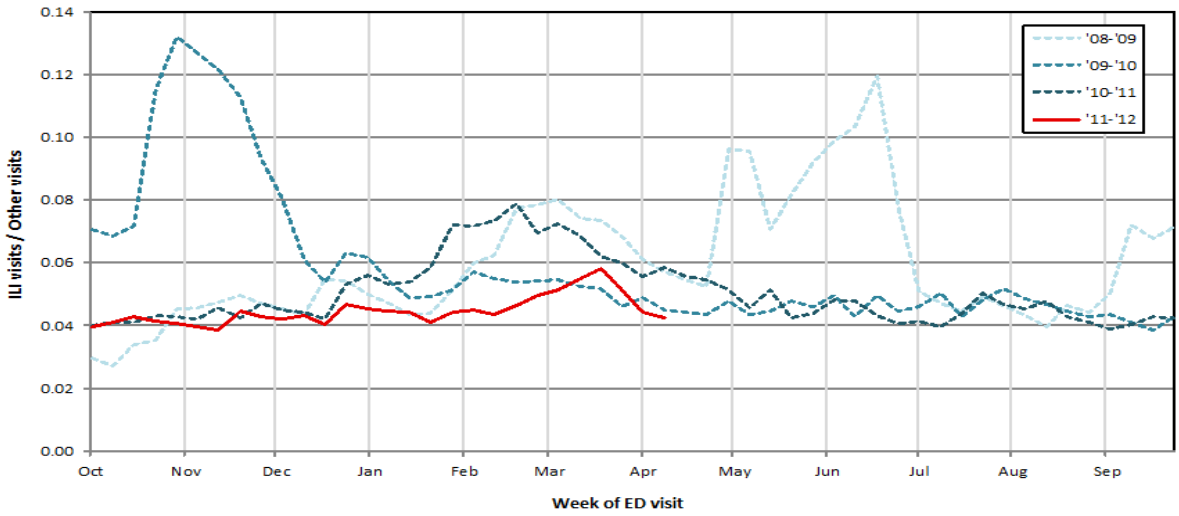
New hospitalizations this week 16

Age Group	Total Number Reported (year)	Influenza Subtypes				Admitted to ICU	Required Mechanical Ventilation
		A/H1	A/H3	A/Unknown	B		
< 1 year	11	0	1	8	2	3	0
0 to 4*	24	0	3	18	3	3	1
5 to 17	13	0	1	8	4	2	1
18 to 49	50	5	4	36	5	9	2
50 to 64	38	0	5	34	1	6	2
65 and over	141	1	16	114	9	13	0
Total	268	6	29	210	22	32	6

Cumulative hospitalization rate /100,000 age specific population



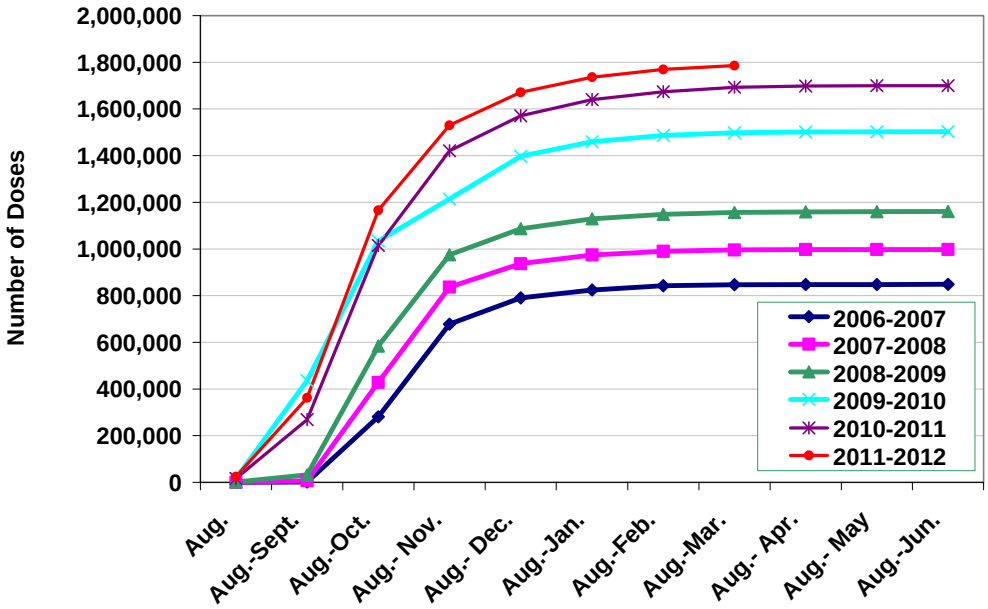
Weekly Influenza-like illness (ILI) Ratio, as reported by 46 Wisconsin hospital emergency departments, by Year



Seasonal Influenza Vaccination in Wisconsin

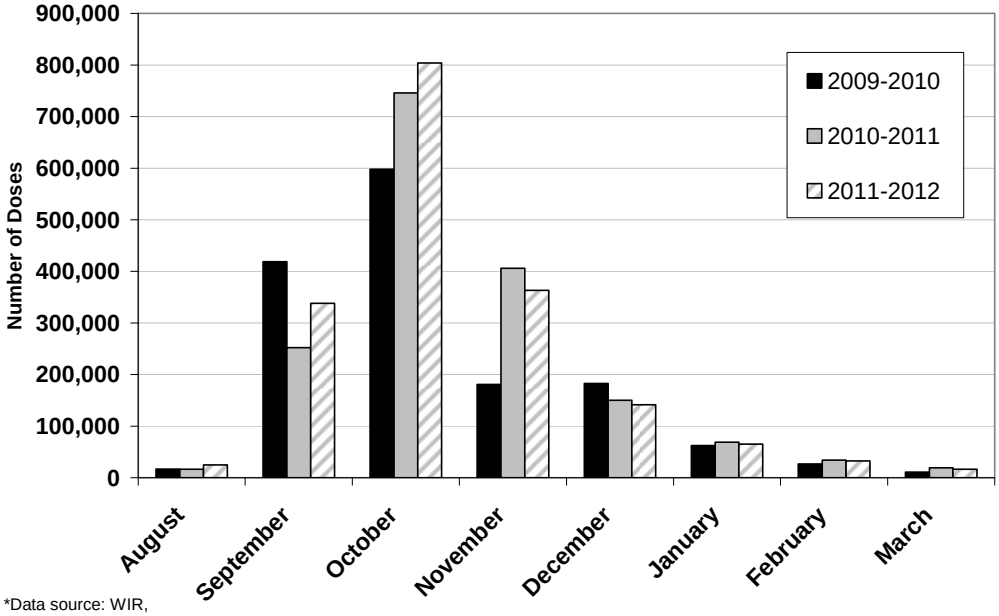
Based on Doses Reported to the Wisconsin Immunization Registry (WIR)
April 12, 2012

Cumulative Doses of Seasonal Influenza Administered and Reported to the WIR, 2006-2012 Influenza Seasons

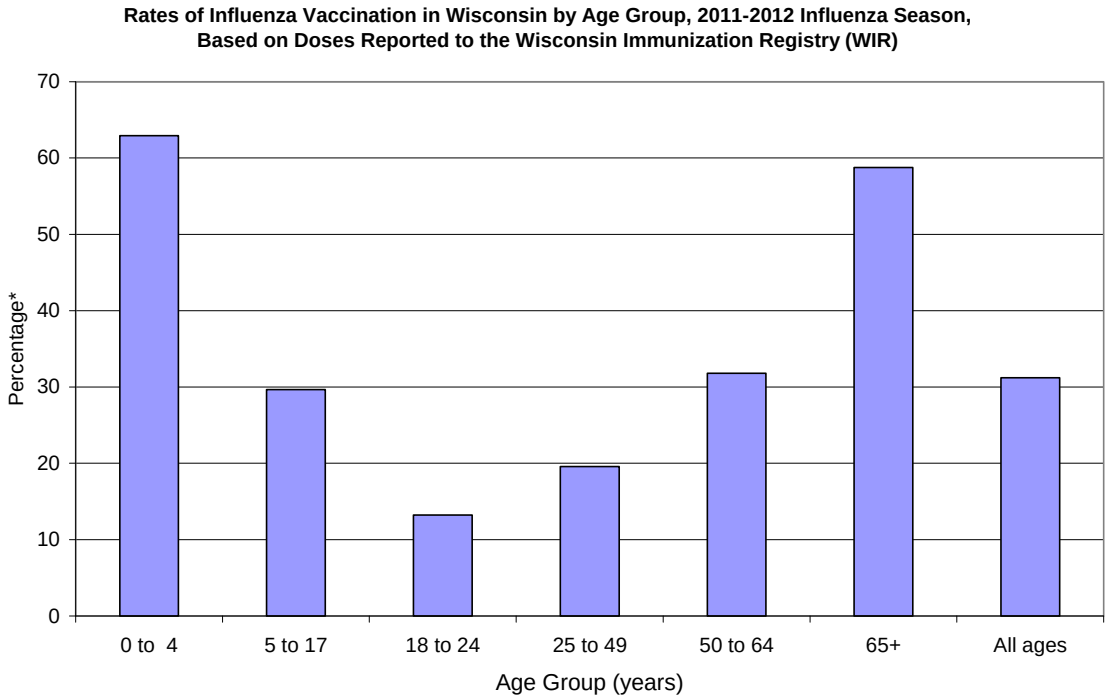


Data source: WIR
2011-2012 data as of 4.12.12

Number of Doses of Seasonal Influenza Vaccine Administered and Reported to the WIR, by Month for Influenza Seasons 2009-2012



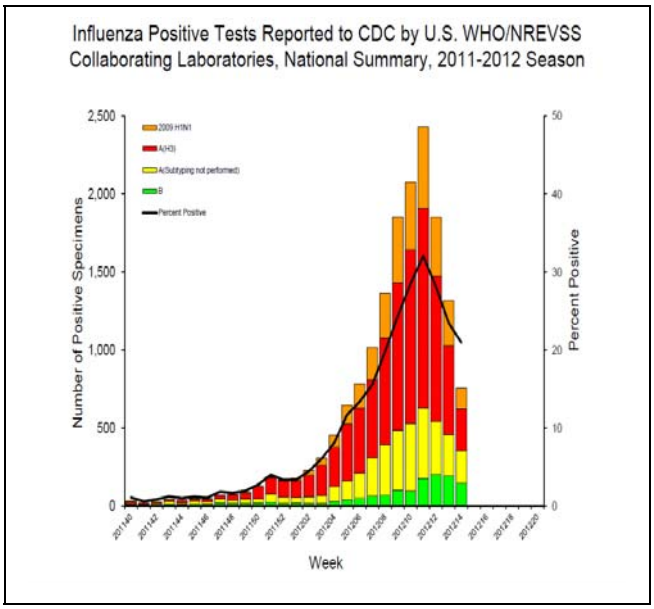
*Data source: WIR,
2011-2012 data as of 4.12.12

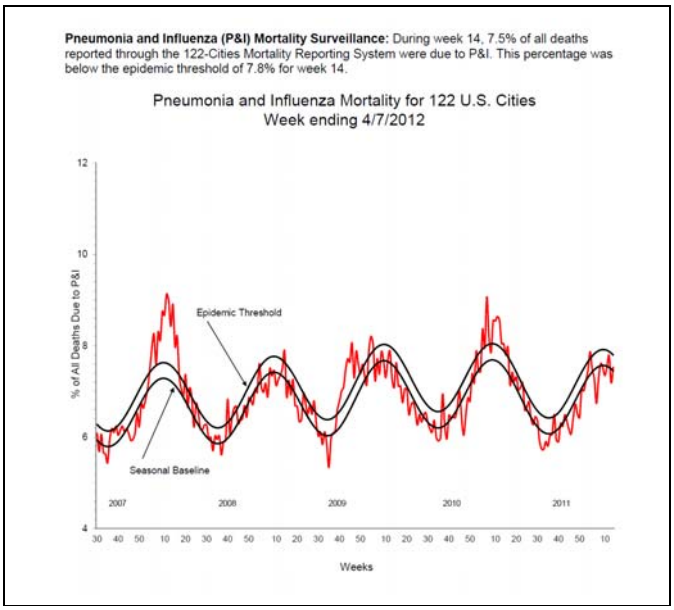


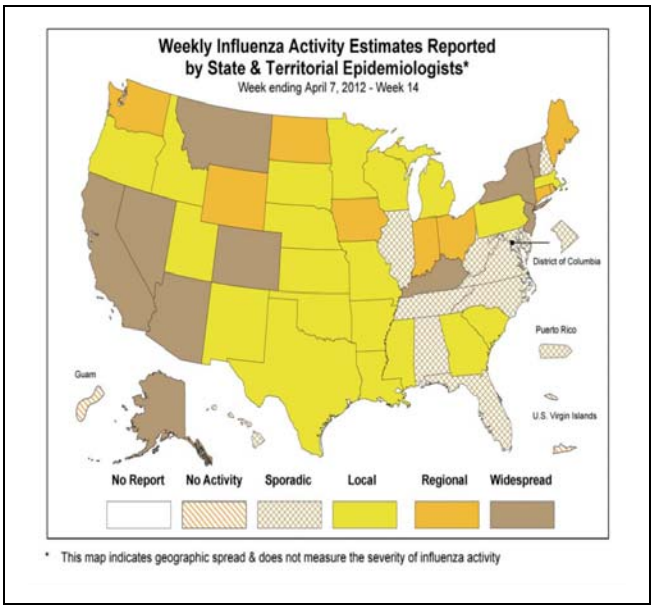
* Numerator: Number of persons recorded in the WIR as having received at least one dose of seasonal influenza vaccine between 8/1/2011 to 4/12/2012, by age group. Denominator source: 2010 Wisconsin Interactive Statistics on Health (WISH) population estimates, by age group

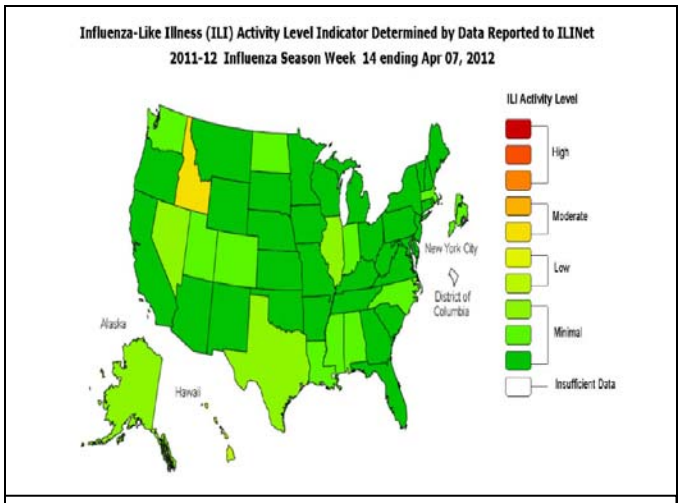
- These graphs include only doses of seasonal influenza vaccine administered and reported to the Wisconsin Immunization Registry (WIR).
- Data for 2011-2012 season is incomplete because of the expected lag between the vaccine administration date and the date reported to the WIR, which may be a short as one day or as long as several months, depending on the submitter. Therefore, the current season's data will be adjusted as additional data is received.
- While use of the WIR is not mandatory, the WIR receives data from a variety of sources, including health care providers, health maintenance organizations, local health departments and tribal health centers/clinics, schools and pharmacies.
- For additional information regarding the immunization data, please contact Stephanie Schauer, epidemiologist, with the Wisconsin Immunization Program at (608) 264-9884.

NATIONAL INFLUENZA SURVEILLANCE









*This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a 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.