



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



Respiratory virus surveillance report for the week ending September 12, 2015 week 36-15

AT-A-GLANCE

- Respiratory viruses identified this week :
 rhinovirus is the predominant virus this week. Sporadic cases of parainfluenza and influenza A were also identified.

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

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

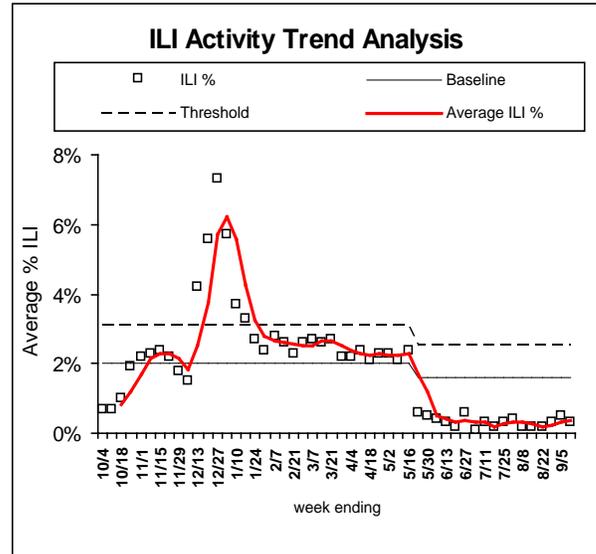
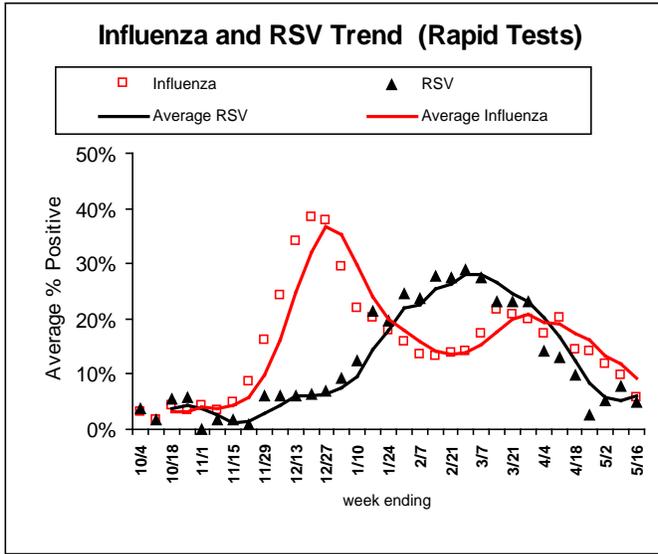
- ILI activity in Region V of the U.S. (WI, MN, IL, MI, OH, IN) is below baseline levels
- ILI activity in the U.S. is below baseline levels
- The Predictive Value Positive (PVP) for rapid influenza and RSV tests is: Low
 (PVP is the probability of disease in a patient with a positive test result)
- 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 36-15</u>	<u>Total to Date</u>
Wisconsin	0	6
Nationwide	0	145

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

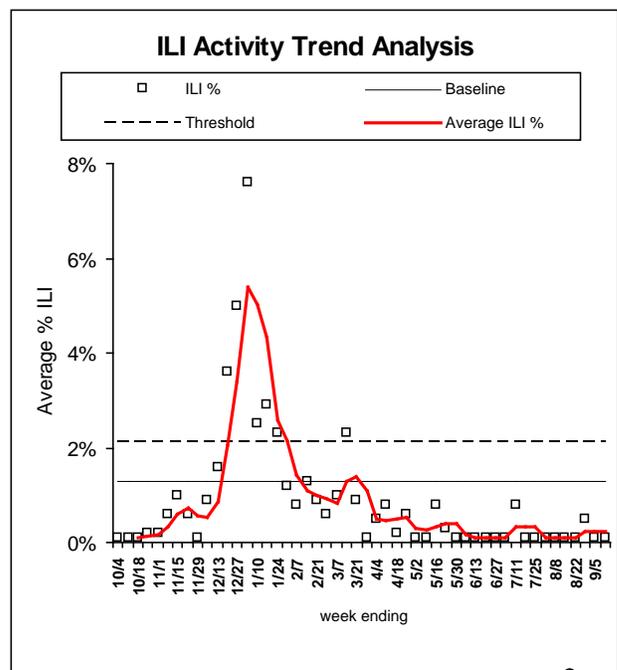
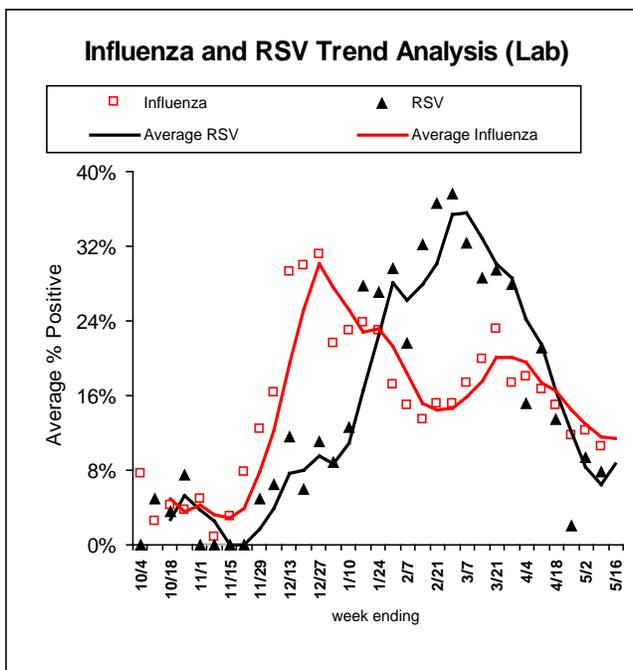
Wisconsin (ILI activity is Low)

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							
								0.3%	1.6%	2.5%



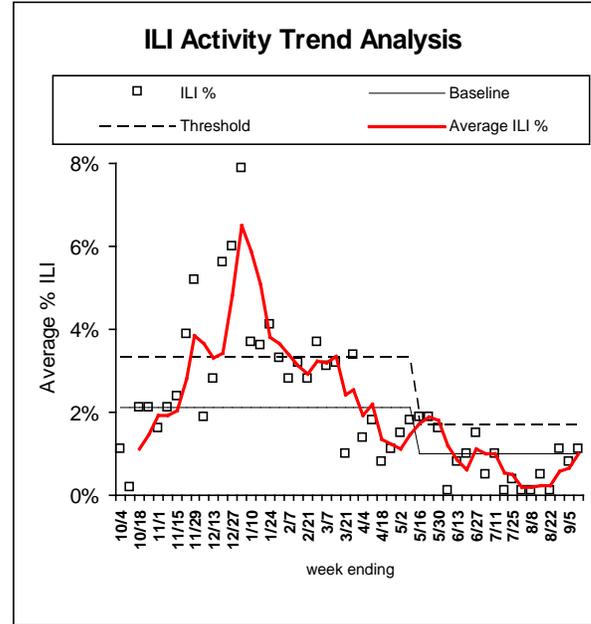
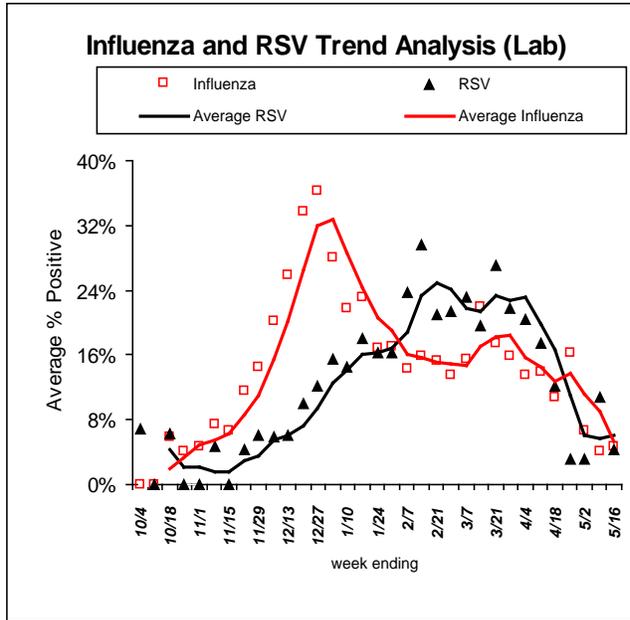
Northwestern Region (ILI activity is Low)

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%



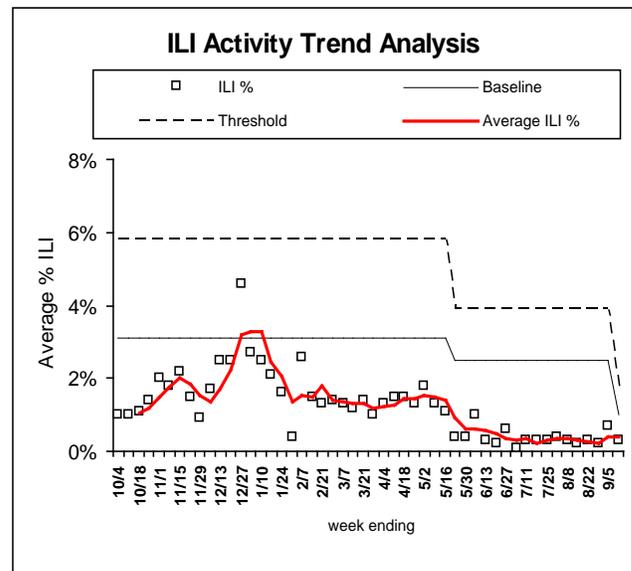
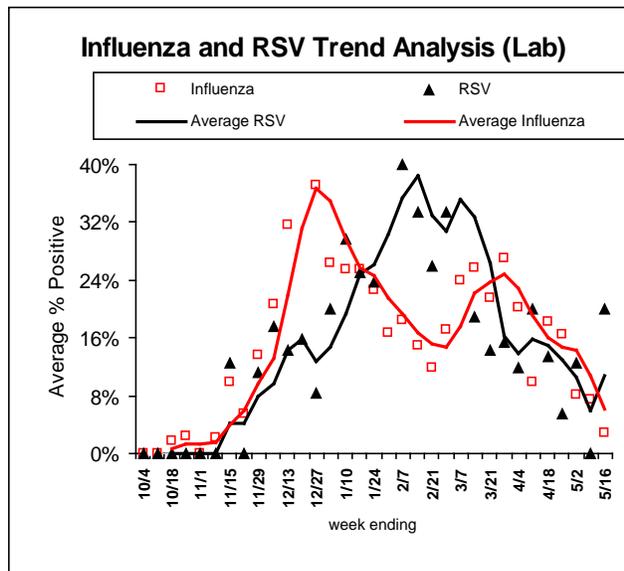
Northeastern Region (ILI activity is Moderate)

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							
								1.1%	1.0%	1.7%



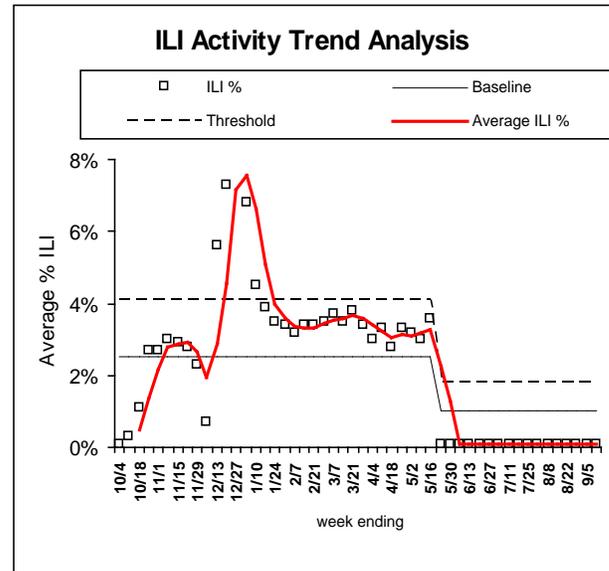
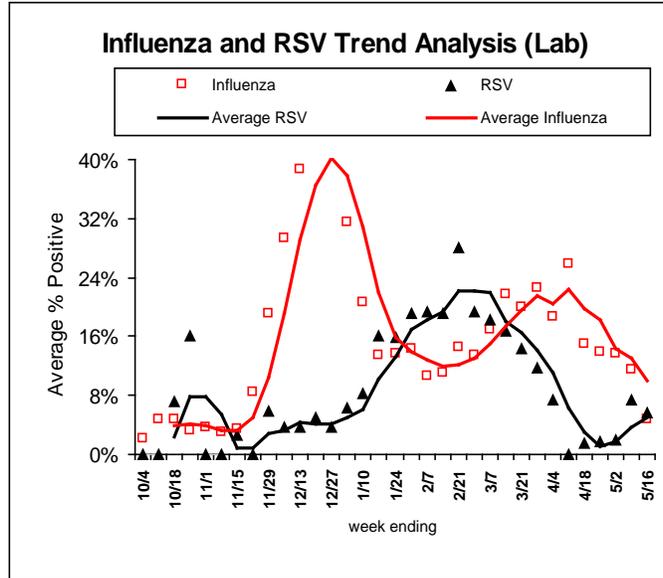
Southern Region (ILI activity is Low)

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							
								0.3%	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							
								0.1%	1.0%	1.8%

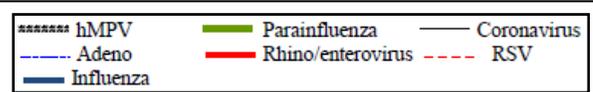


For the 2014-15 influenza season, data from the Western Region and the Northern Region will be combined and referred to as the Northwestern Region. This change was made in response to the small number of providers who participate in our weekly surveillance in the Northern Region.

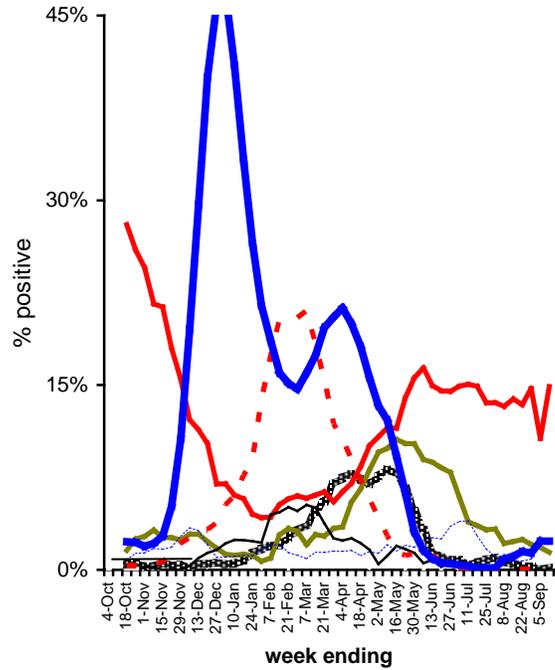
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

Respiratory Agent	Tested	Positive	% Positive	Flu A 2009/H1N1	Flu A Seasonal H3	Flu A (Unk)	Flu B
Influenza	258	4	1.6%	0	4	0	0
Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	180	2	1.2%	1	0	1	0
Respiratory Agent	Tested	Positive	% Positive				
Coronavirus	89	0	0%	0	0	0	0

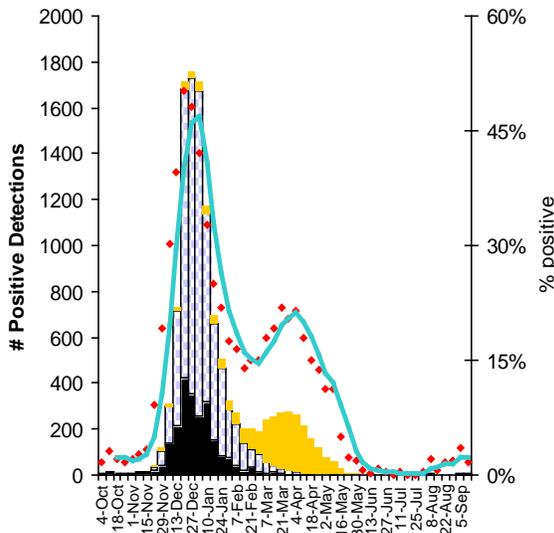
Respiratory Agent	Tested	Positive	% Positive
RSV	196	1	0.5%
Human Metapneumovirus	180	1	0.6%
Rhino-entero	183	48	26.2%
Adenovirus	120	1	0.8%



Trends in Respiratory Virus Activity PCR
using a 3-week moving average

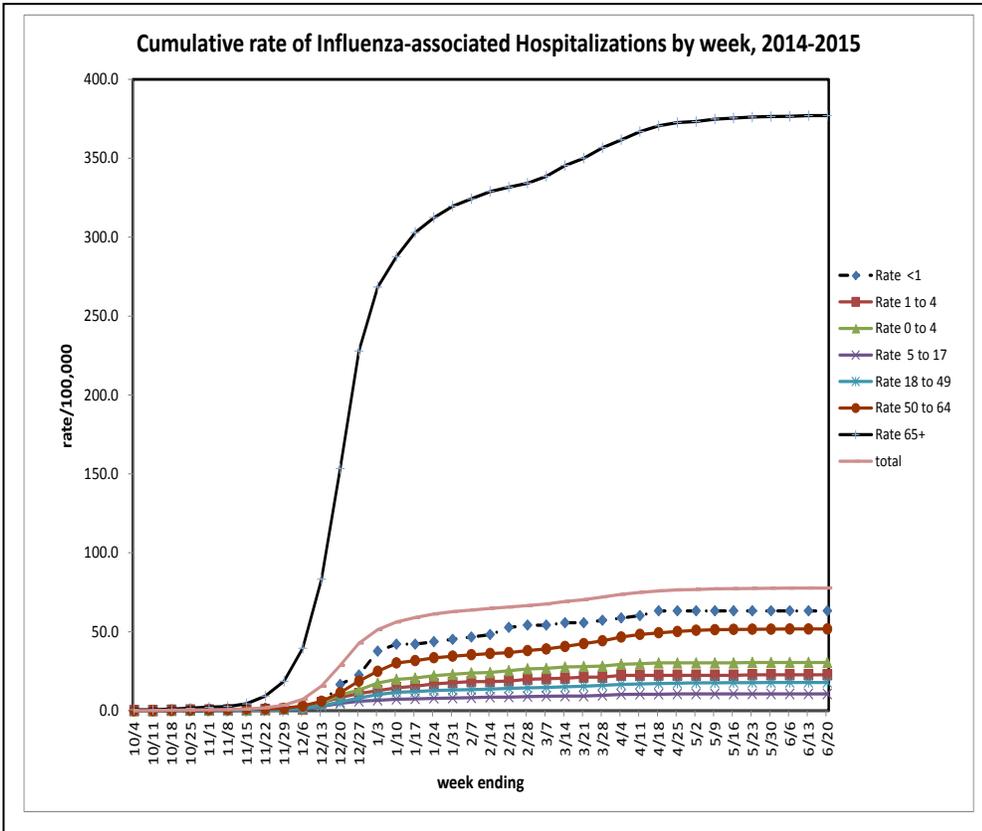


Wisconsin Positive Influenza Results PCR



Influenza-associated Hospitalizations, October 4, 2014 to present

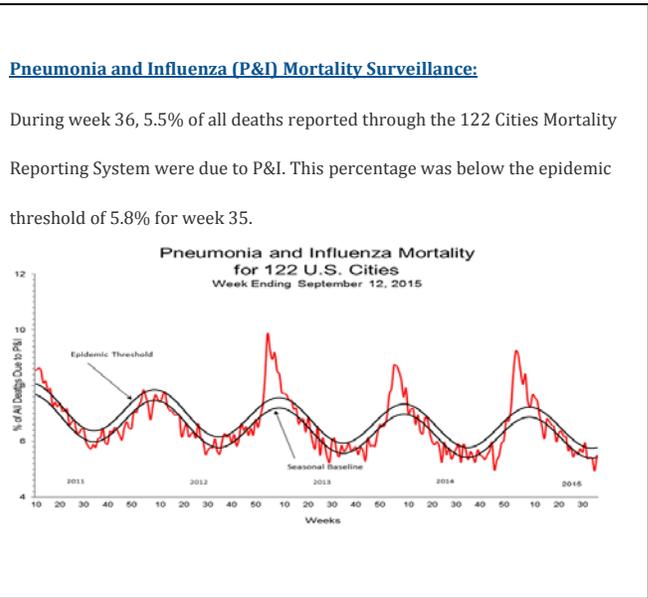
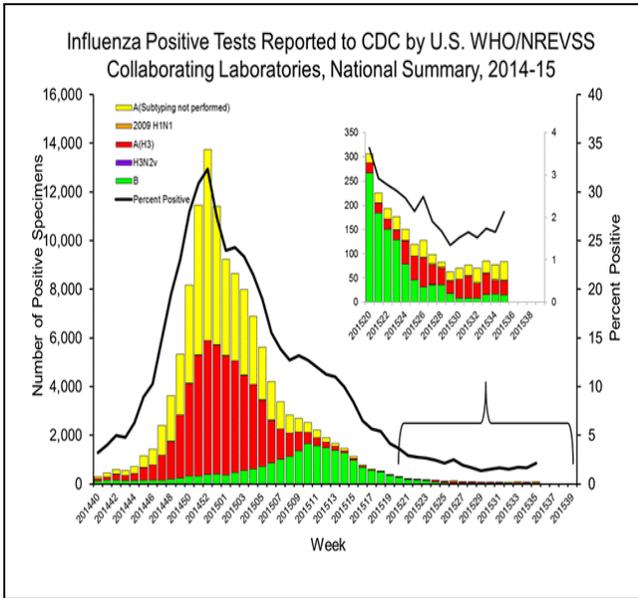
Age Group	Total Number Reported (2014-15)	Influenza Subtypes				Not reported	Admitted to ICU	Required Mechanical Ventilation
		2009 H1N1	H3N2	A/Unknown or undetermined	B			
< 1 year	48		15	23	7	3	4	1
1 to 4	63		9	41	11	2	10	2
5 to 17	99	2	15	52	27	3	20	9
18 to 49	454	2	56	277	105	14	69	26
50 to 64	741	2	97	409	216	17	113	29
65 and over	3310	10	483	2254	454	112	328	67
Total	4718	16	675	3057	820	151	544	134



Incidence/100,000

Age group	Wisconsin	National
<1	63.2	N/A
1 to 4	22.7	N/A
0 to 4	30.6	57.2
5 to 17	10.6	16.5
18 to 49	17.9	18.9
50 to 64	51.7	54.8
65+	377.0	322.2
total	77.7	65.4

NATIONAL INFLUENZA SURVEILLANCE



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.

