WISCONSIN DEPARTMENT OF HEALTH SERVICES

Division of Public Health

Bureau of Communicable Diseases and Emergency Response

Respiratory virus surveillance report for the week ending October 30, 2010, week 10-43

AT-A-GLANCE

- Respiratory viruses identified this week :
  Rhinovirus/enterovirus was the predominant virus

- 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) is below baseline levels

- ILI activity in the U.S. is below baseline levels

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

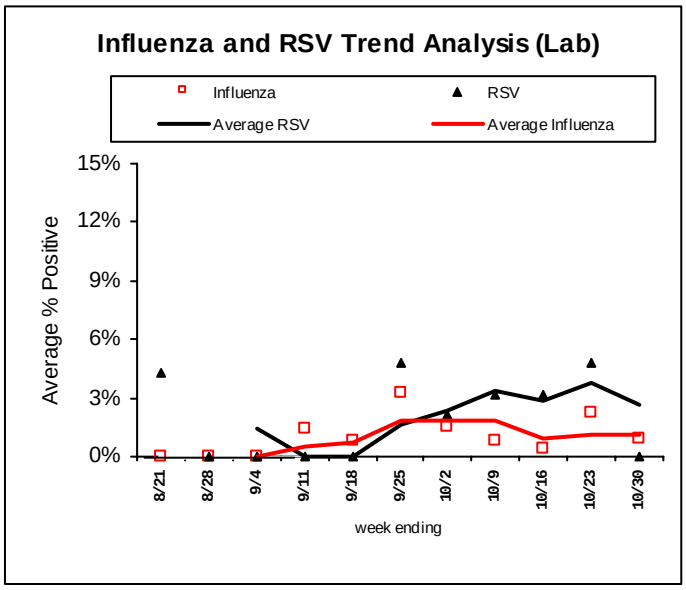
- Influenza-associated pediatric deaths (October 1, 2010-present)

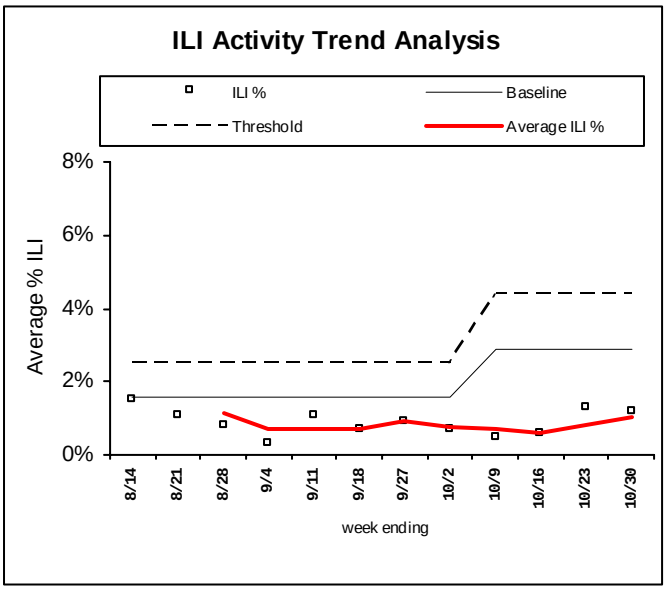
	Week 10-43	Total to Date
Wisconsin	0	0
United States	0	0

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

Wisconsin (ILI activity is Low)

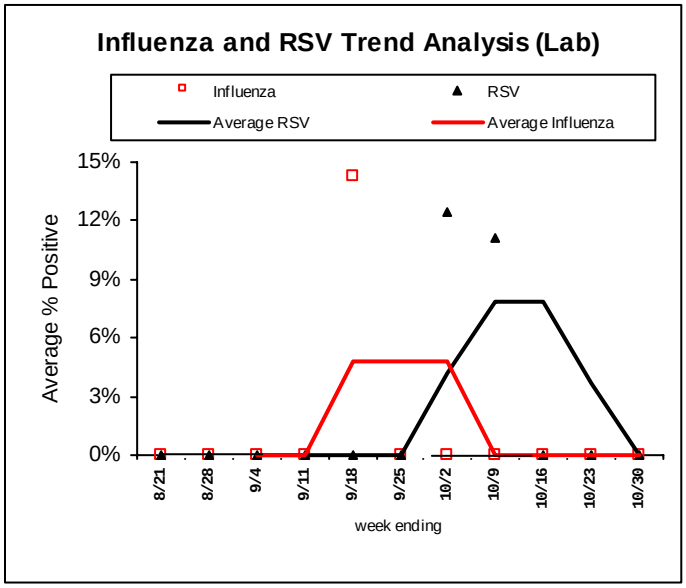
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
217	25	0	2	0.9%	62	0	0.0%	1.2%	2.9%	4.4%

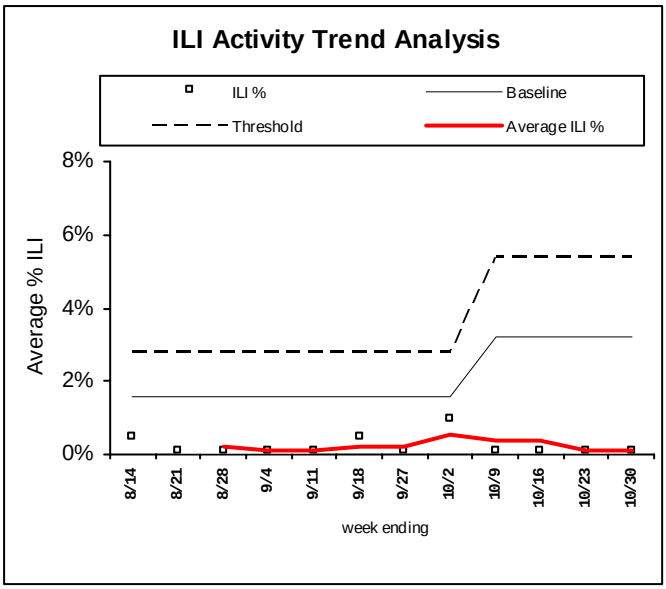




Northern Region (ILI activity is Low)

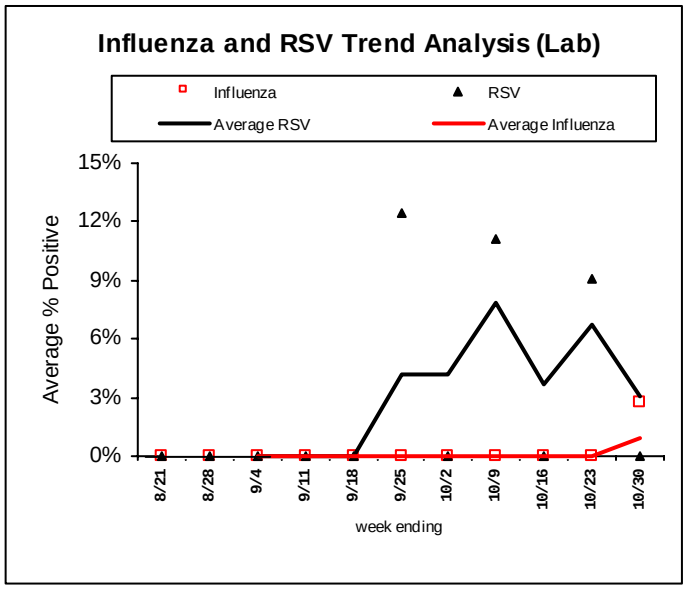
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
14	0	0	0	0.0%	5	0	0.0%	0.1%	1.6%	2.8%

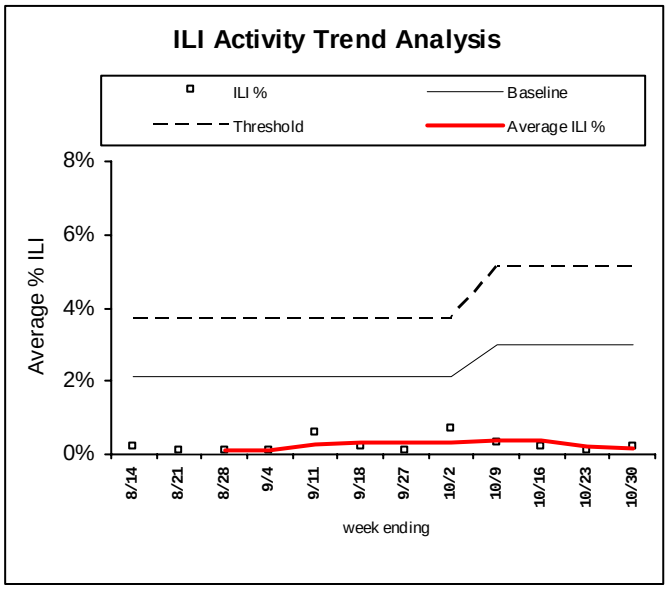




Western Region (ILI activity is Low)

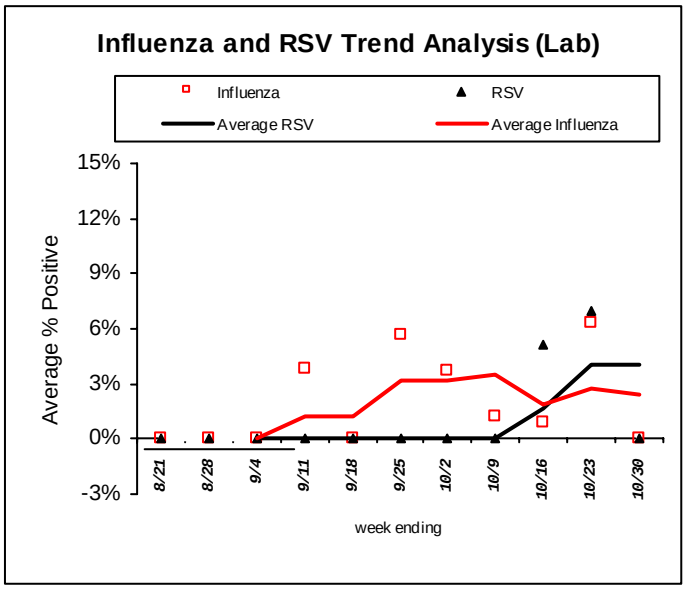
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
36	1	0	1	2.8%	7	0	0.0%	0.1%	3.0%	5.1%

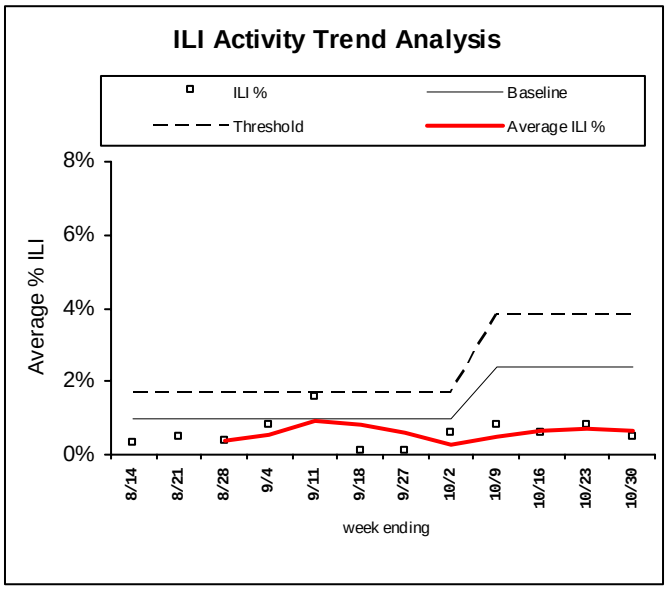




Northeastern Region (ILI activity is Low)

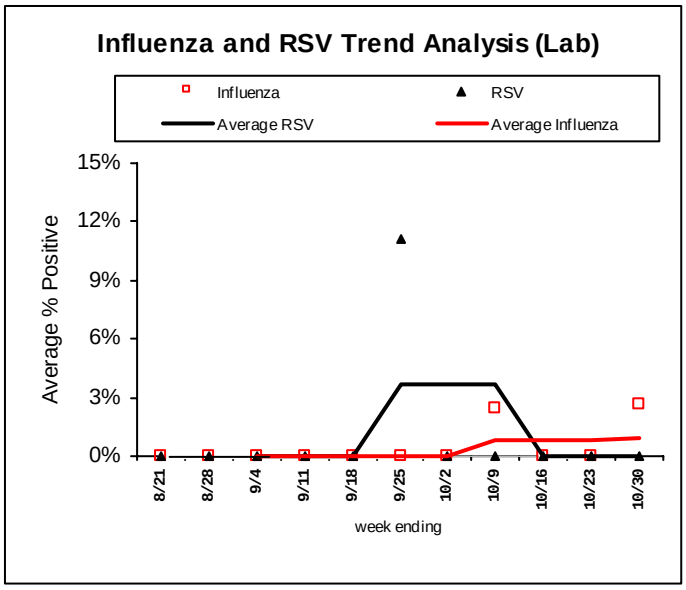
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
70	0	0	0	0.0%	15	0	0.0%	0.5%	2.4%	3.8%

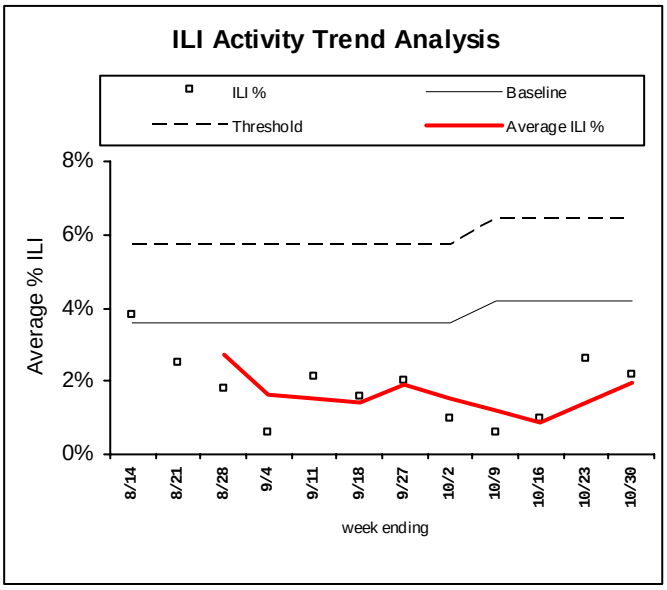




Southern Region (ILI activity is Low)

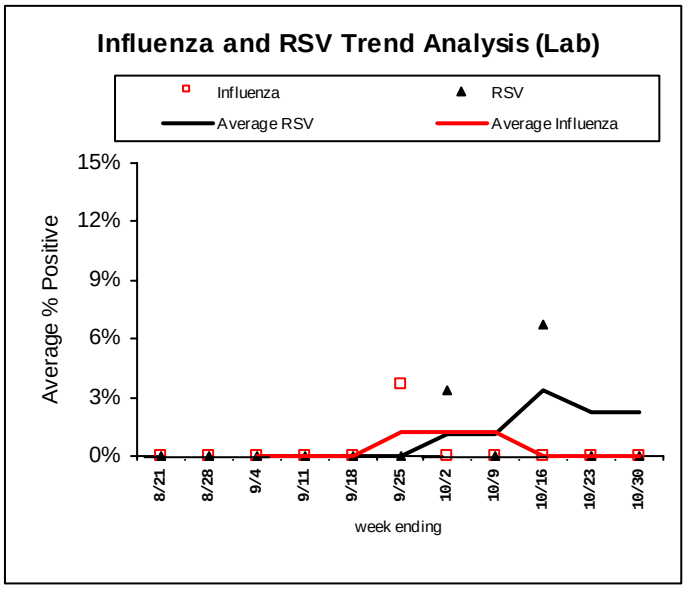
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
37	1	0	1	2.7%	19	0	0.0%	2.2%	4.2%	6.4%

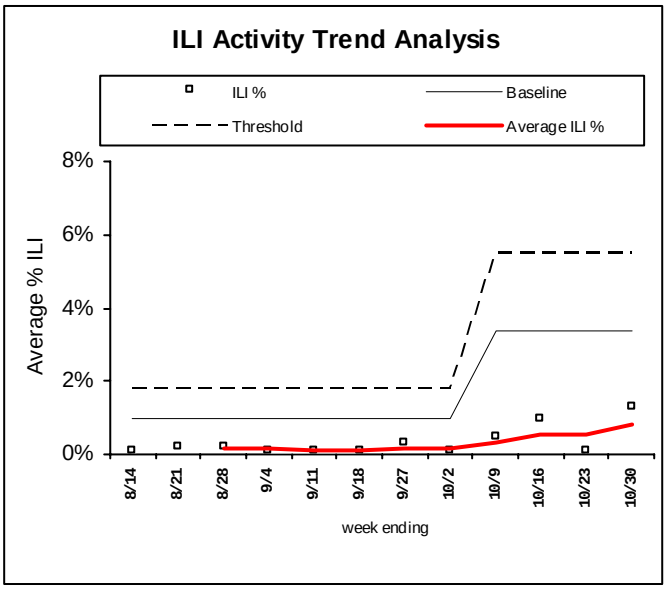




Southeastern Region (ILI activity is Low)

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							
60	0	0	0	0.0%	16	0	0.0%	1.3%	3.4%	5.5%





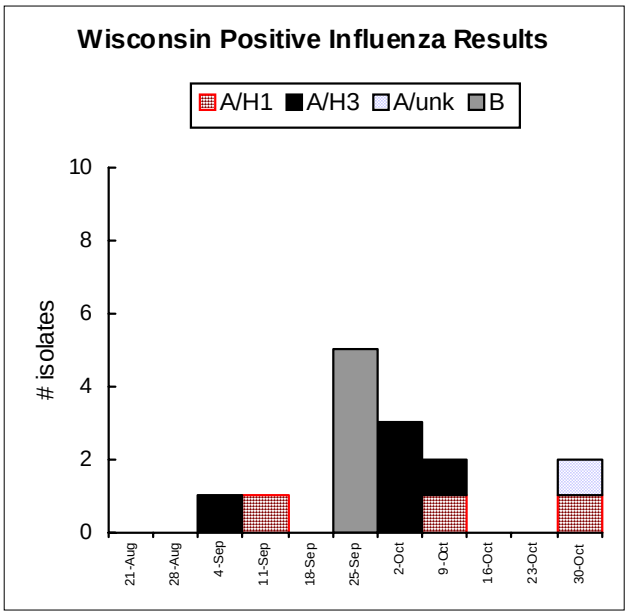
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

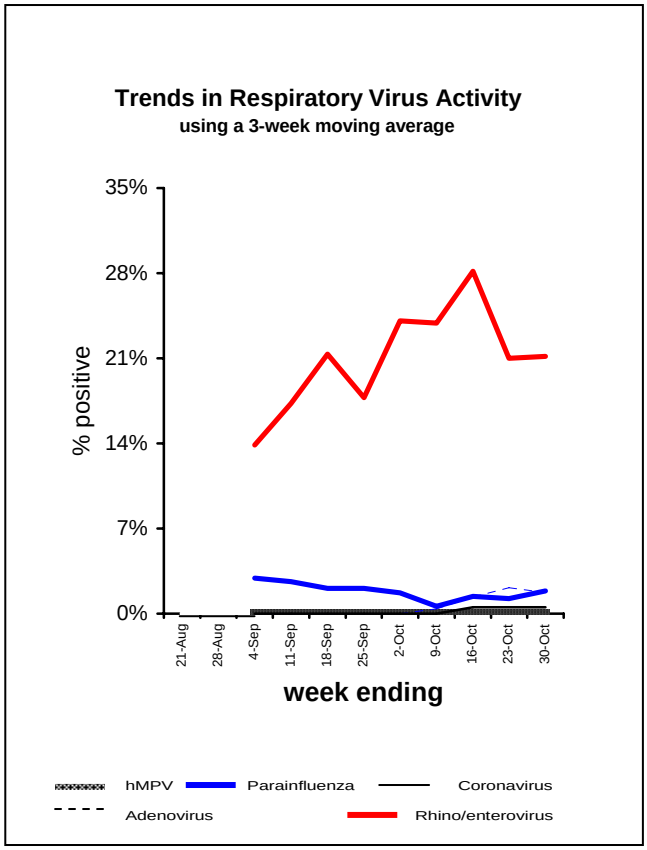
Respiratory Agent	Tested	Positive	% Positive	Flu A (H1)	Flu A (H3)	Flu A (Unk)	Flu B
Influenza	193	2	1.0%	1	0	1	0

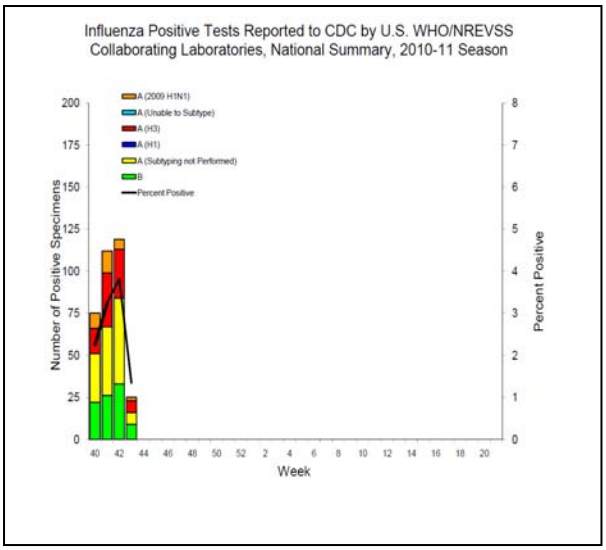
Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	54	1	1.9%	0	0	0	1

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

Respiratory Agent	Tested	Positive	% Positive
RSV	71	0	0.0%
Human Metapneumovirus	16	0	0.0%
Rhino-entero	12	3	25.0%
Adenovirus	12	0	2.3%







Antiviral Resistance:

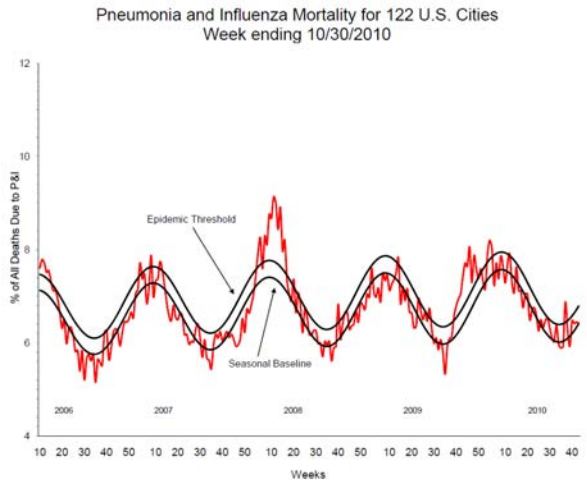
Neuraminidase Inhibitor Resistance Testing Results on Samples Collected Since October 1, 2010.

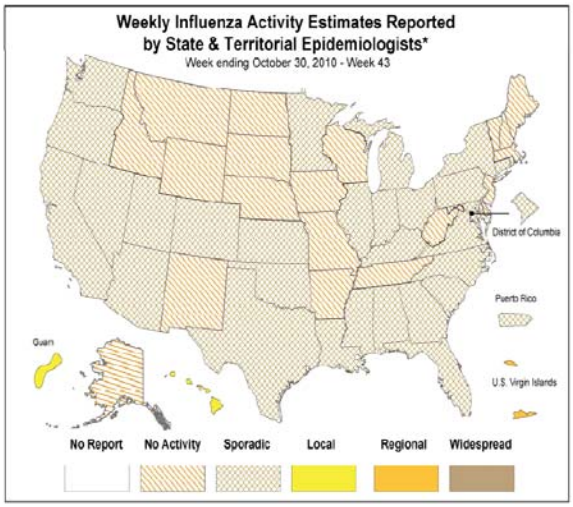
	Viruses tested (n)	Resistant Viruses, Number (%) Oseltamivir	Viruses tested (n)	Resistant Viruses, Number (%) Zanamivir
Seasonal Influenza A (H1N1)	0	0 (0.0)	0	0 (0.0)
Influenza A (H3N2)	0	0 (0.0)	0	0 (0.0)
Influenza B	1	0 (0.0)	1	0 (0.0)
2009 Influenza A (H1N1)	5	0 (0.0)	4	0 (0.0)

National and Regional Summary of Select Surveillance Components

	Data for current week			Data cumulative since October 3, 2010 (Week 40)				
HHS Surveillance Regions*	Out-patient ILI†	% positive for flu‡	Number of jurisdictions reporting regional or widespread activity§	A (H3)	2009 A (H1N1)	A (Subtyping not performed)	B	Pediatric Deaths
Nation	Normal	1.4%	1 of 54	83	30	128	90	0
Region 1	Normal	1.5%	0 of 6	4	1	0	1	0
Region 2	Normal	0.9%	1 of 4	1	0	6	1	0
Region 3	Normal	0.3%	0 of 6	5	1	0	1	0
Region 4	Normal	7.6%	0 of 8	20	7	93	66	0
Region 5	Normal	2.2%	0 of 6	12	2	0	0	0
Region 6	Normal	2.0%	0 of 5	14	0	6	6	0
Region 7	Normal	0.3%	0 of 4	1	0	1	0	0
Region 8	Normal	1.6%	0 of 6	8	3	11	1	0
Region 9	Normal	4.7%	0 of 5	17	16	10	13	0
Region 10	Normal	0.4%	0 of 4	1	0	1	1	0

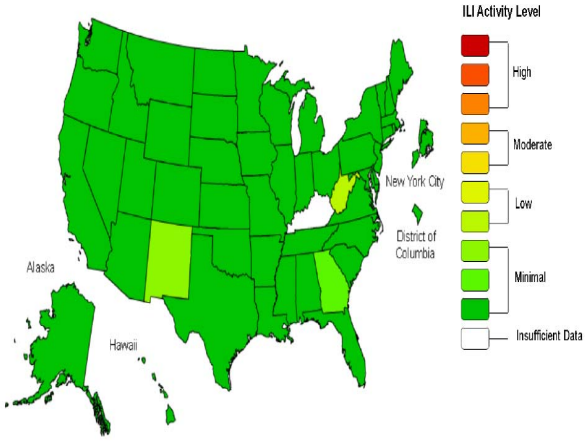
Pneumonia and Influenza (P&I) Mortality Surveillance: During week 43, 6.4% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was below the epidemic threshold of 6.8% for week 43.





* This map indicates geographic spread & does not measure the severity of influenza activity

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILInet
2010-11 Influenza Season Week 43 ending Oct 30, 2010



*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.