WISCONSIN DEPARTMENT OF HEALTH SERVICES

Division of Public Health

Bureau of Communicable Diseases and Emergency Response

Respiratory virus surveillance report for the week ending November 6, 2010, week 10-44

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)

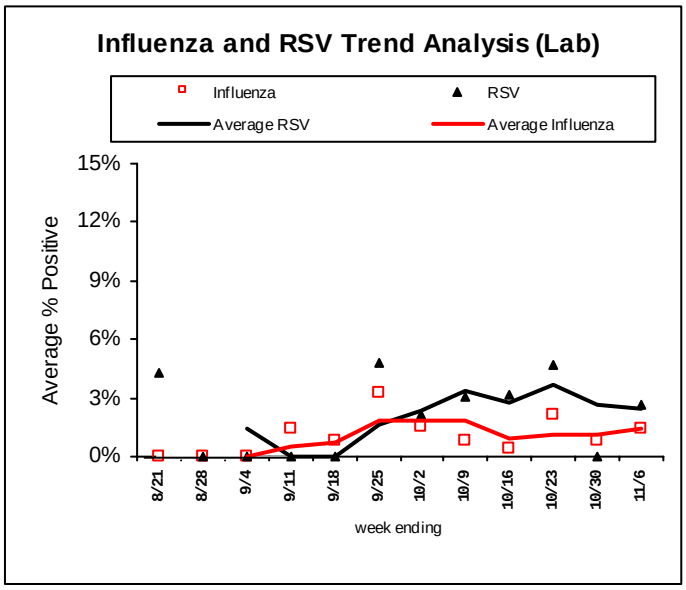
- Influenza-associated pediatric deaths (October 1, 2010-present)

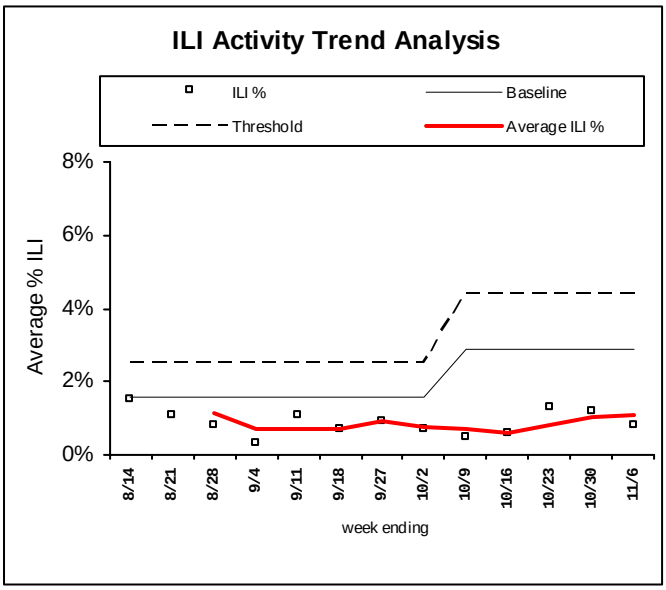
	Week 10-44	Total to Date
Wisconsin	0	0
United States	1	1

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

Wisconsin (ILI activity is Low)

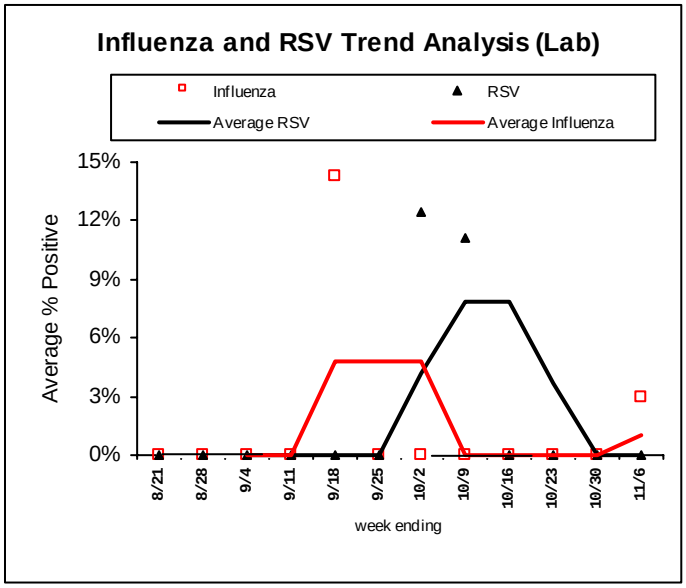
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
217	25	0	2	0.9%	62	0	0.0%	0.8%	2.9%	4.4%

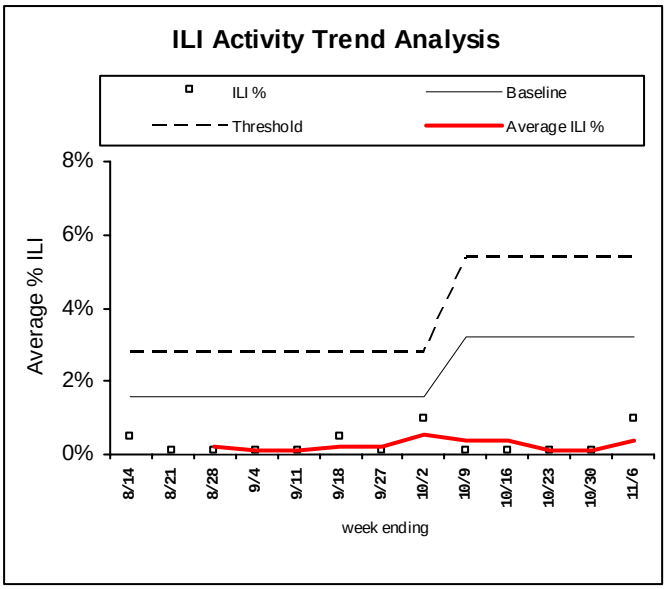




Northern Region (ILI activity is Low)

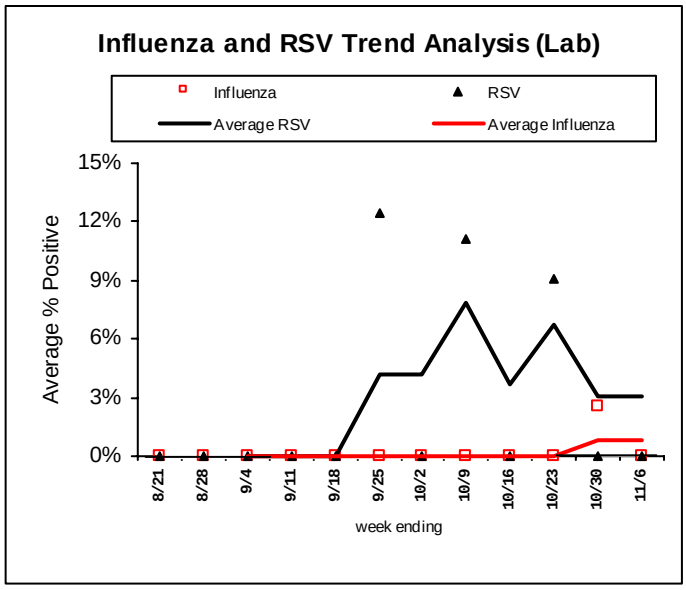
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
14	0	0	0	0.0%	5	0	0.0%	1.0	3.2	5.4%

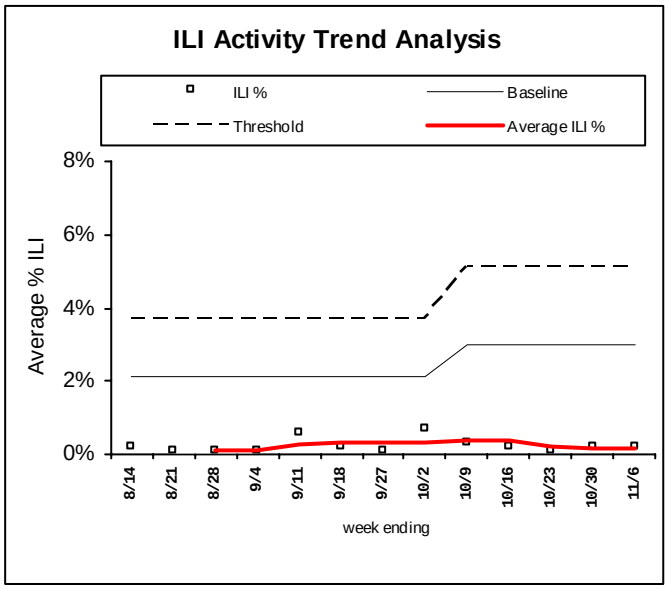




Western Region (ILI activity is Low)

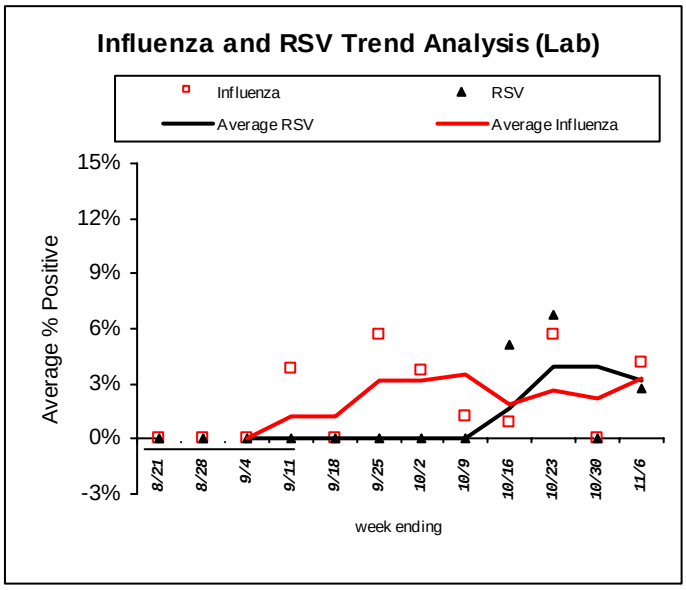
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
36	1	0	1	2.8%	7	0	0.0%	0.2	3.0%	5.1%

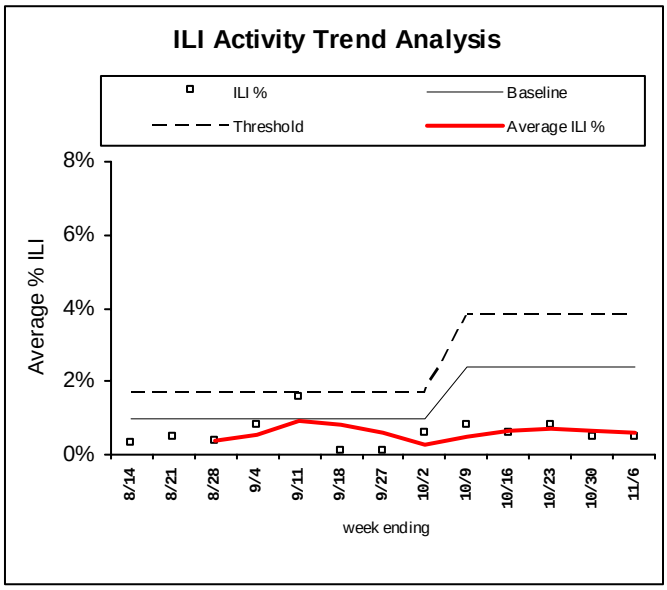




Northeastern Region (ILI activity is Low)

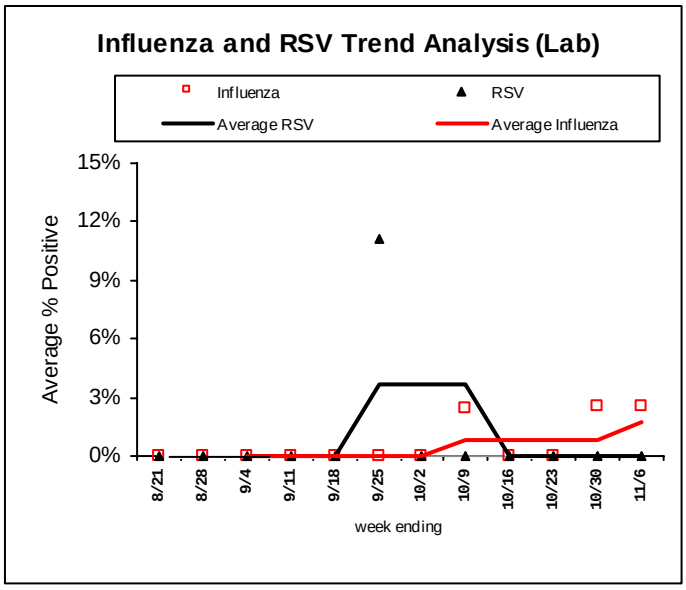
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
70	0	0	0	0.0%	15	0	0.0%	0.5%	2.4%	3.8%

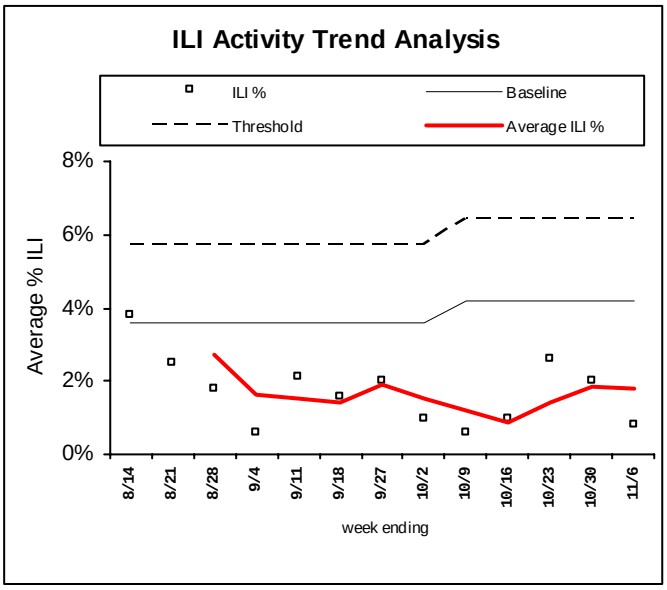




Southern Region (ILI activity is Low)

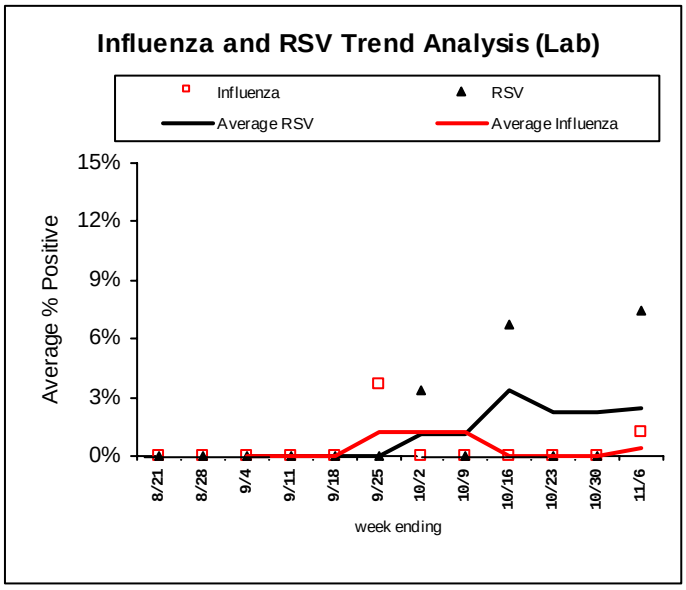
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
37	1	0	1	2.7%	19	0	0.0%	0.8%	4.2%	6.4%

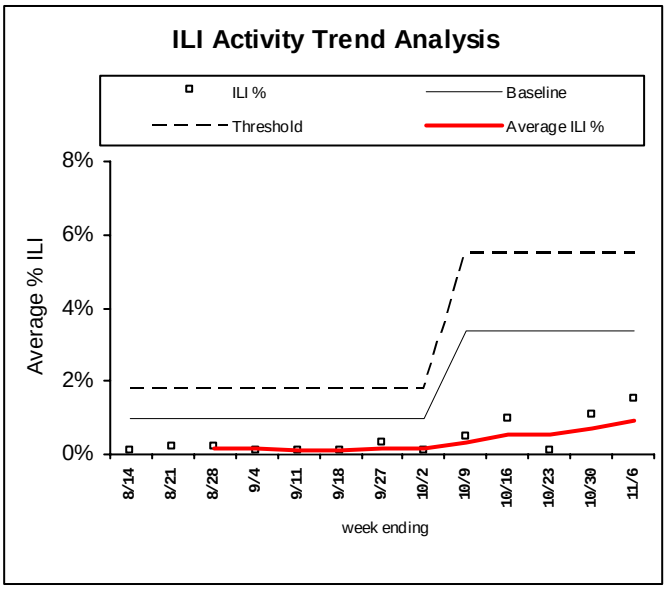




Southeastern Region (ILI activity is Low)

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%	1.5%	3.4%	5.5%





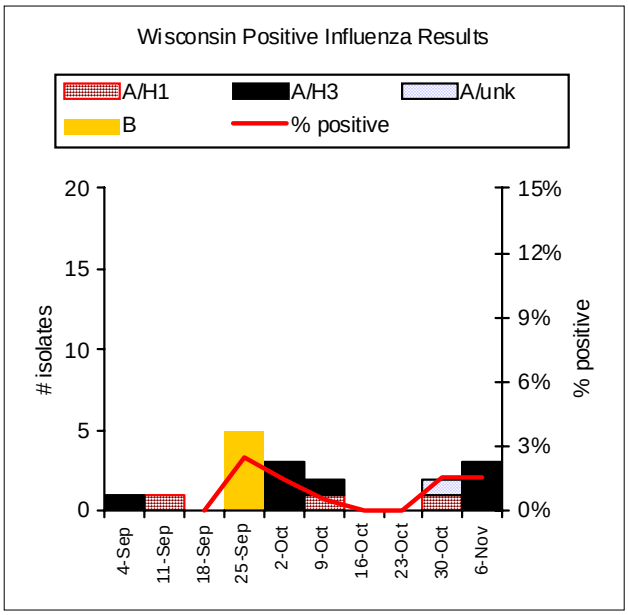
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

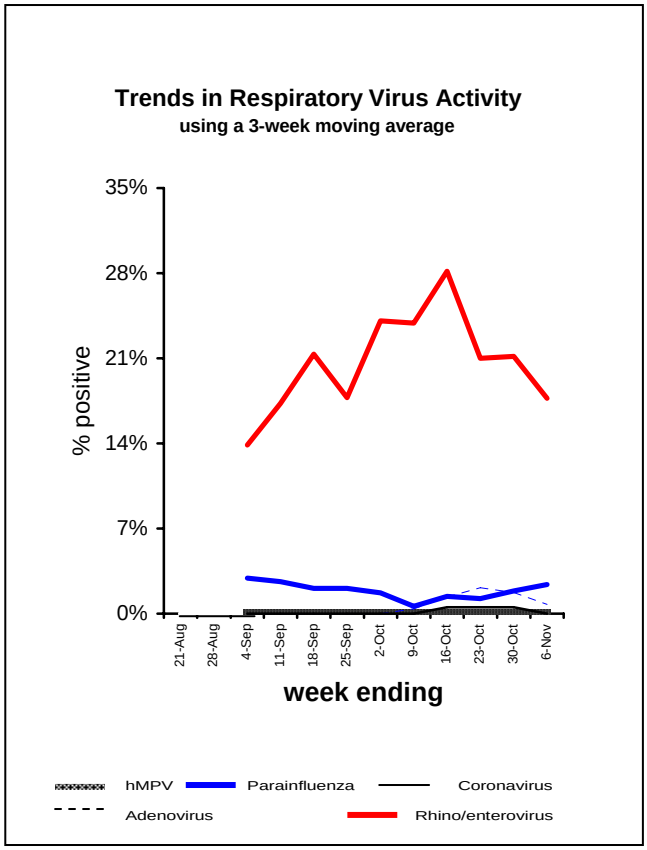
Respiratory Agent	Tested	Positive	% Positive	Flu A (H1)	Flu A (H3)	Flu A (Unk)	Flu B
Influenza	186	3	1.6%	0	3	0	0

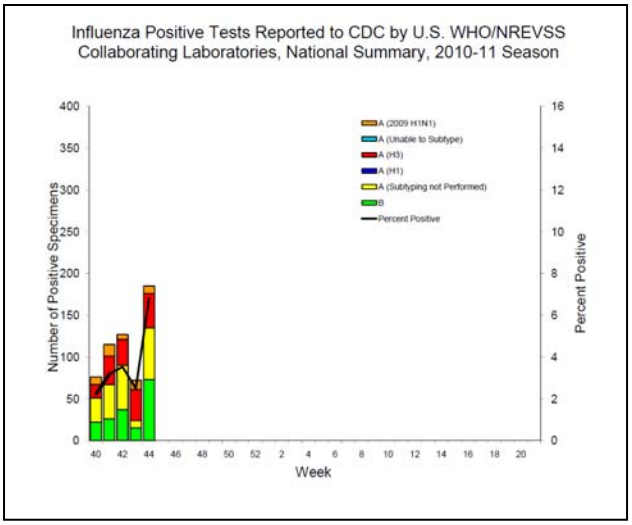
Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	73	3	4.1%	0	0	3	0

Respiratory Agent	Tested	Positive	% Positive	CoV-229E	CoV-OC43	CoV-NL63	CoV-HKU1
Coronavirus	33	0	0%	0	0	0	0

Respiratory Agent	Tested	Positive	% Positive
RSV	85	0	0.0%
Human Metapneumovirus	42	0	0.0%
Rhino-entero	42	7	16.7%
Adenovirus	42	0	0.0%







High levels of resistance to the adamantanes (amantadine and rimantadine) persist among 2009 influenza A (H1N1) and A (H3N2) viruses (the adamantanes are not effective against influenza B viruses) circulating globally. As a result of the sustained high levels of resistance, data from adamantane resistance testing are not presented weekly in the table below.

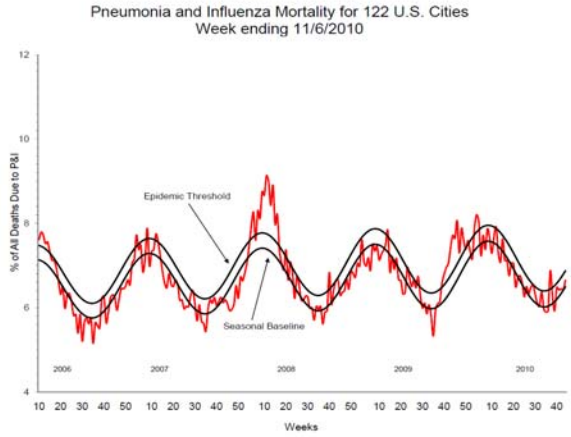
Neuraminidase Inhibitor Resistance Testing Results on Samples Collected Since October 1, 2010.

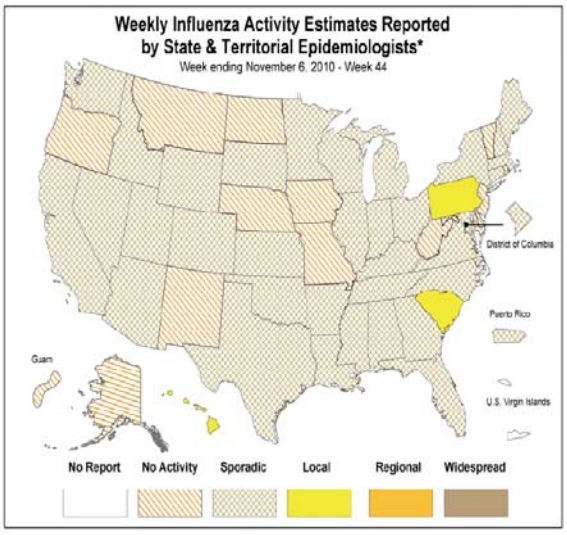
	Viruses tested (n)	Resistant Viruses, Number (%)	Viruses tested (n)	Resistant Viruses, Number (%)
		Oseltamivir		Zanamivir
Seasonal Influenza A (H1N1)	0	0 (0.0)	0	0 (0.0)
Influenza A (H3N2)	4	0 (0.0)	4	0 (0.0)
Influenza B	1	0 (0.0)	1	0 (0.0)
2009 Influenza A (H1N1)	5	0 (0.0)	4	0 (0.0)

National and Regional Summary of Select Surveillance Components

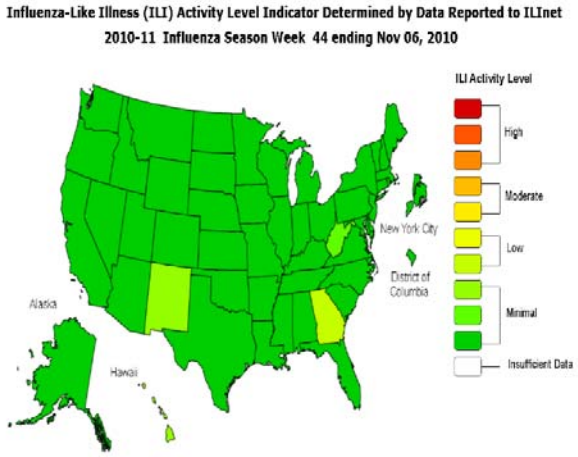
	Data for current week			Data cumulative since October 3, 2010 (Week 40)				
HHS Surveillance Regions*	Out-patient ILI†	% positive for flu‡	Number of jurisdictions reporting regional or widespread activity§	A (H3)	2009 A (H1N1)	A (Subtyping not performed)	B	Pediatric Deaths
Nation	Normal	6.8%	0 of 54	159	49	194	173	1
Region 1	Normal	1.4%	0 of 6	5	1	0	1	0
Region 2	Normal	1.4%	0 of 4	11	0	7	2	0
Region 3	Normal	0.7%	0 of 6	11	2	0	1	0
Region 4	Normal	11.6%	0 of 8	53	10	141	130	0
Region 5	Normal	1.1%	0 of 6	14	3	1	0	0
Region 6	Normal	2.2%	0 of 5	14	1	11	13	1
Region 7	Normal	0.9%	0 of 4	2	1	1	1	0
Region 8	Normal	2.5%	0 of 6	19	10	20	3	0
Region 9	Normal	5.7%	0 of 5	29	21	11	20	0
Region 10	Normal	0.7%	0 of 4	1	0	2	2	0

Pneumonia and Influenza (P&I) Mortality Surveillance: During week 44, 6.7% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was below the epidemic threshold of 6.9% for week 44.





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



Interactive web tool available at: http://gis.cdc.gov/grasp/fluview/main.html

*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.