WISCONSIN DEPARTMENT OF HEALTH SERVICES

Division of Public Health

Bureau of Communicable Diseases and Emergency Response

Respiratory virus surveillance report for the week ending December 11, 2010, week 10-49

AT-A-GLANCE

- Respiratory viruses identified this week :
  Rhinovirus/enterovirus, influenza, and parainfluenza were the predominant viruses

- 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. remains 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)

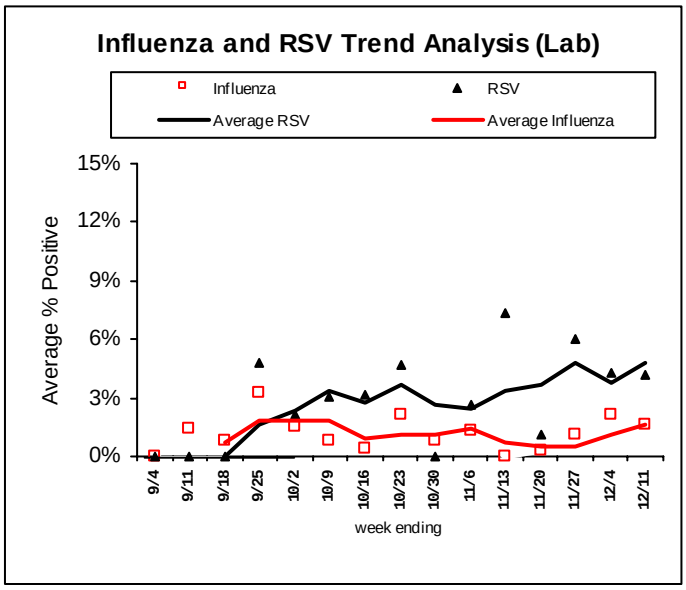
- Influenza-associated pediatric deaths (October 1, 2010-present)

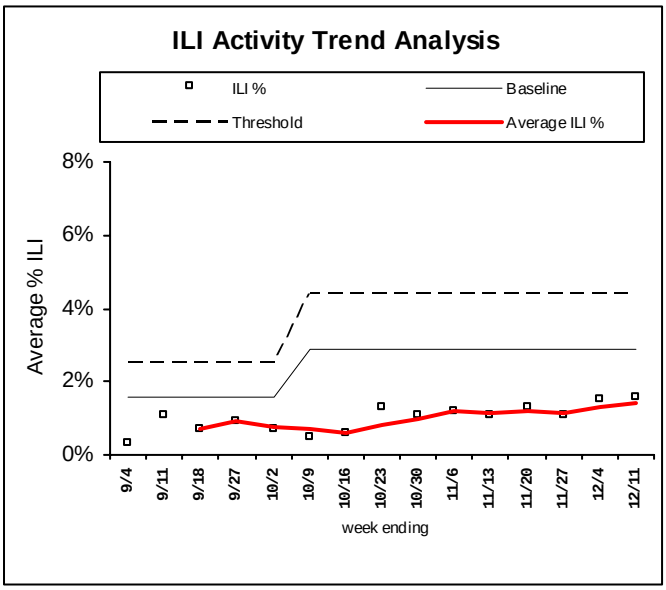
	Week 10-49	Total to Date
Wisconsin	0	0
United States	1	2

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

Wisconsin (ILI activity is Low)

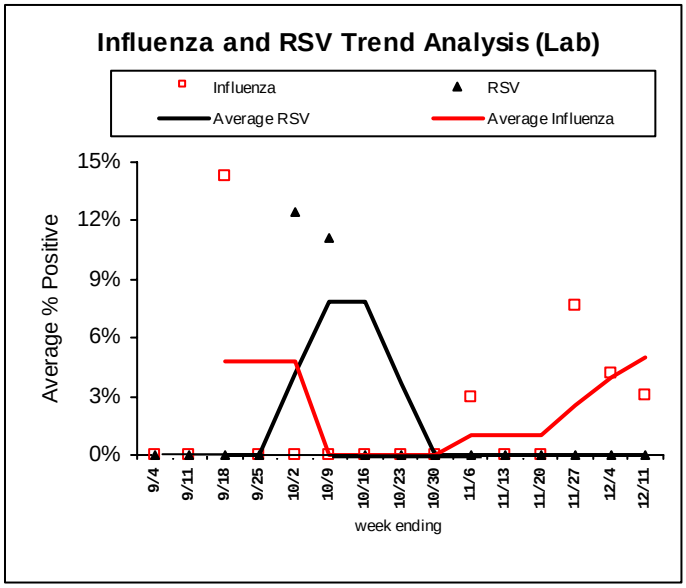
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
314	3	2	5	1.6%	143	6	4.2%	1.6%	2.9%	4.4%

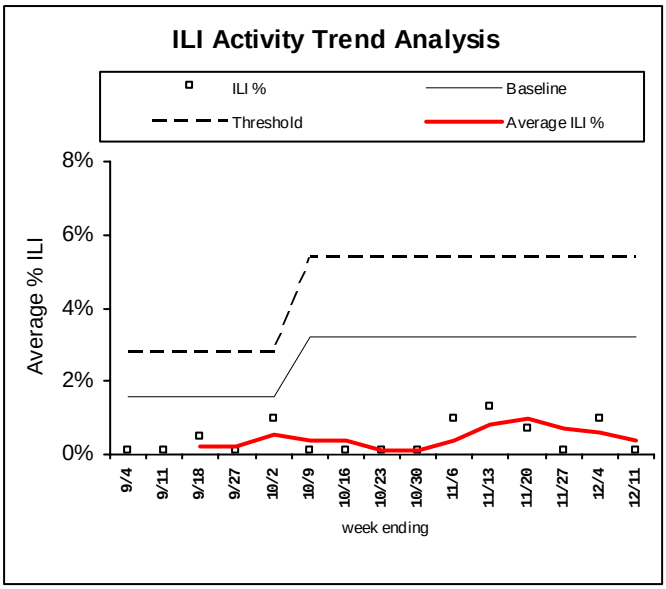




Northern Region (ILI activity is Low)

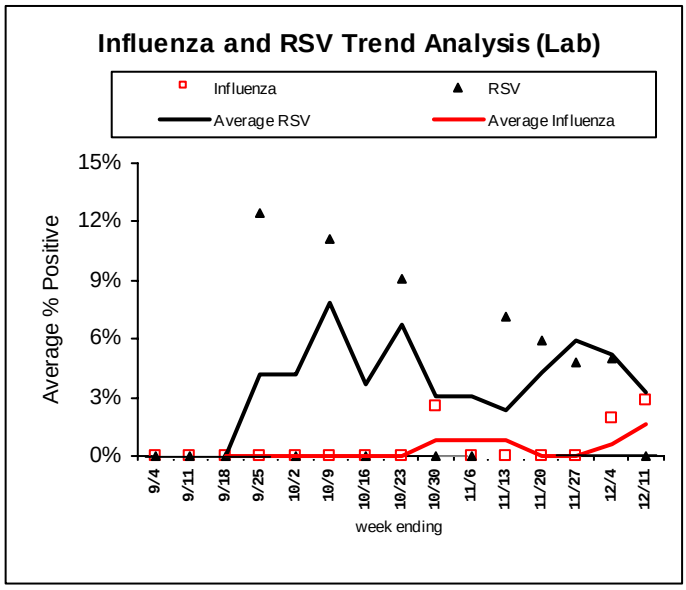
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
32	0	1	1	3.1%	17	0	0.0%	0.1%	3.2	5.4%

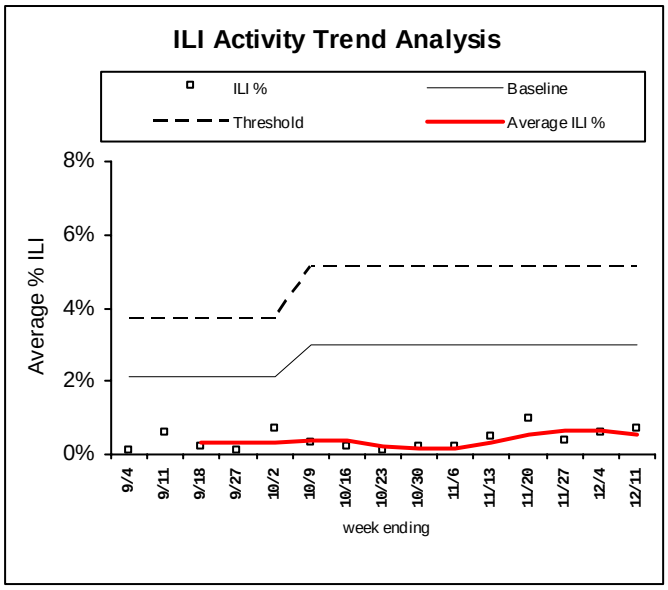




Western Region (ILI activity is Low)

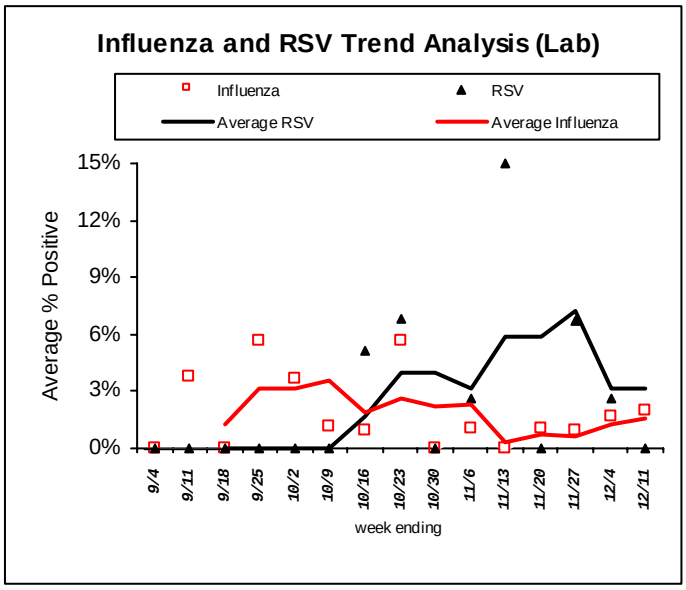
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
45	1	0	0	2.2%	69	2	2.9%	0.7%	3.0%	5.1%

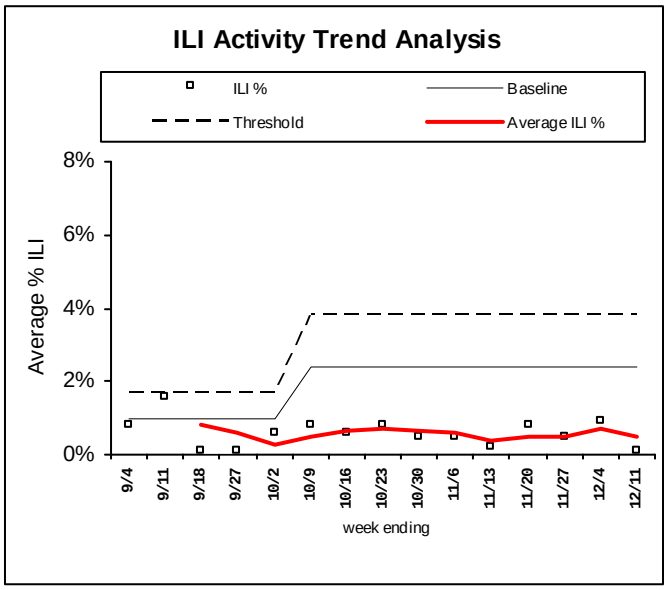




Northeastern Region (ILI activity is Low)

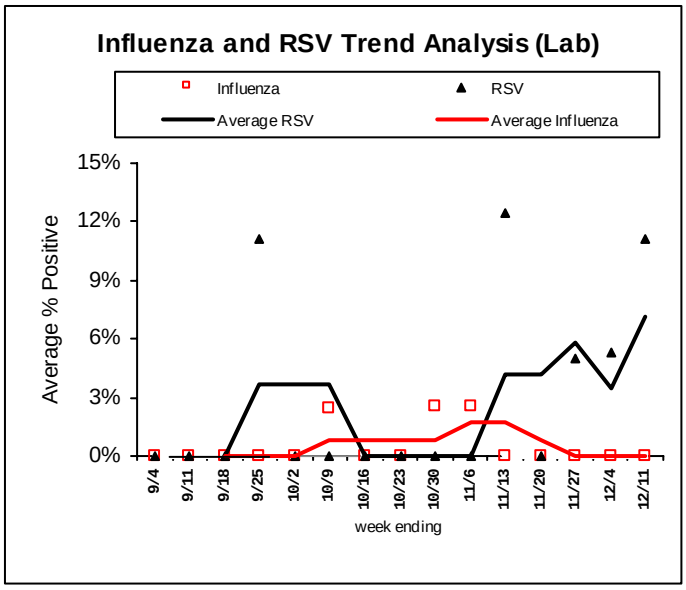
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
98	1	1	2	2.0%	46	0	0.0%	0.1%	2.4%	3.8%

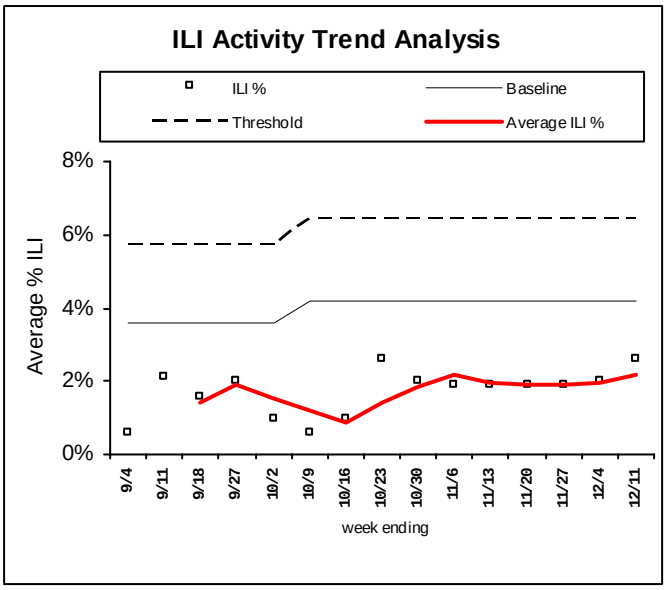




Southern Region (ILI activity is Low)

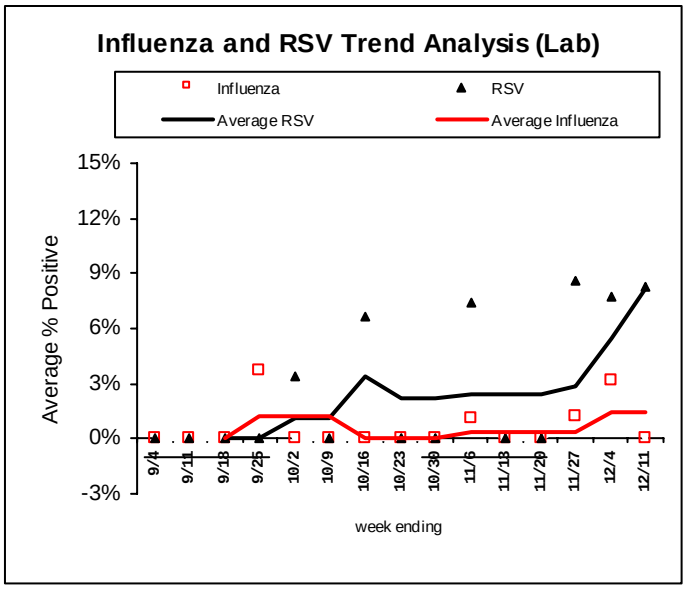
INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
44	0	0	0	0.0%	27	3	11.1%	2.6%	4.2%	6.4%

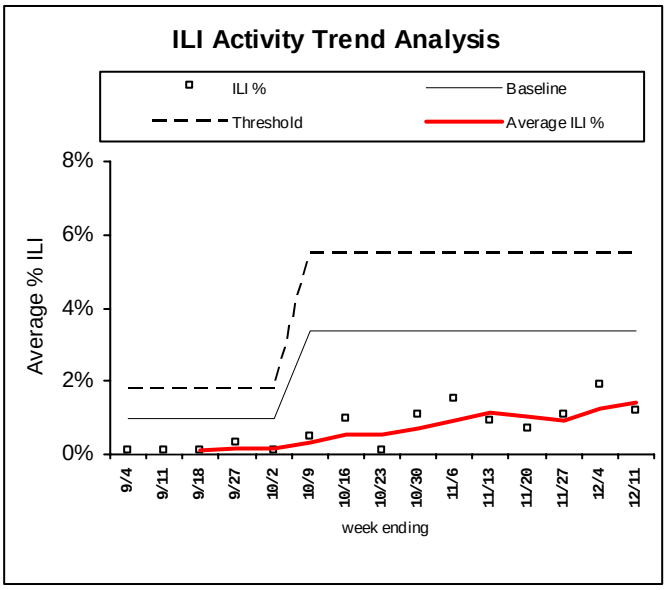




Southeastern Region (ILI activity is Low)

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							
71	0	0	0	0.0%	36	3	8.3%	1.2%	3.4%	5.5%





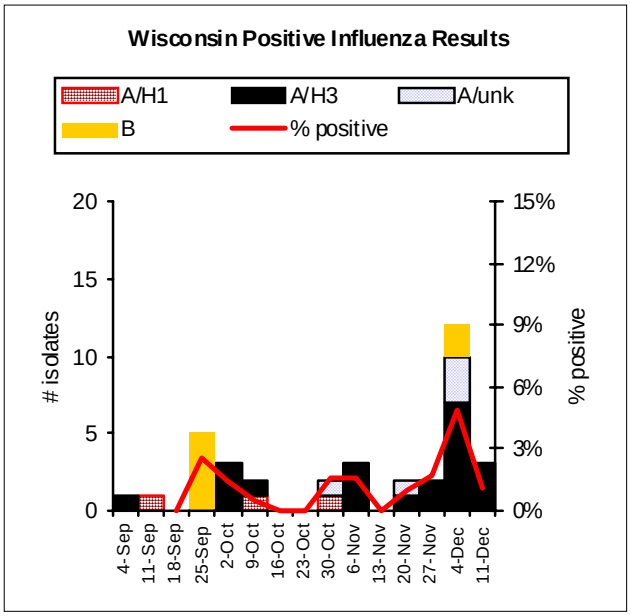
LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

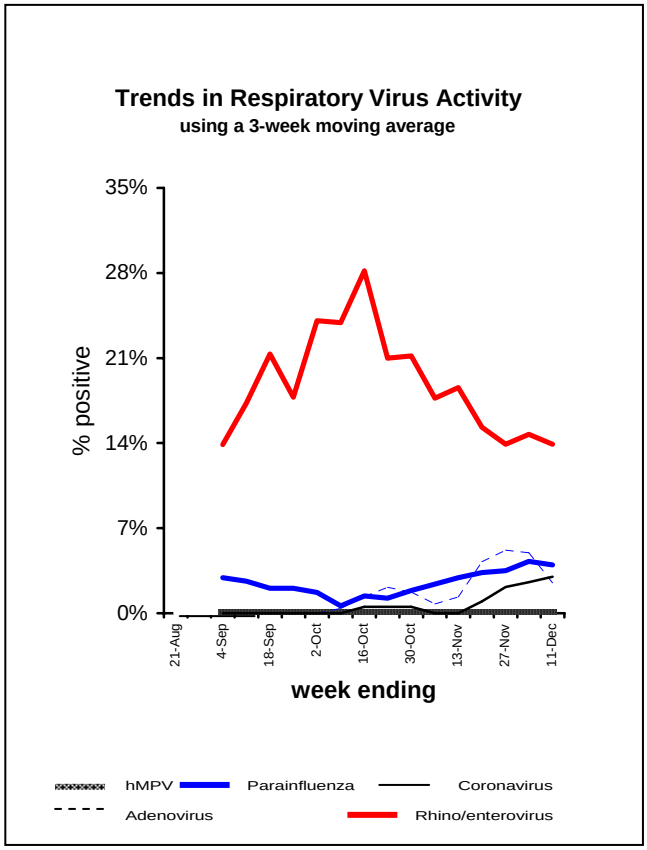
Respiratory Agent	Tested	Positive	% Positive	Flu A (H1)	Flu A (H3)	Flu A (Unk)	Flu B
Influenza	267	3	1.1%	0	3	0	0

Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	136	3	2.2%	0	0	2	1

Respiratory Agent	Tested	Positive	% Positive	CoV-229E	CoV-OC43	CoV-NL63	CoV-HKU1
Coronavirus	71	3	4.2%	0	0	3	0

Respiratory Agent	Tested	Positive	% Positive
RSV	170	6	3.5%
Human Metapneumovirus	79	0	0.0%
Rhino-entero	79	11	12.7%
Adenovirus	79	1	1.3%

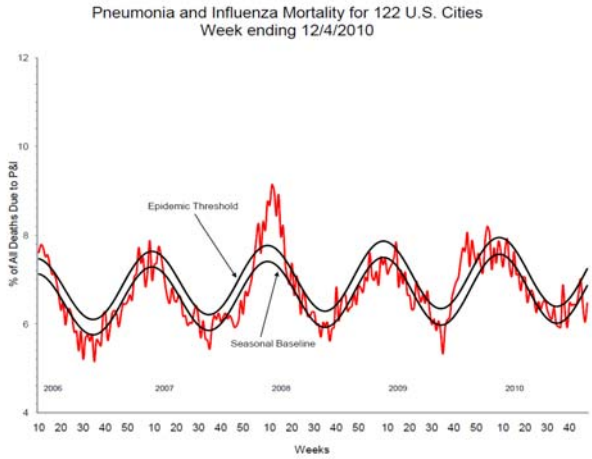


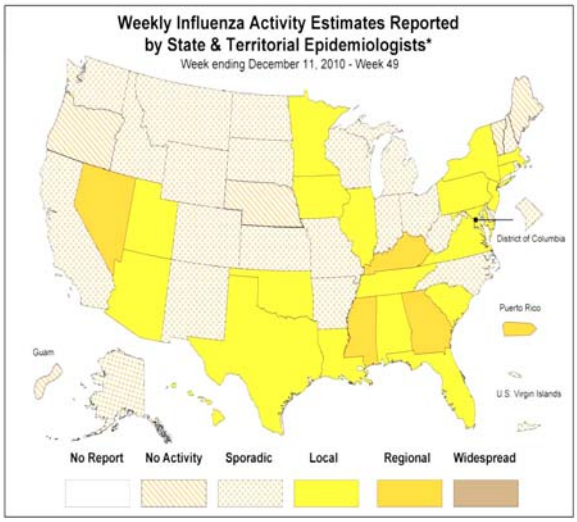


National and Regional Summary of Select Surveillance Components

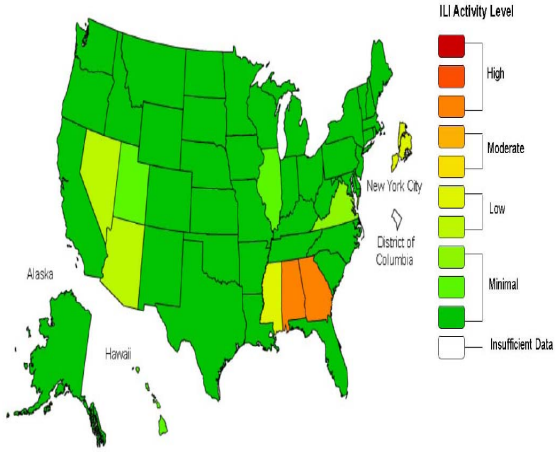
	Data for current week			Data cumulative since October 3, 2010 (Week 40)				
HHS Surveillance Regions*	Out-patient ILI†	% positive for flu‡	Number of jurisdictions reporting regional or widespread activity§	A (H3)	2009 A (H1N1)	A (Subtyping not performed)	B	Pediatric Deaths
Nation	Normal	11.0%	5 of 54	679	126	793	1,209	2
Region 1	Normal	7.2%	0 of 6	41	4	2	1	0
Region 2	Normal	5.4%	1 of 4	35	1	61	3	1
Region 3	Normal	5.8%	0 of 6	63	25	7	7	0
Region 4	Normal	19.5%	3 of 8	179	40	525	1,034	0
Region 5	Normal	9.2%	0 of 6	76	4	3	6	0
Region 6	Normal	5.8%	0 of 5	49	5	91	59	1
Region 7	Normal	2.5%	0 of 4	4	3	14	7	0
Region 8	Normal	8.6%	0 of 6	153	17	62	11	0
Region 9	Normal	4.8%	1 of 5	57	26	22	77	0
Region 10	Normal	4.1%	0 of 4	22	1	6	4	0

Pneumonia and Influenza (P&I) Mortality Surveillance: During week 48, 6.5% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was below the epidemic threshold of 7.3% for week 48.

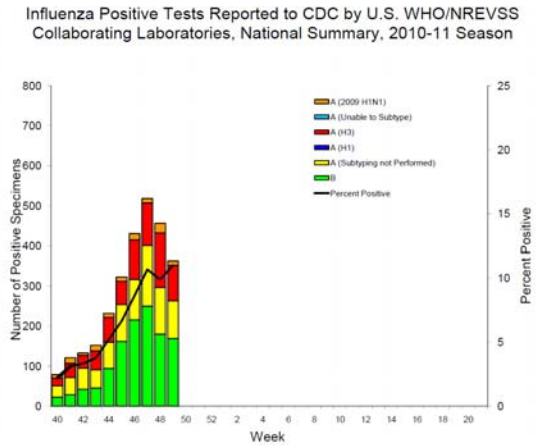




* This map indicates geographic spread & does not measure the severity of influenza activity



*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.



Antiviral Resistance:

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)	33	0 (0.0)	33	0 (0.0)
Influenza B	54	0 (0.0)	54	0 (0.0)
2009 Influenza A (H1N1)	17	0 (0.0)	15	0 (0.0)