



DEPARTMENT OF HEALTH SERVICES  
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report  
For the Week Ending April 3, 2010 (week 10-13)



AT A GLANCE

1. Predominant respiratory viruses in Wisconsin:  
RSV, Human metapneumovirus, and Rhinovirus with sporadic 2009/H1N1

2. Influenza-like illness activity in Wisconsin and five public health regions:

	Current Week 10-13	Previous Week 10-12
Wisconsin	Low	Low
Northeastern Region	Low	Low
Northern Region	Low	Low
Southeastern Region	Low	Low
Southern Region	Low	Low
Western Region	Low	Low

3. Influenza-like illness percentage:

	Current week 10-13	Baseline
United States	1.1%	2.3%
Wisconsin	1.1%	3.1%
Region V (WI, MN, IL, MI, OH)	0.9%	1.7%

4. 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)

5. 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)

**Use of the influenza rapid test to diagnose 2009 H1N1 is discouraged**

6. Antiviral resistance: (August 31 2009 –present) \* State lab counts reflect tests on Wisconsin residents

ADAMANTANE RESISTANCE									
Season/Lab		Influenza Subtype							
		Seasonal A/H1		2009 A/H1N1		A/H3			
		Tested	Resistant	Tested	Resistant	Tested	Resistant		
09-10	WSLH								
09-10	CDC	1	0%	1,669	99.8%	13		100.0%	

OSELTAMIVIR RESISTANCE									
Season/Lab		Influenza Subtype							
		Seasonal A/H1		2009 A/H1N1		A/H3		B	
		Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant
09-10	WSLH			87	0%				
09-10	CDC	1	100%	4,423	1.2%	13	0%	23	0%

ZANAMIVIR RESISTANCE									
Season/Lab		Influenza Subtype							
		Seasonal A/H1		2009 A/H1N1		A/H3		B	
		Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant
09-10	CDC			1,617	0%				

7. Influenza-associated pediatric deaths (August 31, 2009-present)

	Current Week 10-09	2009-10 Season Total	Due to 2009 H1N1
United States	1	270	220
Wisconsin	0	4	4

8. Pneumonia and influenza mortality (P&I), United States,

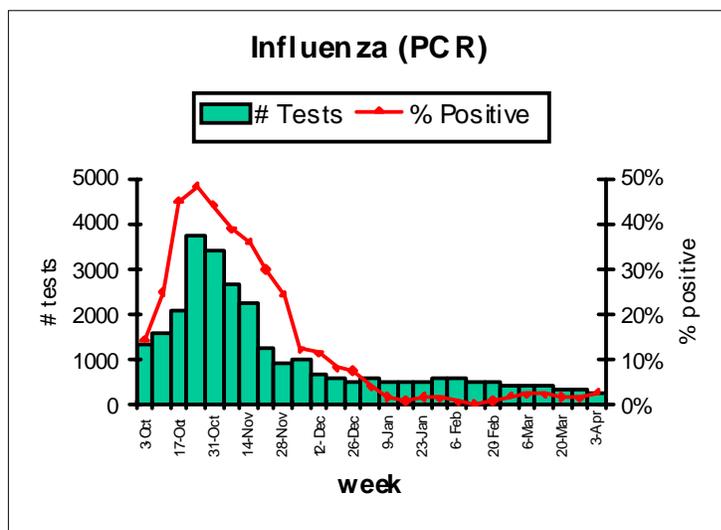
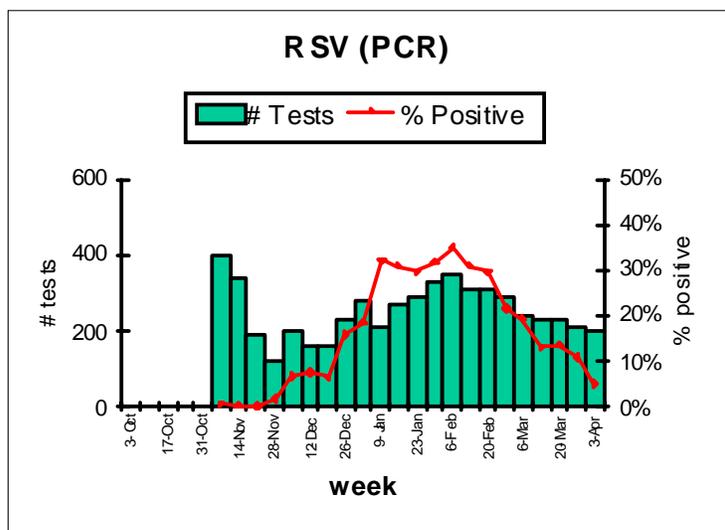
	Current Week 10-13	Previous Week 10-12
P&I %	7.2%	7.9%
National P&I threshold %	7.7%	7.8%

# WISCONSIN LABORATORY SURVEILLANCE

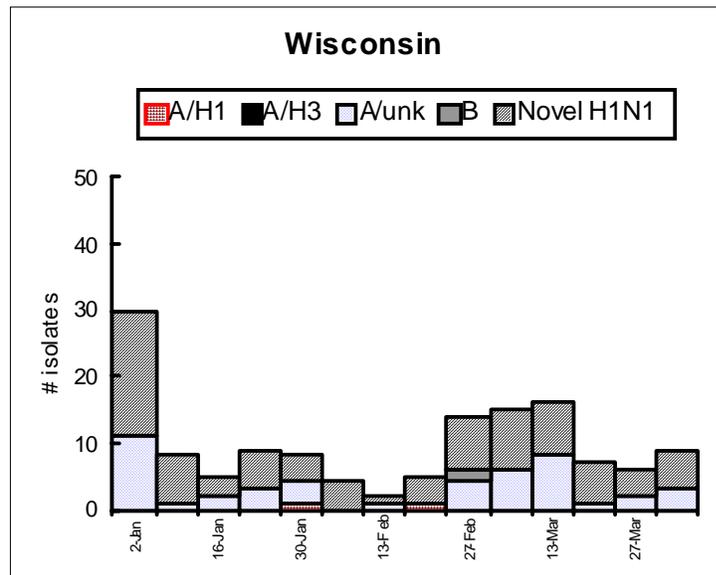
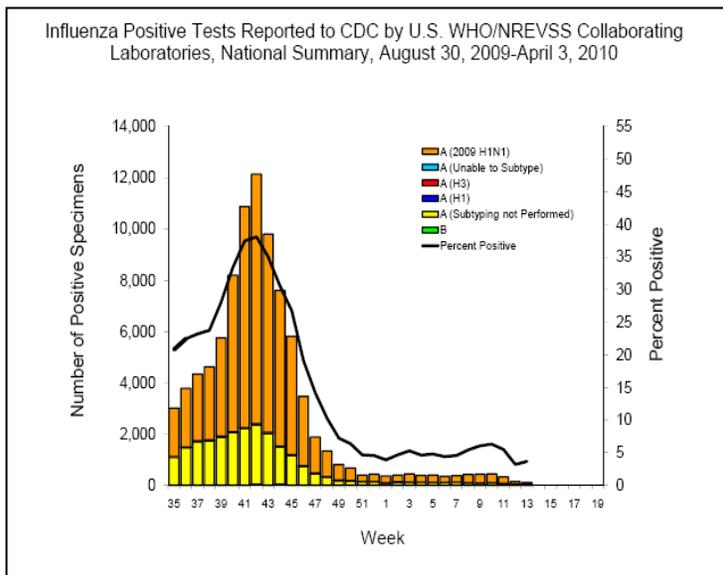
## For Influenza and other Respiratory Viruses (week 10-13)

VIRUS CULTURE Based on 81 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	8.6 %					
Influenza (Tot.)	2.5%	Influenza (Tot)	233	0.4%	Influenza A & B	8/277
Influenza A	2.5%	Influenza A		0.4%	Influenza A	0/1
Influenza B	0.0%	Influenza B		0.0%	# A/H1	0
					2009 A/H1	6
hMPV	0.0%	Influenza Unk.*		0.0%	# A/H3	0
					# A/not subtyped	2
					# B	0
RSV	0.0%	RSV	197	12.7%	RSV	10/203
Adenovirus	1.2%	Adenovirus	20	0.0%	Adenovirus	2/99
Parainfluenza	4.9%				Parainfluenza	4/157
					Corona OC43	0/89
					Corona NL63	2/89
Rhinovirus	0.0%	* Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Corona HUK1	0/89
Enterovirus	0.0%				Rhinovirus	17/99
					hMPV	11/99
hMPV	0.0%					

### WISCONSIN TREND. RSV AND INFLUENZA PCR POSITIVE TESTS

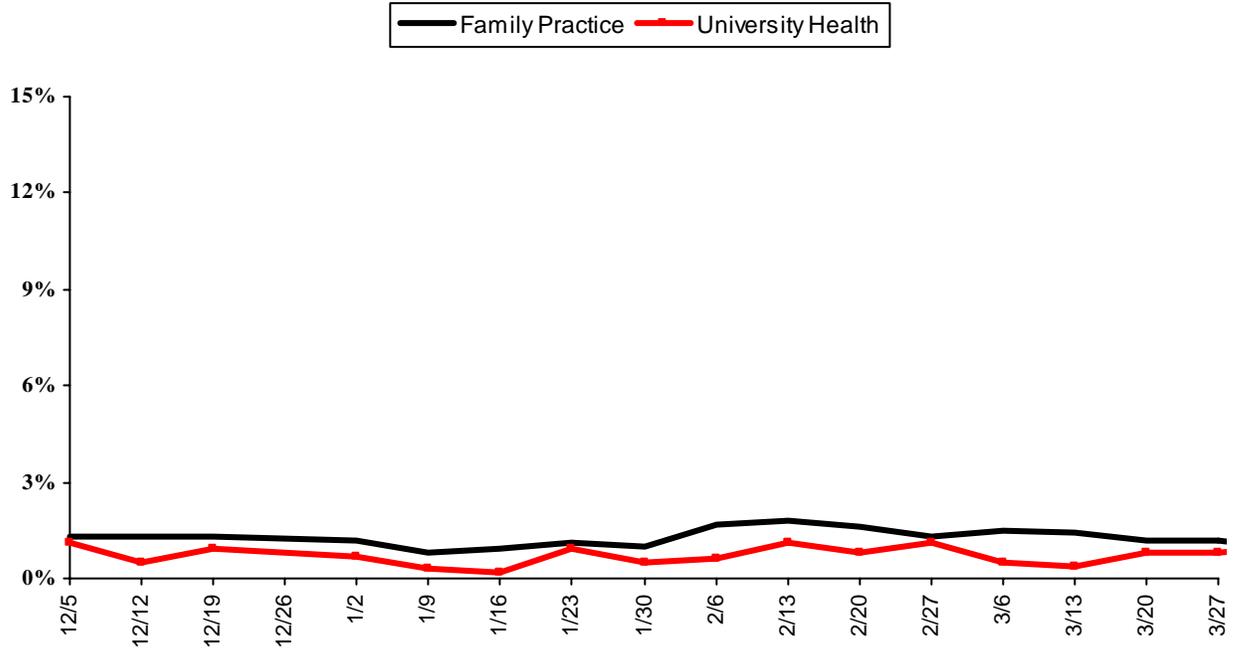


### WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) August 2009-Present





ILI Activity Statewide  
Family Practice Clinicians and University Student Health Clinicians  
December 5, 2009 to present

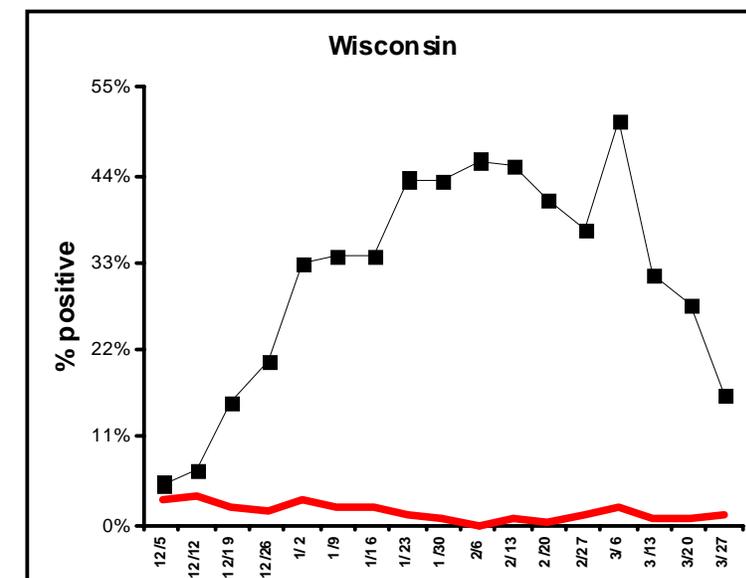
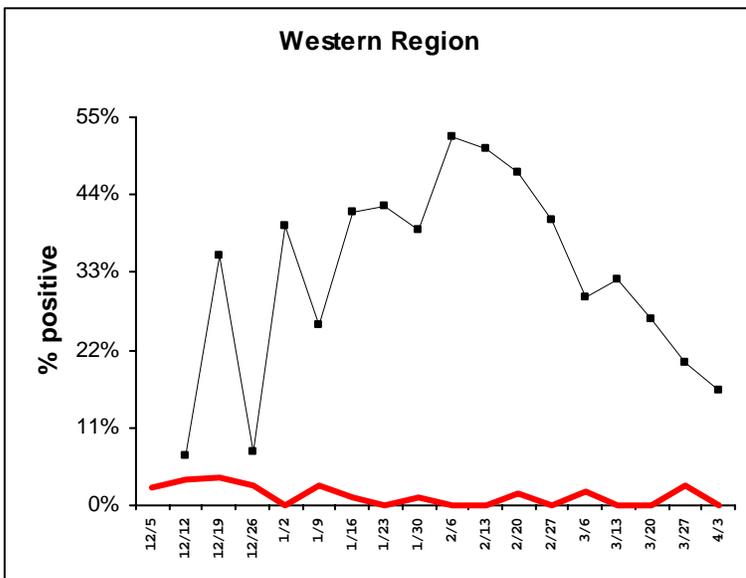
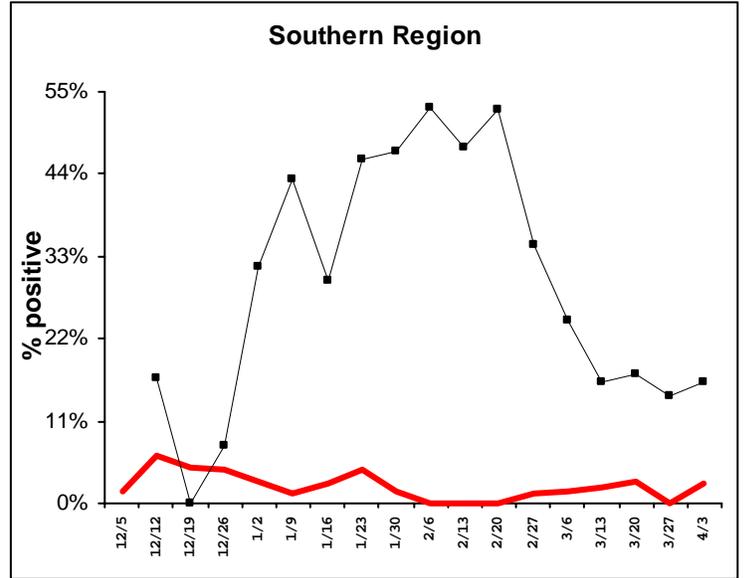
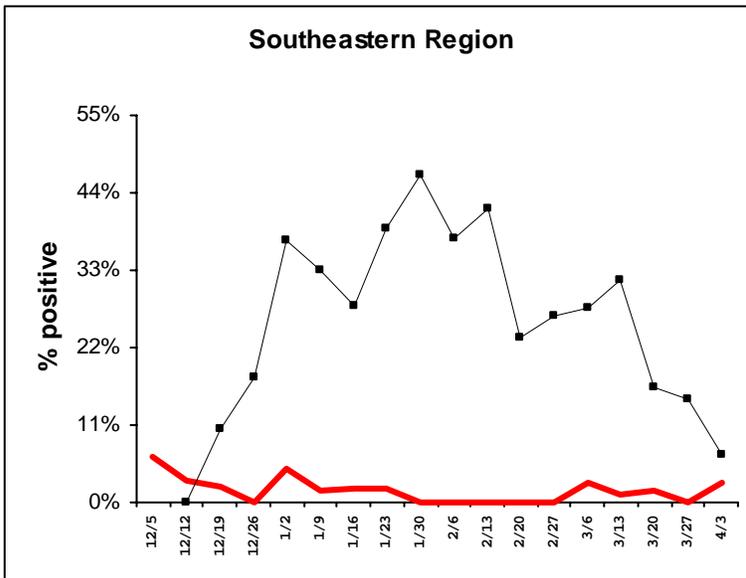
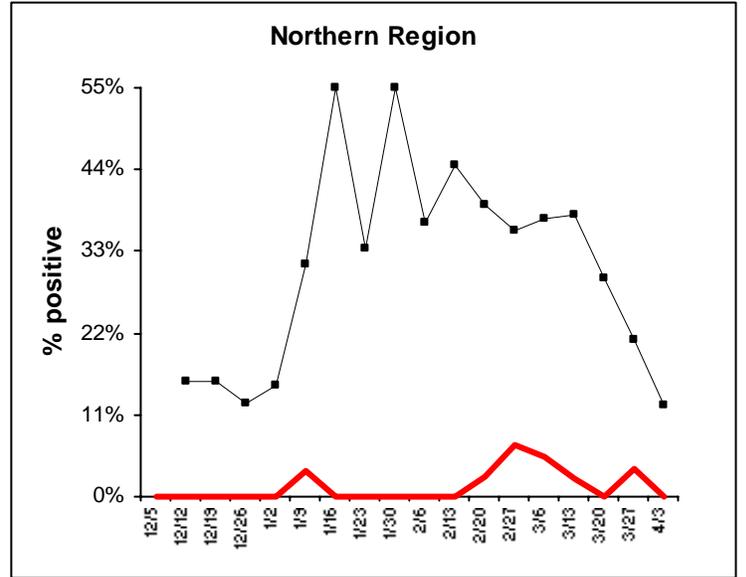
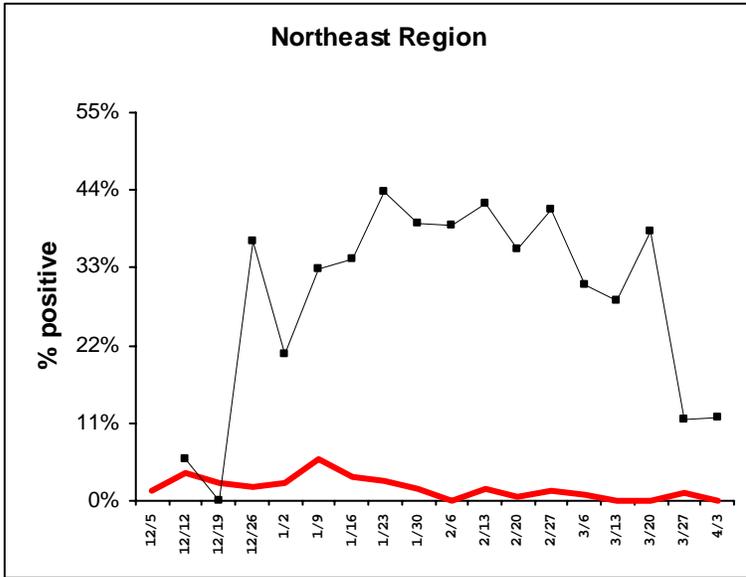


# RAPID TEST SITE DATA (CHART) BY REGION

Percent Positive Rapid Tests for Influenza and RSV

— Influenza

■ RSV



# INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

Source: US Outpatient Influenza-like Illness Surveillance Network (ILINet)

— ILI %      — Baseline %      - - - - Threshold %

