



**DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH**
Weekly Surveillance Report
For the Week Ending November 7, 2009 (week 09-44)



AT A GLANCE

1. Predominant respiratory viruses in Wisconsin:
2009 A/H1N1 , rhinovirus and Parainfluenza

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

	Current Week 09-44	Previous Week 09-43
Wisconsin	High	High
Northeastern Region	High	High
Northern Region	High	High
Southeastern Region	High	High
Southern Region	High	High
Western Region	High	High

*Note: Beginning week 40, baseline and threshold levels have changed to reflect the 2009-2010 influenza season activity

3. Influenza-like illness percentage:

	Current week 09-44	Baseline
United States	6.7%	2.3%
Wisconsin	7.0%	3.1%
Region V (WI, MN, IL, MI, OH)	7.1%	1.7%

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

Although a positive Influenza A rapid test is likely to be a true positive, we are seeing many false negative rapid test results. Therefore **Use of the influenza rapid test to diagnose 2009 H1N1 is discouraged**

6. Antiviral resistance: (August 31 2009 –present)

		ADAMANTANE RESISTANCE					
		Influenza Subtype					
		Seasonal A/H1		2009 A/H1N1		A/H3	
Season/Lab		Tested	Resistant	Tested	Resistant	Tested	Resistant
09-10	WSLH						
09-10	CDC			152	100%	1	100%

		OSELTAMIVIR RESISTANCE							
		Influenza Subtype							
		Seasonal A/H1		2009 A/H1N1		A/H3		B	
Season/Lab		Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant
09-10	WSLH			40	0%				
09-10	CDC			1076	0.3%				

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

	Current Week 09-42	2009-10 Season Total	Due to 2009 H1N1
United States	35	117	98
Wisconsin	1	3	3

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

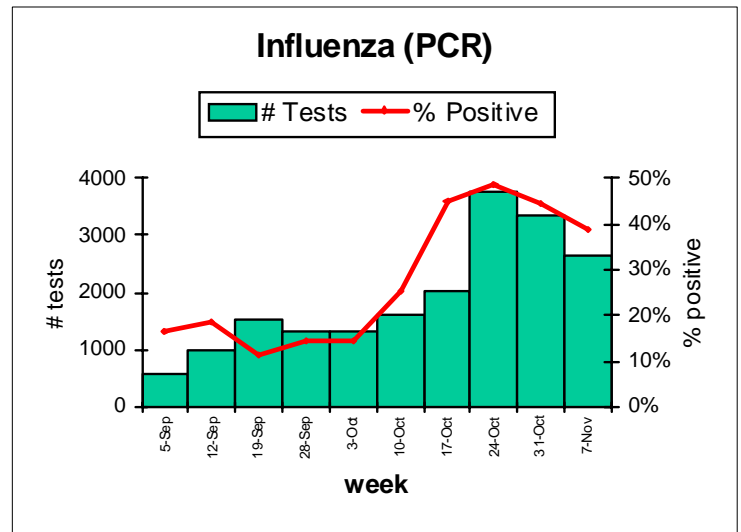
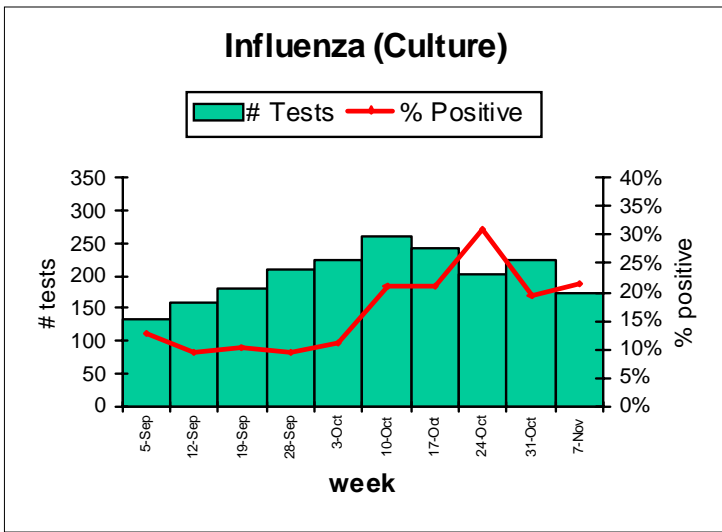
	Current Week 09-43	Previous Week 09-43
P&I %	7.7%	7.4%
National P&I threshold %	6.8%	6.7%

WISCONSIN LABORATORY SURVEILLANCE

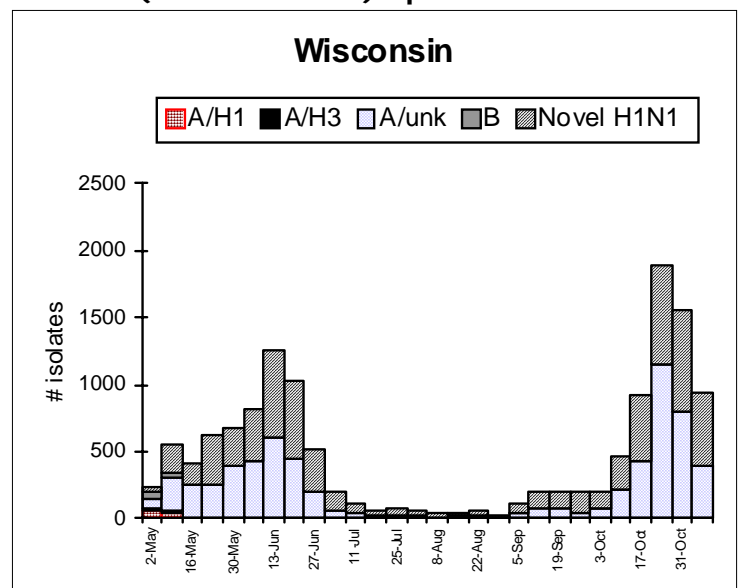
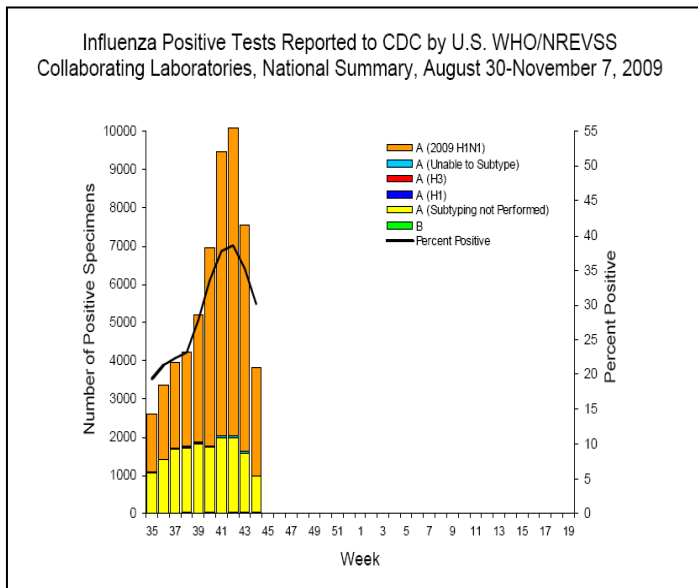
For Influenza and other Respiratory Viruses (week 09-44)

VIRUS CULTURE Based on 172 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	24.4%					
Influenza (Tot.)	21.5%	Influenza (Tot)	2201	18.3%	Influenza A & B	838/2204
Influenza A	21.5%	Influenza A		17.3%	Influenza A	164/377
Influenza B	0.0%				# A/H1	0
hMPV	0.0%	Influenza B		0.1%	2009 A/H1	551
					# A/H3	0
		Influenza Unk.*		1.0%	# A/not subtyped	449
					# B	2
RSV	0.0%	RSV	149	1.3%	RSV	1/338
Adenovirus	0.0%	Adenovirus	0	0.0%	Adenovirus	0/56
Parainfluenza	2.9%				Parainfluenza	14/349
Rhinovirus	0.0%	* Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Rhinovirus	6/41
Enterovirus	0.0%				Enterovirus	2/6

WISCONSIN. 10-WEEK TREND. INFLUENZA PCR AND CULTURE POSITIVE TESTS



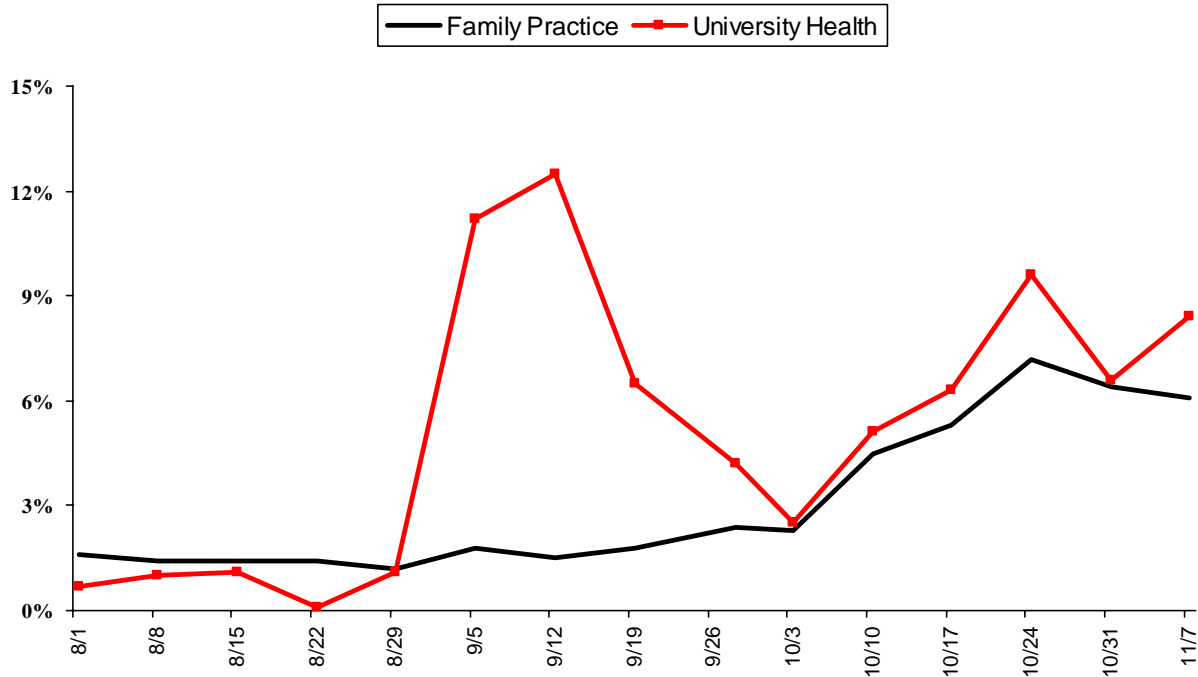
WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) April 2009-Present



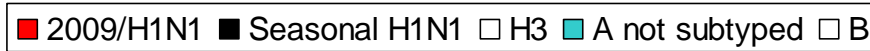
ILI Activity Statewide

Family Practice Clinicians and University Student Health Clinicians

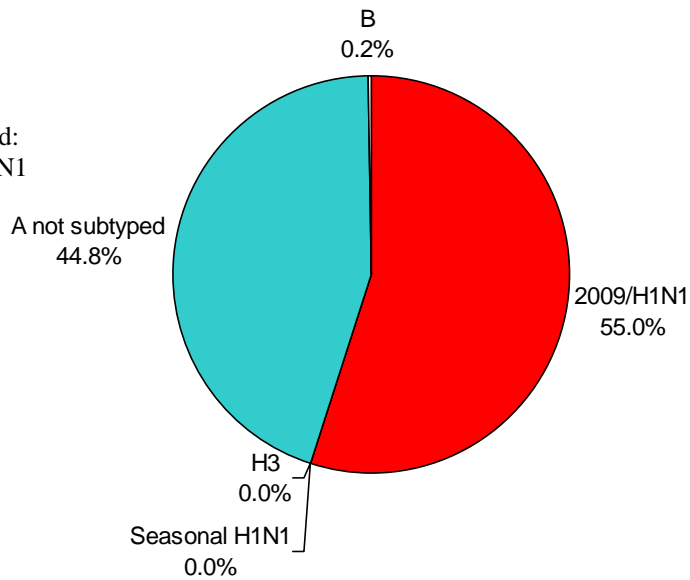
August 2009 to present



Influenza Strains Wisconsin Week 44

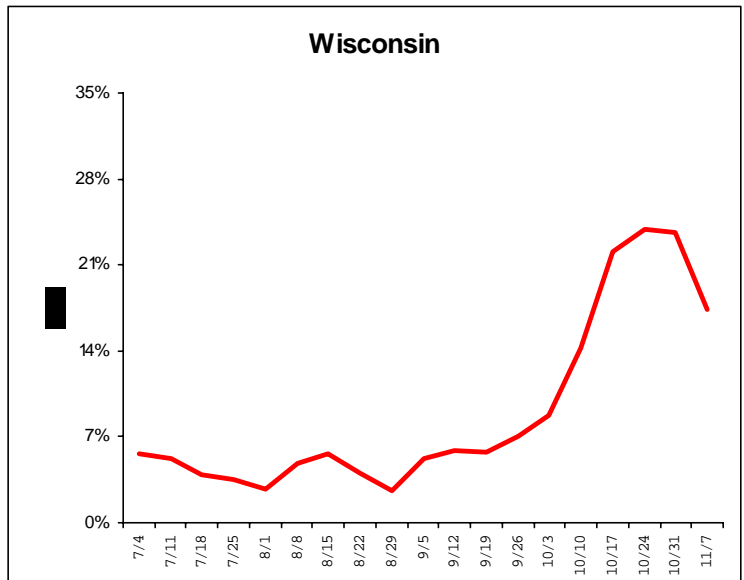
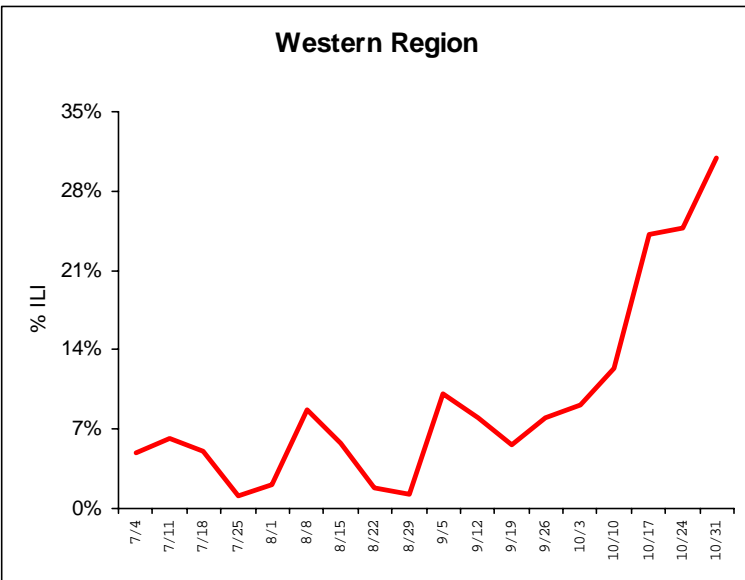
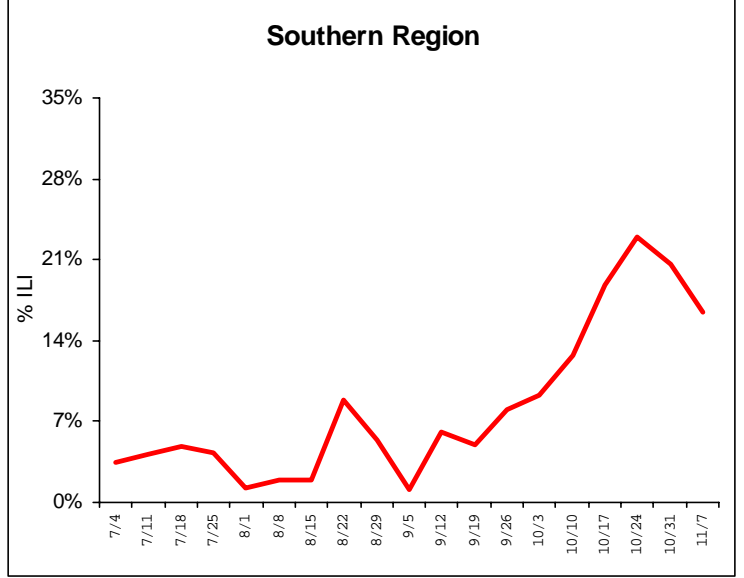
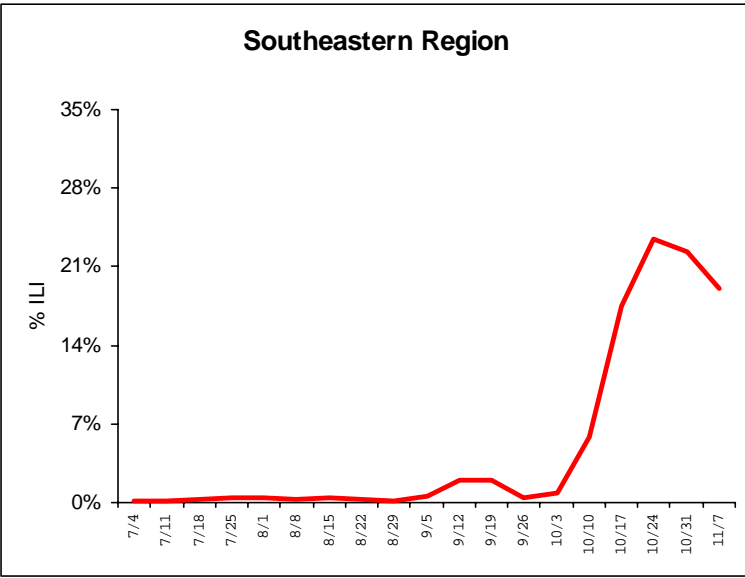
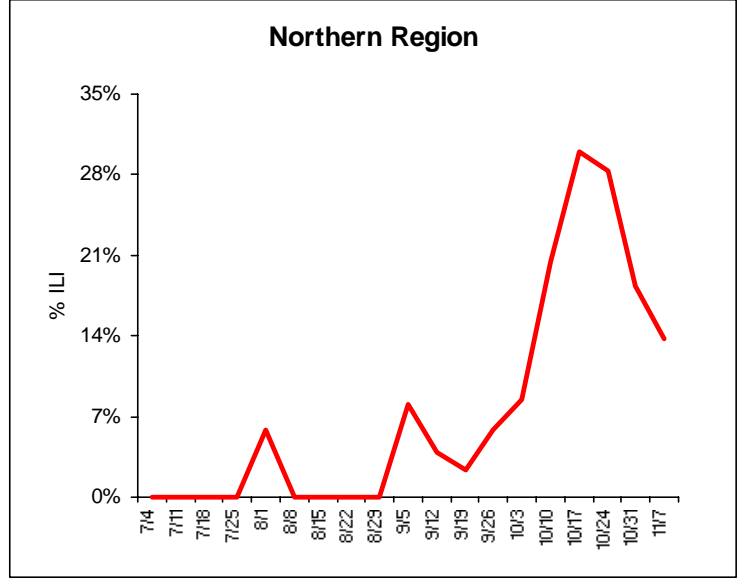
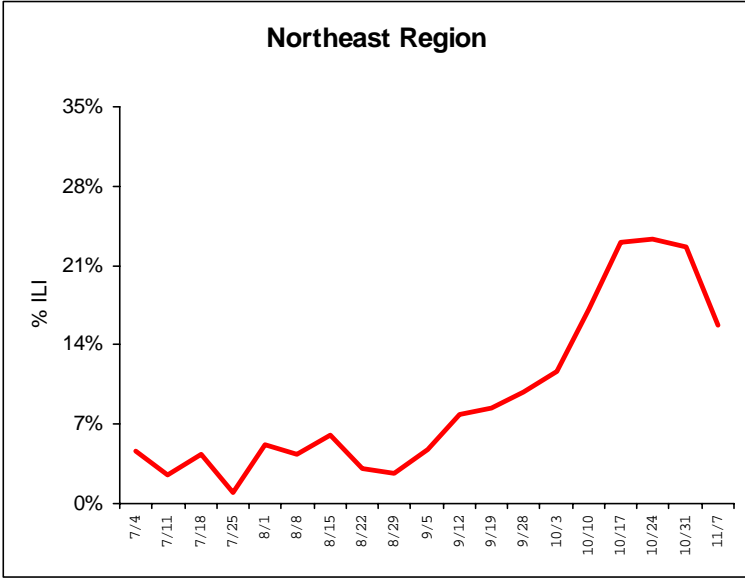


99.8% Influenza A
 0.2% Influenza B
 Of those Influenza A subtyped:
 551/551 (100%) are 2009/ H1N1



RAPID TEST SITE DATA (CHART) BY REGION

Percent Positive Rapid Tests for Influenza and RSV
(RSV will appear later in the year)



INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

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

