



**DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH**
Weekly Surveillance Report
For the Week Ending October 24, 2009 (week 09-42)



AT A GLANCE

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

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

	Current Week 09-42	Previous Week 09-41
Wisconsin	High	High
Northeastern Region	High	High
Northern Region	High	High
Southeastern Region	High	Moderate
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 09-42	Baseline
United States	7.7%	2.3%
Wisconsin	9.2%	3.1%
Region V (WI, MN, IL, MI, OH)	9.8%	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			58	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			730	0.5%				

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

	Current Week 09-42	2009-10 Season Total	Due to 2009 H1N1
United States	22	74	65
Wisconsin	0	2	2

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

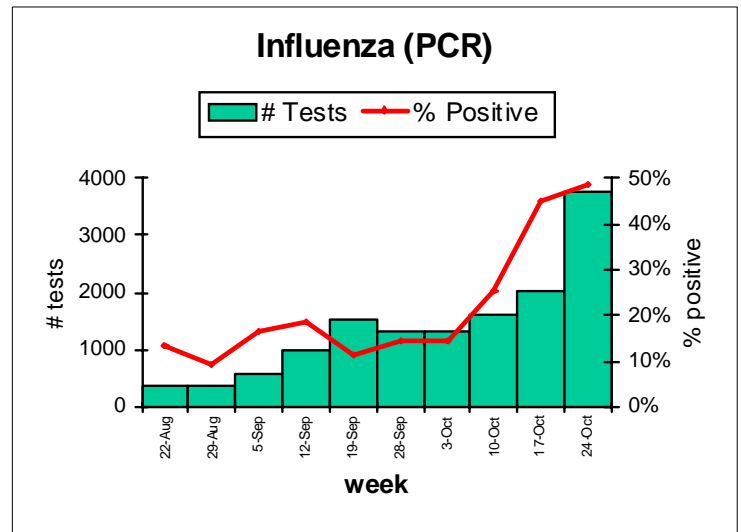
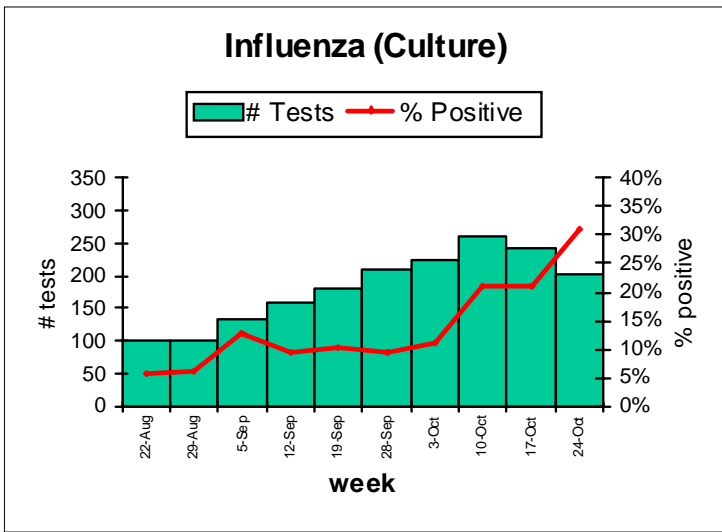
	Current Week 09-42	Previous Week 09-41
P&I %	7.1%	6.9%
National P&I threshold %	6.6%	6.6%

WISCONSIN LABORATORY SURVEILLANCE

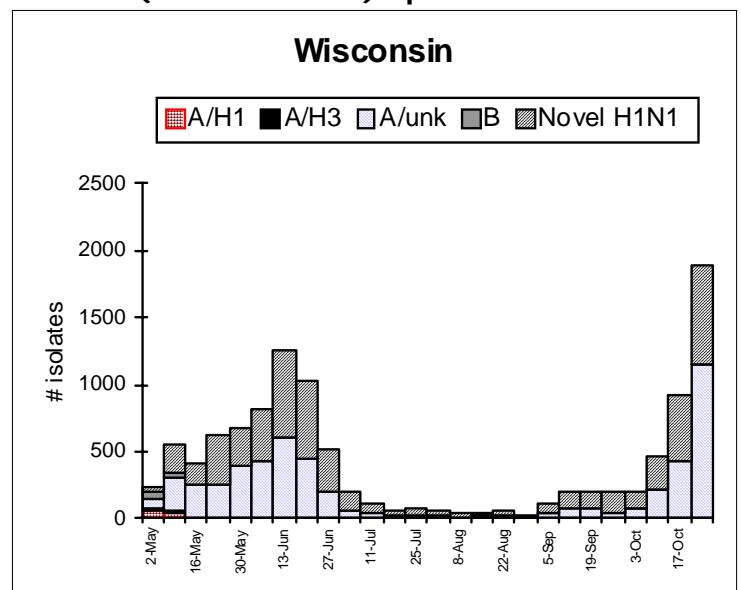
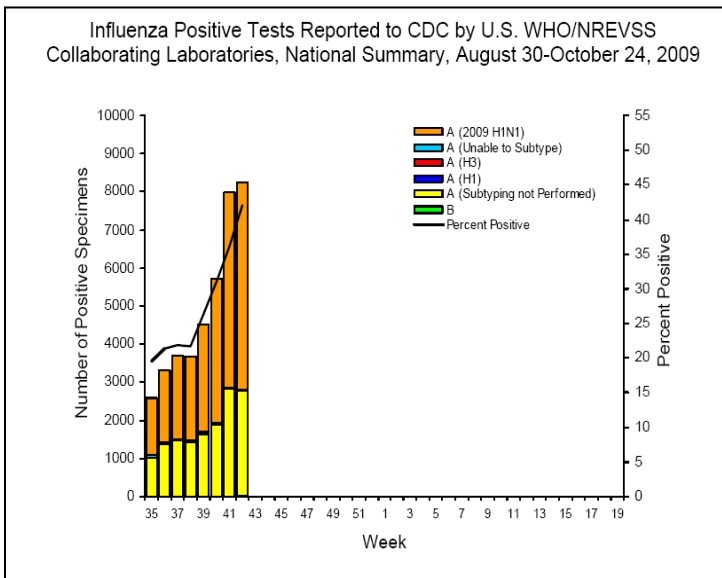
For Influenza and other Respiratory Viruses (week 09-42)

VIRUS CULTURE Based on 204 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	37.2%					
Influenza (Tot.)	31.1%	Influenza (Tot)	4196	24.6%	Influenza A & B	1343/2992
Influenza A	31.1%	Influenza A		23.7%	Influenza A	483/773
Influenza B	0.0%	Influenza B		0.1%	# A/H1	0
hMPV	0.0%	Influenza Unk.*		0.7%	2009 A/H1	736
RSV	0.0%	RSV	173	1.7%	# A/H3	1
Adenovirus	0.9%	Adenovirus	0	0.0%	# A/not subtyped	1085
Parainfluenza	2.9%				# B	4
Rhinovirus	0.4%	* Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Rhinovirus	4/46
Enterovirus	1.4%				Enterovirus	0/6

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



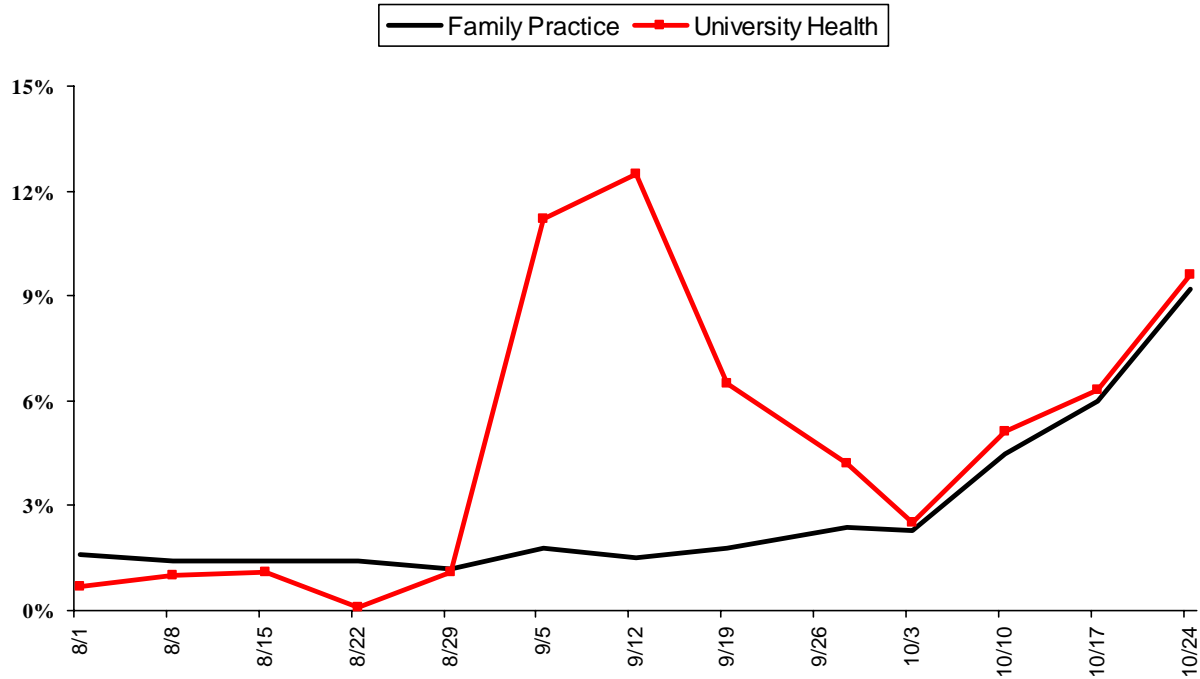
WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) April 2009-Present



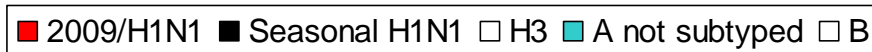
ILI Activity Statewide

Family Practice Clinicians and University Student Health Clinicians

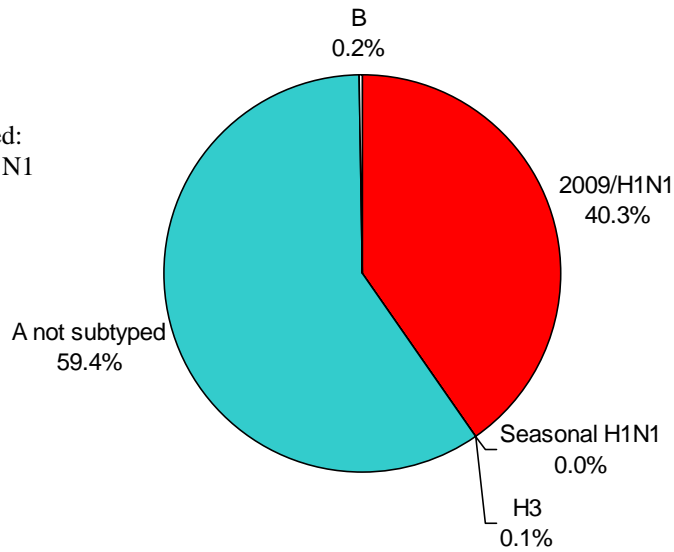
August 2009 to present



Influenza Strains Wisconsin Week 42



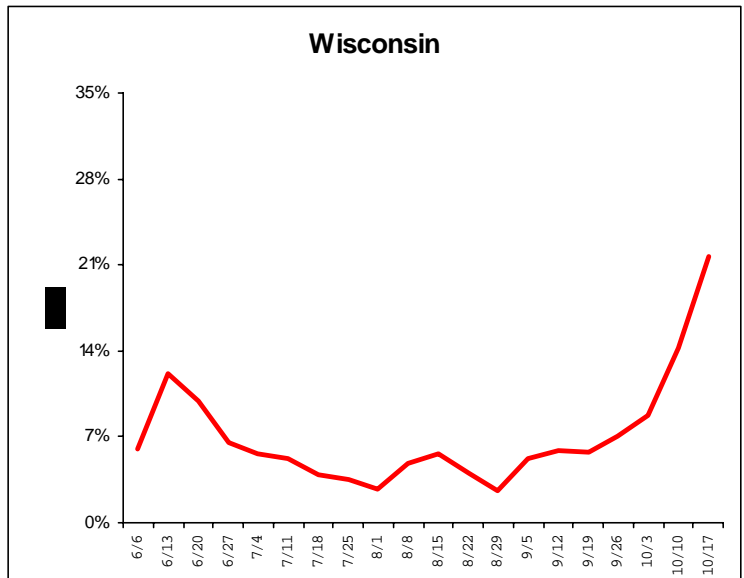
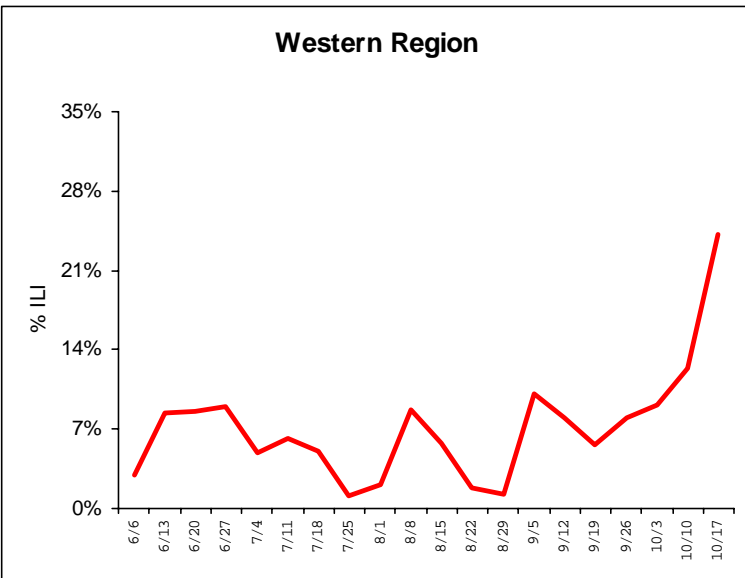
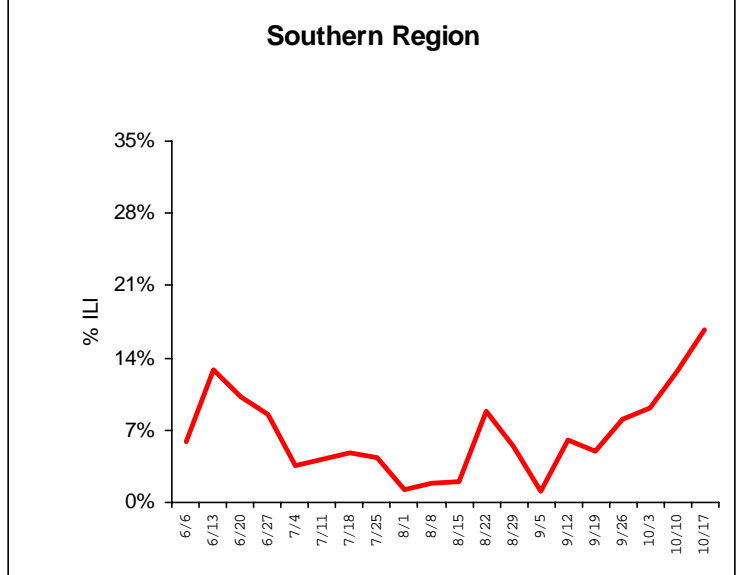
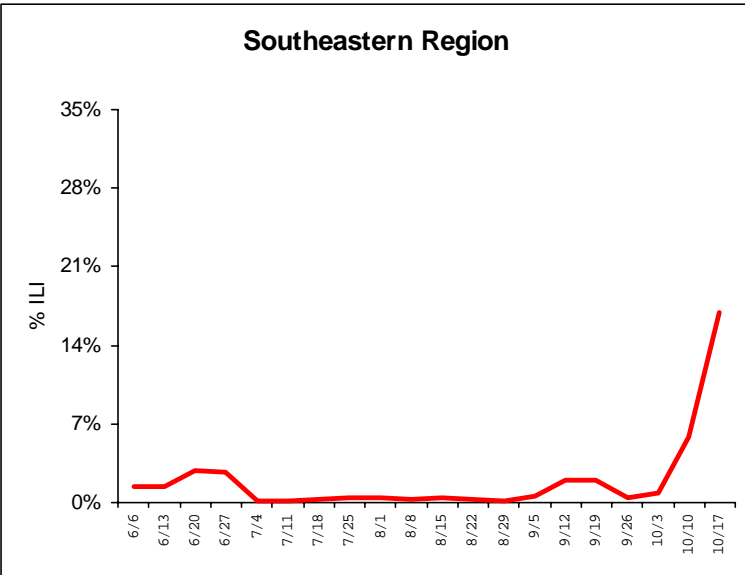
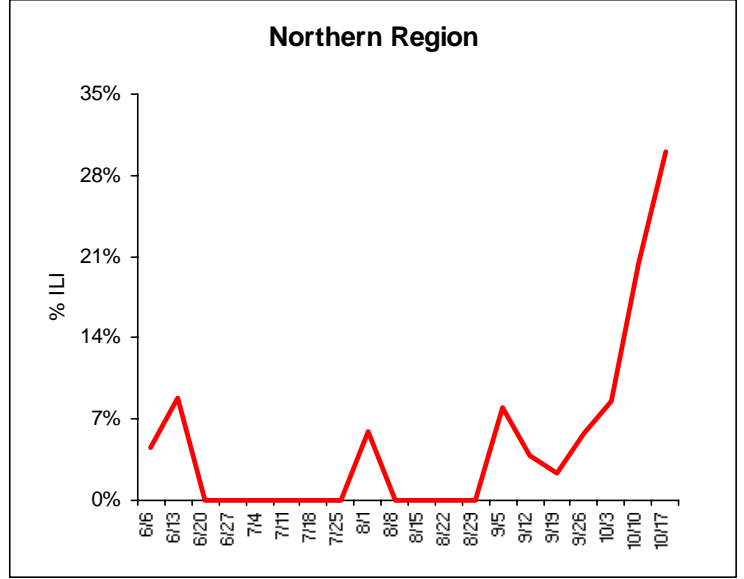
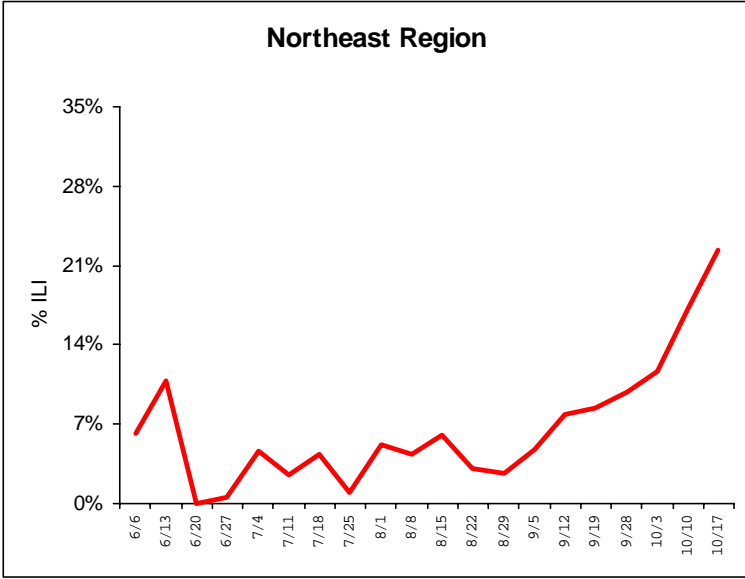
99.8% Influenza A
 0.2% Influenza B
 Of those Influenza A subtyped:
 736/737 (99.9%) are 2009/ H1N1



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 %

