DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report
For the Week Ending September 19, 2009 (week 09-37)

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 09-36	Previous Week 09-36
Wisconsin	High	High
Northeastern Region	Low	High
Northern Region	Low	Low
Southeastern Region	Moderate	High
Southern Region	High	High
Western Region	Moderate	Moderate

*Note: Beginning week 21, baseline and threshold levels have changed to reflect summer activity

3. **Influenza-like illness percentage:**

	Current week 09-37	Baseline
United States	4.6%	2.4%
Wisconsin	3.9%	*1.6 % (3.1%)
Region V (WI, MN, IL, MI, OH)	2.7%	1.9%

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)

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

6. **Antiviral resistance:**

ADAMANTANE RESISTANCE							
		Influenza Subtype					
		Seasonal A/H1		2009 A/H1N1		A/H3	
Season	Lab	Tested	Resistant	Tested	Resistant	Tested	Resistant
08-09	WSLH	51	0%	NA	NA	19	100%
08-09	CDC	1153	0.5%	526	100%	261	100%

OSELTAMIVIR RESISTANCE									
		Influenza Subtype							
		Seasonal A/H1		2009 A/H1N1		A/H3		B	
Season	Lab	Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant
08-09	WSLH	100	100%	50	0%	NA	NA	NA	NA
08-09	CDC	1148	99.6%	1678	0.6%	261	0%	654	0%

7. **Influenza-associated pediatric deaths**

	Current Week 09-37	2008-09 Season Total	Due to 2009 H1N1
United States	3	117	49
Wisconsin	0	3	3

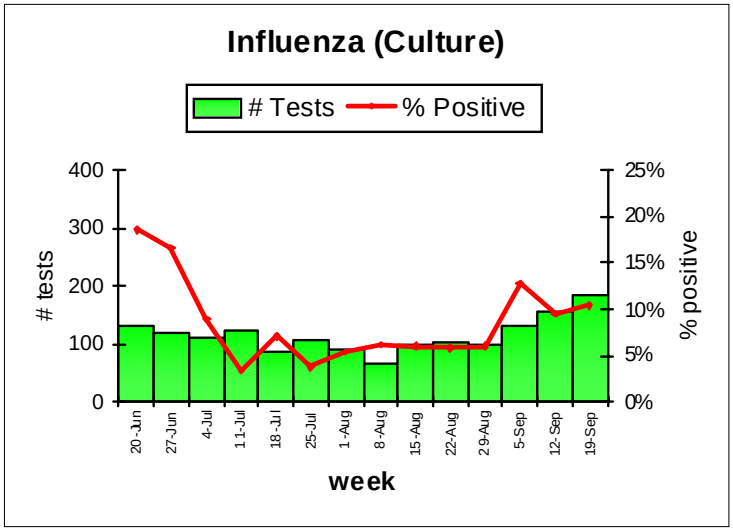
8. **Pneumonia and influenza mortality (P&I), United States,**

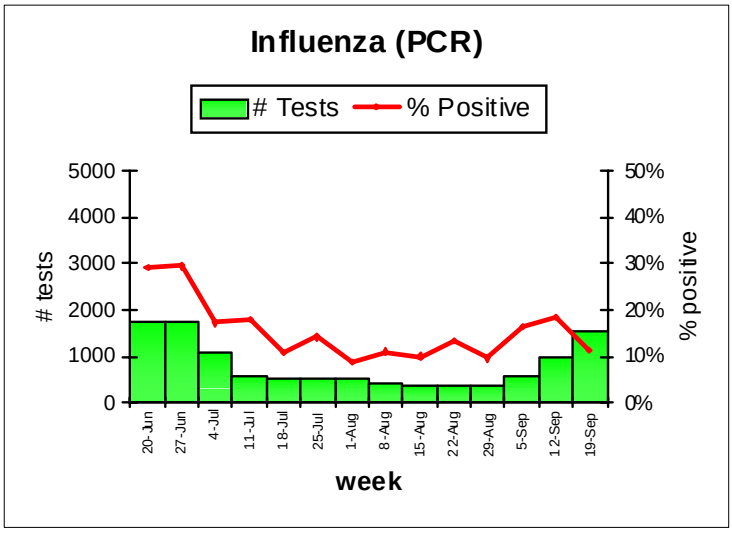
	Current Week 09-37	Previous Week 09-36
P&I %	6.0%	6.0%
National P&I threshold %	6.3%	6.3%

WISCONSIN LABORATORY SURVEILLANCE
For Influenza and other Respiratory Viruses (week 09-37)

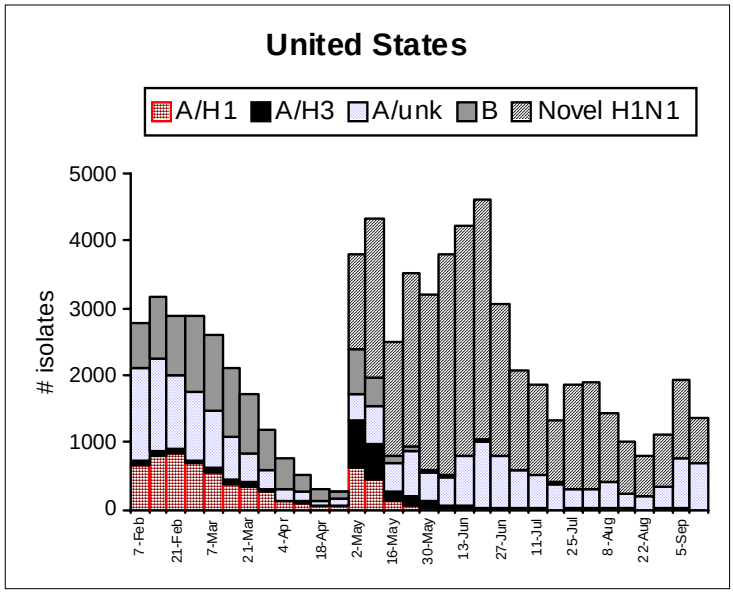
VIRUS CULTURE Based on 182 tests		RAPID TESTS			SELECT PCR TESTS	
Virus	% Positive	Virus	# Tests	% Positive	Virus	Positive/ total number
Total % Positive	16.5%					
Influenza (Tot.)	10.4%	Influenza (Tot)	1325	5.7%	Influenza A & B	72/1164
Influenza A	10.4%				Influenza A	106/340
Influenza B	0.0%	Influenza A		5.4%	# A/H1	0
					Novel A/H1	128
hMPV	0.0%	Influenza B		0.1%	# A/H3	1
					# A/not subtyped	49
		Influenza Unk.*		0.0%	# B	0
RSV	0.0%	RSV	74	2.7%	RSV	1/151
Adenovirus	1.1%	Adenovirus	24	0.0%	Adenovirus	2/51
Parainfluenza	2.2%				Parainfluenza	12/110
Rhinovirus	1.6%	*Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Rhinovirus	5/31
Enterovirus	0.6%				Enterovirus	3/16

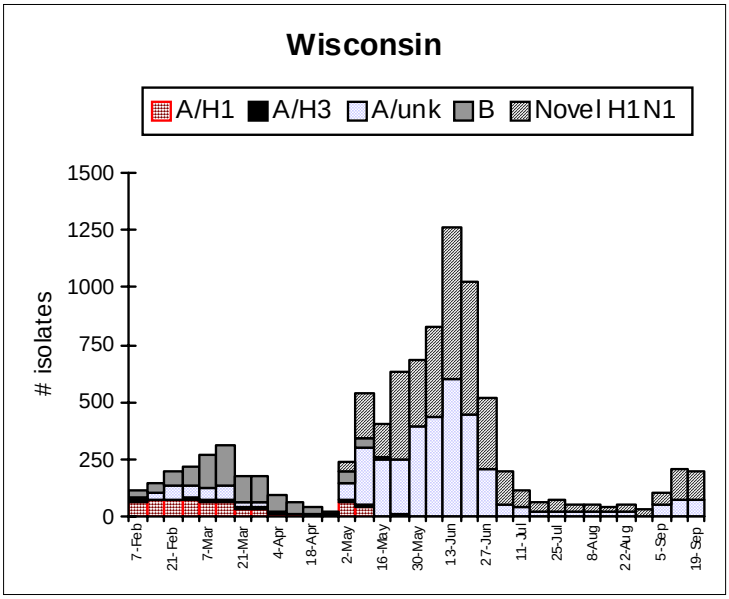
WISCONSIN. 10-WEEK TREND. INFLUENZA PCR AND CULTURE POSITIVE TESTS



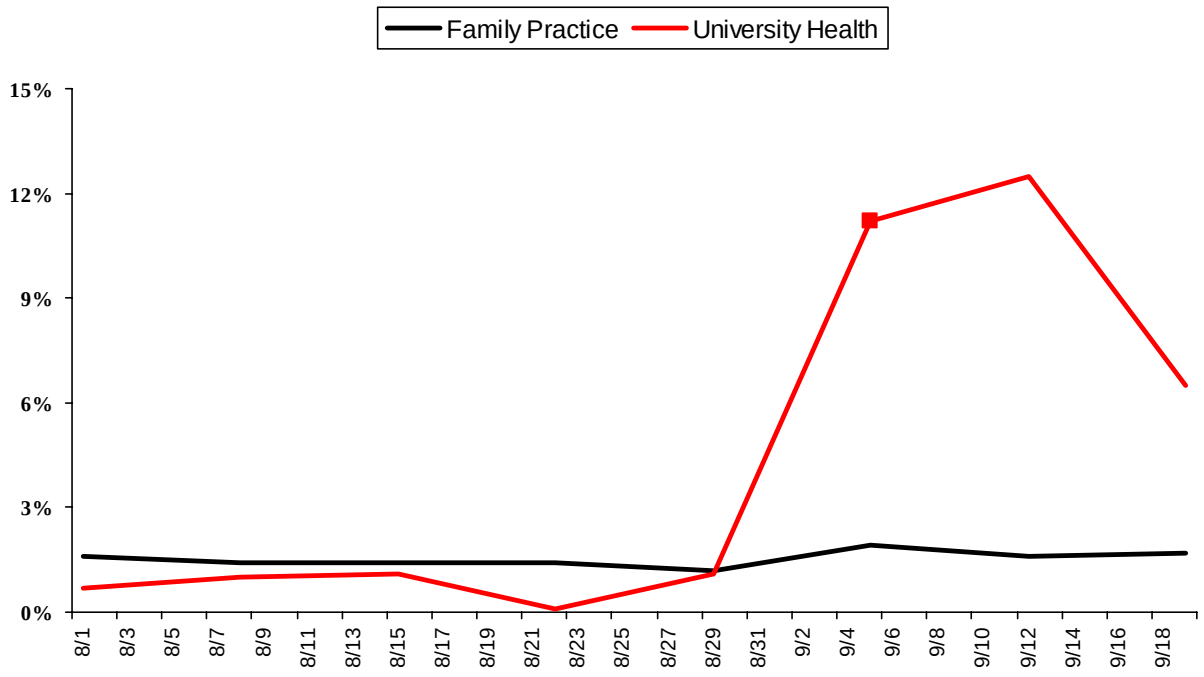


WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) January-Present

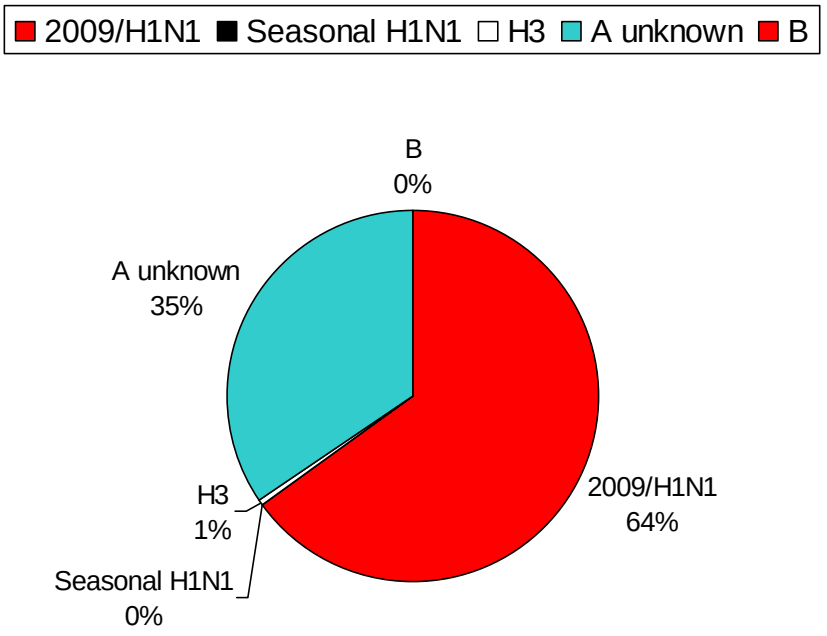




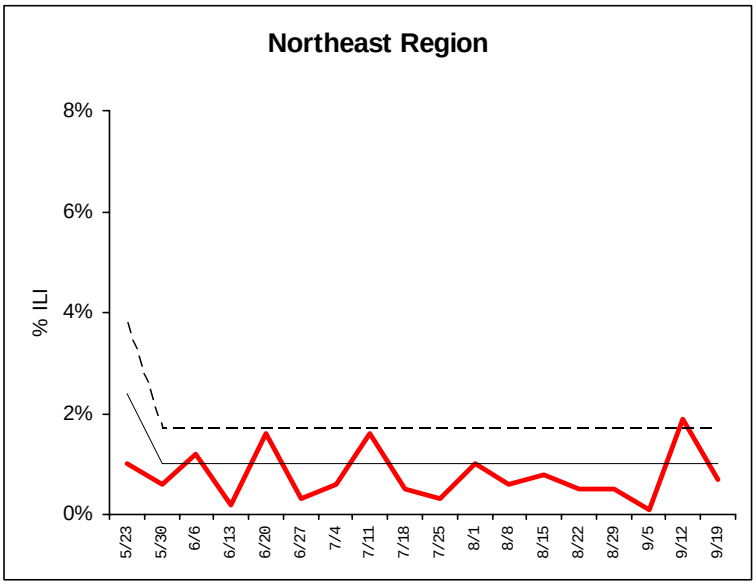
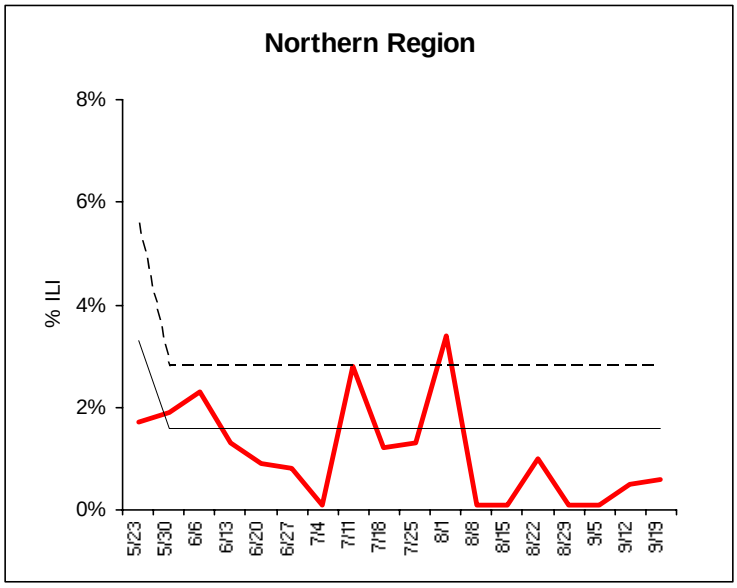
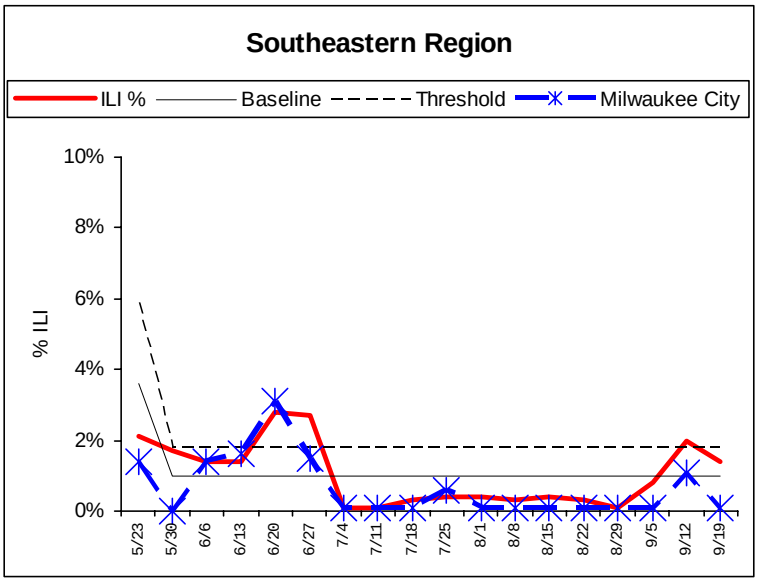
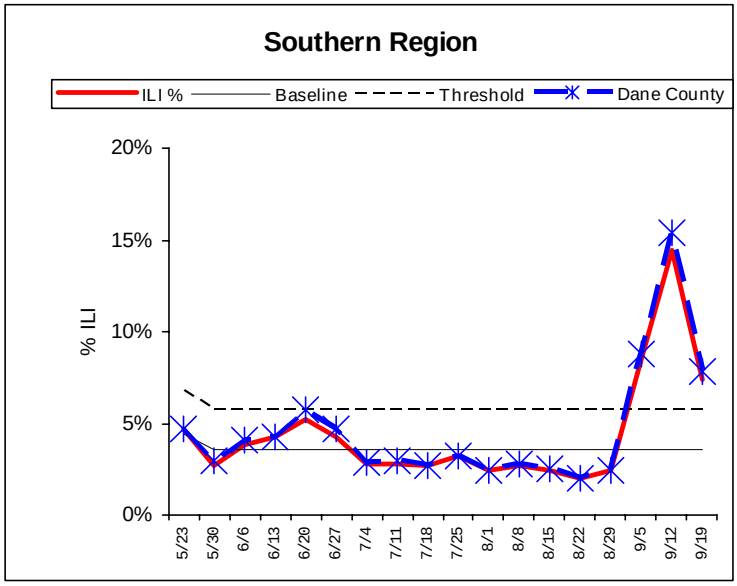
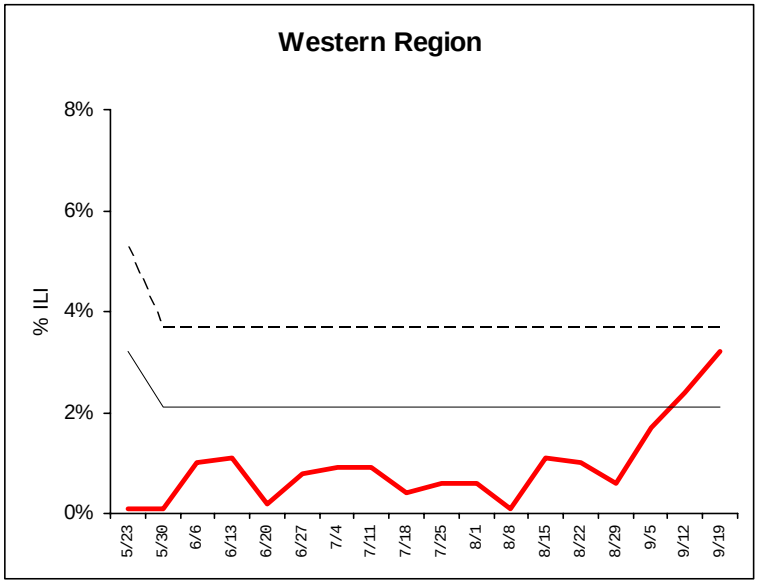
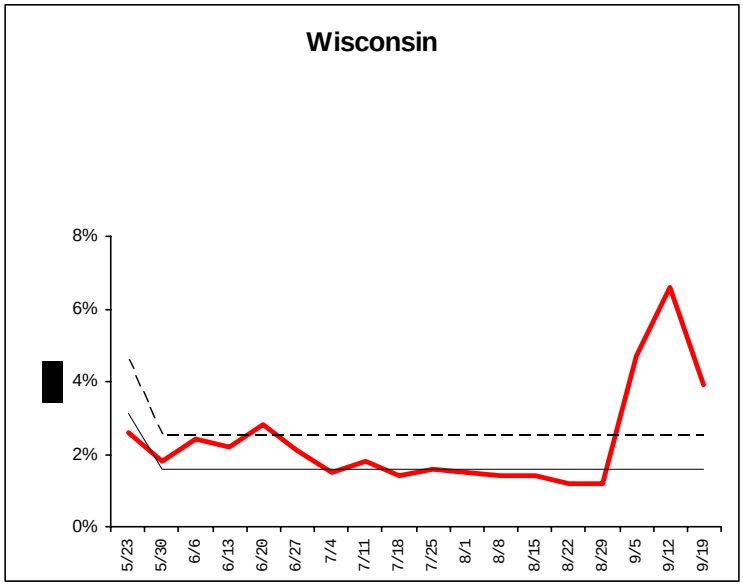
ILI activity Statewide
Family Practice Clinicians and University Student Health Clinicians
August to Present, 2009



Influenza Strains Wisconsin Week 37



INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % — Baseline % — Threshold %