DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report
For the Week Ending October 10, 2009 (week 09-40)

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 09-40	Previous Week 09-39
Wisconsin	High	Moderate
Northeastern Region	High	Moderate
Northern Region	Moderate	Low
Southeastern Region	Moderate	Low
Southern Region	Moderate	Moderate
Western Region	High	Low

*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 09-40	Baseline
United States	5.1% - week 39	2.4%
Wisconsin	5.1%	3.1%
Region V (WI, MN, IL, MI, OH)	2.4% - week 39	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	1157	0.6%	526	100%	271	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	1151	99.6%	2040	0.5%	264	0%	654	0%

7. **Influenza-associated pediatric deaths**

	Current Week 09-39	2008-09 Season Total	Due to 2009 H1N1
United States	19	147	76
Wisconsin	1	4	4

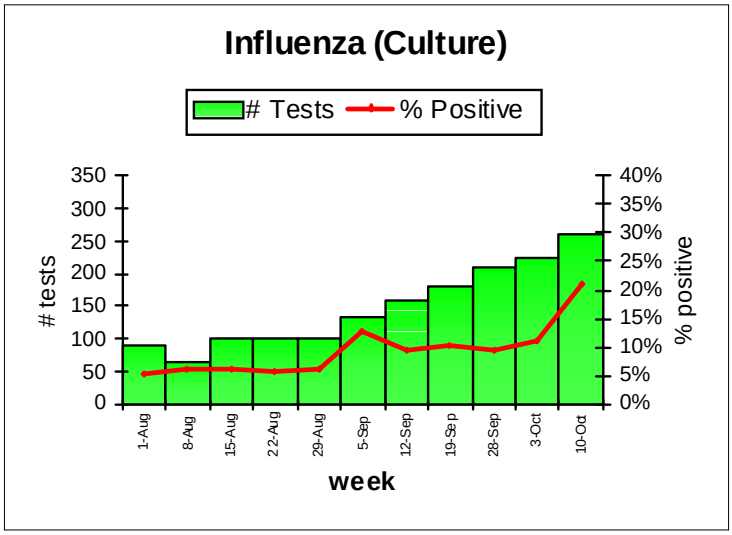
8. **Pneumonia and influenza mortality (P&I), United States,**

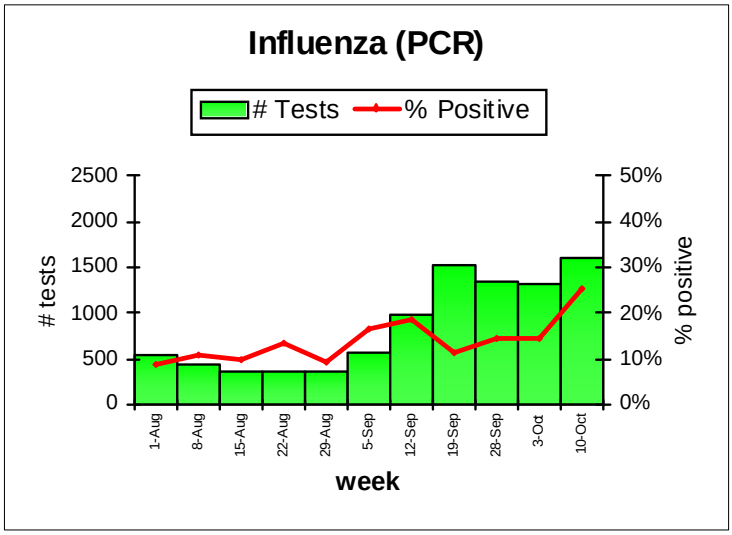
	Current Week 09-39	Previous Week 09-38
P&I %	6.5%	6.1%
National P&I threshold %	6.5%	6.4%

WISCONSIN LABORATORY SURVEILLANCE
For Influenza and other Respiratory Viruses (week 09-40)

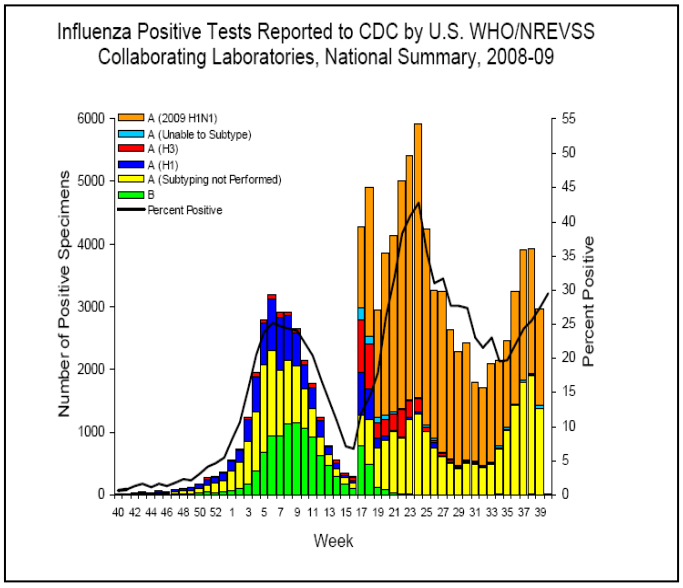
VIRUS CULTURE Based on 262 tests		RAPID TESTS			SELECT PCR TESTS	
Virus	% Positive	Virus	# Tests	% Positive	Virus	Positive/ total number
Total % Positive	22.9%					
Influenza (Tot.)	21.0%	Influenza (Tot)	2338	14.2%	Influenza A & B	172/1113
Influenza A	21.0%				Influenza A	231/493
Influenza B	0.0%	Influenza A		13.9%	# A/H1	0
					2009 A/H1	244
hMPV	0.0%	Influenza B		0.1%	# A/H3	0
					# A/not subtyped	156
		Influenza Unk.*		0.2%	# B	3
RSV	0.0%	RSV	109	1.8%	RSV	0/178
Adenovirus	0.0%	Adenovirus	34	0.0%	Adenovirus	0/50
Parainfluenza	1.5%				Parainfluenza	19/169
Rhinovirus	0.4%	*Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Rhinovirus	12/41
Enterovirus	0.0%				Enterovirus	4/12

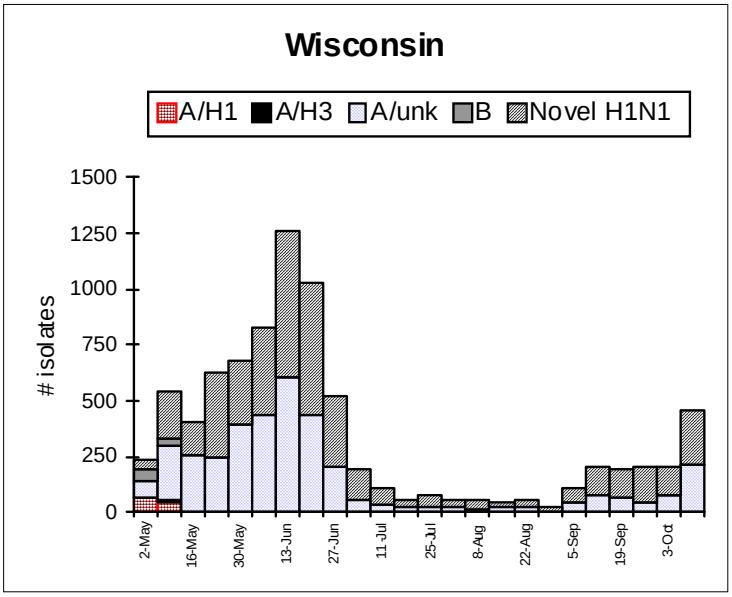
WISCONSIN. 10-WEEK TREND. INFLUENZA PCR AND CULTURE POSITIVE TESTS





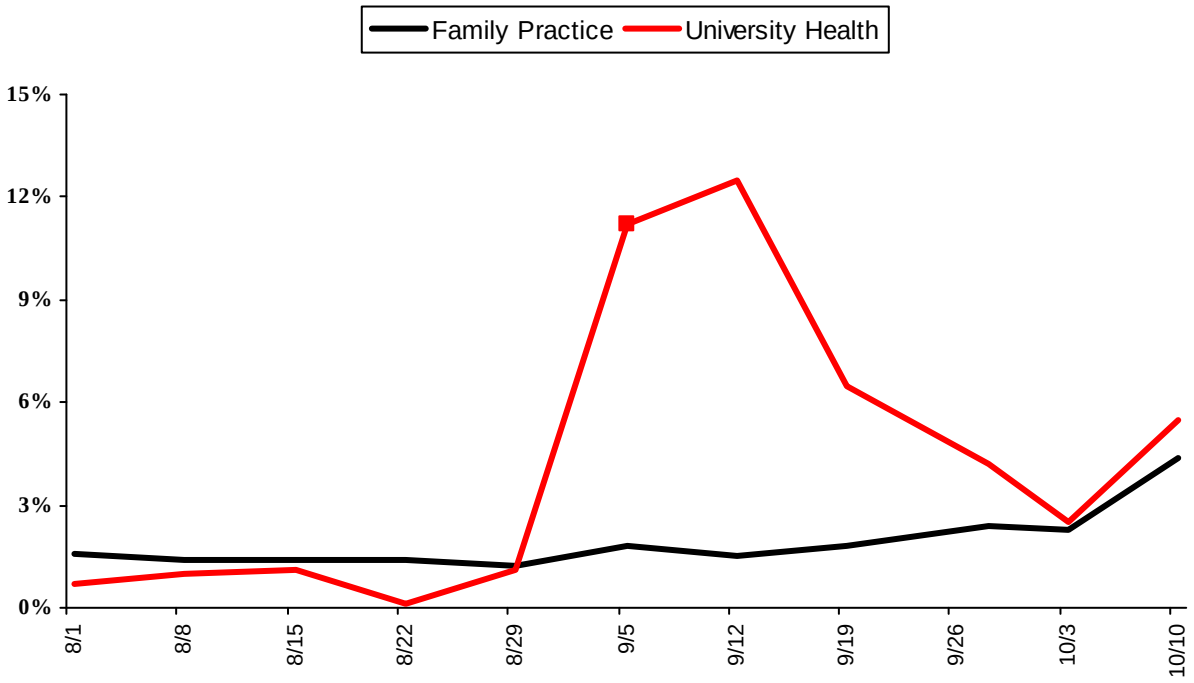
WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) April 2009-Present



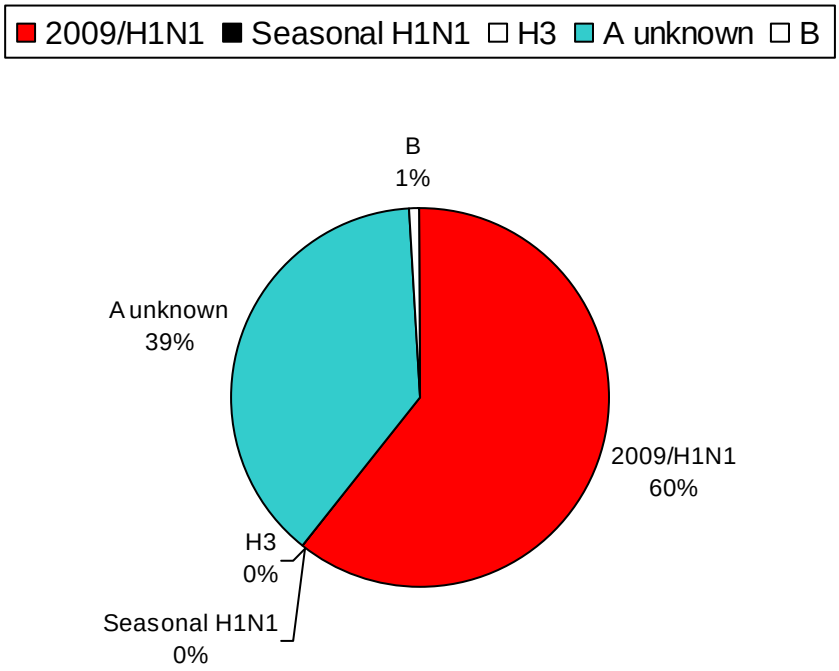


ILI Activity Statewide

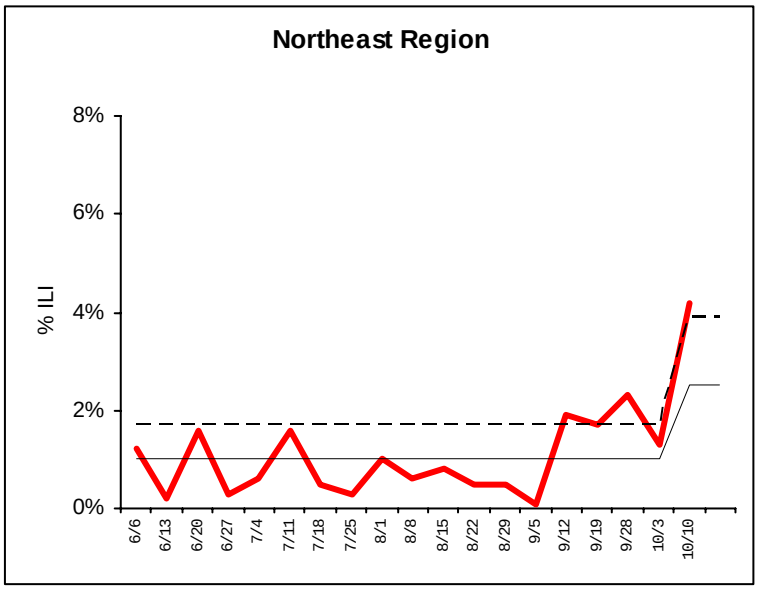
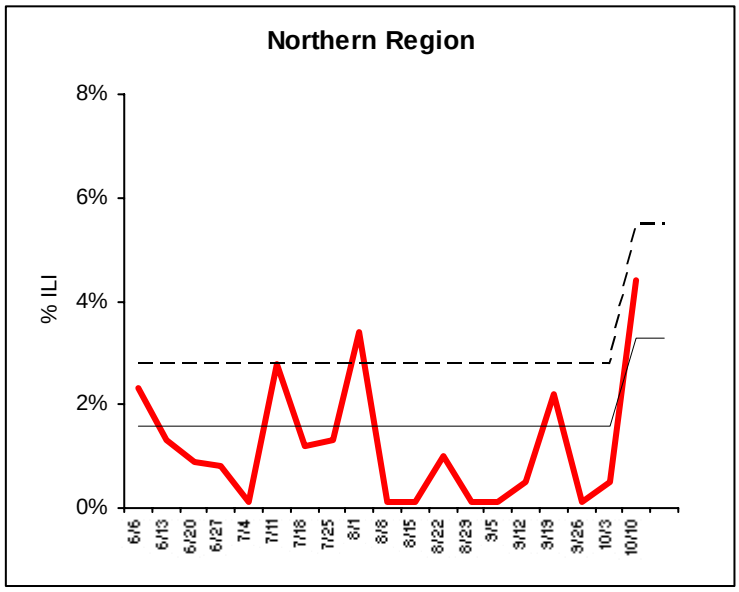
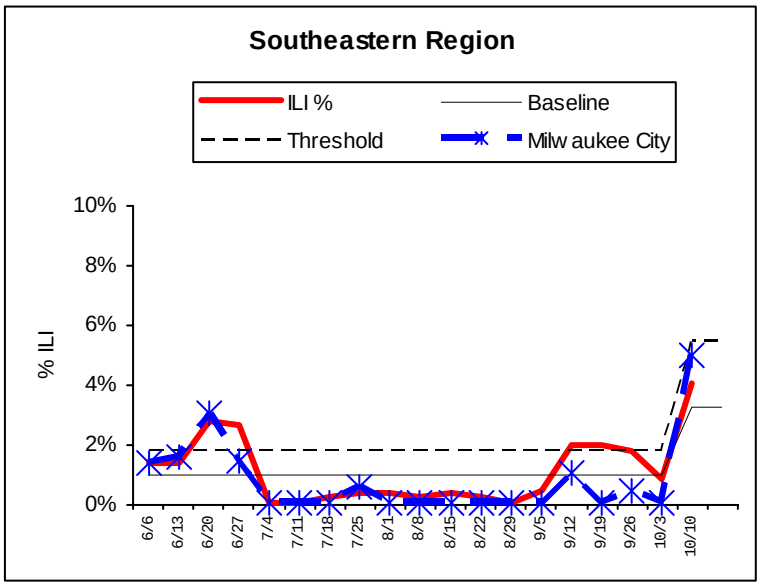
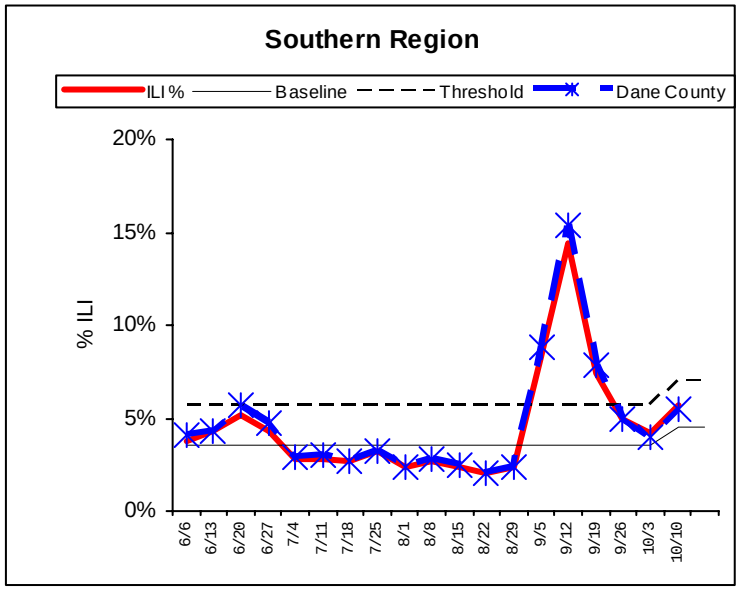
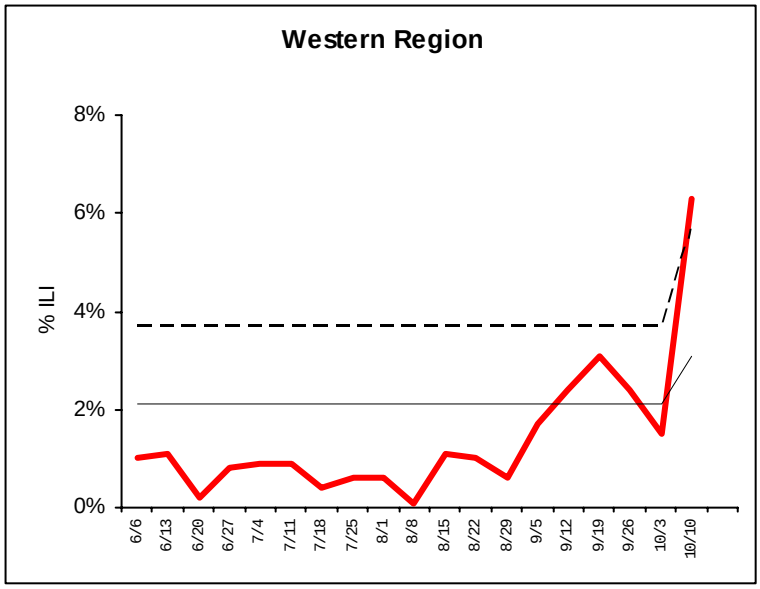
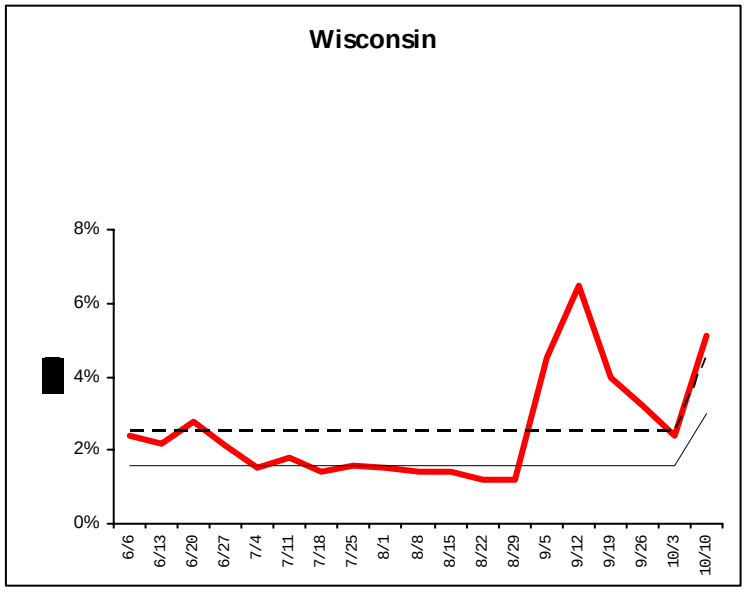
Family Practice Clinicians and University Student Health Clinicians
August 2009 to present



Influenza Strains Wisconsin Week 40



INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % — Baseline % — Threshold %