

DEPARTMENT OF HEALTH SERVICES DIVISION OF PUBLIC HEALTH



Weekly Surveillance Report For the Week Ending November 14, 2009 (week 09-45)

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 09-45	Previous Week 09-44	
Wisconsin	Moderate	High	
Northeastern Region	Low	High	
Northern Region	Moderate	High	
Southeastern Region	High	High	
Southern Region	Low	High	
Western Region	Moderate	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 09-45	Baseline
United States	5.5%	2.3%
Wisconsin	4.0%	3.1%
Region V (WI, MN, IL, MI, OH)	6.4%	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)

			AD	AMANT	ANE RESIS	TANCE				
					nfluenza Su	btype				
		Seaso	nal A/H1	2009 A/H1N1 A/F			A/H:	3		
Season/	Lab	Tested	sted Resistant Tested Resistant Tested		ested	Resistant				
09-10	WSLH									
09-10	CDC	İ		182	99.59	6	1	100%		
			OSI	ELTAMIN	IR RESIST	ANCE				
	Influenza Subtype									
		Seaso	nal A/H1	2009 A/H1N1 A/H3			/H3	В		
Season/Lab		Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant	
09-10	WSLH			40	0%					
09-10	CDC			1209	0.8%					
			ZA	NAMIVI	R RESISTA	NCE				
					Influe	nza Subty	pe			
	Seasonal A/H1 2009 A/H1N1			A/H3		В				
Season/	Lab	Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant	
09-10	CDC			353	0%					

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

	Current Week 09-45	2009-10 Season Total	Due to 2009 H1N1
United States	21	138	113
Wisconsin	0	3	3

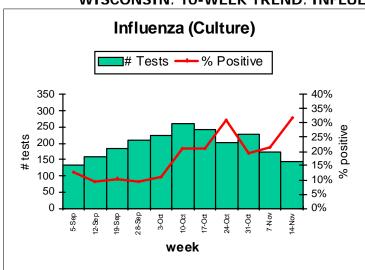
8. Pneumonia and influenza mortality (P&I), United States,

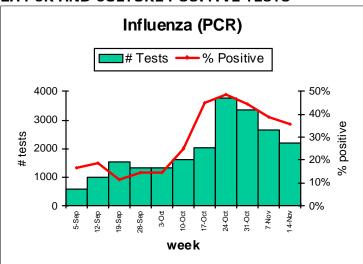
	Current Week 09-45	Previous Week 09-43
P&I %	7.5%	7.7%
National P&I threshold %	6.9%	6.8%

WISCONSIN LABORATORY SURVEILLANCE For Influenza and other Respiratory Viruses (week 09-45)

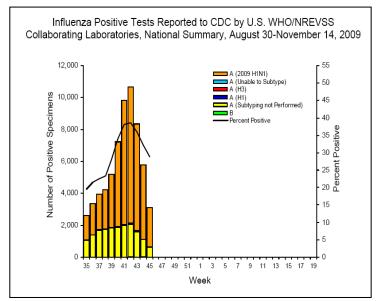
VIRUS CUL Based on 14		RAPIC	TESTS		SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	33.8%					
Influenza (Tot.) 31.7% Influenza A 31.7% Influenza B 0.0% hMPV 0.0%		Influenza (Tot)	1343	14.1%	Influenza A & B Influenza A	656/1754 138/413
	Influenza A		12.9%	# A/H1 2009 A/H1	0 467	
	0.0%	Influenza B		0.1%	# A/H3 # A/not subtyped	0 326
		Influenza Unk.*		1.1%	# B	1
RSV	0.0%	RSV	110	0.0%	RSV	5/354
Adenovirus	0.0%	Adenovirus	0	0.0%	Adenovirus	0/59
Parainfluenza	0.7%				Parainfluenza	8/300
					Corona OC 43	2/43
Rhinovirus 1.4%		*Influenza unknown (Unk) are positive			Rhinovirus	5/43
		influenza test results that cannot be distinguished between Type A and B			hMPV	0/43
Enterovirus	0.0%				Enterovirus	2/6

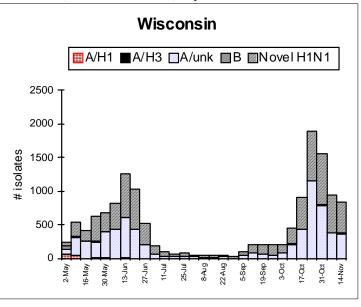
WISCONSIN, 10-WEEK TREND, INFLUENZA PCR AND CULTURE POSITIVE TESTS



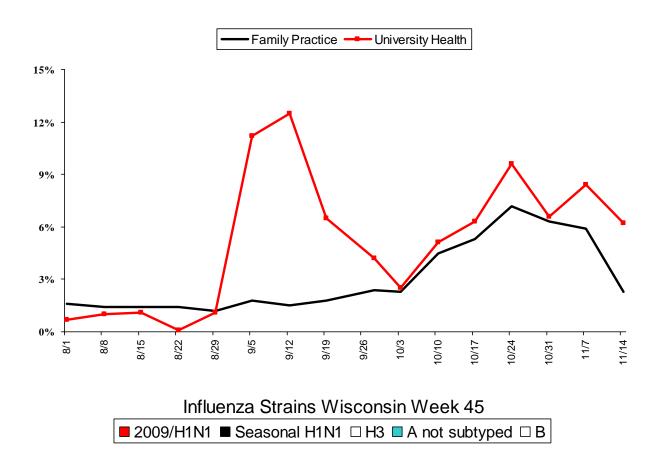


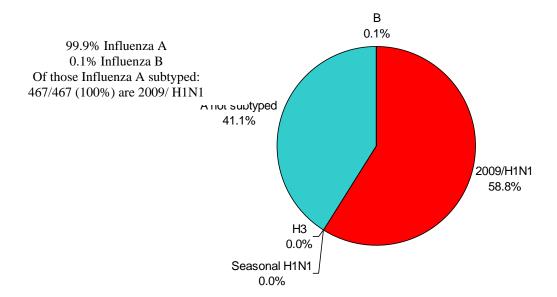
WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) April 2009-Present





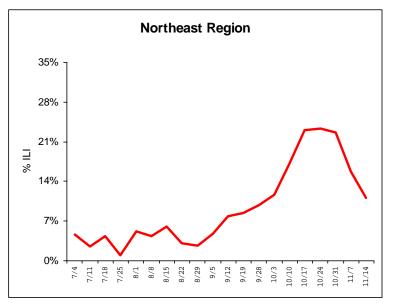
ILI Activity Statewide Family Practice Clinicians and University Student Health Clinicians August 2009 to present

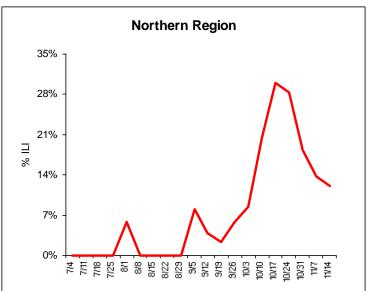


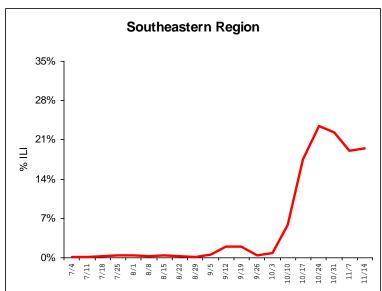


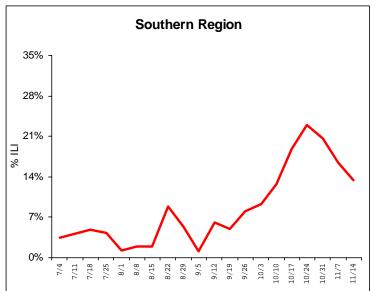
RAPID TEST SITE DATA (CHART) BY REGION

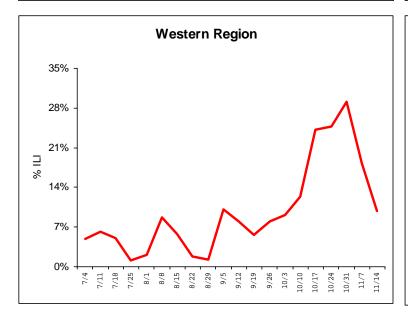
Percent Positive Rapid Tests for Influenza and RSV (RSV will appear later in the year)

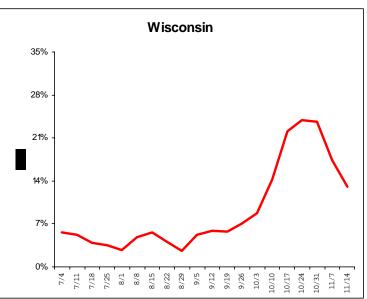












INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % ——— Baseline % ——— Threshold %

