

DEPARTMENT OF HEALTH SERVICES DIVISION OF PUBLIC HEALTH



Weekly Surveillance Report For the Week Ending November 28, 2009 (week 09-47)

AT A GLANCE

1. Predominant respiratory viruses in Wisconsin: 2009 A/H1N1, and (sporadic cases) of Parainfluenza, Rhinovirus and RSV

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

	Current Week 09-47	Previous Week 09-46
Wisconsin	Low	Moderate
Northeastern Region	Low	Low
Northern Region	Low	Low
Southeastern Region	Low	High
Southern Region	Low	Low
Western Region	Low	Moderate

*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 09-47	Baseline
United States	3.7%	2.3%
Wisconsin	1.9%	3.1%
Region V (WI, MN, IL, MI, OH)	2.8%	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)

			AD	AMANT	ANE RESIS	TANCE				
					nfluenza Su	btype				
		Seasonal A/H1		20	2009 A/H1N1		A/H3			
Season/La	ıb .	Tested	Resistant	Teste	d Resista	ınt T	ested	Resistant		
09-10	WSLH									
09-10	CDC	<u> </u>		207	99.59	6	2	100%		
			OSE	ELTAMIN	IR RESIST	ANCE				
					Influe	nza Subty	ре			
		Seasonal A/H1 20		2009	2009 A/H1N1		A/H3		В	
Season/La	ıb	Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant	
09-10	WSLH			140	0%					
09-10	CDC	2	0%	1540	0.6%	5	0%	1	0%	
			ZA	NAMIVI	R RESISTA	NCE				
	Influenza Subtype									
Seasonal A/H1 200			2009	2009 A/H1N1 A/H3		/H3		В		
Season/La	ıb	Tested	Resistant	Tested Resistant		Tested	Resistant	Tested	Resistant	
09-10	CDC			451	0%					

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

	Current Week 09-47	2009-10 Season Total	Due to 2009 H1N1
United States	17	189	152
Wisconsin	0	3	3

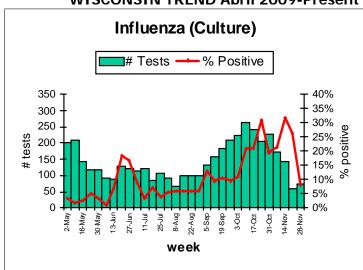
8. Pneumonia and influenza mortality (P&I), United States,

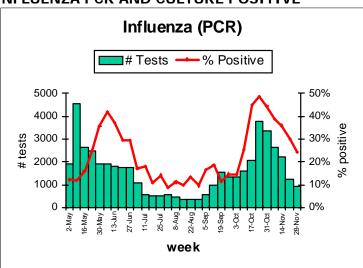
	Current Week 09-47	Previous Week 09-46
P&I %	7.2%	8.1%
National P&I threshold %	7.1%	7.0%

WISCONSIN LABORATORY SURVEILLANCE For Influenza and other Respiratory Viruses (week 09-47)

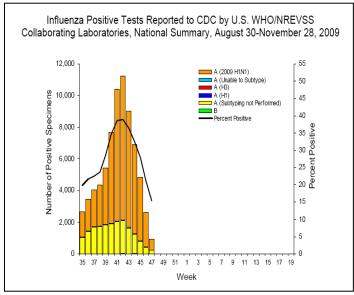
VIRUS CULTURE Based on 73 tests		RAPIC) TESTS		SELECT PCR TESTS		
Test Type	% Positive	Virus # % Tests Positive		Test Type	Positive/ total number		
Total % Positive	9.6%						
Influenza (Tot.) 8.2% Influenza A 8.2%		Influenza (Tot)	639	6.7%	Influenza A & B Influenza A	181/701 39/200	
Influenza B 0.0%	Influenza A		6.1%	# A/H1 2009 A/H1	0 161		
hMPV 0.0%		Influenza B		0.3%	# A/H3 # A/not subtyped	1 57	
		Influenza Unk.*		0.3%	# B	1	
RSV	0.0%	RSV	97	7.2%	RSV	2/120	
Adenovirus	0.0%	Adenovirus	32	0.0%	Adenovirus	0/17	
Parainfluenza 1.4%					Parainfluenza	3/86	
					Corona OC 43	0/47	
Rhinovirus	Rhinovirus 0.0% *Influenza unknown (Unk) are positive				Rhinovirus	3/17	
		influenza test res			hMPV	0/17	
Enterovirus	0.0%	distinguished between Type A and B			Enterovirus	0/0	

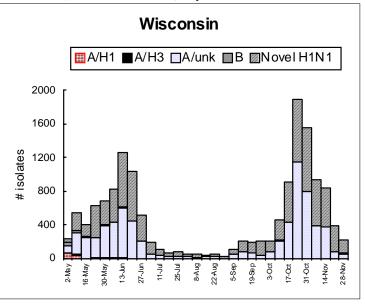
WISCONSIN TREND April 2009-Present . INFLUENZA PCR AND CULTURE POSITIVE





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





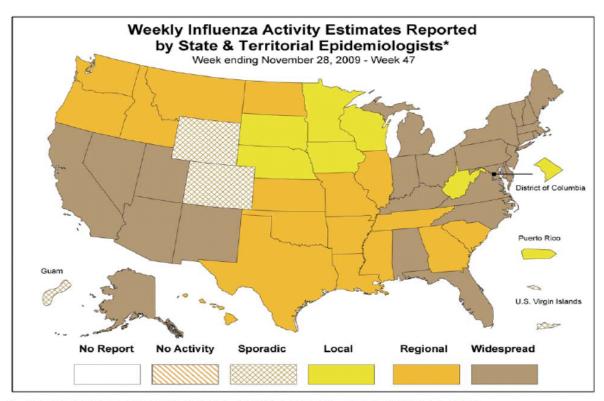
NATIONAL SUMMARY (Wisconsin is in Region 5)

National and Regional Summary of Select Surveillance Components

	Dat	a for curre	Data cumulative since August 30, 2009 (Week 35)*							
HHS Surveillance Regions**	Out- patient ILI†	% positive for flu‡	Number of jurisdictions reporting regional or widespread activity§	A (H1)	A (H3)	2009 A (H1N1)	A (unable to sub- type)¥	A (Subty- ping not perfor- med)	В	Pediatric Deaths
Nation	Elevated	15.4%	42 of 54	24	42	55,179	407	17,903	176	189
Region 1	Elevated	31.9%	6 of 6	5	2	2,702	11	437	10	4
Region 2	Elevated	23.7%	2 of 4	1	5	956	0	910	5	6
Region 3	Elevated	37.9%	4 of 6	3	6	9,838	39	1,376	14	11
Region 4	Elevated	16.4%	8 of 8	0	4	6,016	87	3,870	44	38
Region 5	Elevated	29.1%	4 of 6	6	16	8,414	42	1,242	12	24
Region 6	Normal	8.3%	5 of 5	0	3	2,653	19	4,362	28	60
Region 7	Elevated	13.6%	2 of 4	4	1	3,196	152	922	3	3
Region 8	Elevated	17.6%	3 of 6	3	1	9,374	0	3,600	50	12
Region 9	Elevated	24.4%	4 of 5	0	3	7,642	44	1,002	6	22
Region 10	Normal	40.7%	4 of 4	2	1	4,388	13	182	4	9

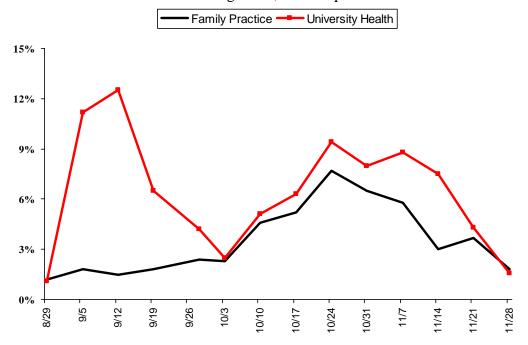
*Influenza season officially begins each year at week 40. This season data from week 35 will be included to show the trend of influenza activity before the official start of the 2009-10 influenza season.

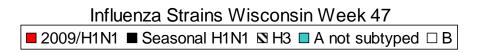
**HHS regions (Region 1 CT, ME, MA, NH, RI, VT; Region 2: NJ, NY, Puerto Rico, US Virgin Islands; Region 3: DE, DC, MD, PA, VA, WV; Region 4: AL, FL, GA, KY, MS, NC, SC, TN; Region 5: IL, IN, MI, MN, OH, WI; Region 6: AR, LA, NM, OK, TX; Region 7: IA, KS, MO, NE; Region 8: CO, MT, ND, SD, UT, WY; Region 9: AZ, CA, Guam, HI, NV; and Region 10: AK, ID, OR, WA).

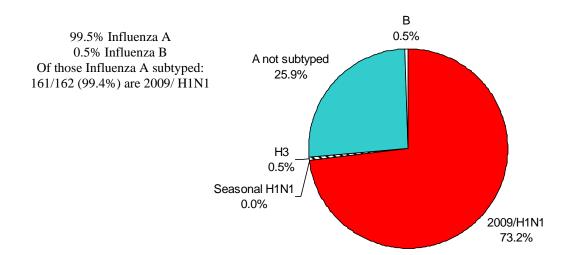


This map indicates geographic spread & does not measure the severity of influenza activity

ILI Activity Statewide Family Practice Clinicians and University Student Health Clinicians August 29, 2009 to present

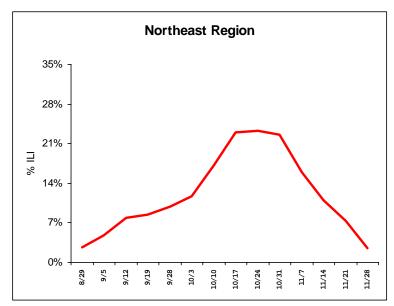


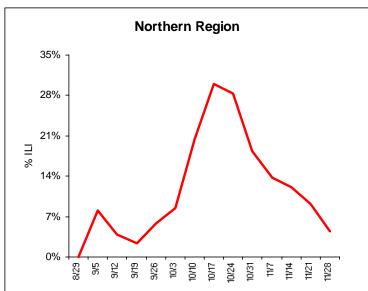


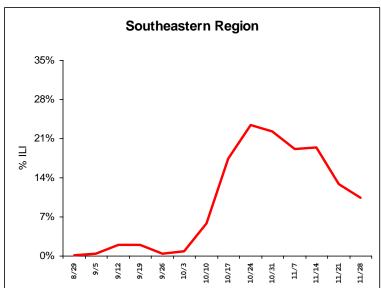


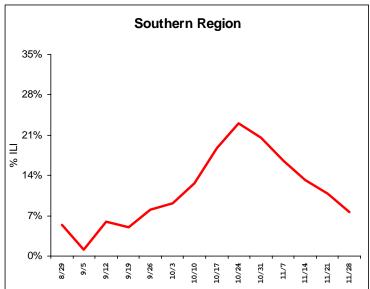
RAPID TEST SITE DATA (CHART) BY REGION

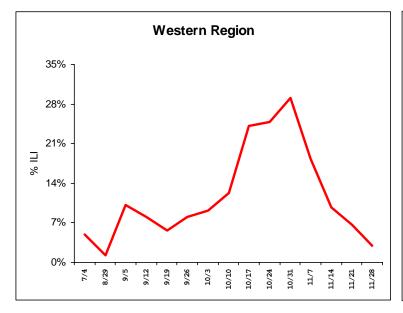
Percent Positive Rapid Tests for Influenza and RSV (RSV will appear later in the year)

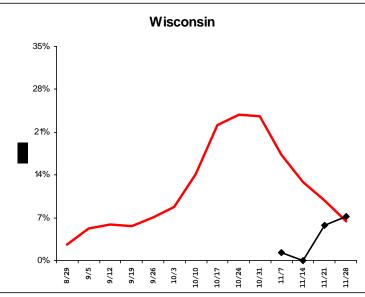












INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % ——— Baseline % ——— Threshold %

