



Iowa Influenza Surveillance Network (IISN)

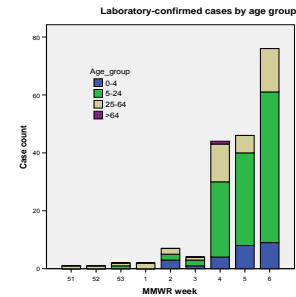
Influenza and Other Respiratory Virus Weekly Activity Report

For the week ending February 14, 2009 Week 6



Influenza Quick Stats:

Iowa activity level: **Widespread**¹
 Lab-confirmed cases: 66
 Sentinel % ILI²: 1.39% (threshold 2.1%)
 Hospitalizations: 1
 School % absence: 3.11% (threshold 3.06%)
 School days ≥10% absence: 5



lowa activity summary: This week UHL confirmed 47 cases of Influenza A (H1), 5 cases of Influenza A (H3), and 14 cases of Influenza B.

National activity summary: Widespread influenza activity was reported by 16 states. Regional influenza activity was reported by 16 states. Local influenza activity was reported by the District of Columbia and 14 states. Sporadic activity was reported by Puerto Rico and four states.

National virologic surveillance: The results of tests performed during the current week and cumulative totals for the season are 82.6% Influenza A and 17.4% Influenza B. Since week 1 (the week ending January 10, 2009), when influenza activity began to increase nationally, influenza A (H1) viruses have predominated circulation nationally each week and for the season overall in all regions. Since week 1, 88% of subtyped influenza A viruses reported to CDC were influenza A (H1).

Oseltamivir resistance: Of specimens sent to CDC from states, approximately 98% of all specimens for influenza AH1 have been reported as resistant to oseltamivir (Tamiflu®). No resistance has been seen in influenza AH3 or B strains so far this flu season. Influenza AH1 is the most commonly reported strain in Iowa cases, and testing for resistance at CDC is pending. Therefore, we ask Iowa health care providers to examine the CDC guidelines for use of antiviral medication at <http://www2a.cdc.gov/HAN/ArchiveSys/ViewMsgV.asp?AlertNum=00279>.

Influenza and Other Respiratory Viral Laboratory Data:

Laboratory-confirmed cases are primarily reported by the University Hygienic Laboratory (UHL). UHL also determines the type and strain (AH1, AH3). Influenza is not a required reportable disease. Laboratory data is used to confirm the presence of influenza and the types and strains circulating, not determine the exact number of cases in Iowa.

Region	RAPID INFLUENZA +					RSV*		
	Tested	Flu A	Flu B	Both	% Positive	Tested	Positive	% Positive
Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster	216	16	0	0	7.4%	145	42	29.0%
Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright	33	8	2	0	30.3%	27	9	33.3%
Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury	85	3	0	0	3.5%	140	49	35.0%
Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union	2	0	0	0	0.0%	4	0	0.0%
Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne	70	1	0	0	1.4%	96	42	43.8%
Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott	507	25	19	18	12.2%	160	67	41.9%
TOTAL	913	53	21	18	10.1%	572	209	36.5%

*The CDC epidemic threshold for RSV is ~10% of all test results reported as positive.

**Additional RSV trends may be viewed at <http://www.cdc.gov/surveillance/nrevss/rsv/state.html>.

¹ **No Activity:** No laboratory-confirmed cases of influenza and no reported increase in the number of cases of influenza-like illness (ILI).
Sporadic: Small numbers of laboratory-confirmed influenza cases or a single influenza outbreak has been reported, but there is no increase in cases of ILI.
Local: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.
Regional: Outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state.
Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state.

² Influenza-like illness is defined as fever ≥100°F and cough and/or sore throat.

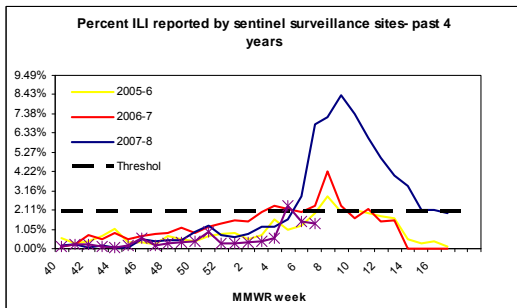
* Laboratory-confirmed cases do not include rapid influenza positives. **Count does not reflect ACTUAL number of flu cases in IA.**

Laboratory-confirmed cases (excludes rapid test positives; only weeks with cases are included in the table)

MMWR_wk	Test Method				Total
	AH1	AH3	A, unsubtype	B	
51	0	0	1	0	1
52	0	1	0	0	1
53	2	0	0	0	2
1	1	1	0	0	2
2	5	2	0	0	7
3	3	1	0	0	4
4	35	3	1	5	44
5	36	2	2	6	46
6	33	2	30	11	76
Total	126	12	34	24	196

Outpatient Health Care Provider Influenza Surveillance (Sentinel Surveillance):

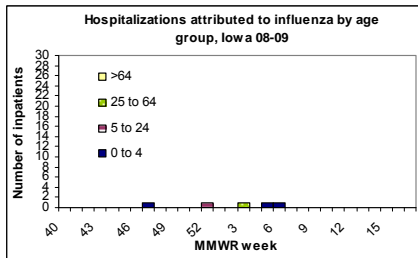
There are 18 sentinel surveillance sites throughout Iowa surveying patient populations for influenza-like illness (ILI).



# sites reporting	10
Age 0-4	9
Age 5-24	29
Age 25-64	10
Age over 64	0
Total ILI	48
Total patients	3448
% ILI	1.39%

Hospital and Long-term Care Facility Influenza Surveillance:

There are 29 hospitals participating in influenza surveillance. Hospitals track the total number of patients hospitalized weekly with influenza and/or pneumonia who also have a positive influenza laboratory result. The total number of patients surveyed this week was 6,717.



There were no cases of influenza reported in long-term care facilities. There was one long-term care facility that has reported ILI in three out of 40 residents and one staff member.

School Illness Surveillance:

There are approximately 50 school sites reporting into the IISN. All sites track the average number of students enrolled and the number absent due to illness weekly. Three schools have reported school absence of >10%.

Number of sites reporting	25
Total students surveyed	12,571
Total absences due to illness	1,964
Average percent absence due to illness	3.11%
Median percent absence due to illness	3.19%
2007-2008 percent absence due to illness same week	3.85%

