



Iowa Influenza Surveillance Network (IISN)

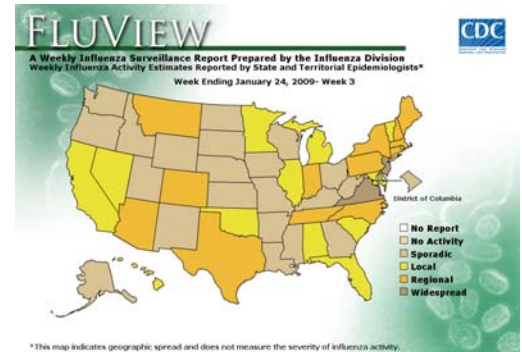
Influenza and Other Respiratory Virus Weekly Activity Report

For the week ending January 31, 2009 Week 4

Influenza Quick Stats:

Iowa activity level: **Regional¹**
Lab-confirmed cases: 22
Sentinel % ILI²: 2.37% (threshold 2.1%)
Hospitalizations: 0
School % absence: 2.78% (threshold 3.06%)
School days ≥10% absence: 0

Iowa activity summary: UHL confirmed 17 influenza A/H1 specimens, 2 A/H3 specimens, and 3 B specimens this week. Activity in regions six and one are highest proportional to population density. RSV activity is extremely high this week with a concentration of cases in region six.



National activity summary: Widespread influenza activity was reported by two states. Regional influenza activity was reported by 14 states. Local influenza activity was reported by 12 states. Sporadic activity was reported in the District of Columbia, Puerto Rico, and 22 states.

National virologic surveillance: Cumulatively for the season the U.S CDC has determined that of all specimens positive for influenza, 25% are influenza AH1, 4% are influenza AH3, 55% were influenza a subtype unknown, and 16% were influenza B.

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	133	7	0	0	5.3%	22	7	31.8%
Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright	10	1	0	0	10.0%	6	2	33.3%
Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury	73	5	0	0	6.8%	31	11	35.5%
Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union	8	0	0	0	0.0%	10	5	50.0%
Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne	49	2	1	0	6.1%	48	17	35.4%
Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott	262	11	2	3	6.1%	224	91	40.6%
TOTAL	535	26	3	3	6.0%	341	133	39.0%

*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.

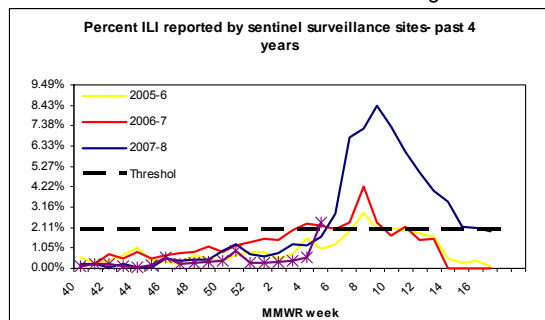
* Laboratory-confirmed cases do not include rapid influenza positives. **Count does not reflect ACTUAL number of flu cases in IA.**

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

Reporting Week	Influenza Strain		
	AH1	AH3	B
50	1	0	0
51	0	0	0
52	1	0	0
53	2	2	0
1	3	0	0
2	3	2	0
3	7	1	0
4	13	2	3
Total	30	7	3

Outpatient Health Care Provider Influenza Surveillance (Sentinel Surveillance):

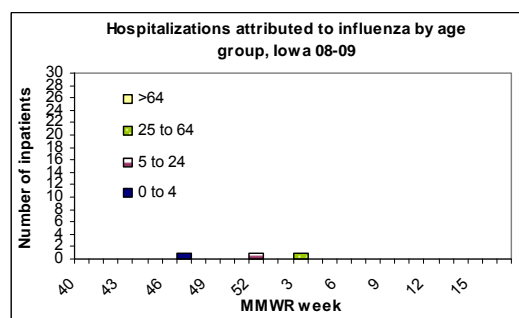
There are 18 sentinel surveillance sites throughout Iowa surveying patient populations for influenza-like illness (ILI).



# sites reporting	7
Age 0-4	14
Age 5-24	13
Age 25-64	2
Age over 64	1
Total ILI	30
Total patients	1265
% ILI	2.37%

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 6,840.



There were no cases of influenza reported in long-term care facilities.

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.

Number of sites reporting	28
Total students surveyed	16,399
Total absences due to illness	2,372
Average percent absence due to illness	2.78%
Median percent absence due to illness	2.75%
2007-2008 percent absence due to illness same week	4.46%

