



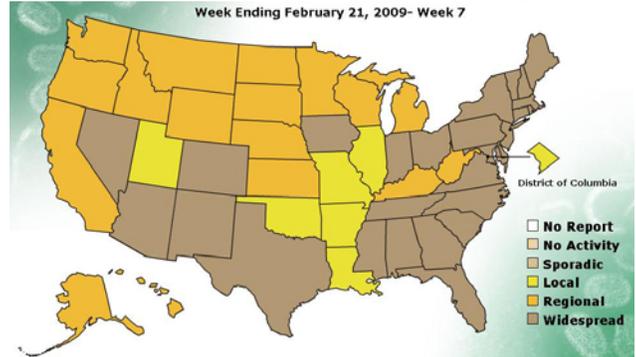
Iowa Infection Surveillance Network (IISN)

Influenza and Other Respiratory Virus Weekly Activity Report

For the week ending March 1, 2009 Week 8

Influenza Quick Stats:

Iowa activity level: **Widespread¹**
 Lab-confirmed cases: 85
 Sentinel % ILI²: 1.68% (threshold 2.1%)
 Hospitalizations: 4
 School % absence: 3.56% (threshold 3.06%)
 School days ≥10% absence: 5



Iowa activity summary:

Iowa is still experiencing widespread influenza activity. The dominant strain is influenza A/H1N1, which is covered by this year's influenza vaccine. A growing proportion of cases have influenza B infection and B infections often peak later in the flu season. Cases are being reported in all age groups though most are in people ages 0-18.

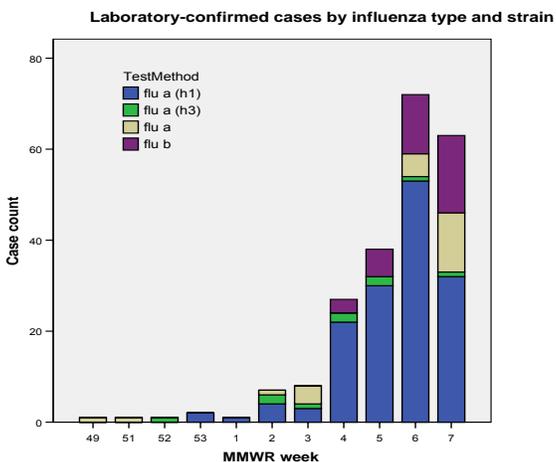
Overall, hospitalizations are significantly lower than last year. All but three hospitalizations have occurred in children aged 18 years or younger.

National activity summary: Widespread influenza activity was reported by 27 states. Regional influenza activity was reported by 17 states. Local influenza activity was reported by the District of Columbia and six states. Sporadic activity was reported by Puerto Rico.

National virologic surveillance: The results of tests performed during the current week and cumulative totals for the season are Influenza A 78.1% and Influenza B 21.9%. Since week 1 (the week ending January 10, 2009), when influenza activity began to increase nationally, influenza A (H1N1) viruses have predominated circulation nationally each week and for the season overall in all regions. Since week 1, 90% of subtyped influenza A viruses reported to CDC were influenza A (H1N1).

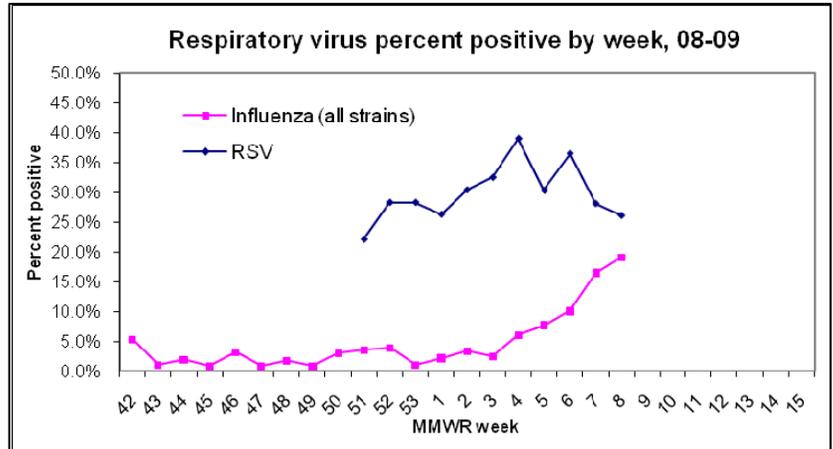
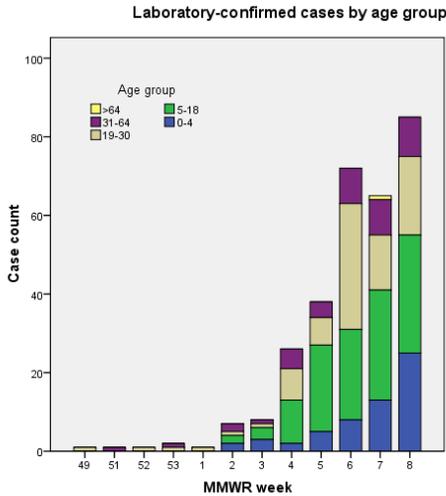
Oseltamivir resistance: Influenza A (H1N1) viruses from 35 states have been tested for antiviral resistance to oseltamivir so far this season. To date, all influenza A (H3N2) viruses tested are resistant to the adamantanes and all oseltamivir-resistant influenza A (H1N1) viruses tested are sensitive to the adamantanes. Influenza activity in the United States increased this week with influenza A (H1N1) viruses predominating overall. However, the level of activity and the relative proportion of circulating virus types or subtypes have varied by region and may vary over the course of the season. CDC issued interim recommendations for the use of influenza antiviral medications in the setting of oseltamivir resistance among circulating influenza A (H1N1) viruses on December 19, 2008. These interim recommendations are available at <http://www2a.cdc.gov/HAN/ArchiveSys/ViewMsgV.asp?AlertNum=00279>.

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



MMWR wk	flu a (h1)	flu a (h3)	flu a	flu b	Total
49	0	0	1	0	1
51	0	0	1	0	1
52	0	1	0	0	1
53	2	0	0	0	2
1	1	0	0	0	1
2	4	2	1	0	7
3	3	1	4	0	8
4	22	2	0	3	27
5	30	2	0	6	38
6	53	1	5	13	72
7	41	1	6	17	65
8	42	0	27	16	85
Total	198	10	45	55	308

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.



Influenza and Other Respiratory Viral Laboratory Data:

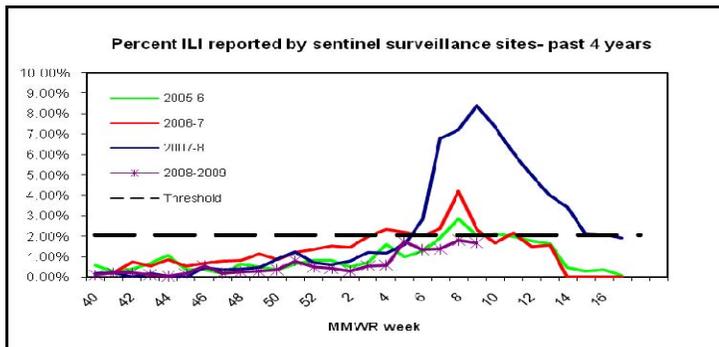
Laboratory-confirmed cases are primarily reported by the University Hygienic Laboratory (UHL) only. UHL also determines the type and strain (AH1, AH3). Influenza is not a required reportable disease. Laboratory data is used to confirm the presence of influenza and the types and strains circulating, not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

Region	INFLUENZA				% Positive	RSV*		
	Tested	Flu A	Flu B	Both		Tested	Positive	% Positive
Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster	288	35	6	0	14.2%	124	26	21.0%
Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright	63	6	4	0	15.9%	36	9	25.0%
Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury	86	4	1	0	5.8%	79	23	29.1%
Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union	4	0	0	0	0.0%	1	0	0.0%
Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne	55	1	1	0	3.6%	85	27	31.8%
Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott	1316	187	101	0	21.9%	297	77	25.9%
TOTAL	1812	174	113	3	16.0%	622	162	26.0%

*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>.

Outpatient Health Care Provider Influenza Surveillance (Sentinel Surveillance):

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

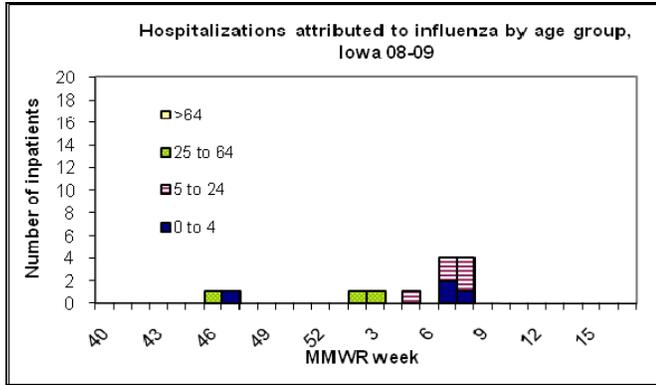


# sites reporting	8
Age 0-4	10
Age 5-24	25
Age 25-64	15
Age over 64	6
Total ILI	56
Total patients	3325
% ILI	1.68%

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 4,132.

Two patients this week were two years of age, a third was eight, and the age of the fourth case is unknown. Three cases were confirmed by rapid influenza assay to have influenza A. Hospitalizations were reported from several regions of the state.



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. There were four school reporting absence of >10%.

Number of sites reporting	28
Total students surveyed	15,547
Total absences due to illness	2,635
Average percent absence due to illness	3.4%
Median percent absence due to illness	3.4%
2007-2008 percent absence due to illness same week	3.94%

