



# Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses Weekly Activity Report

For the week ending December 24, 2011, Week 51

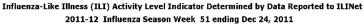


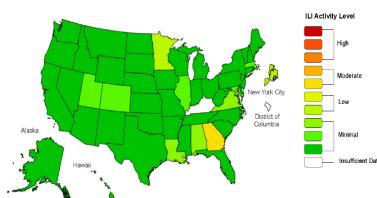
# Quick Stats for this reporting week

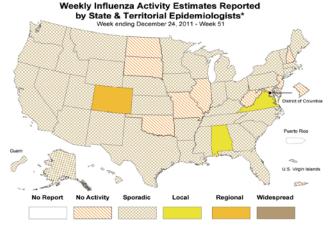
lowa activity level <sup>1</sup>	Sporadic			
Percent of outpatient visits for ILI <sup>2</sup>	0.6% (baseline 2.3%)			
Percent of influenza rapid test positive	NA			
Percent of RSV rapid tests positive	NA			
Percent school absence due to illness	2.3%			
Number of schools with ≥10% absence due to illness	0			
Influenza-associated hospitalizations*	2/4563 inpatients surveyed			
Influenza-associated pediatric mortality**	0			
Influenza-associated pediatric mortality	0			

<sup>\*</sup> Hospitalizations due to influenza are voluntarily reported through a weekly survey of lowa sentinel hospitals.

<sup>\*\*</sup>CDC asks states to report any pediatric death (<18 years old) associated with influenza NA: Not available due to holidays







\*This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state.

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

#### Iowa statewide activity summary

Influenza activity remains sporadic in Iowa. There were six new laboratory confirmed cases of seasonal influenza A (H3) identified in this reporting week. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.6 percent, which is well below the regional baseline of 2.3 percent. There were two influenza-associated hospitalizations reported from sentinel hospitals for this reporting period. There were also two cases of adenovirus detected in this reporting week. For the season, other respiratory viruses identified include rhinovirus, adenovirus, parainfluenza 1-2, RSV, and human metapneumovirus (hMPV).

### National activity summary - www.cdc.gov

Synopsis: During week 51 (December 18-24, 2011), influenza activity remained low in the United States.

• U.S. Virologic Surveillance: Of the 2,652 specimens tested by U.S. World Health Organization and National Respiratory and Enteric Virus Surveillance System collaborating laboratories and reported to CDC/Influenza Division, 97 (3.7 percent) were positive for influenza.

<sup>1 \*</sup>No Activity: No laboratory-confirmed cases of influenza and no reported increase in the number of cases of influenza-like illness (ILI²).
Sporadic: Small numbers of laboratory-confirmed influenza cases or a single influenza outbreak has been reported, but there is no increase in cases of ILI².
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.

<sup>&</sup>lt;sup>2</sup> ILI: Influenza-like Illness is defined as a fever of ≥100° F as well as cough and/or sore throat.

- **Pneumonia and Influenza (P&I) Mortality Surveillance**: The proportion of deaths attributed to P&I was below the epidemic threshold.
- Influenza-associated Pediatric Mortality: No influenza-associated pediatric deaths were reported.
- Outpatient Illness Surveillance: The proportion of outpatient visits for influenza-like illness (ILI) was 1.5 percent, which is below the national baseline of 2.4 percent. All 10 regions reported ILI below region-specific baseline levels. One state experienced moderate ILI activity, New York City and one state experienced low ILI activity, 47 states experienced minimal ILI activity, and the District of Columbia and one state had insufficient data.
- **Geographic Spread of Influenza**: The geographic spread of influenza in one state was reported as regional; two states reported local activity; Guam and 37 states reported sporadic activity; the District of Columbia, the U.S. Virgin Islands and 10 states reported no influenza activity, and Puerto Rico did not report.

# International activity summary - www.who.int

Influenza activity in the temperate regions of the northern hemisphere remains at low levels, with sporadic activity reported in Canada, the United States of America, and some European countries. Countries in the tropical zone mostly reported low influenza activity except Costa Rica, primarily influenza A (H3N2), and Cameroon, which is experiencing transmission of A (H3N2) following on recent peaks of A (H1N2) pdm09 and type B. Influenza activity in the temperate countries of the southern hemisphere is at inter-seasonal levels.

#### Laboratory surveillance program - Influenza and Other Respiratory Viruses

The State Hygienic Laboratory (SHL) is the primary lab testing and reporting influenza tests in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL and the Dunes Medical Laboratories at Mercy Medical Center-Sioux City.

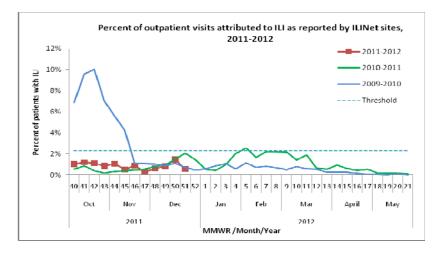
Specimens tested by the State Hygienic Laboratory

Table 1. Influenza viruses iso	Table 2. Influenza viruses by age group 10/2/11 to present week						
week	Current week	Cumulative	Age group	Flu A (2009 H1N1)	Flu A (H3)	Novel A (H3N2)	Flu B
Flu A	6 (26%)	20 (6%)	0-4	0 (0%)	7 (41%)	* (*%)	0 (0%)
Flu A (2009 H1N1)	0 (0%)	0 (0%)	5-17	0 (0%)	2 (12%)	* (*%)	0 (0%)
Flu A (H3)	6 (26%)	17 (5%)	18-24	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Novel A (H3N2)	0 (0%)	3 (1%)	25-49	0 (0%)	4 (23%)	0 (0%)	0 (0%)
Flu B	0 (0%)	0 (0%)	50-64	0 (0%)	1 (6%)	0 (0%)	0 (0%)
Equivocal	0 (0%)	0 (0%)	30-04		, ,	, ,	
Indeterminate	0 (0%)	6 (2%)	>64	0 (0%)	3 (18%)	0 (0%)	0 (0%)
Negative	17 (74%)	284 (92%)	Total	0	17	3	0
Total	23	310					

Table 3. Number of positive results for non-influenza respiratory virus isolated since 10/2/11 by the State Hygienic Laboratory and Mercy Dunes in Sioux City					
	Current week	Cumulative			
Adenovirus	2	16			
Parainfluenza Virus Type 1	0	19			
Parainfluenza Virus Type 2	0	7			
Parainfluenza Virus Type 3	0	0			
Rhinovirus	0	19			
Respiratory syncytial virus (RSV)	0	5			
human metapneumovirus (hMPV)	0	3			

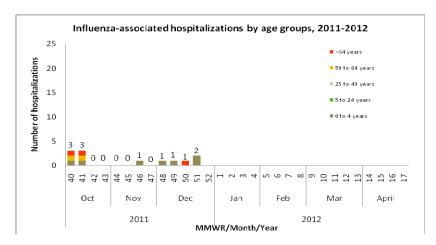
## Outpatient health care provider surveillance program (ILINet)

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week.



# Influenza-associated hospitalizations

Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week.



### School surveillance program

Schools participating in IISN voluntarily track and report absence due to all illness (including non-influenza illnesses) and the total enrollment each week.

