



Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Weekly Activity Report

For the week ending December 11, 2010, Week 49

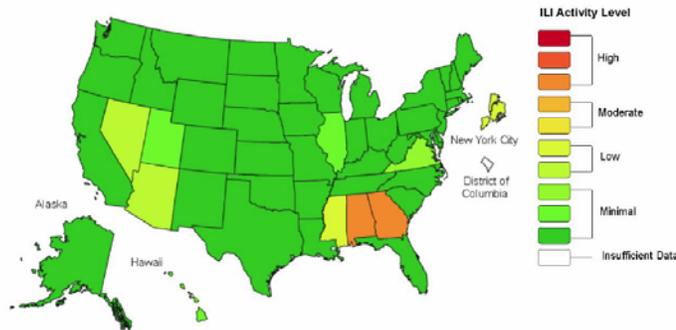
Quick Stats for this reporting week

Iowa activity level ¹	Local
Percent of outpatient visits for ILI ²	0.6% (threshold 2.1%)
Percent of influenza rapid test positive*	2.8%
Percent of RSV rapid tests positive*	8.4%
Percent school absence due to illness	3.3%
Number of schools with ≥10% absence due to illness	0
Influenza-associated hospitalizations**	0 of 2843 inpatients surveyed

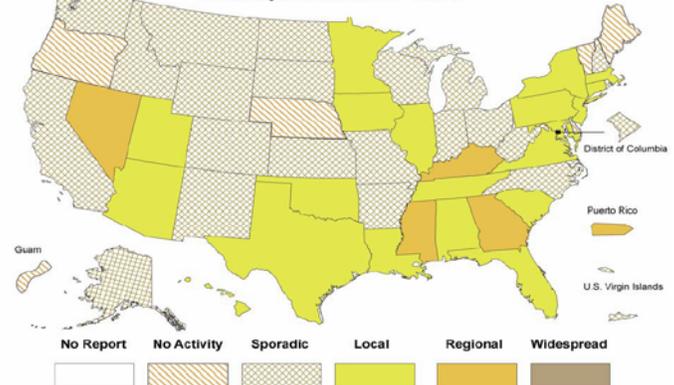
* Percent is based on three-week moving average

** Hospitalizations due to influenza are voluntarily reported through a weekly survey of 21 Iowa hospitals.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILInet
2010-11 Influenza Season Week 49 ending Dec 11, 2010



Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*
Week ending December 11, 2010 - Week 49



Interactive web tool available at: <http://qis.cdc.gov/grasp/fluview/main.html>

*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 is increasing in Iowa. One new case of influenza A and one new case of influenza B were identified this reporting week. As of the reporting week, the State Hygienic Laboratory (SHL) identified all three strains of influenza - influenza A (H3N2), 2009 H1N1, and influenza B, occurring in Iowa. All three strains are covered by this year's influenza vaccine.

The proportion of outpatient visits for influenza-like illness (ILI) was 0.6%, which is below the threshold of 2.1%. The number of positive influenza rapid antigen tests has slightly increased. Other respiratory viruses recently identified in Iowa include respiratory syncytial virus (RSV), parainfluenza 2, parainfluenza 3, adenovirus, and rhinovirus. The percent of school illness-absenteeism was 3.3%, which is above the baseline of 3.06%.

National Activity Summary - www.cdc.gov

Synopsis: During week 49 (December 5-11, 2010), influenza activity in the United States increased.

- Of the 3,295 specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVS) collaborating laboratories and reported to CDC/Influenza Division, 363 (11.0%) were positive for influenza.

¹ ***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.

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

- One human infection with a novel influenza A virus was reported.
- The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.
- One influenza-associated pediatric death was reported and was associated with Influenza A (H3) virus infection.
- The proportion of outpatient visits for influenza-like illness (ILI) was 1.8%, which is below the national baseline of 2.5%. All 10 regions reported ILI below region-specific baseline levels; two states (Alabama and Georgia) experienced high ILI activity, New York City and three states experienced low ILI activity, 45 states experienced minimal ILI activity, and the District of Columbia had insufficient data.
- The geographic spread of influenza in Puerto Rico and four states (Georgia, Kentucky, Mississippi, and Nevada) was reported as regional, 20 states reported local activity; the District of Columbia, the U.S. Virgin Islands, and 21 states reported sporadic activity, and Guam and five states reported no influenza activity.

International Activity Summary - www.who.int - not available

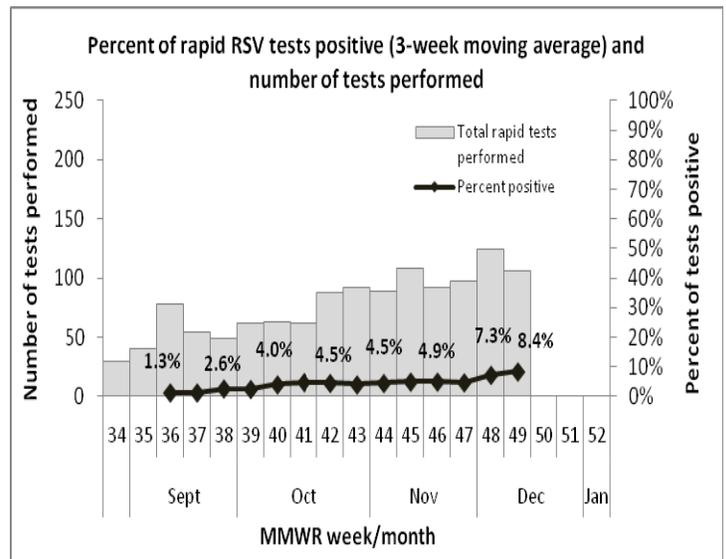
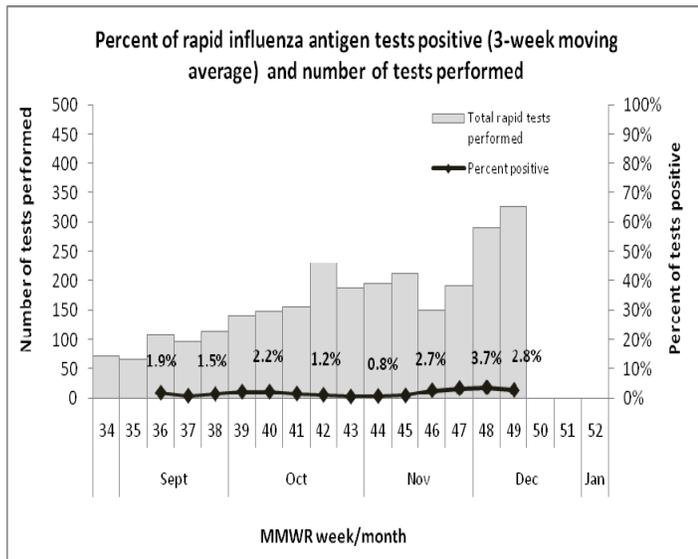
Laboratory surveillance program - Influenza and Other Respiratory Viruses

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.

Specimens tested by the State Hygienic Laboratory (includes surveillance sites, rapid antigen confirmation, hospitalizations, and mortality surveillance)

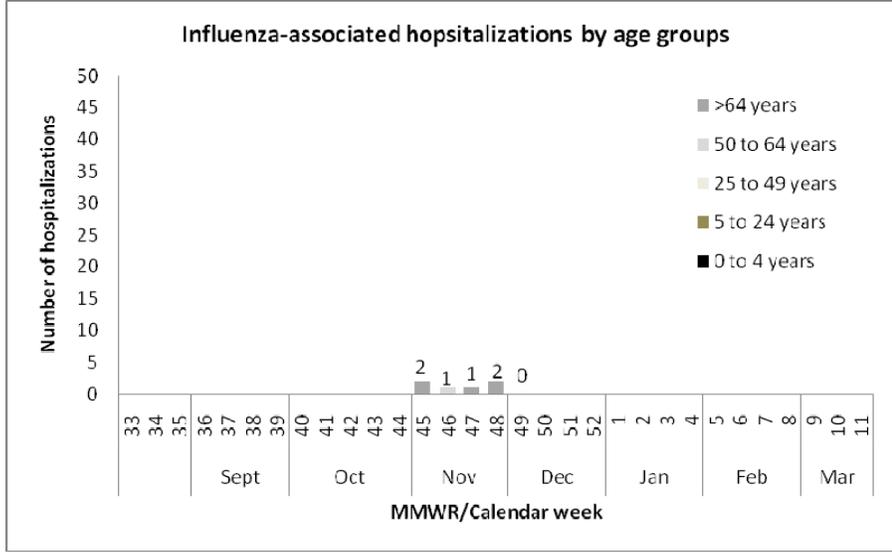
Influenza viruses isolated 9/1/10 to present week		
	Current week	Cumulative
Flu A	1	5
<i>Flu A (2009 H1N1)</i>	0	1
<i>Flu A (H3)</i>	1	3
Subtyping not reported	0	1
Flu B	1	5
Indeterminate/Equivocal	2	18
Negative	56	764
Total	60	792

Number of positive results for non-influenza respiratory virus isolated since 9/1/10		
	Current week	Cumulative
Adenovirus Isolated	0	9
Enteroviruses (presumptive)	0	4
<i>Coxsackievirus A9 Isolated</i>	0	2
<i>Coxsackievirus B4 Isolated</i>	0	1
<i>Echovirus 9 Isolated</i>	0	2
Parainfluenza Virus Type 1 Isolated	0	0
Parainfluenza Virus Type 2 Isolated	0	12
Parainfluenza Virus Type 3 Isolated	0	4
Rhinovirus Isolated	0	13
Respiratory syncytial virus (RSV)	0	1



Influenza-associated hospitalizations

Twenty-one Iowa hospitals participate in the IISN. They track and report the number of influenza-associated hospitalizations. In the graph below, “Number of hospitalizations” relates to those that are considered influenza-associated with laboratory confirmation (rapid antigen results included) of influenza infection. They also include influenza illness diagnosed by a health care provider.



School surveillance program

Forty-two Iowa schools participate in the IISN system for tracking and reporting absence due to illness. They also track total enrollment, and log the number of days school was in session each week.

