



Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Weekly Activity Report

For the week ending May 21, 2011, Week 20

Quick Stats for this reporting week

| | |
|-----------------------------------------------------|-----------------------|
| Iowa activity level ¹ | Sporadic |
| Percent of outpatient visits for ILI ² | 0.2% (threshold 2.1%) |
| Percent of influenza rapid test positive | 3.1% (3/97) |
| Percent of RSV rapid tests positive | 17.0% (8/47) |
| Percent school absence due to illness | 1.7% |
| Number of schools with ≥10% absence due to illness | 0 |
| Influenza-associated hospitalizations ^{**} | N/A |

**** 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 20 ending May 21, 2011



Interactive web tool available at: <http://ais.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.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*
Week ending May 21, 2011 - Week 20



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

Iowa statewide activity summary

The influenza activity in Iowa is very low. There were no laboratory confirmed cases of influenza in this reporting week. For the 2010-2011 influenza season, the State Hygienic Laboratory has isolated three different strains of influenza in Iowans - influenza A (H3N2), 2009 H1N1, and influenza B. All three strains are well matched with this year's influenza vaccine.

The proportion of visits due to influenza-like illness (ILI) was 0.2 percent, which is below the baseline of 2.1 percent. Influenza-associated hospitalization reporting has ended for this influenza season and will resume in the fall. The percentage of influenza rapid tests that tested positive decreased from last week while the percentage of RSV rapid tests that tested positive increased. Other respiratory viruses have also been identified in Iowa this season, including respiratory syncytial virus (RSV), parainfluenza 1, parainfluenza 2, parainfluenza 3, adenovirus, and rhinovirus.

National activity summary - www.cdc.gov

Synopsis: During week 20 (May 15-21, 2011), influenza activity in the United States remained low.

- Of the 1,192 specimens tested by the U.S. World Health Organization (WHO) and National Respiratory and the Enteric Virus Surveillance System (NREVSS) collaborating laboratories and reported to CDC/Influenza Division, 9 (0.8%) were positive for influenza.
- The proportion of deaths attributed to pneumonia and influenza was slightly above the epidemic threshold.

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.

- No influenza-associated pediatric deaths were reported. This season, 105 laboratory-confirmed influenza-associated pediatric deaths have been reported to CDC.
- The proportion of outpatient visits for influenza-like illness (ILI) was 0.9%, which is below the national baseline of 2.5%. All 10 regions reported ILI below region-specific baselines. New York City and 49 states experienced minimal ILI activity, and the District of Columbia and one state had insufficient data to calculate an ILI activity level.
- The geographic spread of influenza in Puerto Rico and 21 states was reported as sporadic, and the District of Columbia, U.S. Virgin Islands, Guam, and 29 states reported no influenza activity.

International activity summary - www.who.int

The influenza season is largely finished in the temperate countries of the northern hemisphere with transmission now either undetectable or at very low levels in most areas. A few tropical countries are experiencing low grade transmission including the Dominican Republic, Venezuela (influenza A(H1N1)2009) and Jamaica (influenza type B) in the Americas, Rwanda (influenza A(H3N2) and Madagascar (influenza type B) in Sub-Saharan Africa. The influenza season has not yet started in the temperate countries of the southern hemisphere. Australia has reported a small increase in reports of influenza-like illness however actual detections of influenza virus have decreased in most jurisdictions in recent weeks, including in the northern tropical states. A summary review of the northern hemisphere 2010/11 winter influenza season will be published in the World Health Organization's Weekly Epidemiological Record on May 26, 2011.

Laboratory surveillance program - Influenza and Other Respiratory Viruses

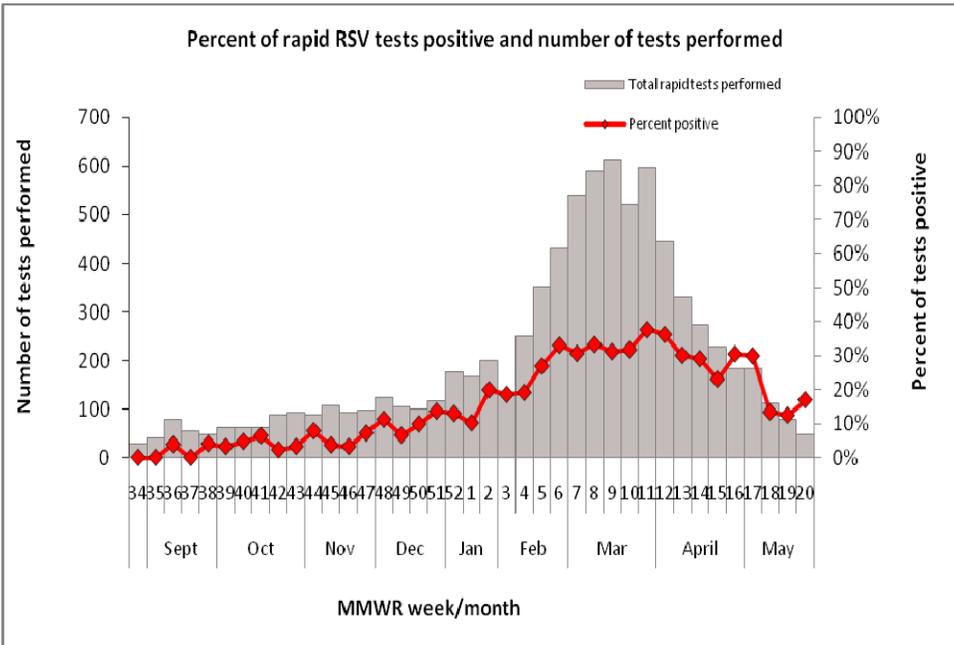
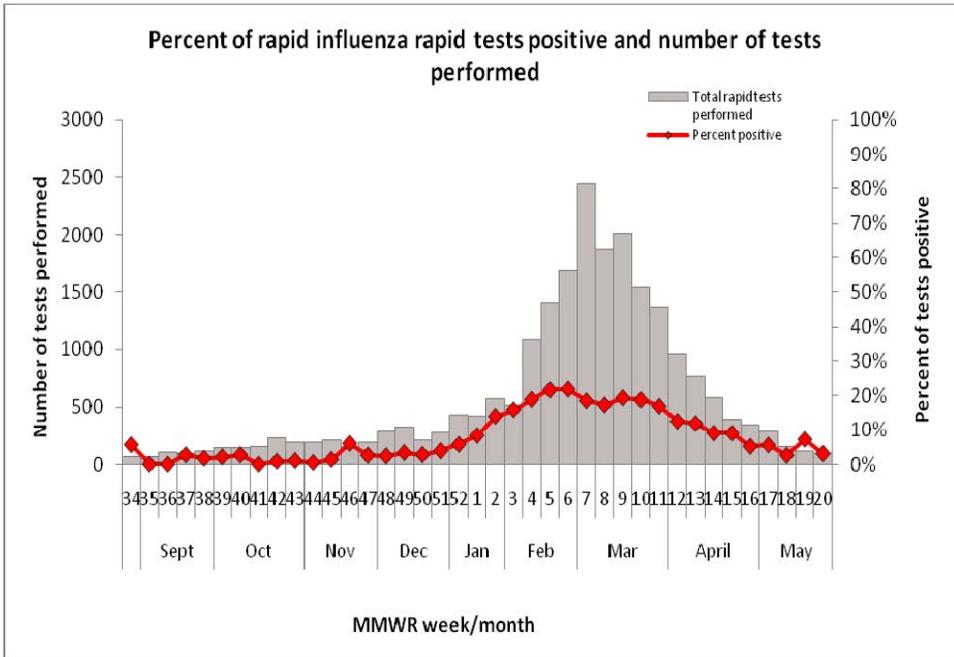
The State Hygienic Laboratory (SHL) is the primary lab testing and reporting influenza tests in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs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

Specimens tested by the State Hygienic Laboratory

| Influenza viruses isolated 9/1/10 to present week | | | Influenza viruses by age group 9/1/10 to present week | | | | |
|---------------------------------------------------|---------------------|-------------------|-------------------------------------------------------|--------------------------|-------------------|-----------------------------|--------------|
| | <i>Current week</i> | <i>Cumulative</i> | <i>Age group</i> | <i>Flu A (2009 H1N1)</i> | <i>Flu A (H3)</i> | <i>Flu A (no subtyping)</i> | <i>Flu B</i> |
| Flu A | 0 (0%) | 711 (22%) | 0-4 | 41 (14%) | 58 (16%) | 7 (13%) | 67 (18%) |
| Flu A (2009 H1N1) | 0 (0%) | 291 (9%) | 5-17 | 55 (19%) | 60 (16%) | 8 (15%) | 165 (44%) |
| Flu A (H3) | 0 (0%) | 368 (11%) | 18-24 | 90 (31%) | 23 (6%) | 5 (10%) | 60 (16%) |
| Subtyping not reported | 0 (0%) | 52 (2%) | 25-49 | 71 (25%) | 67 (18%) | 12 (23%) | 46 (12%) |
| Flu B | 0 (0%) | 374 (11%) | 50-64 | 29 (10%) | 34 (9%) | 6 (12%) | 13 (4%) |
| Indeterminate/Equivocal | 0 (0%) | 85 (3%) | >64 | 5 (2%) | 126 (34%) | 14 (27%) | 23 (6%) |
| Negative | 13 (100%) | 2213 (65%) | Total | 291 | 368 | 52 | 374 |
| Total | 13 | 3383 | | | | | |

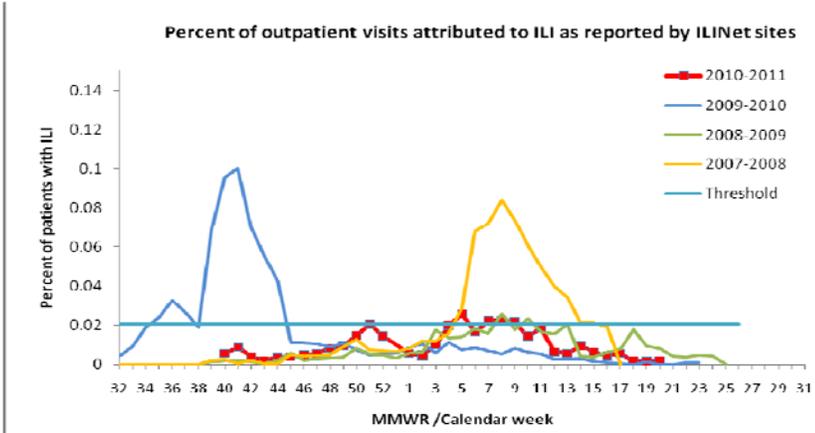
Number of positive results for non-influenza respiratory virus isolated since 9/1/10 by the State Hygienic Laboratory and Mercy Dunes in Sioux City

| | <i>Current week</i> | <i>Cumulative</i> |
|--------------------------------------------|---------------------|-------------------|
| Adenovirus Isolated | 0 | 78 |
| 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 | 5 |
| Parainfluenza Virus Type 2 Isolated | 0 | 20 |
| Parainfluenza Virus Type 3 Isolated | 0 | 44 |
| Rhinovirus Isolated | 0 | 17 |
| Respiratory syncytial virus (RSV) | 0 | 31 |



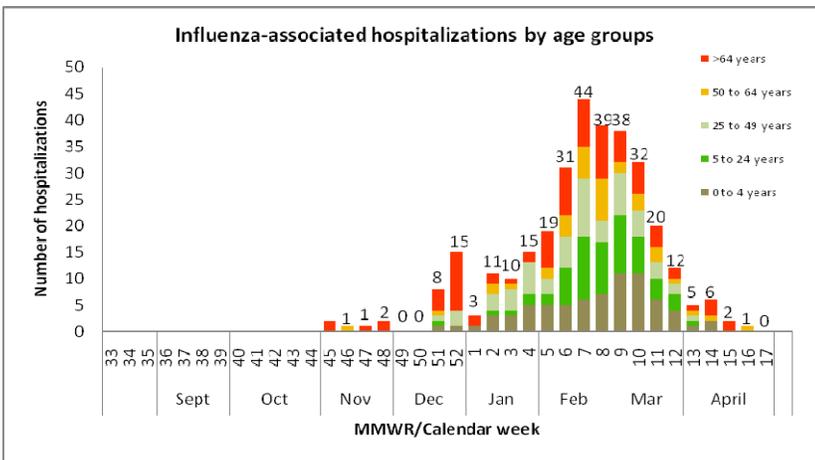
Outpatient health care provider surveillance program (ILINet)

There are approximately 10 outpatient health care provider surveillance sites surveying patient populations for ILI each week. These sites report the number of patients seen with influenza-like illness and the total number of patient visits each week.



Influenza-associated hospitalizations

Twenty-one Iowa hospitals participate in the IISN. These hospitals track and report the number of influenza-associated hospitalizations (diagnosed clinically or based on laboratory results) and the total number of inpatients.



School surveillance program

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

