Division of Acute Disease Prevention and Emergency Response
Center for Acute Disease Epidemiology

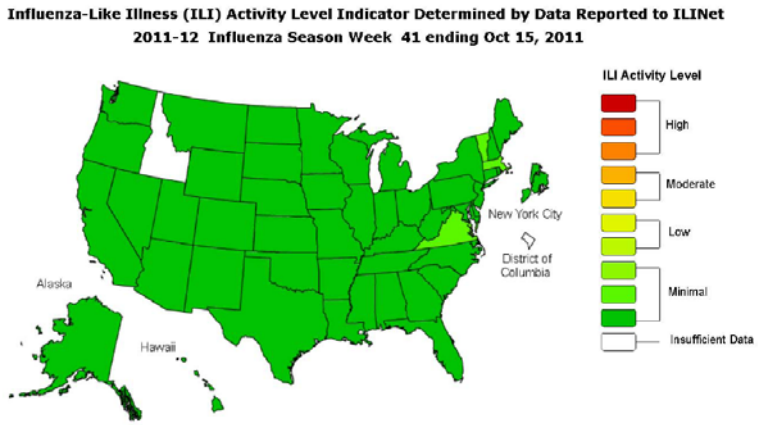
Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses
Weekly Activity Report
For the week ending October 15, 2011, Week 41

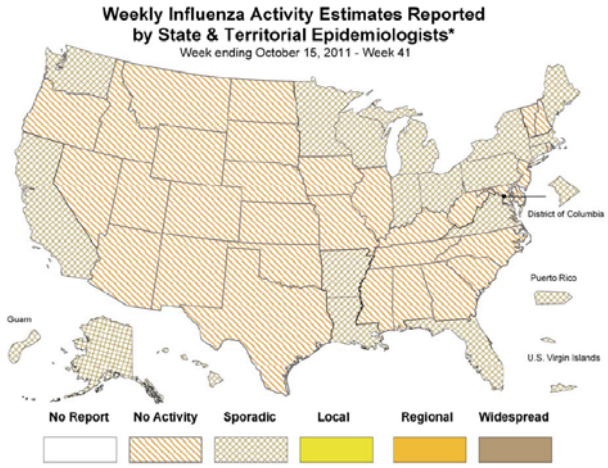
Quick Stats for this reporting week

Iowa activity level[1]	**No activity**
Percent of outpatient visits for ILI[2]	1.2% (baseline 2.3%)
Percent of influenza rapid test positive	1.3% (2/156)
Percent of RSV rapid tests positive	0.0% (0/61)
Percent school absence due to illness	1.9%
Number of schools with ≥10% absence due to illness	0
Influenza-associated hospitalizations*	3/6062
Influenza-associated pediatric mortality**	0

** Hospitalizations due to influenza are voluntarily reported through a weekly survey of Iowa sentinel hospitals.*
***CDC asks states to report any pediatric death (<18 years old) associated with influenza*



*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

The influenza activity in Iowa remains low. There were no laboratory confirmed cases of influenza in this reporting week. The proportion of visits due to influenza-like illness (ILI) was 1.2 percent, which is below the regional baseline of 2.3 percent. The percent of rapid influenza tests that tested positive increased slightly from the previous week while the percent of rapid RSV tests that tested positive decreased. There were three Influenza-associated hospitalizations (rapid flu positive) reported from sentinel hospitals for this reporting period. Other respiratory viruses identified include parainfluenza 1 and respiratory syncytial virus (RSV).

National activity summary - www.cdc.gov

Synopsis: During week 41 (October 9-15, 2011), influenza activity remained low in the United States.

- **U.S. Virologic Surveillance**: Of the 1,286 specimens tested by U.S. World Health Organization and National Respiratory and Enteric Virus Surveillance System collaborating laboratories and reported to CDC/Influenza Division, 6 (0.5 percent) were positive for influenza.
- **Novel influenza A Virus**: One human infection with a novel influenza A virus was reported.

---

[1] ***No Activity:** No laboratory-confirmed cases of influenza and no reported increase in the number of cases of influenza-like illness (ILI[2]).
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[2].
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.

- **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 1.0 percent, which is below the national baseline of 2.4 percent. All ten regions reported ILI below region-specific baseline levels. Forty-nine states and New York City 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 the District of Columbia, Guam, Puerto Rico, the U.S. Virgin Islands, and 18 states was reported as sporadic and 32 states reported no influenza activity.

International activity summary - www.who.int

Influenza activity in the temperate regions of the northern hemisphere remains low or undetectable. Influenza activity in the tropical zone is active in a few countries of the Americas (Cuba, Honduras and El Salvador), central Africa (Cameroon), and Southern and Southeast Asia (Bangladesh, Cambodia, Thailand, Lao People's Democratic Republic and Viet Nam). Transmission in South Africa and South America remains low and the season appears largely over. Influenza activity has peaked in Australia and New Zealand, though there are regional variations in the timing of the peaks and the season has not yet finished. Australia continues to see regional differences in the predominant virus subtype.

Laboratory surveillance program - *Influenza and Other Respiratory Viruses*

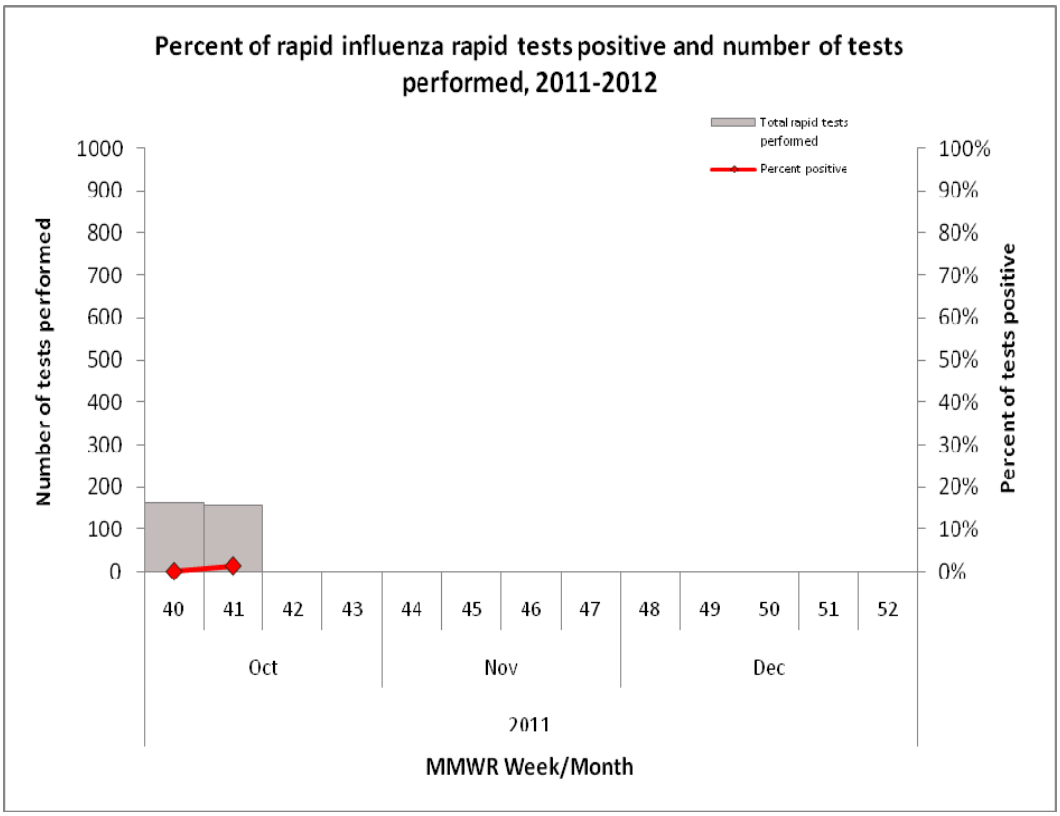
The State Hygienic Laboratory (SHL) is the primary lab testing and reporting influenza tests in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs 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.

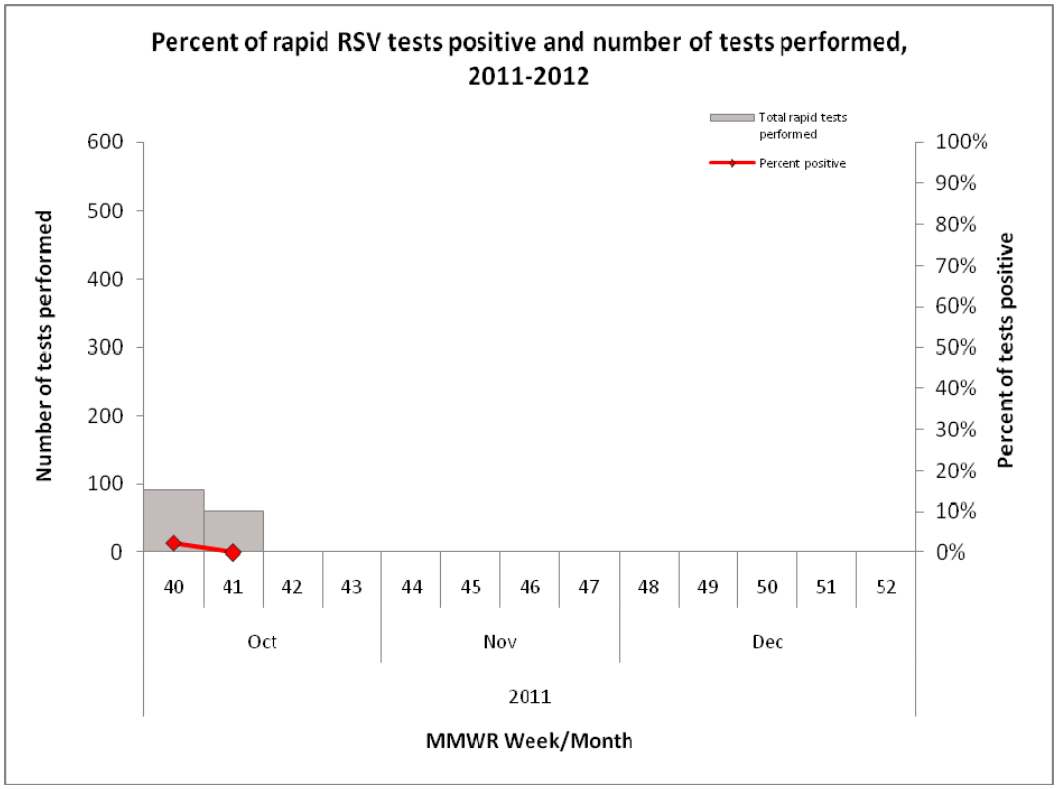
Specimens tested by the State Hygienic Laboratory

Influenza viruses isolated 10/2/11 to present week		
	Current week	*Cumulative*
Flu A	0 (0%)	0 (0%)
Flu A (2009 H1N1)	0 (0%)	0 (0%)
Flu A (H3)	0 (0%)	0 (0%)
Subtyping not reported	0 (0%)	0 (0%)
Flu B	0 (0%)	0 (0%)
Indeterminate/Equivocal	2 (10%)	6 (10%)
Negative	16 (90%)	37 (90%)
Total	18	43

Influenza viruses by age group 10/2/11 to present week				
Age group	*Flu A (2009 H1N1)*	*Flu A (H3)*	*Flu A (no subtyping)*	*Flu B*
0-4	0 (0%)	0 (0%)	0 (0%)	0 (0%)
5-17	0 (0%)	0 (0%)	0 (0%)	0 (0%)
18-24	0 (0%)	0 (0%)	0 (0%)	0 (0%)
25-49	0 (0%)	0 (0%)	0 (0%)	0 (0%)
50-64	0 (0%)	0 (0%)	0 (0%)	0 (0%)
>64	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Total	0	0	0	0

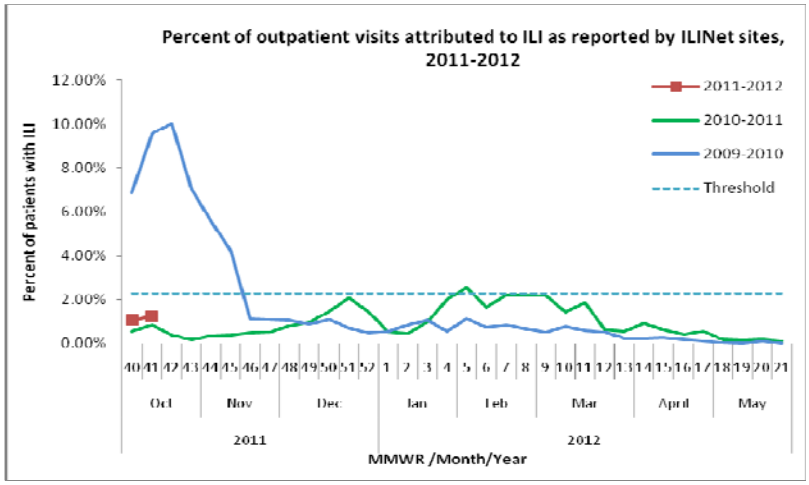
Number of positive results for non-influenza respiratory virus isolated since 10/2/11 by the State Hygienic Laboratory and Mercy Dunes in Sioux City		
	Current week	*Cumulative*
Adenovirus	0	2
Parainfluenza Virus Type 1	1	1
Parainfluenza Virus Type 2	0	0
Parainfluenza Virus Type 3	0	0
Rhinovirus/Enteroviruses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


Percent of rapid influenza rapid tests positive and number of tests performed, 2011-2012
Total rapid tests performed
Percent positive
Number of tests performed
Percent of tests positive
1000
900
800
700
600
500
400
300
200
100
0
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
40
41
42
43
44
45
46
47
48
49
50
51
52
Oct
Nov
Dec
2011
MMWR Week/Month


Percent of rapid RSV tests positive and number of tests performed, 2011-2012
Total rapid tests performed
Percent positive
Number of tests performed
Percent of tests positive
600
500
400
300
200
100
0
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
40
41
42
43
44
45
46
47
48
49
50
51
52
Oct
Nov
Dec
2011
MMWR Week/Month

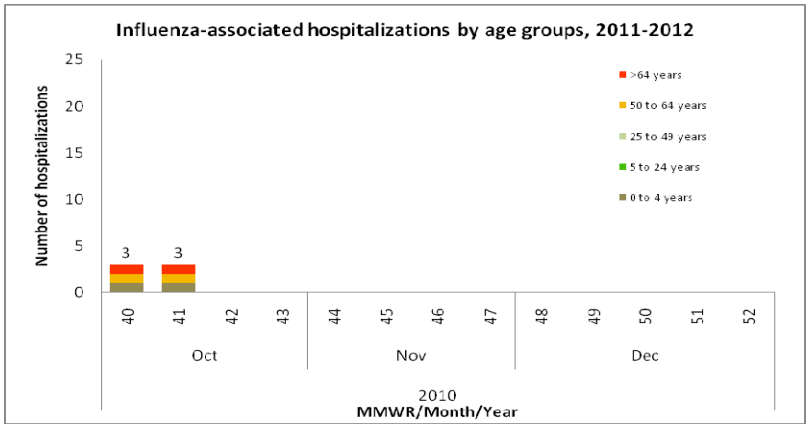
Outpatient health care provider surveillance program (ILINet)

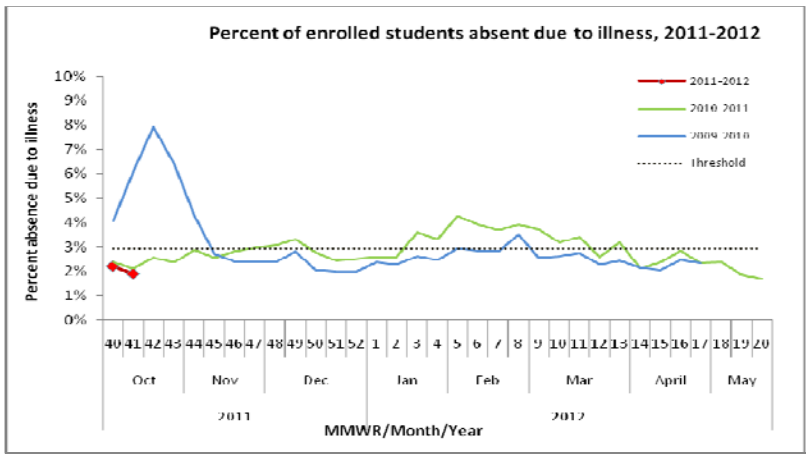
Outpatient health care providers that participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week.



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.