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
## Summer Monthly Report
## July 1 (Week 27) – August 4 (Week 31), 2012

## Iowa statewide activity summary

Influenza activity in Iowa is very low. There was one laboratory confirmed case of influenza type B reported in late July. No cases of other respiratory viruses were reported for the reporting period.

## National activity summary - www.cdc.gov

*Not available during summer months*

## International activity summary - www.who.int

Most countries in the northern temperate zone have stopped weekly reporting or moved over to out of season surveillance schedules. In the tropical zone, the countries to report notable influenza activity are Brazil, Cuba, Ecuador, El Salvador and Panama in the Americas (influenza A (H1N1) pdm09 and type B); Ghana and Madagascar in sub-Saharan Africa (influenza A (H3N2); southern China, Singapore and Viet Nam in Asia (A (H3N2) in China and Viet Nam, A (H3N2), A (H1N1) pdm09, and B in Singapore). The influenza season has continued in most temperate countries of the southern hemisphere for which there is data and appears to have peaked in Chile and South Africa, where many indicators have recently begun to decline. In contrast, very low numbers of detections have been reported throughout the last several weeks in Argentina. Rates of disease have continued to increase across Australia and New Zealand. Influenza A (H3N2) viruses were the most commonly reported type/sub-type in recent weeks across the Southern Hemisphere temperate region in Chile, South Africa, Australia, and New Zealand. However, the distribution is not uniform across Australia where influenza type B accounts for a significant portion of viruses detected in the Western Australia, Northern Territory, and Queensland. Influenza A (H1N1) pdm09 is the most common influenza virus detected in Paraguay as well as neighboring areas of southern Brazil and the Plurinational State of Bolivia.

## 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, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

**Specimens tested by the State Hygienic Laboratory**

**Table 1. Influenza viruses isolated 10/2/11 to present week**

| | *Week 27-31* *(7/1-8/4)* | *Cumulative* |
|---|---|---|
| **Flu A** | 0 (0%) | 1183 (48%) |
| Flu A (2009 H1N1) | 0 (0%) | 117 (5%) |
| Flu A (H3) | 0 (0%) | 1038 (42%) |
| Novel A (H3N2) | 0 (0%) | 3 (<1%) |
| Subtyping not reported | 0 (0%) | 25 (1%) |
| **Flu B** | 1 (25%) | 33 (1%) |
| **Equivocal** | 0 (0%) | 3 (<1%) |
| **Indeterminate** | 0 (0%) | 11 (1%) |
| **Negative** | 3 (75%) | 1249 (50%) |
| **Total** | 4 | 2479 |

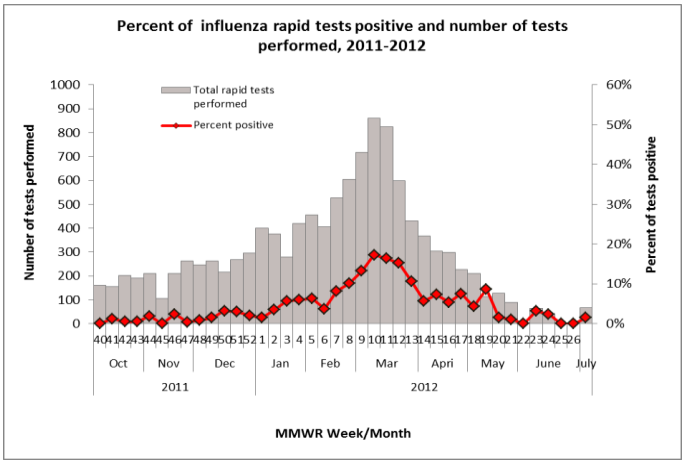
**Table 2. Influenza viruses by age group 10/2/11 to present week**

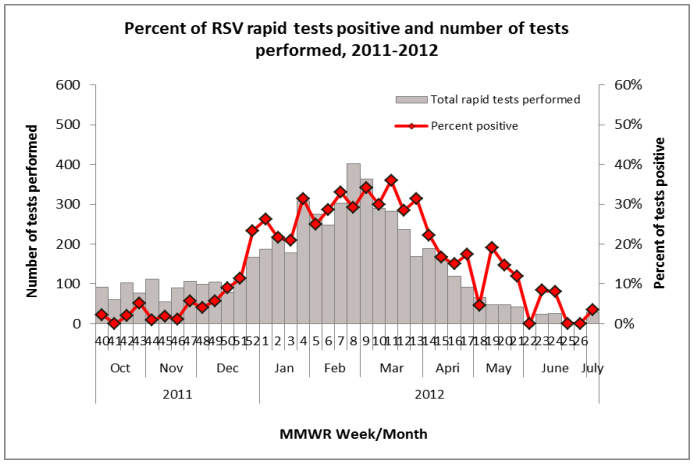
| *Age group* | *Flu A (2009 H1N1)* | *Flu A (H3)* | *Novel A (H3N2)* | *Flu A (no typing)* | *Flu B* |
|---|---|---|---|---|---|
| *0-4* | 16 (14%) | 231 (22%) | * (*%) | 5 (20%) | 7 (21%) |
| *5-17* | 23 (20%) | 259 (25%) | * (*%) | 2 (8%) | 11(33%) |
| *18-24* | 24 (20%) | 75 (7%) | 0 (0%) | 2 (8%) | 3 (9%) |
| *25-49* | 49 (42%) | 216 (21%) | 0 (0%) | 10 (40%) | 5 (15%) |
| *50-64* | 4 (3%) | 97 (9%) | 0 (0%) | 2 (8%) | 4 (12%) |
| *>64* | 1 (1%) | 158 (15%) | 0 (0%) | 4 (16%) | 3 (9%) |
| *Total* | 117 | 1038 | 3 | 25 | 33 |

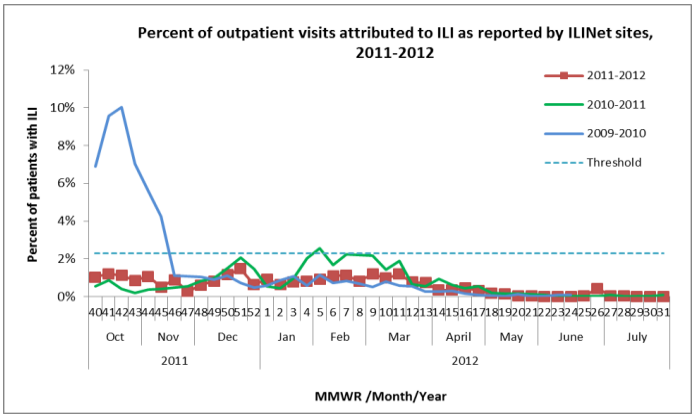
* Counts of three or less of reportable diseases (novel flu A) are suppressed to protect confidentiality.
Note that counts may not add up to the total due to missing age information and all data in this report are provisional and may change as reports are updated

**Table 3. Number of positive results for non-influenza respiratory virus isolated since 10/2/11 by the State Hygienic Laboratory, Mercy Dunes in Sioux City, and Iowa Methodist Medical Center**

| | *Week 27-31* | *Cumulative* |
|---|---|---|
| ***Adenovirus*** | 0 | 42 |
| ***Parainfluenza Virus Type 1*** | 0 | 32 |
| ***Parainfluenza Virus Type 2*** | 0 | 13 |
| ***Parainfluenza Virus Type 3*** | 0 | 0 |
| ***Rhinovirus*** | 0 | 64 |
| ***Respiratory syncytial virus (RSV)*** | 0 | 203 |
| ***human metapneumovirus (hMPV)*** | 0 | 22 |




## 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.