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
September 2 (Week 36), 2012 – September 29 (Week 39), 2012

Iowa statewide activity summary

It is a little early, but the flu season has started in Iowa. The State Hygienic Laboratory (SHL) confirmed first cases of seasonal influenza viruses among different age groups and in different parts (central, east and southeast) of the state. Other respiratory viruses reported for the period include rhinovirus, human metapneumovirus (*hMPV)* and parainfluenza virus type 2 and 3.

National activity summary - www.cdc.gov

During May 20–September 22, 2012, the United States experienced low levels of seasonal influenza activity overall; however, more seasonal influenza viruses were detected than in the summer months of previous years. Influenza A (2009 H1N1), influenza A (H3N2), and influenza B viruses were detected worldwide and were identified sporadically in the United States. In July, influenza A (H3N2) variant viruses (H3N2v) were first detected in Indiana, and since July 12, 306 cases have been reported from 10 states (Indiana and Ohio reported 245 of the 306 cases), with 16 H3N2v-associated hospitalizations and one H3N2v-associated death. Direct contact with swine has been reported by the vast majority of cases, and influenza A (H3N2) viruses have been identified from swine that are genetically similar to H3N2v viruses from humans. Suspected human-to-human transmission has been identified in a small number of cases, but ongoing community transmission of this virus has not been detected.

International activity summary - www.who.int

Seasonal influenza transmission has not been picked up yet in the northern temperate zone. Most countries in this zone have started or are yet to begin seasonal reporting. In the tropical areas most countries are reporting low or decreasing trends of influenza detections. The exceptions are Nicaragua in the Americas and India and Thailand in Asia. Influenza activity decreased in most of the temperate countries of the southern hemisphere. Australia, Chile, New Zealand, Paraguay and South Africa continue to report declines in influenza indicators. On the other hand, Argentina has reported some late influenza activity. The Word Health Organization has recommended the influenza vaccine composition for use in the 2013 southern hemisphere influenza season following technical consultations in September 2012.

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.

Table 1. Influenza viruses isolated by the State Hygienic Laboratory

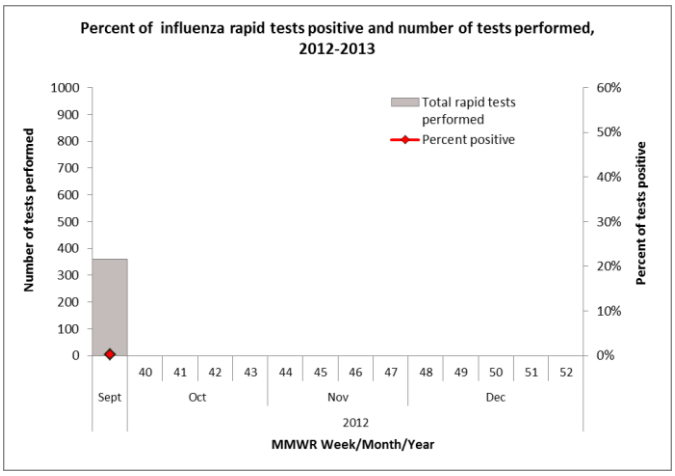
	Week 36-39 *(9/2/12-9/29/12)*	***Cumulative*** ***(9/2/12 to present week)***
Flu A	3 (5%)	3 (5%)
A (2009 H1N1)	1 (2%)	1 (2%)
A (H3)	2 (3%)	2 (3%)
A (H3N2) variant	0 (0%)	0 (0%)
Subtyping not reported	0 (0%)	0 (0%)
Flu B	0 (0%)	0 (0%)
Equivocal	0 (0%)	0 (0%)
Indeterminate	0 (0%)	0 (0%)
Negative	58 (95%)	58 (95%)
Total	61	61

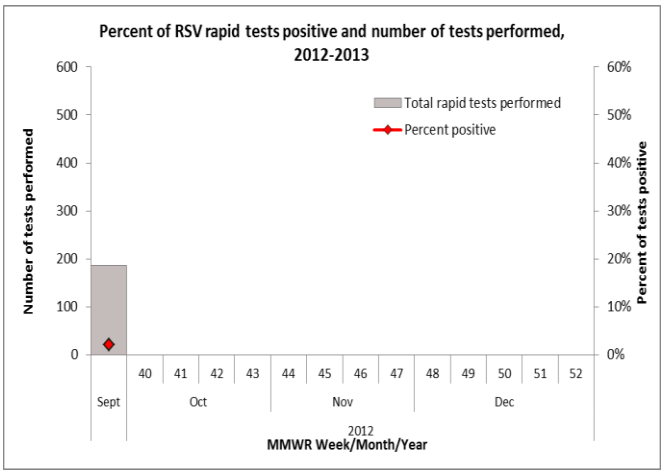
Table 2. Influenza viruses by age group 9/2/12 to present week

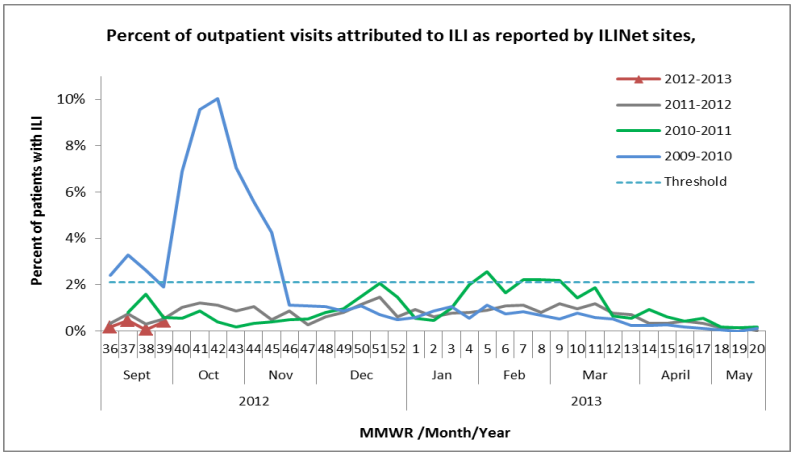
Age group	***Flu A (2009 H1N1)***	***Flu A (H3)***	***Flu A (H3N2) Variant***	***Flu A (no typing)***	***Flu B***
0-4	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
5-17	1 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
18-24	0 (0%)	1 (50%)	0 (0%)	0 (0%)	0 (0%)
25-49	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
50-64	0 (0%)	1 (50%)	0 (0%)	0 (0%)	0 (0%)
>64	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Total	1	2	0	0	0

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 by the State Hygienic Laboratory, Mercy Dunes in Sioux City, and Iowa Methodist Medical Center		
	Week 36-39 *(9/2/12-9/29/12)*	***Cumulative*** ***(9/2/12 to present week)***
Adenovirus	0	0
Parainfluenza Virus Type 1	0	0
Parainfluenza Virus Type 2	2	2
Parainfluenza Virus Type 3	4	4
Rhinovirus	4	4
Respiratory syncytial virus (RSV)	0	0
human metapneumovirus (hMPV)	1	1





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. As a key part of influenza surveillance, CDC and IDPH highly encourage new health care providers to join this important surveillance program today! Contact Yumei Sun at 515-281-7134 or yumei.sun@idph.iowa.gov for more information.