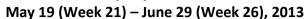




Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses
Summer Monthly Report





<u>lowa statewide activity summary</u>

Influenza activity in Iowa is very Iow. There were no laboratory confirmed cases of influenza reported for this reporting period. Other respiratory viruses reported in this period include 42 cases of rhinovirus/enterovirus, 18 cases of adenovirus, 14 cases of human metapneumovirus, 11 cases of parainfluenza 3, one case of parainfluenza 1, one case of parainfluenza 4, and one case of respiratory syncytial virus (RSV).

National activity summary - www.cdc.gov

Condensed reports over the summer months are available at http://www.cdc.gov/flu/weekly/

International activity summary - www.who.int

Influenza activity in the northern hemisphere temperate zones decreased to low levels. Similarly, influenza activity decreased in most regions of tropical Asia except for Sri Lanka and Viet Nam where activity of influenza A continued increasing. In Central America and the Caribbean, influenza activity remained low or similar compared to previous weeks, except in Cuba and the Dominican Republic where increasing influenza activity was reported. Influenza activity in the southern hemisphere started to increase slightly in South America and in South Africa but remained low in Oceania. In South America, respiratory syncytial virus remained the predominant circulating virus, but the proportion of influenza positive viruses was increasing.

<u>Laboratory surveillance program – influenza and other respiratory viruses</u>

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network on a daily basis. 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 by SHL					
	Week 21-26	Cumulative since 9/2/12			
Flu A	0 (0%)	1,612 (36%)			
A (2009 H1N1)	0 (0%)	16 (<1%)			
A (H3)	0 (0%)	1,509 (34%)			
A (H3N2) variant	0 (0%)	1 (<1%)			
Subtyping not reported	0 (0%)	86 (2%)			
Flu B	0 (0%)	368 (8%)			
Equivocal	0 (0%)	27 (<1%)			
Indeterminate	0 (0%)	28 (<1%)			
Negative	34 (100%)	2,506 (55%)			
Total	34	4,541			

Table 2. Influenza viruses by age group 9/2/12 to present week						
Flu A (2009 H1N1)	Flu A (H3)	Flu A (H3N2) Variant	Flu A (no typing)	Flu B		
5 (31%)	184 (12%)	* (*%)	7 (8%)	72 (20%)		
3 (19%)	280 (19%)	* (*%)	5 (6%)	131 (36%)		
0 (0%)	115 (8%)	0 (0%)	6 (7%)	32 (9%)		
4 (25%)	269 (18%)	0 (0%)	7 (8%)	55 (15%)		
2 (13%)	169 (11%)	0 (0%)	16 (19%)	27 (7%)		
2 (13%)	488 (32%)	0 (0%)	45 (52%)	51 (14%)		
16	1,509	1	86	368		
	Flu A (2009 H1N1) 5 (31%) 3 (19%) 0 (0%) 4 (25%) 2 (13%) 2 (13%)	Flu A (2009 H1N1) 5 (31%) 184 (12%) 3 (19%) 280 (19%) 0 (0%) 115 (8%) 4 (25%) 269 (18%) 2 (13%) 169 (11%) 2 (13%) 488 (32%)	Flu A Flu A (H3) Flu A (H3N2) H1N1) Variant 5 (31%) 184 (12%) * (*%) 3 (19%) 280 (19%) * (*%) 0 (0%) 115 (8%) 0 (0%) 4 (25%) 269 (18%) 0 (0%) 2 (13%) 169 (11%) 0 (0%) 2 (13%) 488 (32%) 0 (0%)	Flu A (2009 H1N1) Flu A (H3) (H3N2) Variant Flu A (no typing) 5 (31%) 184 (12%) * (*%) 7 (8%) 3 (19%) 280 (19%) * (*%) 5 (6%) 0 (0%) 115 (8%) 0 (0%) 6 (7%) 4 (25%) 269 (18%) 0 (0%) 7 (8%) 2 (13%) 169 (11%) 0 (0%) 16 (19%) 2 (13%) 488 (32%) 0 (0%) 45 (52%)		

^{*} Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information

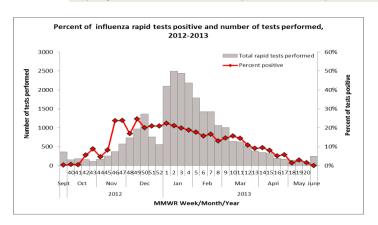
Table 3. Number of positive results for non-influenza respiratory virus isolated by the State Hygienic Laboratory, Mercy Dunes in Sioux City, and Iowa Methodist Medical Center

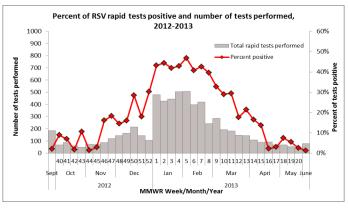
	Week 21-26	Cumulative since 9/2/12
Adenovirus	18	59
Parainfluenza Virus Type 1	1	6
Parainfluenza Virus Type 2	0	31
Parainfluenza Virus Type 3	11	67
Parainfluenza Virus Type 4	1	1
Rhinovirus/Enterovirus	42	257
Respiratory syncytial virus (RSV)	1	583
human metapneumovirus (hMPV)	14	68

Table 4. Percent of influenza rapid tests positive and number of tests performed by region, June 2013

	Influenza			RSV				
Region*	Tested	Flu A	Flu B	Both	% Positive	Tested	Positive	% Positive
Region 1	11	0	0	0	0.0%	16	0	0.0%
Region 2	1	0	0	0	0.0%	2	0	0.0%
Region 3	7	0	0	0	0.0%	7	0	0.0%
Region 4	3	0	0	0	0.0%	1	0	0.0%
Region 5	0	0	0	0	NA	0	0	NA
Region 6	223	0	0	0	0.0%	53	1	1.9%

Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshlek, Worth, Wright, Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lynn, Monona, O'Brien, Oszeola, Palo Alto, Pymouth, Pozahontas, Sac, Sious, Woodbury, Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Cuthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawatamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne: Rezion 6- Benton. Black Hawk. Butchanan. Cedar. Clayton, Clinton, Delaware, Dubuaue, Lowa, Jackson, Johnson, Jones, Linn. Scott.





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. This system is a key part of lowa's influenza surveillance. Iowa health care providers interested in joining this important surveillance program should contact Yumei Sun at 515-281-7134 or yumei.sun@idph.iowa.gov for more information.

