



Iowa Influenza Surveillance Network (IISN)
Influenza-like Illness (ILI) and Other Respiratory Viruses
Monthly Activity Report
July 2018



All data presented in this report are provisional and may change as additional reports are received

Quick Stats	
Percent of influenza rapid test positive	1% (5/495)
Percent of RSV rapid tests positive	10% (7/72)
Percent of outpatient visits for ILI	0.07% (baseline 1.9%)
Number of long-term care influenza outbreaks	0
Influenza-associated mortality -all ages (Cumulative)	271
Influenza-associated pediatric mortality (Cumulative)	0
Predominate non-influenza virus	Rhinovirus/enterovirus

Note: Deaths are considered influenza-associated when influenza is listed on the death certificate. This is an underestimate of influenza-related deaths. Cumulative mortality totals are from 10/1/2017 to the current week.

Iowa statewide activity summary:

Influenza activity in Iowa is very low. During this reporting month, the State Hygienic Laboratory did not confirm any influenza viruses from submitted samples. The average weekly proportion of outpatient visits due to influenza-like illness (ILI) was 0.07 percent (0.00-0.18%), which is below the regional baseline of 1.9 percent. No long-term care influenza outbreaks or influenza-related deaths were reported this month. Surveillance sites reported detecting the following non-influenza respiratory illnesses with the most frequency: 215 rhinovirus/enterovirus and 62 parainfluenza virus type 3.

National activity summary - (CDC):

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

International activity summary - (WHO):

Detailed information can be found online at www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/.

Laboratory surveillance program:

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 sub-type of positive tests to the influenza surveillance network daily.

Table 1: Influenza A viruses detected by SHL by age group

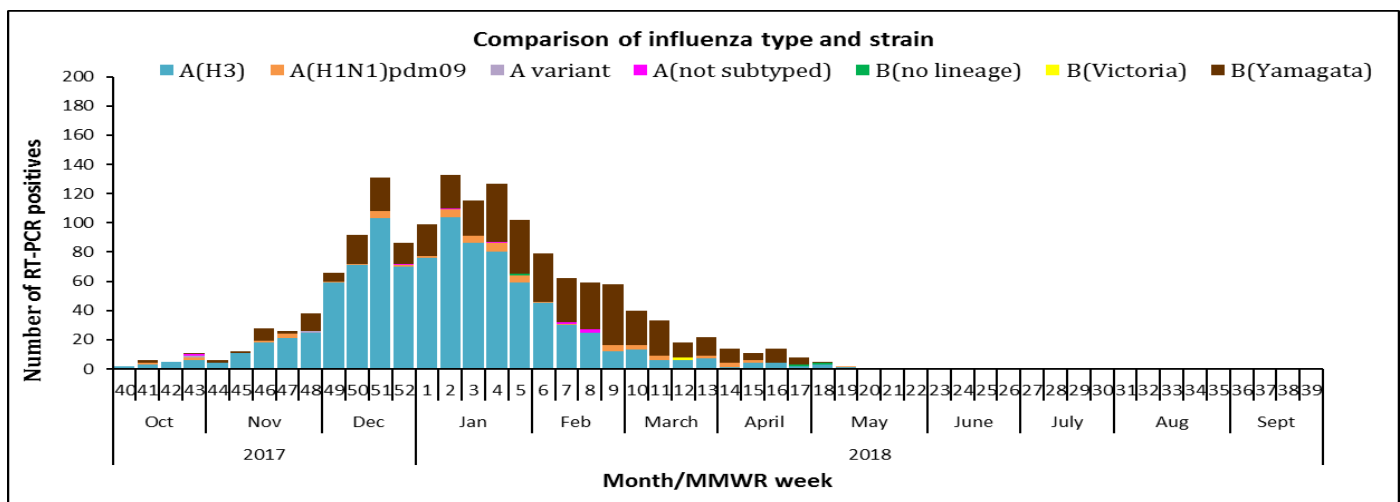
Age Group	CURRENT MONTH				CUMULATIVE (10/1/17– CURRENT WEEK)				
	A(H1N1) pdm09	A (H3)	Pending/ Not subtyped	Total	A(H1N1) pdm09	A variants	A (H3)	Pending/ Not subtyped	Total
0-4	0	0	0	0 (0%)	10	0	73	1	84 (8%)
5-17	0	0	0	0 (0%)	8	0	82	1	91 (9%)
18-24	0	0	0	0 (0%)	11	1	128	0	140 (14%)
25-49	0	0	0	0 (0%)	11	1	77	1	90 (9%)
50-64	0	0	0	0 (0%)	10	0	113	1	124 (12%)
>64	0	0	0	0 (0%)	7	0	489	3	499 (49%)
Total	0 (0%)	0 (0%)	0 (0%)	0	57 (6%)	2 (0%)	962 (94%)	7 (1%)	1028

Note: Cell counts of three or less are sometimes suppressed to protect confidentiality. Totals by age may not add up to totals by subtype/lineage due to missing age information. Only cases of Iowa residents are included. Specimens listed as “not subtyped” were not able to be subtyped due to weak positive lab results. This can be due to poor collection, timing of collection or stage of infection. Influenza A variants detected in 2017-18 include A(H1N1)v and A(H3N2)v.

Table 2: Influenza B viruses detected by SHL by age group

Age Group	CURRENT MONTH				CUMULATIVE (10/1/17– CURRENT WEEK)			
	Victoria Lineage	Yamagata Lineage	Lineage Pending	Total	Victoria Lineage	Yamagata Lineage	Lineage Pending	Total
0-4	0	0	0	0 (0%)	0	22	1	23 (5%)
5-17	0	0	0	0 (0%)	0	83	1	84 (17%)
18-24	0	0	0	0 (0%)	1	54	0	55 (11%)
25-49	0	0	0	0 (0%)	1	60	0	61 (13%)
50-64	0	0	0	0 (0%)	0	73	1	74 (15%)
>64	0	0	0	0 (0%)	0	185	0	185 (38%)
Total	0 (0%)	0 (0%)	0 (0%)	0	2 (0%)	477 (99%)	3 (1%)	482

Note: Cell counts of three or less are sometimes suppressed to protect confidentiality. Totals by age may not add up to totals by subtype/lineage due to missing age information. Only cases of Iowa residents are included.



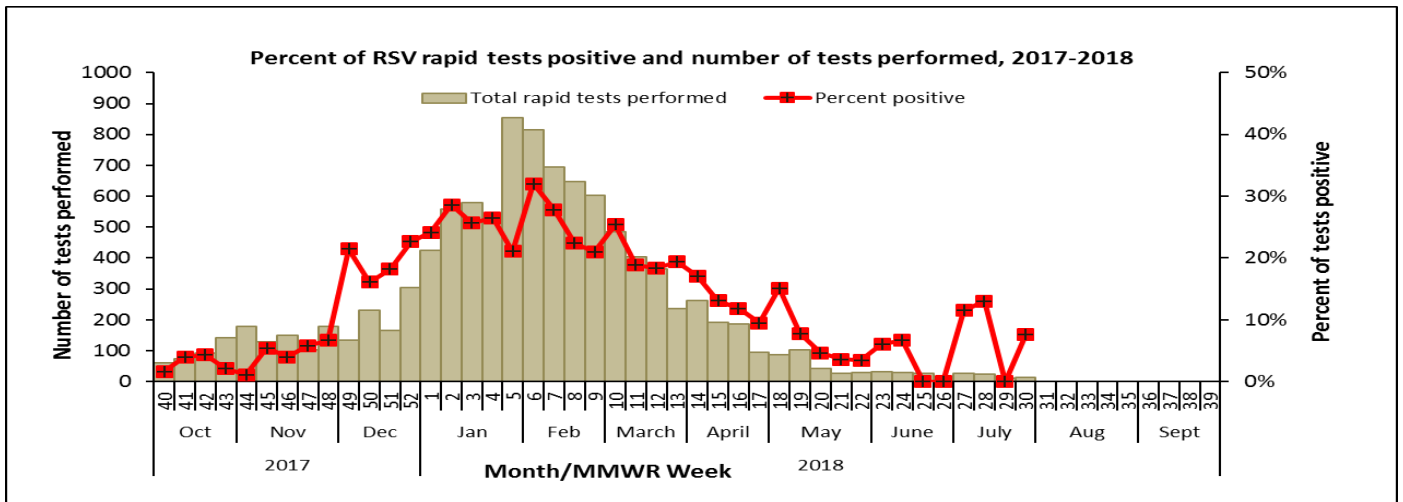
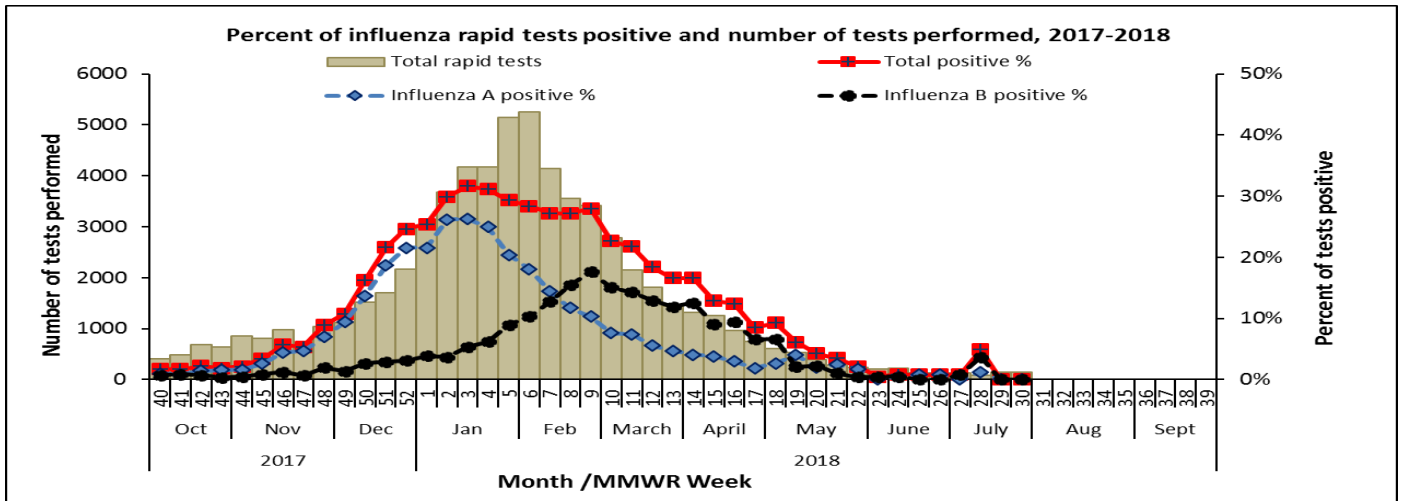
Rapid influenza and RSV test surveillance:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

Table 3: Percent of influenza rapid tests positive and number of tests performed by region for the present week

REGION*	RAPID INFLUENZA TESTS - CURRENT MONTH				RAPID RSV TESTS - CURRENT MONTH		
	Tested	Flu A	Flu B	% Positive	Tested	Positive	% Positive
Region 1 (Central)	59	0	2	3	4	0	0
Region 2 (NE)	10	0	0	0	3	0	0
Region 3 (NW)	27	0	0	0	24	0	0
Region 4 (SW)	4	0	0	0	1	0	0
Region 5 (SE)	23	0	0	0	16	0	0
Region 6 (Eastern)	372	1	2	1	24	7	29
Total	495	1	4	1	72	7	10

Note: See map near the end of the report for a display of the counties in each region.



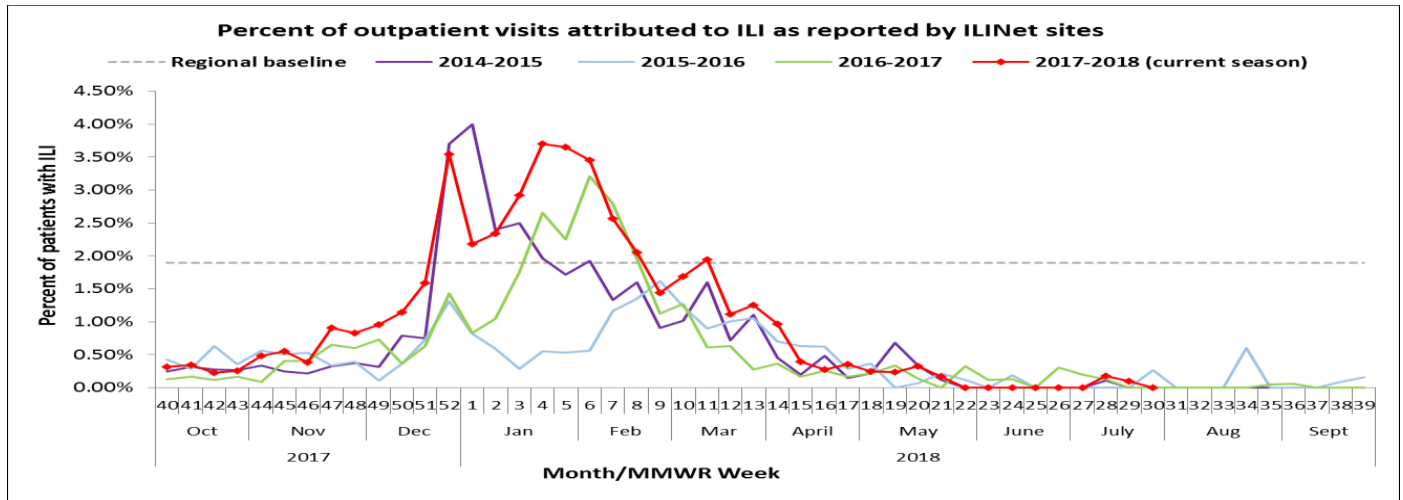
Outpatient health care provider surveillance program (ILINet):

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 Iowa’s influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or andy.weigel@idph.iowa.gov for more information.

Table 4: Outpatient visits for influenza-like illness (ILI)

Week	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age > 64	Total ILI	ILI Percent
Week 27, ending July 7	0	0	0	0	0	0	0.00
Week 28, ending July 14	2	0	0	0	0	2	0.18
Week 29, ending July 21	1	0	0	0	0	1	0.10
Week 30, ending July 28	0	0	0	0	0	0	0.00

Note: Influenza-like illness is defined as a fever of $\geq 100^{\circ}$ F as well as cough and/or sore throat.

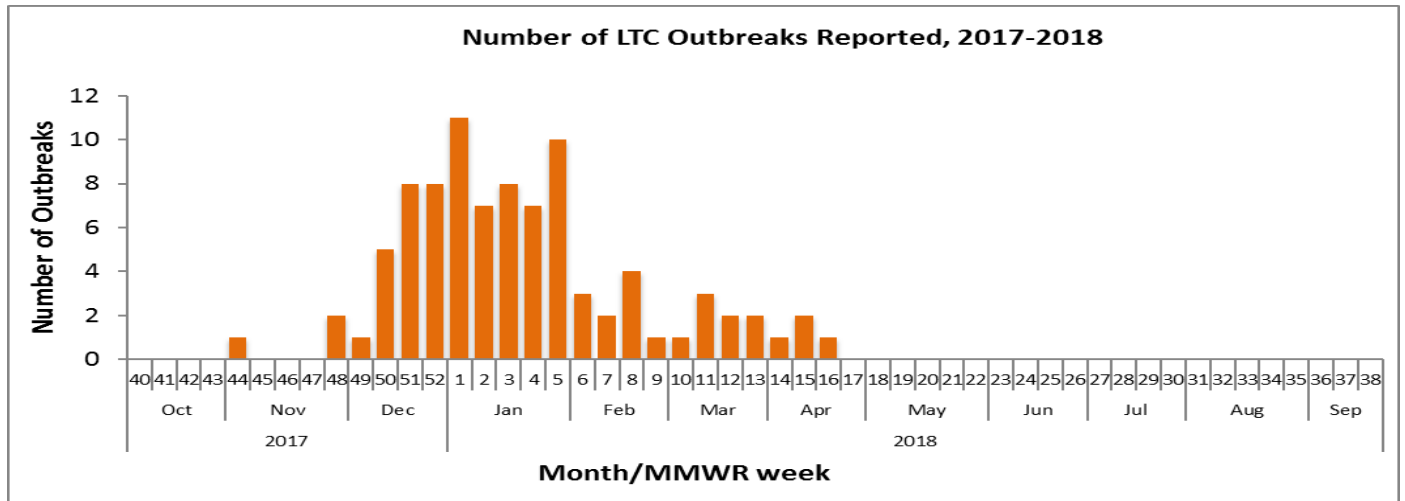


Long-term care outbreaks:

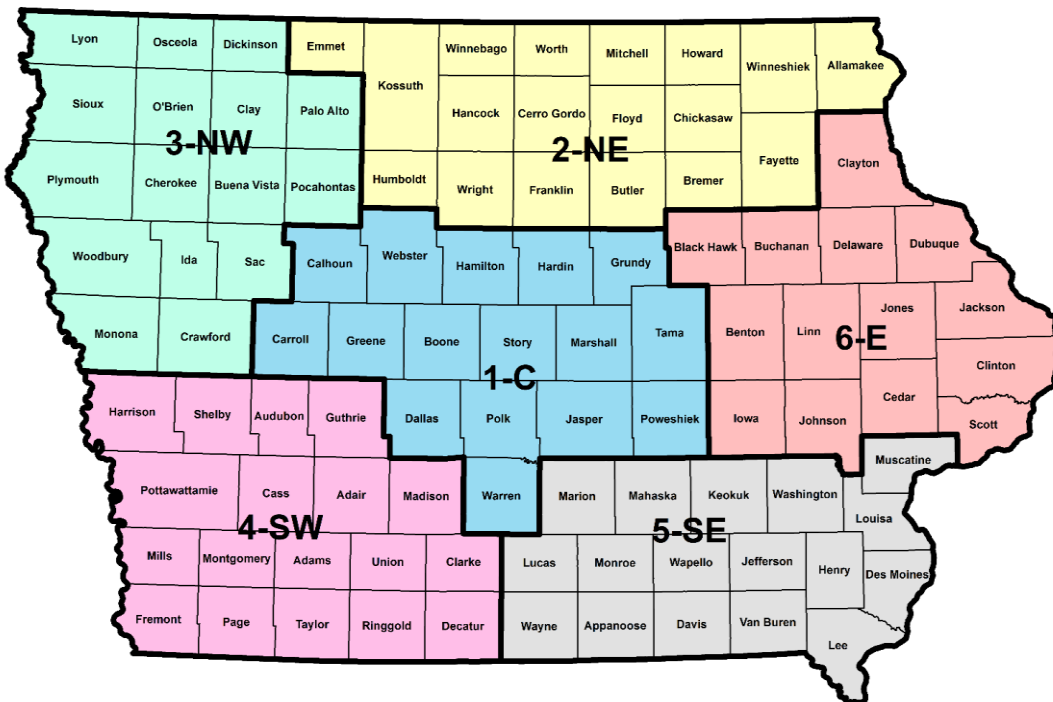
Table 5: Number of long-term care outbreaks investigated

REGION	CURRENT MONTH	CUMULATIVE (10/1/17 – CURRENT WEEK)
Region 1 (Central)	0	21
Region 2 (NE)	0	12
Region 3 (NW)	0	5
Region 4 (SW)	0	13
Region 5 (SE)	0	19
Region 6 (Eastern)	0	20
Total	0	90

Note: See map near the end of the report for a display of the counties in each region.



Map of Iowa counties by influenza region

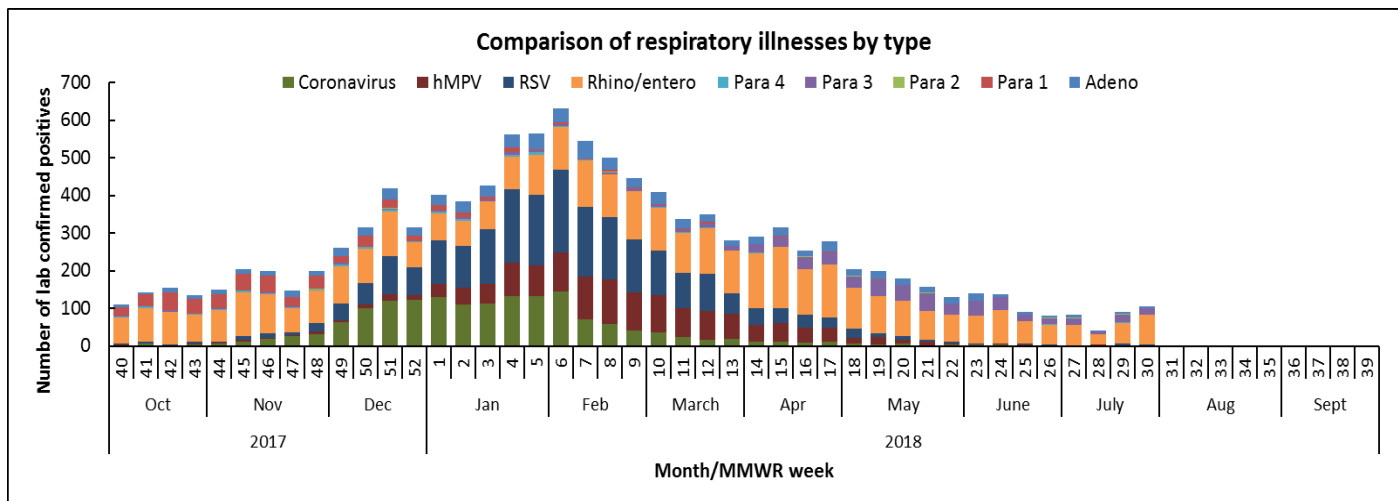


Non-influenza respiratory viruses:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of positive tests for non-influenza respiratory viruses. This table also includes the positive non-influenza virus tests reported from the Dunes Medical Laboratories at Mercy Medical Center in Sioux City. The table includes only the number of positive tests at laboratory surveillance sites throughout the state. The table does not provide case counts.

Table 8: Number of positive results for non-influenza respiratory virus collected by SHL, Mercy Dunes in Sioux City and Iowa Methodist Medical Center

Viruses	CURRENT MONTH	CUMULATIVE (10/1/17 – CURRENT WEEK)
Adenovirus	20	822
Parainfluenza Virus Type 1	0	488
Parainfluenza Virus Type 2	6	22
Parainfluenza Virus Type 3	62	580
Parainfluenza Virus Type 4	2	74
Rhinovirus/Enterovirus	215	4008
Respiratory syncytial virus (RSV)	6	2380
Human metapneumovirus (hMPV)	3	1364
Coronavirus	5	1614
Total	319	11352



Other resources:

Vaccine:

Influenza vaccine recommendation: idph.iowa.gov/immtb/immunization/vaccine

CDC vaccine information: www.cdc.gov/flu/fag/flu-vaccine-types.htm

Vaccine finder: <http://vaccinefinder.org/>

Neighboring states' influenza information:

Illinois: www.dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance

Minnesota: www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: doh.sd.gov/diseases/infectious/flu/

Wisconsin: flu.wisconsin.gov/