

Influenza Surveillance Report

Division of Epidemiology - Disease Surveillance and Investigation
District of Columbia Department of Health

2014-2015 Influenza Season Week 8 (February 22, 2015 – February 28, 2015)

(All data are preliminary and may change as more reports are received)

SUMMARY

- 13 cases of Influenza were reported by hospitals during this reporting period
- 2 additional cases were reported for week 7
- Zero pediatric-deaths associated with Influenza were recorded during this reporting period
- For the 2014-2015 Influenza Season to-date, 821 positive Influenza cases have been reported
- The DC PHL tested three specimens for week 8, all negative, for a total of 146 out of 195 (74.87%) specimens testing positive for influenza
- Week 8 of the current 2014-2015 season has been on par or less severe than the past two seasons, and activity has dropped since last week

INFLUENZA SURVEILLANCE FROM HOSPITALS & AMBULATORY CARE FACILITIES

District of Columbia hospitals and laboratories report detailed information on cases of Influenza on a daily basis. However, in accordance with CDC guidelines, only Influenza-associated deaths in cases <18 years of age and Novel Influenza A infections are reportable.

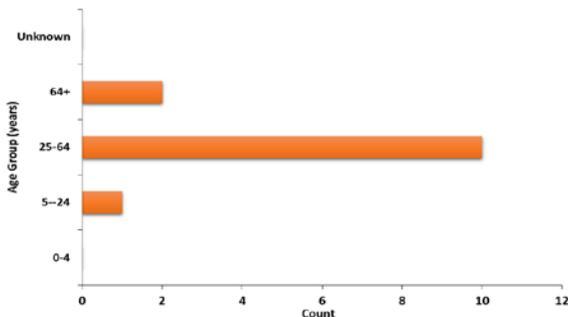
The table below summarizes weekly and cumulative cases of Influenza for the 2014-2015 Season. Data are also presented by age group and by number of cases reported weekly. During week 8 (February 22, 2015– February 28, 2015), there were 13 new cases of Influenza reported. 2 additional cases were reported for week 7 as well. To date, the District has received 821 positive Influenza cases reported by hospitals.

Surveillance of Influenza Cases Reported By Influenza Type

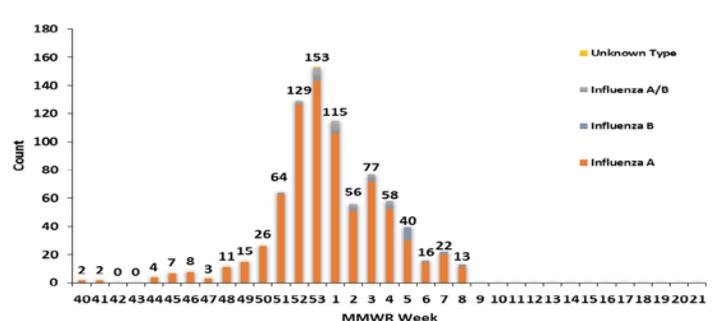
	Week 8 (February 22, 2015– February 28, 2015)		Cumulative Cases for Weeks 40 – 20 (September 28, 2014 – May 23, 2015)	
	Count	Percentage	Count	Percentage
Influenza A	11	(84.62%)	766	(93.30%)
Influenza B	2	(15.38%)	23	(2.80%)
Influenza A/B	0	(0%)	31	(3.78%)
Influenza (not typed)	0	(0%)	1	(0.12%)
Total	13*	(100%)	821*	(100.0%)

*Includes results from Rapid Diagnostic Testing, Viral Culture, RT-PCR, Serology, and Immunofluorescence.

Positive Influenza Tests, by Age Group
Week 8 (22Feb2015 - 28Feb2015)



Positive Influenza Tests by Week
September 28 2014 - May 23, 2015



RAPID DIAGNOSTIC TESTING

Rapid Diagnostic Tests are screening tests used to detect the Influenza virus in a short period of time. While initially less accurate than PCR and viral culture, rapid diagnostics are more accurate as the Influenza season progresses. During week 8, 148 out of a total of 171 tests were performed using rapid diagnostic testing in clinical laboratories. Of these, 13 (8.78%) positive Influenza specimens were identified during week 8 using rapid diagnostics.

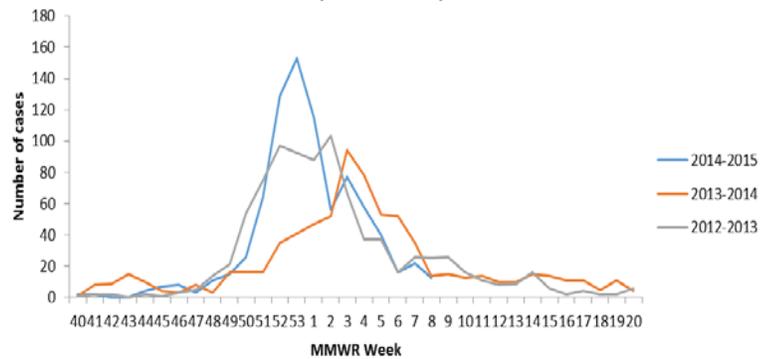
Week: 8 (February 22, 2015 – February 28, 2015)	
No. of specimens tested Rapid Diagnostics	148
No. of positive specimens (%)	13 (8.78%)
Positive specimens by type/subtype	
Influenza A	11 (84.62%)
Influenza B	2 (15.38%)
Influenza A/B	0 (0%)
Influenza – unknown type	0 (0%)

WEEK 8 COMPARISON WITH PREVIOUS SEASONS

For week 8, there were 13 cases in the current 2014-2015 season, 14 cases in last year’s week 8, 2013-2014 season, and 25 cases during week 8 in the 2012-2013 season.

As there are 53 weeks in the current season compared to other years, the counts for weeks 53 and 1 of this year have been averaged into week 1. Using this method, cumulatively, there are a total of 687 cases of influenza in the district up to week 8 for the current 2014-2015 season, 569 for last year’s 2013-2014 season, and 676 for the 2012-2013.

Number of Cases as of Week 7 for 2012-2013, 2013-2014, 2014-2015



INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE

Sentinel surveillance for ILI consists of three outpatient reporting sites for the District of Columbia. The sentinel surveillance sites report the total number of ILI cases encountered per week and the total number of patients seen at the clinic during that same week. For this system, ILI is defined as the existence of fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a known cause other than Influenza.

For week 8, sentinel providers reported 98 of 1683 (5.82%) visits that met the criteria for ILI.

Sentinel Surveillance ILI Activity for Washington, DC

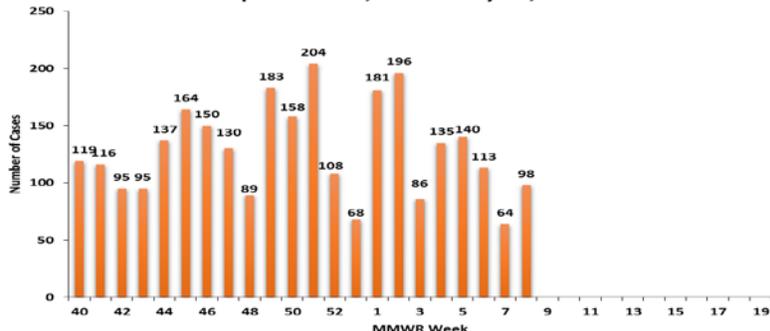
Week of	Activity *
Feb 22 – Feb 28	Local

***No Activity** – overall clinical activity remains low and there are no lab confirmed Influenza cases;

Sporadic – isolated lab confirmed Influenza cases reported and ILI activity is not increased;

Local – increased ILI activity and recent lab confirmed Influenza cases. As the District of Columbia is not a state, this is the highest level of ILI activity it can report.

Influenza-Like Illness Reported by MMWR Weekly September 28, 2014 - May 23, 2015



INFLUENZA TESTING BY THE DISTRICT OF COLUMBIA PUBLIC HEALTH LABORATORY (DC PHL)

The DC PHL subtypes human isolates to monitor the circulating strains of Influenza. The isolates are submitted to the DC PHL by hospitals and commercial laboratories. Three specimens tested negative in week 8, for a total of 146 positive specimens of 195 tested (74.87%), all of which have been influenza A H3.

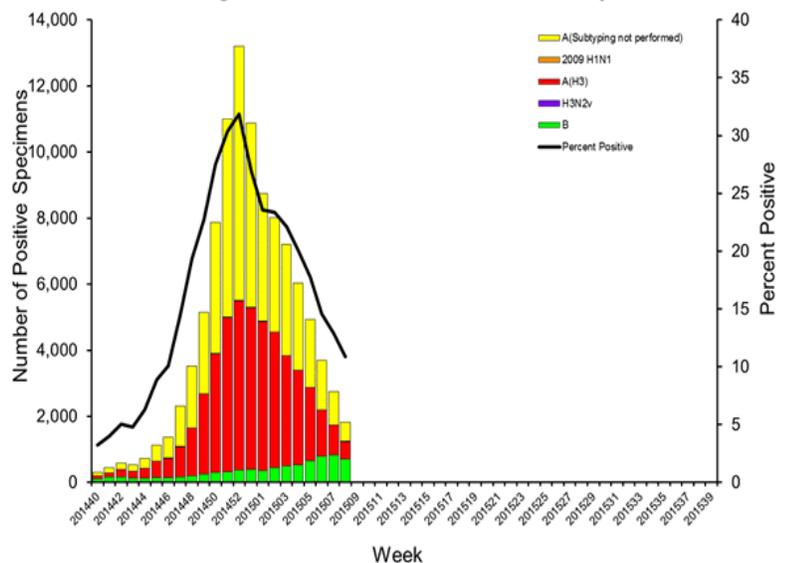
DC PHL Surveillance of Influenza Cases Reported By Influenza Subtype

DC PHL Influenza Testing	February 22, 2015 – February 28, 2015	Total Cases September 28, 2014 – May 23, 2015
Number of specimens tested	3	195
◆ Number of specimens positive for Influenza:	0 (0%)	146 (74.87%)
● Influenza A	0 (0%)	146 (100%)
▪ H1 2009 H1N1	0 (0%)	0 (0%)
▪ H1 seasonal	0 (0%)	0 (0%)
▪ H3	0 (0%)	146 (100%)
● Influenza B	0 (0%)	0 (0%)

NATIONAL INFLUENZA ASSESSMENT

The CDC's weekly seasonal Influenza surveillance report for week 8 noted that Influenza activity decreased, but continued at elevated levels in the United States. The proportion of deaths due to Influenza and pneumonia in the US was at the epidemic threshold. Six Influenza-associated pediatric deaths were reported to the CDC during week 8, of which five were associated with an A(H3) virus and one associated with an influenza A(H1N1) virus during the 2013-2014 season. For the 2014-2015 season, a total of 97 pediatric deaths associated with Influenza has been reported in the US. During week 8, 16,821 specimens were tested, of which 1,834 (10.9%) were positive. Of the 1,834 respiratory specimens that tested positive during week 8, 1,128 (61.5%) were Influenza A and 706 (38.5%) were Influenza B. Of the Influenza A samples, 11 (1.0%) were 2009 H1N1, 524 (46.5%) were H3, and 593 (52.6%) were not subtyped.

Influenza Positive Tests Reported to CDC by U.S. WHO/NREVSS Collaborating Laboratories, National Summary, 2014-15



Get Vaccinated!

To find an Influenza vaccine provider, visit the District of Columbia Immunization Resource Center at <http://doh.dc.gov/node/190532>



For additional information about Influenza and Influenza activity in the United States, please visit: <http://www.cdc.gov/flu/index.htm>. Questions about Influenza in the District of Columbia or this report should be directed to the Division of Epidemiology - Disease Surveillance and Investigation at (202) 442-9150 or email keith.li@dc.gov.