

Influenza Surveillance Report

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

2014-2015 Influenza Season Week 52 (December 21, 2014 – December 27, 2014)

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

SUMMARY

- 118 cases of Influenza were reported by hospitals during this reporting period.
- 20 additional cases were reported for week 51.
- Zero pediatric-deaths associated with Influenza were recorded during this reporting period.
- For the 2014-2015 Influenza Season to-date, 248 positive Influenza cases have been reported.
- The DC PHL reported no specimens tested this week, for a total of 1 of 11 tests positive this season.
- As of the end of the current reporting period, the season has been more severe than last year's mild season but is on par with seasons before last.

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.

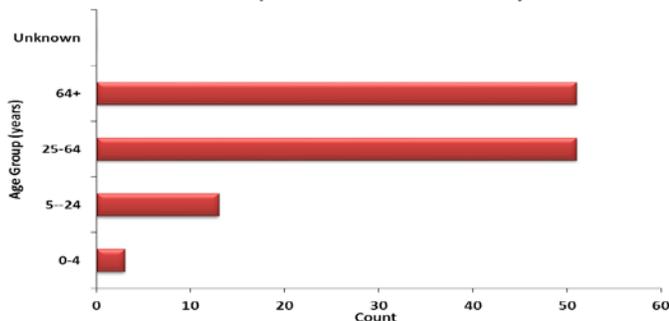
The table below summarizes weekly and cumulative cases of Influenza for the 2014-2015 Season. Data are also presented by age group and by number of cases reported weekly. During week 52 (December 21, 2014– December 27, 2014), there were 118 new cases of Influenza reported. 20 additional cases were also reported for week 51. To date, the District has received 248 positive Influenza cases reported by hospitals.

Surveillance of Influenza Cases Reported By Influenza Type

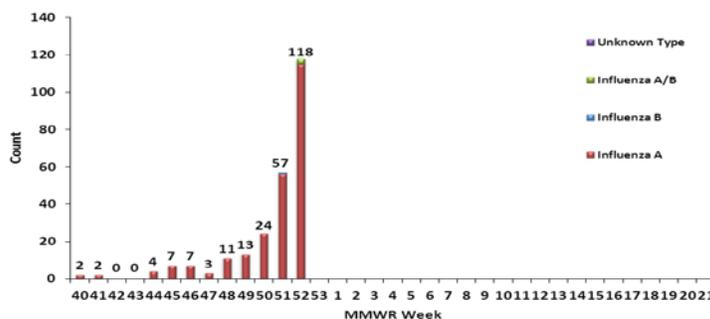
	Week 52 (December 21, 2014– December 27, 2014)		Cumulative Cases for Weeks 40 – 20 (September 28, 2014 – May 23, 2015)	
	Count	Percentage	Count	Percentage
Influenza A	115	(97.46%)	244	(98.39%)
Influenza B	0	(0%)	1	(0.40%)
Influenza A/B	3	(2.54%)	3	(1.21%)
Influenza (not typed)	0	(0%)	0	(0%)
Total	118*	(100%)	248*	(100.0%)

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

Positive Influenza Tests, by Age Group
Week 52 (21 Dec 2014 - 27 Dec 2014)



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 52, 501 out of a total of 532 tests were performed using rapid diagnostic testing in clinical laboratories. Of these, 116 (23.2%) positive Influenza specimens were identified during week 52 using rapid diagnostics.

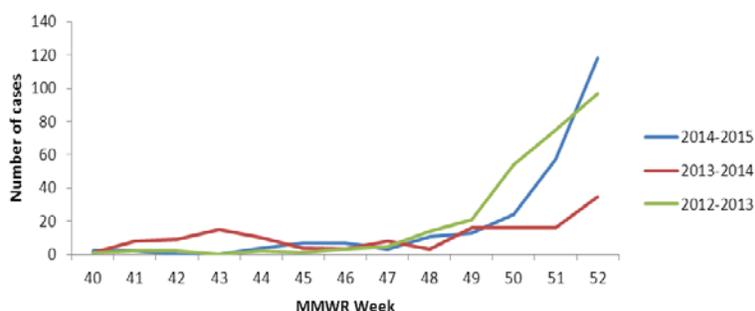
Week: 52 (December 21, 2014– December 27, 2014)	
No. of specimens tested Rapid Diagnostics	501
No. of positive specimens (%)	116 (23.2%)
Positive specimens by type/subtype	
Influenza A	113 (97.4%)
Influenza B	0 (0%)
Influenza A/B	3 (2.6%)
Influenza – unknown type	0 (0%)

WEEK 52 COMPARISON WITH PREVIOUS SEASONS

For week 52, there were 118 cases in the current 2014-2015 season, 35 cases in last year’s week 52, 2013-2014 season, and 97 cases during week 52 in the 2012-2013 season.

Cumulatively, there are a total of 248 cases of influenza in the district up to week 52 for the current 2014-2015 season, 144 for last year’s 2013-2014 season, and 277 for the 2012-2013.

Number of Cases as of Week 52 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 52, sentinel providers reported 108 visits that met the criteria for ILI. In addition, 204 ILI visits were reported for week 51.

Sentinel Surveillance ILI Activity for Washington, DC

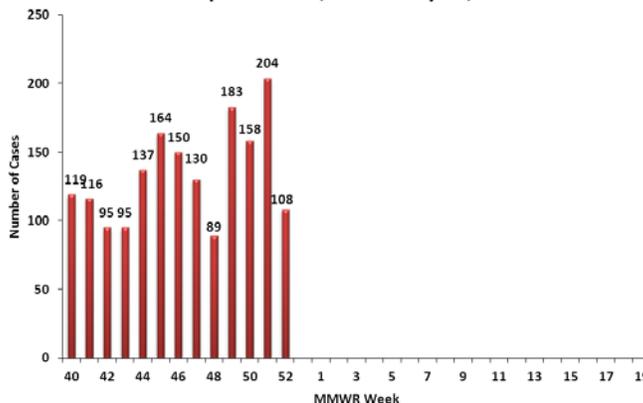
Week of	Activity *
Dec 21 – Dec 27	Local

***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. No specimens were reported by the PHL for week 51

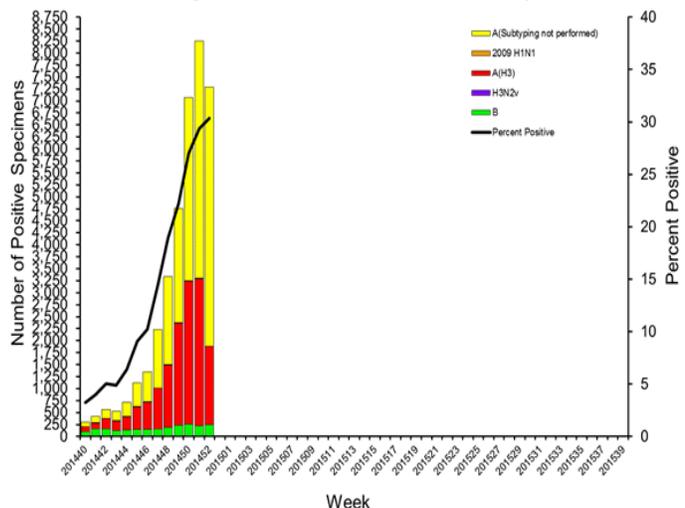
DC PHL Surveillance of Influenza Cases Reported By Influenza Subtype

DC PHL Influenza Testing	December 14, 2014 – December 20, 2014	Total Cases September 28, 2014 – May 23, 2015
Number of specimens tested	0	11
◆ Number of specimens positive for Influenza:	0 (0%)	1 (0.91%)
● Influenza A	0 (0%)	1 (100%)
▪ H1 2009 H1N1	0 (0%)	0 (0%)
▪ H1 seasonal	0 (0%)	0 (0%)
▪ H3	0 (0%)	1 (100%)
● Influenza B	0 (0%)	0 (0%)

NATIONAL INFLUENZA ASSESSMENT

The CDC's weekly seasonal Influenza surveillance report for week 52 noted that Influenza activity continued to increase in the United States. The proportion of deaths due to Influenza and pneumonia in the US was below the epidemic threshold. Six Influenza-associated pediatric deaths were reported to the CDC during week 52, three associated with an influenza A (H3) virus, two associated with an untyped A virus, and one with an influenza virus that was not typed at all virus. For the 2014-2015 season, a total of 21 pediatric death associated with Influenza has been reported in the US. During week 52, 24,001 specimens were tested, of which 7,289 (30.4%) were positive. Of the 7,289 respiratory specimens that tested positive during week 52, 7,041 (96.6%) were Influenza A and 248 (3.4%) were Influenza B. Of the Influenza A samples, 6 (0.1%) were 2009 H1N1, 1,635 (23.9%) were H3, and 5,400 (76.7%) 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.