

Influenza Surveillance Report

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

2017-2018 Influenza Season Week 19 (May 6th, 2018 – May 12th, 2018)

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

SUMMARY

- 7 new cases of influenza were reported by hospitals during this reporting period
- Zero pediatric deaths were reported during this period
- For the 2017-2018 influenza season to-date, 2926 positive influenza cases have been reported
- For the 2017-2018 influenza season, DC PHL has completed testing for 451 specimens
- Flu activity has decreased since previous week and continued to decrease in the District of Columbia

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. We also request that Influenza hospitalizations be reported if possible.

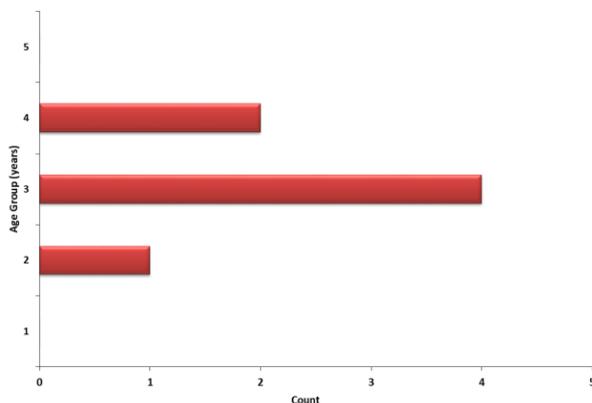
The table below summarizes weekly and cumulative cases of Influenza for the 2017-2018 Season. Data are also presented by age group and by number of cases reported weekly. During week 19 (May 6th, 2018 - May 12th, 2018), there were 7 new cases of influenza reported. A total of 236 tests were performed during week 19. To date, the District has received 2926 positive influenza cases reported by all nine hospitals.

Surveillance of Influenza Cases Reported By Influenza Type

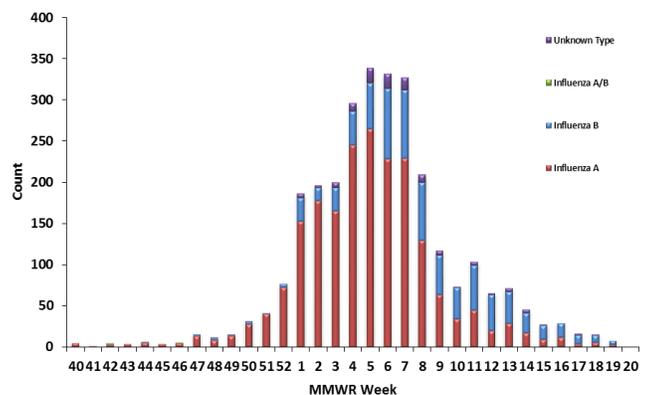
	Week 19 (May 06,2018-May 12,2018)		Cumulative Positive Cases for Weeks 40–20 (October 1, 2017–May 19, 2018)	
Influenza A	2	(28.57 %)	2076	(70.95%)
Influenza B	5	(71.43%)	732	(25.01%)
Influenza A/B	0	(0.00 %)	3	(0.10%)
Influenza (not typed)	0	(0.00%)	115	(3.94%)
Total	7*	(100.00%)	2926*	(100.00%)

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

Positive Influenza Tests, by Age Group
Week 19 (6thMay18-12thMay18)



Positive Influenza Tests by Reporting Week
October 1, 2017 - May 19, 2018



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 19, 89 out of a total of 236 tests were performed using rapid diagnostic testing in clinical laboratories. Of these, 2 (2.24%) positive Influenza specimens were identified using rapid diagnostics.

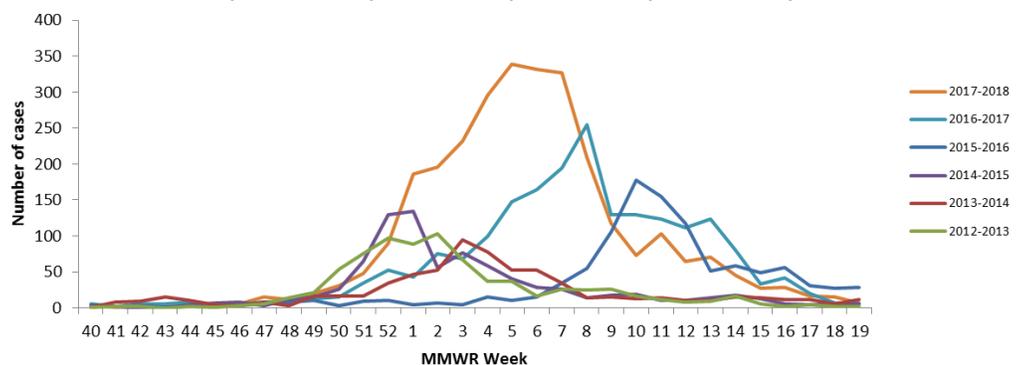
Week: 19 (May 06, 2018 – May 12, 2018)	
No. of specimens tested Rapid Diagnostics	89
No. of positive specimens (%)	2 (2.24%)
Positive specimens by type/subtype	
Influenza A	1 (50.00%)
Influenza B	1(50.00%)
Influenza A/B	0 (0.00%)
Influenza – unknown type	0 (0.00%)

WEEK 19 COMPARISON WITH PREVIOUS SEASONS

For week 19, there were 7 new cases reported in the current 2017-2018 season, 5 cases in last year's 2016-2017 season, 28 cases in the 2015-2016 season, 5 cases in the 2014-2015 season, 11 in the 2013-2014 season, and 2 in the 2012-2013 season.

Cumulatively, there are a total of 2926 cases in the District up to week 19 for the current season, 2020 during the 2016-2017 season, 1068 during the 2015-2016 season, 824 in the 2014-2015 season, 698 in the 2013-2014 season, and 778 in the 2012-2013 season.

Number of Cases as of Week 19 for 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018



INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE

Sentinel surveillance for ILI consists of five 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 19, sentinel providers reported 261 out of 14638 visits (1.78 %) that met the criteria for ILI.

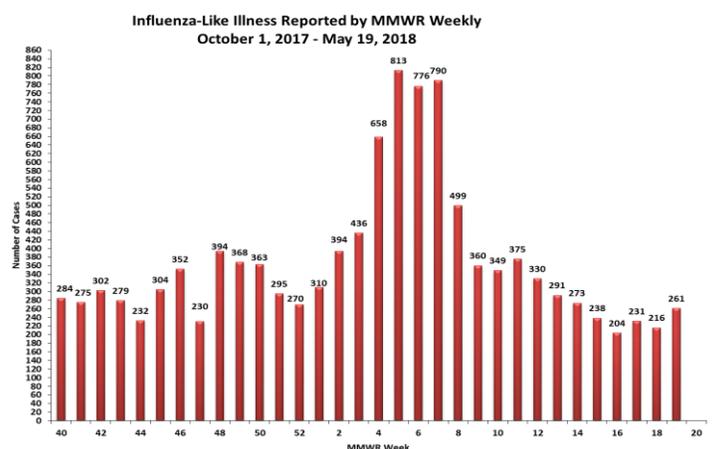
Geographic Spread of Influenza for Washington, DC

Week of	Activity *
May 06- May 12	<i>Sporadic</i>

***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 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 on a monthly basis. DC PHL has completed testing for 451 specimens submitted through May 15, 2018.

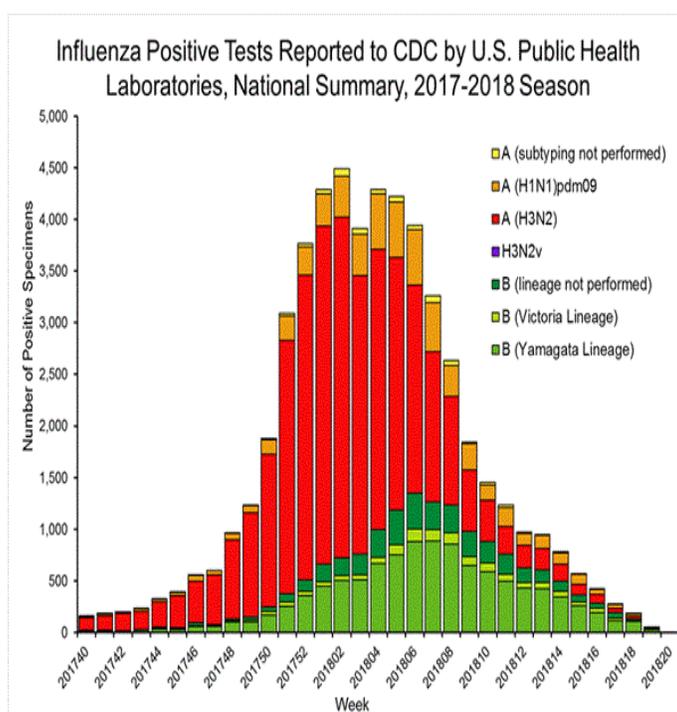
DC PHL Surveillance of Influenza Cases Reported By Influenza Subtype*

DC PHL Influenza Testing	May 09, 2018 – May 15, ,2018	Nov 22 , 2017-May 15, 2018
Number of specimens tested	13	451
Number of positive specimens	8	268
Influenza A	6(75.00%)	193 (72.02%)
A(H1N1)pdm09	2	44
H3N2	4	149
Influenza B	2 (25.00%)	75 (27.98%)
Yamagata lineage	1	68
Victoria lineage	1	7

* Includes specimens submitted through May 15, 2018

NATIONAL INFLUENZA ASSESSMENT

The CDC's weekly seasonal Influenza surveillance report for week 19 noted that influenza activity continued to decrease in the United States. The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold. Three influenza-associated pediatric deaths were reported to CDC during week 19 for the current season. One death was associated with an influenza A (H1N1) pdm09 virus and occurred during week 16. One death was associated with an influenza B virus and occurred during week 19. One death was associated with an influenza virus for which type was not determined and occurred during week 14. For the 2017-2018 season, 168 pediatric deaths associated with Influenza have been reported in the US. During week 19, 268 specimens were tested by public health laboratories, of which 48 were positive. Of the 48 respiratory specimens that tested positive during week 19, 13 (27.1%) were Influenza A and 35 (72.9%) were Influenza B. Of the Influenza A samples, 6 (46.2%) were 2009 H1N1, 6 (46.2 %) were H3N2, and 1 (7.7%) was un-typed.



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) 442-8141 or email flu.epi@dc.gov