

Influenza Surveillance Report

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

2015-2016 Influenza Season Week 40 (October 4, 2015 – October 10, 2015)

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

SUMMARY

- 4 case of Influenza was reported by hospitals during this reporting period
- Zero pediatric-deaths associated with Influenza were recorded during this reporting period
- For the 2015-2016 Influenza Season to-date, 4 positive Influenza cases have been reported
- DC PHL did not test any specimens for week 40
- The current season has started with a couple more cases than previous seasons.

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.

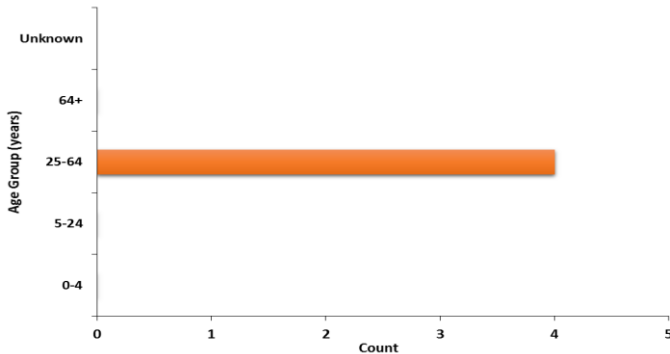
The table below summarizes weekly and cumulative cases of Influenza for the 2015-2016 Season. Data are also presented by age group and by number of cases reported weekly. During week 40 (October 4, 2015– October 10, 2015), there were 4 new cases of Influenza reported. To date, the District has received 4 positive Influenza cases reported by hospitals.

Surveillance of Influenza Cases Reported By Influenza Type

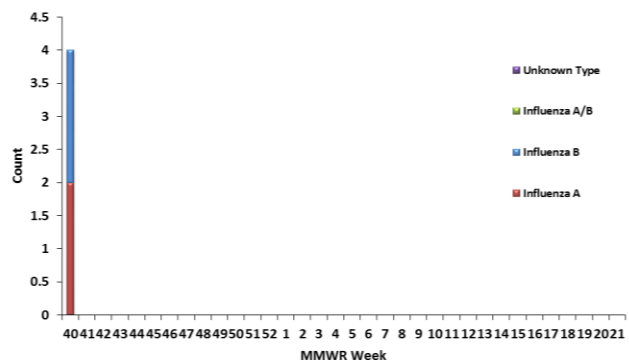
| | Week 40 (October 4, 2015– October 10, 2015) | | Cumulative Cases for Weeks 40 – 20 (October 4, 2015 – May 21, 2016) | |
|------------------------------|--|------------|--|------------|
| | Count | Percentage | Count | Percentage |
| Influenza A | 2 | (50%) | 2 | (50%) |
| Influenza B | 2 | (50%) | 2 | (50%) |
| Influenza A/B | 0 | (0%) | 0 | (0%) |
| Influenza (not typed) | 0 | (0%) | 0 | (0%) |
| Total | 4* | (100%) | 4* | (100.00%) |

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

Positive Influenza Tests, by Age Group
 Week 20 (17May2015 - 23May2015)



Positive Influenza Tests by Week
 October 4, 2015 - May 21, 2016



RAPID DIAGNOSTIC TESTING

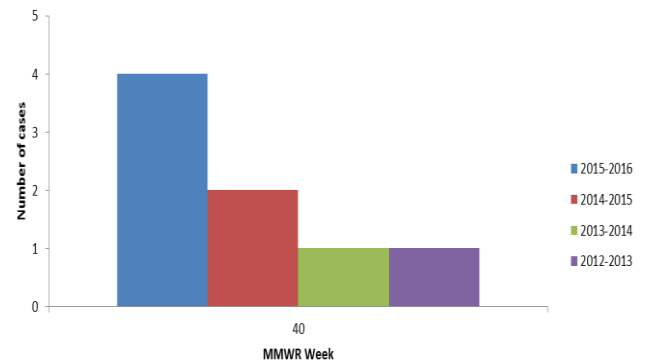
Rapid Diagnostic Tests are screening tests used to detect the Influenza virus in a short period of time. While initially less accurate than PCR and viral culture, rapid diagnostics are more accurate as the Influenza season progresses. During week 40, 70 out of a total of 146 tests were performed using rapid diagnostic testing in clinical laboratories. Of these, 3 positive Influenza specimen were identified during week 40 using rapid diagnostics.

| Week: 40 (Oct 4, 2015 – Oct 10, 2016) | |
|---|-----------|
| No. of specimens tested Rapid Diagnostics | 70 |
| No. of positive specimens (%) | 3 (4.28%) |
| Positive specimens by type/subtype | |
| Influenza A | 1 (33.3%) |
| Influenza B | 2 (66.7%) |
| Influenza A/B | 0 (0%) |
| Influenza – unknown type | 0 (0%) |

WEEK 20 COMPARISON WITH PREVIOUS SEASONS

For week 40, there were 4 case in the current 2015-2016 season, 2 cases in last year’s week 40, 2014-2015 season, and 1 case each during week 40 in the 2013-2014 and 2012-2013 seasons.

Number of Cases in Week 40 for 2012-2013, 2013-2014, 2014-2015, 2015-2016



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 40, sentinel providers did not report any ILI activity.

Sentinel Surveillance ILI Activity for Washington, DC

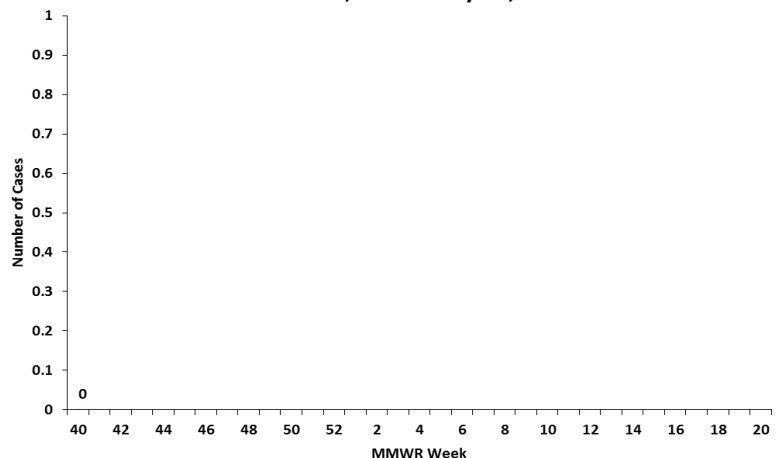
| Week of | Activity * |
|----------------|-------------|
| Oct 4 – Oct 10 | No Activity |

***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 October 4, 2015 - May 21, 2016



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. DC PHL did not test any specimens during week 40.

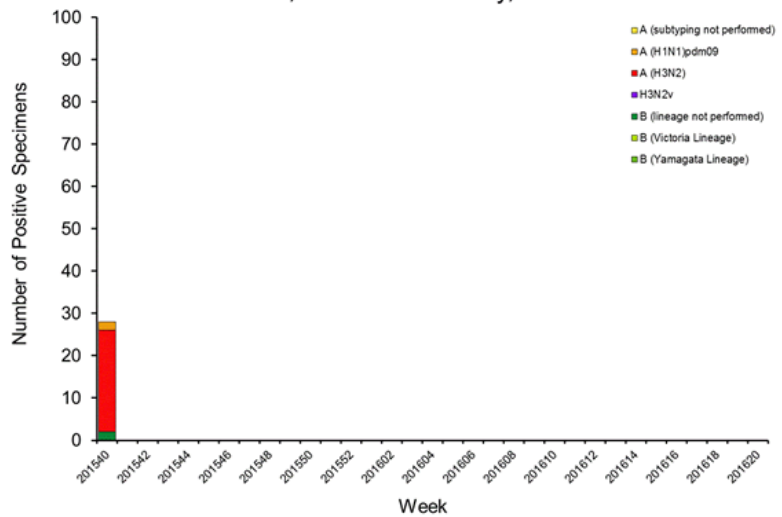
DC PHL Surveillance of Influenza Cases Reported By Influenza Subtype

| DC PHL Influenza Testing | October 4, 2015 – October 10, 2015 | Total Cases October 4, 2015 – May 21, 2016 |
|--|------------------------------------|---|
| Number of specimens tested | 0 | 0 |
| ◆ Number of specimens positive for Influenza: | 0 (0%) | 0 (0%) |
| ● Influenza A | 0 (0%) | 0 (0%) |
| ▪ H1 2009 H1N1 | 0 (0%) | 0 (0%) |
| ▪ H1 seasonal | 0 (0%) | 0 (0%) |
| ▪ H3 | 0 (0%) | 0 (0%) |
| ● Influenza B | 0 (0%) | 0 (0%) |

NATIONAL INFLUENZA ASSESSMENT

The CDC's weekly seasonal Influenza surveillance report for week 40 noted that influenza activity was low in the United States. The proportion of deaths due to Influenza and pneumonia in the US was below the epidemic threshold. No pediatric deaths were reported to the CDC during week 40. For the 2015-2016 season, a total of 0 pediatric deaths associated with Influenza has been reported in the US. During week 40, 436 specimens were tested, of which 28 were positive. Of the 28 respiratory specimens that tested positive during week 40, 26 (92.9%) were Influenza A and 2 (7.1%) were Influenza B. Of the Influenza A samples, 2 (7.7%) were 2009 H1N1, and 24 (92.3%) were H3.

Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2015-16 Season



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.