

Influenza Surveillance Report

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

2019-2020 Influenza Season Week 07 (February 09, 2020 – February 15, 2020) *(All data are preliminary and may change as more reports are received)*

SUMMARY

- 272 new cases of influenza were reported by hospitals during this reporting period
- Zero pediatric deaths were reported during this period
- For the 2019-2020 influenza season to-date, **2783** positive influenza cases have been reported
- DC Public Health Laboratory completed testing for 137 specimens during week 7
- Influenza activity decreased slightly from last week and continues to remain elevated

INFLUENZA SURVEILLANCE FROM HOSPITALS & AMBULATORY CARE FACILITIES

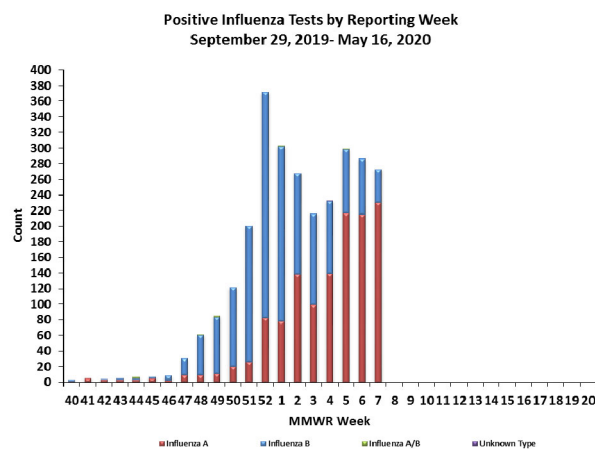
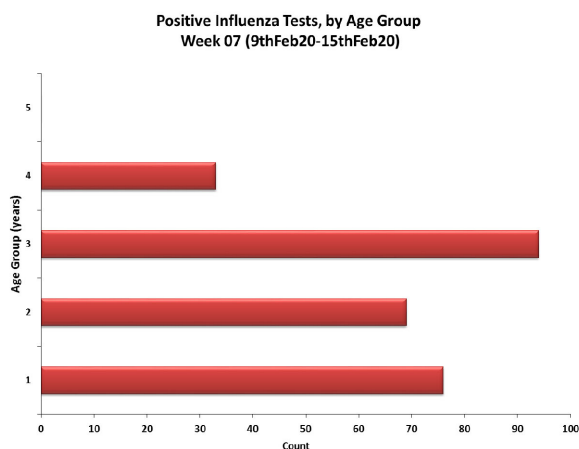
District of Columbia hospitals and laboratories report detailed information on cases of Influenza on a daily basis. However, in accordance with CDC guidelines, only Influenza-associated deaths in cases <18 years of age and Novel Influenza A infections are reportable. We also request that Influenza hospitalizations be reported if possible. The table below summarizes weekly and cumulative cases of Influenza for the 2019-2020 Season. Data are also presented by age group and by number of cases reported weekly. During week 07 (February 09, 2020 – February 15, 2020), there were 272 new cases of influenza reported. A total of 1287 tests were performed during week 07. To date, the District has received 2783 positive influenza cases reported by all seven hospitals.

Surveillance of Influenza Cases Reported By Influenza Type

| | Week 07 (February 09,2020- February 15,2020) | | Cumulative Positive Cases for Weeks 40–20 (October 05, 2019– May 16, 2020) | |
|------------------------------|---|------------|--|------------|
| | Count | Percentage | Count | Percentage |
| Influenza A | 230 | (84.55%) | 1295 | (46.53%) |
| Influenza B | 42 | (15.45%) | 1480 | (53.18%) |
| Influenza A/B | 0 | (0.00%) | 7 | (0.26%) |
| Influenza (not typed) | 0 | (0.00%) | 1 | (0.03%) |
| Total | 272* | (100.00%) | 2783* | (100.00%) |

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

**Age groups are classified as 1(0-4 years), 2 (5-24 years), 3(25-64 years), 4 (>64 years) & 5 (age not specified)



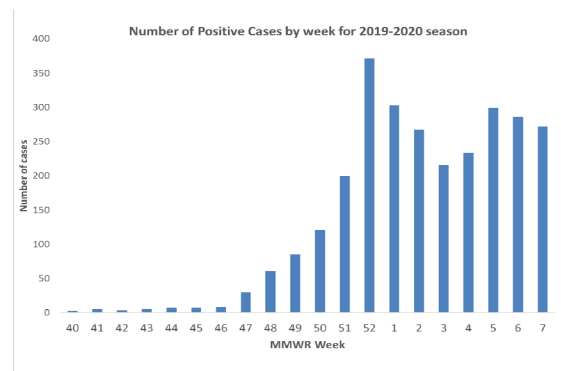
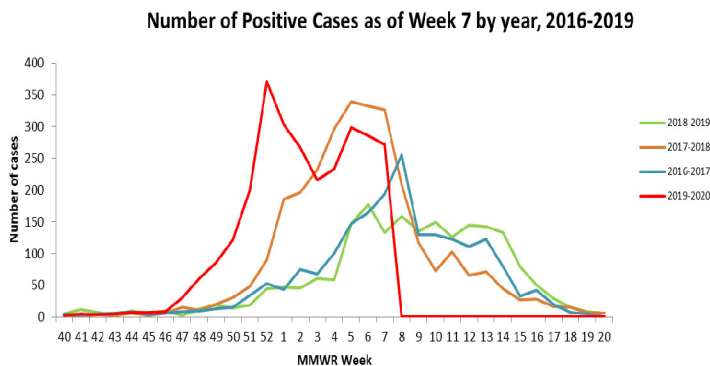
RAPID DIAGNOSTIC TESTING

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 7, 512 out of a total of tests were performed using rapid diagnostic testing in clinical laboratories. Of these, 57 (11.12%) positive Influenza specimens were identified using rapid diagnostics.

| Week: 07 (February 09, 2020 – February 15, 2020) | |
|--|------------|
| No. of specimens tested Rapid Diagnostics | 512 |
| No. of positive specimens (%) | 57(11.12%) |
| Positive specimens by type/subtype | |
| Influenza A | 49(85.96%) |
| Influenza B | 8 (14.04%) |
| Influenza A/B | 0 (0.0%) |
| Influenza – unknown type | 0 (0.0%) |

WEEK 7 COMPARISON WITH PREVIOUS SEASONS

For week 7, there were 272 new cases reported in the current 2019-2020 season, 133 cases in last year’s 2018-2019 season, 327 cases in the 2017-2018 season, 194 cases in the 2016-2017 season and 35 in the 2015-2016 season.



Cumulatively, there are a total of 2783 cases in the District up to week 07 for the current season, 833 during the 2018-2019 season, 2150 during the 2017-2018 season, 961 in the 2016-2017 season and 157 in the 2015-2016 season.

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 07, sentinel providers reported 466 out of 13957 visits (3.34%) that met the criteria for ILI.

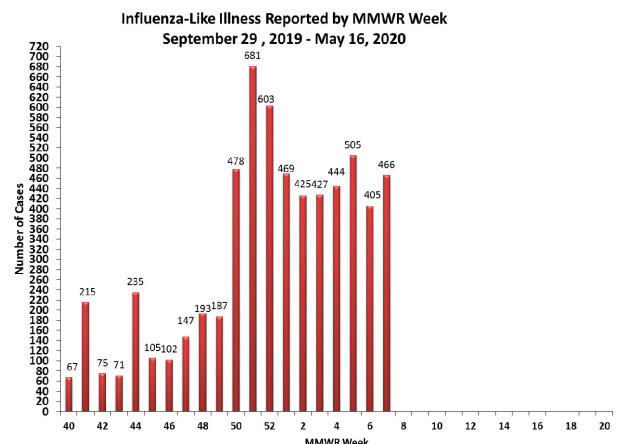
Geographic Spread of Influenza for Washington, DC

| Week of | Activity * |
|----------------|------------|
| Feb 09– Feb 15 | 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 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 completed testing for 137 specimens during week 07.

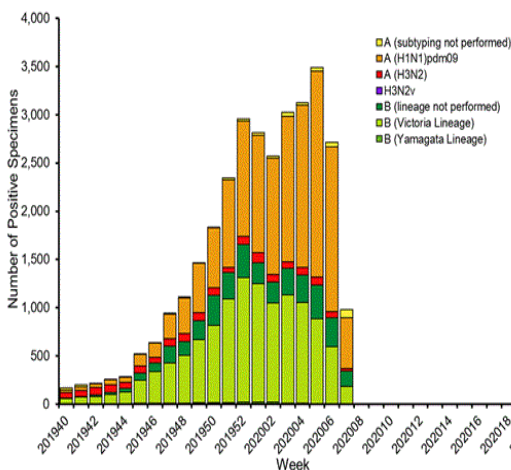
DC PHL Surveillance of Influenza Cases Reported By Influenza Subtype

| DC PHL Influenza Testing | Feb 09, 2020 – Feb 15, 2020 | Sep 29, 2019 -May 16, 2020 |
|-------------------------------------|-----------------------------|----------------------------|
| Number of specimens tested | 137 | 761 |
| Number of positive specimens | 84 (76.92%) | 199 |
| Influenza A | 59 (70.23%) | 88(44.22%) |
| A(H1N1)pdm09 | 57 | 80 |
| H3N2 | 2 | 8 |
| Influenza B | 25 (29.76%) | 111(55.77%) |
| Yamagata lineage | 0 | 0 |
| Victoria lineage | 25 | 111 |

NATIONAL INFLUENZA ASSESSMENT

Influenza activity in the United States decreased slightly this week but continues to remain high. The proportion of deaths attributed to pneumonia and influenza (P&I) is 7.3% but remains below the epidemic threshold. A total of 13 influenza-associated pediatric deaths occurring during the 2019-2020 season have been reported to CDC between weeks 2 and 7. Of the 105 influenza-associated deaths, there were 72 deaths associated with influenza B viruses and 33 deaths with influenza A viruses. During week 07, 1626 specimens were tested by public health laboratories, of which 981 were positive. Of the 981 respiratory specimens that tested positive during week 07, 637 (64.9%) were Influenza A and 344 (35.1%) were Influenza B. Of the Influenza A samples, 531 (96%) were 2009 H1N1, 22 (4%) were H3N2, and 84 were un-typed. Of the Influenza B samples, 180 (98.4%) were of the Victoria lineage, 3(1.6%) were of Yamagata lineage and 161 had no lineage test performed.

Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2019-2020 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) 442-9370 or email flu.epi@dc.gov

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