Maryland Weekly Influenza Surveillance Activity Report
A summary of influenza surveillance indicators reported to Maryland Department of Health (MDH) for the week ending April 11, 2020

Prepared by the Division of Infectious Disease Surveillance
Prevention and Health Promotion Administration
Maryland Department of Health
The data presented in this document are provisional and subject to change as additional reports are received. Percentages may not total 100 due to rounding.

SUMMARY

During the week ending April 11, 2020, influenza-like illness (ILI) activity in Maryland was HIGH and there was WIDESPREAD geographic activity. The percentage of outpatient visits for ILI reported by Sentinel Providers decreased from 5.6% to 5.0%. The percentage of outpatient visits for ILI reported by the Maryland Emergency Departments decreased. The percentage of specimens testing positive from clinical laboratories declined slightly from 2.0% to 1.9%. MDH Laboratories Administration reported a decrease in percent positive specimens for influenza. There were eleven influenza-associated hospitalizations. A total of fifty-seven deaths associated with influenza have occurred this season among hospitalized adults.

Note: An increasing number of individuals are seeking medical attention for respiratory illness due to COVID-19. This may be affecting influenza ILI activity.

ILINet Sentinel Providers
Fifty-nine providers reported a total of 23,331 visits this week. Of those, 1,164 (5.0%) were visits for ILI. This is ABOVE the Maryland baseline of 1.9%.

Visits to Emergency Departments for ILI
Emergency Departments in Maryland reported a total of 28,048 visits this week through the ESSENCE surveillance system. Of those, 1,307 (4.7%) were visits for ILI.

Neighboring states' influenza information:
Delaware http://dhss.delaware.gov/dph/epi/influenzahome.html
District of Columbia http://doh.dc.gov/service/influenza
Pennsylvania https://www.health.pa.gov/topics/disease/Flu/Pages/Flu.aspx
West Virginia http://dhr.wv.gov/oeps/disease/flu/Pages/fluSurveillance.aspx

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Community-based Influenza Surveillance (MRITS)
MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 604 residents responded to the MRITS survey this week. Of those, 2 (0.3%) reported having ILI and reported missing zero days of regular daily activities.

Clinical Laboratory Influenza Testing
There were 64 clinical laboratories reporting 1,607 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDTs). Of those, 31 (1.9%) were positive for influenza. Of those testing positive, 10 (32%) were influenza Type A and 21 (68%) were influenza Type B. The reliability of RIDTs depends largely on the conditions under which they are used. False-positive (and true-negative) results are more likely to occur when the disease prevalence in the community is low, which is generally at the beginning and end of the influenza season and during the summer.

State Laboratories Administration Influenza Testing
The MDH Laboratories Administration performed a total of 119 polymerase chain reaction (PCR) tests for influenza and 8 (6.7%) tested positive for influenza. PCR testing is more reliable than RIDT. The MDH testing identifies subtypes of influenza A and lineages of influenza B, information that is not available from the RIDT results. The table below summarizes results by type, subtype, and lineage.
Influenza-associated Hospitalizations
Eleven influenza-associated hospitalization cases were reported this week. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g., RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.) This surveillance is conducted as a component of the Maryland Emerging Infections Program.

Influenza-associated Deaths
An influenza-associated death is one with a clinically compatible illness and a positive influenza test of any kind.

**Pediatric Deaths:** A total of five pediatric (< 18 years of age) deaths have been reported to MDH this season. The most recent death occurred in week 7 (week ending February 15, 2020) and was associated with influenza B virus, while another death occurred in week 4 and was associated with influenza A virus. As previously reported, one death occurred in week 3 and was associated with influenza B virus; one death occurred during week 2 and one death occurred during week 1, both of which were associated with influenza B/Victoria virus. Influenza-associated pediatric mortality is a reportable condition in Maryland. Pediatric deaths are tracked without regard to hospitalization.

**Adult Deaths Among Hospitalized Patients:** Fifty-seven deaths have been reported among adults admitted to Maryland hospitals this influenza season. Influenza-associated adult mortality is not a reportable condition in Maryland. However, surveillance for mortality in hospitalized adults is conducted as a component of the Maryland Emerging Infections Program.

Outbreaks of Respiratory Disease
There were no non-COVID-19 respiratory outbreaks reported to MDH this week. (Disease outbreaks of any kind are reportable in Maryland. Respiratory outbreaks may be reclassified once a causative agent is detected, e.g., from ILI to influenza.)
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National Influenza Surveillance (CDC)
Laboratory confirmed flu activity as reported by clinical laboratories is now low. Influenza-like illness activity, while lower than last week, is still elevated. Influenza severity indicators remain moderate to low overall, but hospitalization rates differ by age group, with high rates among children and young adults.

- **Viral Surveillance:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 0.9% last week to 0.4% this week.
- **Influenza-like Illness Surveillance:** Visits to health care providers for influenza-like illness (ILI) decreased from 3.9% last week to 2.9% this week. 5 of 10 regions are at or above their baselines.
- **Geographic Spread of Influenza:** The number of jurisdictions reporting regional or widespread influenza activity decrease from 31 last week to 17 this week.
- **Pneumonia and Influenza Mortality:** The percentage of deaths attributed to pneumonia and influenza is 11.9%, above the epidemic threshold of 7.0%.
- **Influenza-associated Pediatric Deaths:** 2 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 168.
- **Outpatient Illness Surveillance:** Nationwide during week 15, 2.9% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is above the national baseline of 2.4%. (ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and cough and/or sore throat.) On a regional level, the percentage of outpatient visits for ILI ranged from 1.3% to 8.3% during week 15. The percent of outpatient visits for ILI decreased in all regions compared to last week. Regions 1, 2, 3, 5, and 10 reported a percentage of outpatient visits for ILI at or above their region-specific baselines. All other regions are below their region-specific baselines.

### Influenza Activity Levels: ILI Activity Levels and Influenza Geographic Activity Levels

#### ILI Activity Levels

One indicator we look at is the proportion of visits to sentinel providers for ILI. We compare these proportions to baseline numbers, and then categorize ILI activity levels as minimal, low, moderate, high, or very high.

#### Geographic Activity Levels

Influenza geographic activity levels are not a measure of severity of influenza in the region or state. These levels serve as a weekly estimate of where influenza could be circulating. Maryland estimates levels of geographic spread and reports them to the Centers for Disease Control and Prevention (CDC) using the following national definitions.

Note: Only laboratory confirmed influenza tests performed at the MDH Laboratories Administration are used in influenza geographic activity level calculations.

<table>
<thead>
<tr>
<th>Influenza Geographic Activity Levels</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td>No lab-confirmed cases</td>
</tr>
<tr>
<td>Sporadic</td>
<td>Small numbers of laboratory-confirmed influenza cases OR a single laboratory confirmed influenza outbreak has been reported, but there is no increase in cases of ILI</td>
</tr>
<tr>
<td>Local</td>
<td>Increased ILI in 1 region; ILI activity in other regions is not increased and recent (with the past 3 weeks) lab confirmed evidence of influenza in region with increase ILI OR 2 or more institutional outbreaks</td>
</tr>
<tr>
<td>Regional</td>
<td>Outbreaks of influenza OR increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions</td>
</tr>
<tr>
<td>Widespread</td>
<td>Outbreaks of influenza OR increases in ILI cases and recent laboratory confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state</td>
</tr>
</tbody>
</table>

**Where to get an influenza vaccination**

Interested in getting a flu vaccine for the 2019-20 influenza season? Go to [https://phpa.health.maryland.gov/influenza/Pages/getvaccinated.aspx](https://phpa.health.maryland.gov/influenza/Pages/getvaccinated.aspx) and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.