Michigan Flu Focus
Weekly Influenza Surveillance Report

The Michigan Department of Health & Human Services Bureau of Laboratories (MDHHS BOL) has recently updated their virology/microbiology test requisition form (DCH-0583) to collect patient status information. This is located below where you select influenza (PCR/culture) testing. Please update to the newest version (see link below) and include patient status at the time of specimen collection (inpatient, outpatient, or unknown) if available. Please contact MDHHS for any questions at 517-335-8165.


Influenza-associated Pediatric Mortality
One (1) pediatric influenza (A/H1N1-09) death has been confirmed by MDHHS for the 2018-2019 flu season. Nationally, 16 influenza-associated pediatric deaths have been reported thus far for the 2018-2019 flu season.
Regional baseline is developed by calculating the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

In the United States, 3.5% of outpatient visits were due to influenza-like illness (ILI), which is above the national baseline of 2.2%.

Become a sentinel provider!
Contact Shelly Doebler at DoeblerM@michigan.gov
Influenza Hospitalization Surveillance Project

The CDC Influenza Hospitalization Surveillance Project (IHSP) provides population-based rates of hospitalization due to severe influenza-related illness through active surveillance and chart review of lab-confirmed cases from Oct. 1, 2018 until Apr. 30, 2019, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. Since Oct. 1, there have been **121 (18 pediatric, 103 adult)** influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.
Laboratory Surveillance

Week Ending January 5

MDHHS Bureau of Laboratories reported 7 new positive influenza results (2C, 1N, 2SE, 2SW).

**Respiratory Virus Data**

<table>
<thead>
<tr>
<th>Respiratory Virus</th>
<th># Positive Respiratory Virus Results by Region</th>
<th>Overall Total</th>
<th>2017-18 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C</td>
<td>N</td>
<td>SE</td>
</tr>
<tr>
<td>2009 A/H1N1pdm</td>
<td>42</td>
<td>8</td>
<td>22</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>5</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Influenza B</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>47</td>
<td>11</td>
<td>30</td>
</tr>
</tbody>
</table>

**Influenza Positive Test Results, 2018-2019**

- **FLU A, unsubtypable**
- **H1N1**
- **H3**
- **FLU B, no subtype**
- **Victoria**
- **Yamagata**

Based on STARLIMS MDHHS BOL Testing Portal

Note: Flu B subtyping will be reported based on MDHHS BOL testing runs (roughly each month) and will be backtracked into this graph.

Most recent MDHHS BOL Flu B subtyping run: **January 10, 2019**

**Michigan Sentinel Clinical Lab Respiratory Virus Data**

Thirteen (13) sentinel clinical labs (3SE, 2SW, 7C, 1N) reported during this week.

**SE Region**
- Influenza A: moderate; some increases
- Influenza B: low
- Parainfluenza: low-moderate
- RSV: moderate-high; variable
- Adenovirus: low or slightly decreased
- hMPV: low or slightly increased

**Central Region**
- Influenza A: some increases
- Influenza B: no activity
- Parainfluenza: low
- RSV: low or some increases
- Adenovirus: low
- hMPV: low

**SW Region**
- Influenza A: moderate
- Influenza B: no activity
- Parainfluenza: low or slightly increased
- RSV: moderate; increasing
- Adenovirus: low
- hMPV: low

**North Region**
- Influenza A: low
- Influenza B: no activity
- Parainfluenza: no data available
- RSV: low; slightly increasing
- Adenovirus: no data available
- hMPV: no data available
There were no (0N, 0C, 0SE, 0SW) new respiratory viral outbreaks reported to MDHHS during this time period. Respiratory outbreaks for the 2018-2019 season are listed in the table below.

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
<th>Total</th>
<th>2016-2017 Total</th>
<th>2017-2018 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools: K-12 &amp; College</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>25</td>
<td>14</td>
</tr>
<tr>
<td>Long-term Care / Assisted Living Facility</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>138</td>
<td>238</td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>Daycare</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Homeless Shelter</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>5</td>
<td>195</td>
<td>270</td>
</tr>
</tbody>
</table>

**Did you know?**
Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department? See:
- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

**FluBytes**
- [US Flu Levels Rise as More Pediatric Deaths Reported](#)
- [Study Links ‘Presenteeism’ of Sick Health Care Workers to Flu Outbreak in Cancer Patients](#)
- [Flu Vaccine Tied to Fewer Hospitalizations of COPD Patients and WHO: Influenza Update](#)
- [Increased Adverse Birth Outcomes Linked to Pregnant Women with H1N1](#)

**MDHHS Contributors**
- **Bureau of Epidemiology and Population Health** – S. Bidol, MPH, S. Eckel, MPH, S. Kim, MPH
- **Bureau of Family Health Services** – M. Doebler, MPH
- **Bureau of Labs** – B. Robeson, MT, V. Vavricka, MS

For questions or to be added to the distribution list, please contact Sue Kim at KimS2@michigan.gov