The Michigan Department of Health and Human Services has confirmed Michigan’s first influenza-related pediatric death for the 2018-2019 flu season.

As a reminder, all influenza-related pediatric flu deaths are **required** to be reported. Please see link for additional guidance for influenza-related pediatric mortality investigations:


**Influenza-associated Pediatric Mortality**

One (1) pediatric influenza (A/H1N1pdm09) death has been confirmed by MDHHS for the 2018-2019 flu season. Nationally, 11 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.

National Surveillance

In the United States, 3.3% 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 DoebleM@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 63 (12 pediatric, 51 adult) influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.
MDHHS Bureau of Laboratories reported 17 new positive influenza results (4C, 2N, 3SE, 8SW).

<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>39</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Influenza B</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>7</td>
<td>19</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:

**Week Ending December 22**

Eight (8) sentinel clinical labs (1SE, 1SW, 5C, 1N) reported during this week

**SE Region**
- Influenza A: increasing
- Influenza B: very low
- Parainfluenza: very low
- RSV: moderate-high; increasing
- Adenovirus: slightly increasing
- hMPV: slightly increasing

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

**SW Region**
- Influenza A: increasing
- Influenza B: sporadic
- Parainfluenza: low
- RSV: increasing
- Adenovirus: very low
- hMPV: very low

**North Region**
- Influenza A: sporadic
- Influenza B: no activity
- Parainfluenza: no data available
- RSV: low
- Adenovirus: no data available
- hMPV: no data available

Michigan Sentinel Clinical Lab Respiratory Virus Data
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>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>2</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>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</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

- Regular Flu Shots Can Save Heart Failure Patients’ Lives
- WHO Influenza Update- N. Hemisphere on the rise
- US Flu Levels Steadily Increasing, CDC reports

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