### Michigan Flu Focus

**Weekly Influenza Surveillance Report**

**Editor:** Seth Eckel, MPH  
**Editor Email:** EckelS1@michigan.gov  
**January 29, 2018**  
**Vol. 15; No. 15**

**Week Ending January 20, 2018 | WEEK 3**

---

### Michigan Influenza Activity

<table>
<thead>
<tr>
<th>Activity Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
<tr>
<td>Sporadic</td>
<td></td>
</tr>
<tr>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Regional</td>
<td></td>
</tr>
<tr>
<td><strong>Widespread</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza*

---

### Updates of Interest

**Schools across at least a dozen of states have closed their doors for a day or longer this flu season! Know how you can help prevent the spread of influenza in Michigan schools by:**

- Have students stay home until well
- It is not too late to receive the flu vaccine
- Promote hand hygiene
- Cover coughs and sneezes with a tissue or sleeve

---

### Influenza-associated Pediatric Mortality

No pediatric influenza deaths have been confirmed by MDHHS do date for the 2017-2018 flu season. Nationally, thirty-seven (37) influenza-associated pediatric deaths have been reported thus far for the 2017-2018 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, 6.6% of outpatient visits were due to influenza-like illness, which is above the national baseline of 2.2%.

Become a Sentinel Provider! Contact: EckelS1@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, 2017 until Apr. 30, 2018, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. Since Oct. 1, there have been a total of 535 (30 pediatric, 505 adult) influenza-related hospitalizations reported in the catchment area for the 2017-2018.

Genesee County was added in 2012-2013
Washtenaw County was added in 2017-2018
MDHHS Bureau of Laboratories reported 81 new positive influenza (10C, 0N, 5SE, 13SW).

### Respiratory Virus Data

#### Overall Total

<table>
<thead>
<tr>
<th>Respiratory Virus</th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
<th>Overall Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009 A/H1N1pdm</td>
<td>1</td>
<td>1</td>
<td>9</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>108</td>
<td>29</td>
<td>86</td>
<td>90</td>
<td>313</td>
</tr>
<tr>
<td>Influenza B</td>
<td>6</td>
<td>9</td>
<td>39</td>
<td>16</td>
<td>70</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>115</td>
<td>39</td>
<td>134</td>
<td>111</td>
<td>399</td>
</tr>
</tbody>
</table>

*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 MDHHS Bureau of Laboratories.

**Other Observations**

- **SE Region**
  - Influenza A: very sharply elevated/very sharply increasing
  - Influenza B: elevated/sharply increasing
  - Parainfluenza: sporadic to slightly elevated
  - RSV: elevated but stable or slightly decreasing
  - Adenovirus: slightly elevated/increasing
  - hMPV: elevated/slightly decreasing

- **Central Region**
  - Influenza A: elevated/briskly increasing
  - Influenza B: low/slightly increasing
  - Parainfluenza: sporadic
  - RSV: elevated/slightly increasing
  - Adenovirus: slightly elevated
  - hMPV: low

- **SW Region**
  - Influenza A: very sharply elevated; very sharply increasing
  - Influenza B: slightly elevated, stable
  - Parainfluenza: sporadic
  - RSV: elevated/increasing
  - Adenovirus: low
  - hMPV: slightly elevated

- **North Region**
  - No data available
There were 28 (0N, 10C, 5SE, 13SW) new respiratory viral outbreaks reported to MDHHS during this time period. Respiratory outbreaks for the 2017-2018 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>2015-2016 Total</th>
<th>2016-2017 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools: K-12 &amp; College</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>Long-term Care / Assisted Living Facility</td>
<td>57</td>
<td>9</td>
<td>19</td>
<td>28</td>
<td>113</td>
<td>60</td>
<td>138</td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>2</td>
<td>11</td>
<td>23</td>
</tr>
<tr>
<td>Daycare</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Homeless Shelter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>61</td>
<td>10</td>
<td>21</td>
<td>30</td>
<td>122</td>
<td>87</td>
<td>195</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
- Study Confirms Flu Likely Spreads by Aerosols, Not Just Coughs, Sneezes
- Flu Virus Can Trigger A Heart Attack
- Here Are 2 Possible Steps Towards a Universal Flu Vaccine
- Flu Season Hitting West Michigan Schools

MDHHS Contributors
Bureau of Family Health Services -
Bureau of Labs – B. Robeson, MT, V. Vavricka, MS

For questions or to be added to the distribution list, please contact Seth Eckel at EckelS1@michigan.gov