Week Ending February 16, 2019

The CDC has published Interim Estimates of 2018–19 Seasonal Influenza Vaccine Effectiveness. Please see the following link for the preliminary report.

Link: https://www.cdc.gov/mmwr/volumes/68/wr/mm6806a2.htm?s_cid=mm6806a2_w

Influenza-associated Pediatric Mortality

One (1) pediatric influenza (A/H1N1-09) death has been confirmed by MDHHS for the 2018-2019 flu season. Nationally, 41 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.

- Number of reports by region: 37 total [C(11), N(3), SE(15), SW(8)]
- Proportion of visits due to ILI: ↑ 2.3% (regional baseline*: 1.8%)
- A total of 303 patient visits due to ILI were reported out of 12,950 office visits

*National Surveillance
In the United States, 5.1% of outpatient visits were due to influenza-like illness (ILI), which is above the national baseline of 2.2%.

MI Statewide ILI NET and Syndromic Surveillance Rates, 2018-2019

Become a sentinel provider!
Contact Shelly Doebler at DoeplerM@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 **331 (51 pediatric, 280 adult)** influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.

Total IHSP Cases

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Week Ending February

Laboratory Surveillance

MDHHS Bureau of Laboratories reported 25 new positive influenza results (8C, 11N, 3SE, 3SW)

<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>107</td>
<td>19</td>
<td>36</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>30</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Influenza B</td>
<td>2</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>139</td>
<td>29</td>
<td>52</td>
</tr>
</tbody>
</table>

Respiratory Virus Data

Nine (9) sentinel clinical labs (2SE, 1SW, 5C, 1N) reported during this week

SE Region
- Influenza A: moderate; steady
- Influenza B: low
- Parainfluenza: low
- RSV: moderate; some decreases
- Adenovirus: low
- hMPV: low

Central Region
- Influenza A: low-moderate; some decreases
- Influenza B: sporadic-very low
- Parainfluenza: low
- RSV: low or slightly elevated; some decreases
- Adenovirus: sporadic-low
- hMPV: low

SW Region
- Influenza A: moderate; slight increase
- Influenza B: no activity
- Parainfluenza: sporadic
- RSV: moderate; downward trend
- Adenovirus: low
- hMPV: low; slight decrease

North Region
- Influenza A: slightly elevated
- Influenza B: low
- Parainfluenza: no data available
- RSV: low
- Adenovirus: no data available
- hMPV: no data available

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 11, 2019
There were six (2N, 0C, 3SE, 1SW) 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>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>25</td>
<td>14</td>
</tr>
<tr>
<td>Long-term Care / Assisted Living Facility</td>
<td>5</td>
<td>2</td>
<td>6</td>
<td>5</td>
<td>18</td>
<td>138</td>
<td>238</td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</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>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</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>8</td>
<td>6</td>
<td>8</td>
<td>6</td>
<td>28</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**
- [2018-19 Early Season Influenza Vaccine Effectiveness](#)
- [Approximately 8,000 Flu Deaths Prevented Last Year with Influenza Vaccine](#)
- [U.S Flu Activity Continues to Rise](#)
- [2018-19 Flu Season: Preliminary Burden Estimates](#)

**MDHHS Contributors**
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- Bureau of Labs — B. Robeson, MT, V. Vavricka, MS

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