Michigan Flu Focus
Weekly Influenza Surveillance Report

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Week Ending November 10, 2018 │ WEEK 45

Michigan Influenza Activity

<table>
<thead>
<tr>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
</tr>
<tr>
<td>Sporadic</td>
</tr>
<tr>
<td>Local</td>
</tr>
<tr>
<td>Regional</td>
</tr>
<tr>
<td>Widespread</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*

Join the Influenza Sentinel Hospital Network (ISHN)!
What is it? ISHN is a group of Michigan hospitals that voluntarily report weekly aggregate counts of flu positive inpatients to assist MDHHS with statewide flu surveillance
How it works: As a participating hospital in the IHSN, you would complete a brief survey every week containing:
- # of hospitalizations with a positive flu test by age group
- The total # of admissions during that time frame (if available)
If your facility is interested in participating or would like more details, please contact Sue Kim (KimS2@michigan.gov) or Seth Eckel (EckelS1@michigan.gov).

Influenza-associated Pediatric Mortality
To date, no (0) pediatric influenza deaths have been confirmed by MDHHS for the 2018-2019 flu season. Nationally, two (2) 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, 1.9% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

Become a sentinel provider!
Contact Shelly Doebler at DoeblerM@michigan.gov
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 5 (2 pediatric, 3 adult) influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.
Laboratory Surveillance

Week Ending November 10

MDHHS Bureau of Laboratories reported 7 new positive influenza results (4C, 0N, 3SE, 0SW).

<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 N  SE        SW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009 A/H1N1pdm</td>
<td>10 0 10 1</td>
<td>21</td>
<td>80</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>2 0 0 3</td>
<td>5</td>
<td>579</td>
</tr>
<tr>
<td>Influenza B</td>
<td>0 0 0 0</td>
<td>0</td>
<td>220</td>
</tr>
<tr>
<td>Total</td>
<td>12 0 10 4</td>
<td>26</td>
<td>879</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:

Michigan Sentinel Clinical Lab
Respiratory Virus Data

Eleven (11) sentinel clinical labs (2SE, 1SW, 7C, 1N) reported during this week

SE Region
- Influenza A: sporadic/low
- Influenza B: no activity
- Parainfluenza: low
- RSV: low; slightly increased
- Adenovirus: low
- hMPV: no activity

Central Region
- Influenza A: sporadic/low
- Influenza B: no activity
- Parainfluenza: low; slightly increased
- RSV: sporadic/low
- Adenovirus: sporadic/low
- hMPV: sporadic/low

SW Region
- Influenza A: no activity
- Influenza B: sporadic/low
- Parainfluenza: no activity
- RSV: no activity
- Adenovirus: sporadic/low
- hMPV: no activity

North Region
- Influenza A: no activity
- Influenza B: no activity
- Parainfluenza: no data available
- RSV: no activity
- Adenovirus: no data available
- hMPV: no data available
There was 0 (0N, 0C, 0SE, 0SW) new respiratory viral outbreak 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></td>
<td>1</td>
<td></td>
<td>25</td>
<td>14</td>
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<tr>
<td>Long-term Care / Assisted Living</td>
<td>138</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>238</td>
</tr>
<tr>
<td>Facility</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
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<td></td>
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<tr>
<td>Daycare</td>
<td>3</td>
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<td></td>
<td></td>
<td>4</td>
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<td>Homeless Shelter</td>
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<tr>
<td>Correctional Facility</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td>1</td>
<td>195</td>
<td>270</td>
<td></td>
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</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
- Vaccine Effectiveness Not Impacted by Statin Use
- National Influenza Vaccination Week Dec 2-8, 2018

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