Michigan Flu Focus
Weekly Influenza Surveillance Report

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Michigan Influenza Activity

<table>
<thead>
<tr>
<th>Activity</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>Widespread</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

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, one (1) influenza-associated pediatric death has 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, 1.4% 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 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 no (0 pediatric, 0 adult) influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.

Total IHSP Cases

Washtenaw County was added in 2017-2018
MDHHS Bureau of Laboratories reported 5 new positive influenza results (2C, 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</td>
<td>N</td>
<td>SE</td>
</tr>
<tr>
<td>2009 A/H1N1pdm</td>
<td>2</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Influenza B</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Influenza Positive Test Results, 2018-2019

*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*

Ten (10) sentinel clinical labs (2SE, 2SW, 5C, 1N) reported during this week

**SE Region**
- Influenza A: low/sporadic
- Influenza B: sporadic
- Parainfluenza: low
- RSV: low
- Adenovirus: low; slightly increased
- hMPV: sporadic

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

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

**North Region**
- Influenza A: sporadic
- Influenza B: no activity
- Parainfluenza: no data available
- RSV: no activity
- Adenovirus: no data available
- hMPV: no data available
There were no (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.

### Facility Type

<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td>14</td>
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<tr>
<td>Long-term Care / Assisted Living</td>
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<td></td>
<td>138</td>
<td>238</td>
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<tr>
<td>Facility</td>
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<td>23</td>
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<tr>
<td>Healthcare Facility</td>
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<td></td>
<td>3</td>
<td>4</td>
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<tr>
<td>Daycare</td>
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<td>1</td>
<td>0</td>
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<tr>
<td>Homeless Shelter</td>
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<td>10</td>
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<tr>
<td>Correctional Facility</td>
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<td></td>
<td></td>
<td></td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td></td>
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<td>0</td>
<td>195</td>
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<td></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](#)

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### FluBytes

- [No Evidence of Negative Birth Outcomes After Oseltamivir Exposure](#)
- [WHO Global Flu Update](#)

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### 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

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For questions or to be added to the distribution list, please contact Sue Kim at [KimS2@michigan.gov](mailto:KimS2@michigan.gov)