The Michigan flu code has officially been increased from ‘Local’ activity to ‘Regional’ activity for Week 52. This is due to further increases in the Southeast and Southwest regions of the state and new increases in parts of the Central region with influenza A continuing to predominate.

See Michigan Influenza Activity (above), for an overview of flu activity definitions.

Influenza-associated Pediatric Mortality

One (1) pediatric influenza (A/H1N1-09) death has been confirmed by MDHHS for the 2018-2019 flu season. Nationally, 13 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, 4.1% 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 Doeblers@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 **93 (17 pediatric, 76 adult)** influenza-related hospitalizations reported in the catchment area for the 2018-2019 season.

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**Total IHSP Cases**

Washtenaw County was added in 2017-2018
MDHHS Bureau of Laboratories reported 14 new positive influenza results (2C, 3N, 9SE, 0SW).

### Respiratory Virus Data

#### Ten (10) sentinel clinical labs (3SE, 1SW, 5C, 1N) reported during this week

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

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

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

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

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**Flu 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:
There were two (0N, 2C, 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>
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<tr>
<td>Long-term Care / Assisted Living</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>138</td>
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<td>Facility</td>
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<td>4</td>
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<tr>
<td>Healthcare Facility</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Daycare</td>
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<td>0</td>
<td>0</td>
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<tr>
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<td>0</td>
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<tr>
<td>Correctional Facility</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Total</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>5</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
- US Flu Levels Rise as More Pediatric Deaths Reported
- Flu is Severe: Why Flu Makes You Feel So Bad
- Flu Shots Mandatory for Connecticut Pre-K Students
- Regular Flu Shots Can Save Heart Failure Patients’ Lives

For questions or to be added to the distribution list, please contact Sue Kim at KimS2@michigan.gov

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