Michigan Flu Focus
Weekly Influenza Surveillance Report

Week Ending November 30, 2019 | WEEK 48

Updates of Interest

Nationally, influenza B/Victoria viruses continue to be most commonly reported. Influenza A/H1N1 viruses are the next most common, followed by influenza A/H3N2, which are decreasing in proportion.

Please see the following link to CDC’s FluView report for more details: https://www.cdc.gov/flu/weekly/

Influenza-associated Pediatric Mortality

Nationally, six (6) influenza-associated pediatric deaths have been reported thus far for the 2019-2020 flu season. No (0) pediatric influenza deaths have been confirmed by MDHHS for the 2019-2020 flu season.
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan’s influenza surveillance. ILINet provides data on the total number outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat without a known cause other than influenza.

<table>
<thead>
<tr>
<th>Region</th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Reporters</td>
<td>9</td>
<td>6</td>
<td>13</td>
<td>3</td>
</tr>
<tr>
<td>Total (31)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ILI %</td>
<td>1.0</td>
<td>1.2</td>
<td>2.3</td>
<td>1.7</td>
</tr>
</tbody>
</table>

Michigan ILI Activity

1.5%

(Last week: 1.2%)

Regional Baseline*: 1.9%

A total of 118 patient visits due to ILI were reported out of 7,676 office visits during this period.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

National Surveillance

In the United States, 3.5% of outpatient visits were due to ILI. (Last week: 2.9%)

This is above the national baseline of 2.4%.

Become an ILINET provider!
Contact Shelly Doebler at DoeblerM@michigan.gov
Influenza Hospitalization Surveillance Project (IHSP)

The CDC’s Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were 13 (3 pediatric, 10 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, 42 (6 pediatric, 36 adult) influenza-related hospitalizations were reported in the catchment area for the 2019-2020 season.

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide flu surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide is aggregated by region and can assist providers and public health in recognizing changes in the age or geographic distribution of flu in this population.

If your facility is interested in participating or would like more details, please contact Sue Kim (KimS2@michigan.gov)
There were 57 new positive influenza results (5C, 0N, 29SE, 23SW) reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

### # of Positive Respiratory Virus Results by Region

<table>
<thead>
<tr>
<th></th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1N1</td>
<td>12</td>
<td>0</td>
<td>10</td>
<td>10</td>
<td>32</td>
</tr>
<tr>
<td>H3N2</td>
<td>2</td>
<td>0</td>
<td>6</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>Infl B</td>
<td>11</td>
<td>0</td>
<td>38</td>
<td>26</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
<td><strong>0</strong></td>
<td><strong>54</strong></td>
<td><strong>37</strong></td>
<td><strong>116</strong></td>
</tr>
</tbody>
</table>

Data is provisional and may change as additional results are reported.

**Influenza Positive Test Results, 2019-2020**

<table>
<thead>
<tr>
<th></th>
<th>Flu A, no subtype</th>
<th>A, H1N1</th>
<th>A, H3</th>
<th>Flu B, no lineage</th>
<th>B, Yamagata</th>
<th>B, Victoria</th>
</tr>
</thead>
</table>

Weekly Reporting:
- **Week Ending Nov 30, 2019**

- **SE Region**
  - Influenza A: low – elevated; increasing
  - Influenza B: elevated; increasing
  - Parainfluenza: elevated
  - RSV: elevated; some strong increases
  - Adenovirus: slightly elevated
  - hMPV: low – slightly elevated

- **Central Region**
  - Influenza A: low
  - Influenza B: low
  - Parainfluenza: low – slightly elevated
  - RSV: low – slightly elevated
  - Adenovirus: low
  - hMPV: low

- **SW Region**
  - Influenza A: slight increase
  - Influenza B: low
  - Parainfluenza: low
  - RSV: elevated; some increases
  - Adenovirus: low
  - hMPV: low

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

Note: Flu B subtyping will be reported based on MDHHS BOL testing runs and will be backtracked into this graph.

Latest MDHHS BOL Flu B lineage determination run: December 6, 2019.
There were no (0) new respiratory outbreaks reported to MDHHS during this time period. Respiratory outbreaks for the 2019-2020 season are listed in the table below.

### # of Congregate Setting Outbreaks by Region

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools: K-12 &amp; College</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Long-term Care / Assisted Living Facility</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Daycare</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Homeless Shelter</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td><strong>3</strong></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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**Congregate Setting Outbreaks by Region, 2019-2020**

- C
- N
- SE
- SW

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Week Ending

37% of Americans Do Not Plan to Get a Flu Shot This Season

As we approach the end of National Influenza Vaccination Week, the National Opinion Research Center (NORC) at the University of Chicago revealed results from nationally representative poll on influenza vaccination opinions.

The survey results revealed that 44% of adults have been vaccinated against influenza for the 2019-2020 flu season, but alarmingly 37% have no plans to get vaccinated. An age breakdown of these results can be found in the table below.

The top reasons survey participants indicated for not receiving a flu vaccine include concerns about vaccine side effects, beliefs that the vaccine does not work very well, and beliefs that they never get sick with the flu.

Providers should work with their patients to address these concerns and encourage vaccination for everyone 6 months and older.

Adults’ Plans to Receive the Flu Vaccination for 2019-2020 Season

<table>
<thead>
<tr>
<th>Age</th>
<th>Have Been Vaccinated</th>
<th>Plan to Get Vaccinated</th>
<th>Do Not Plan to Get Vaccinated</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Ages</td>
<td>44%</td>
<td>18%</td>
<td>37%</td>
<td>1%</td>
</tr>
<tr>
<td>18-29 years</td>
<td>35%</td>
<td>22%</td>
<td>39%</td>
<td>4%</td>
</tr>
<tr>
<td>30-44 years</td>
<td>36%</td>
<td>16%</td>
<td>47%</td>
<td>1%</td>
</tr>
<tr>
<td>45-59 years</td>
<td>34%</td>
<td>18%</td>
<td>46%</td>
<td>2%</td>
</tr>
<tr>
<td>60+ years</td>
<td>65%</td>
<td>16%</td>
<td>19%</td>
<td>-</td>
</tr>
</tbody>
</table>

Influenza-Related Articles/News

- MDHHS Influenza Vaccine F.A.Q.
- Continued Rise of Influenza in the U.S.
- Difficulties in Obtaining Flu Shots for Children
- Americans Still Plan to Not Get a Flu Shot
- AAP Encourages Strong Provider Recommendation for Flu Shot
- Studies Show Flu Vaccines Reduce Risk of Hospitalization and Death
- Outbreaks Could Lead to Increases in Pro-Vaccine Legislature

Influenza Vaccine Updates

National Influenza Vaccination Week December 1st-7th 2019

National Influenza Vaccination Week (NIVW), December 1-7, is an awareness week hosted by the Centers for Disease Control and Prevention (CDC) highlighting the importance of influenza vaccination.

NIVW is a great reminder to healthcare providers to continue vaccinating their patients against flu throughout the holiday season and beyond. During the 2018-2019 flu season, influenza activity in Michigan did not peak until March which indicates that there are many opportunities to continue to offer flu vaccine to unvaccinated patients.

CDC has developed an extensive list of tools and campaign resources for NIVW including web tools, videos, communication resources, graphics and more.

Visit www.cdc.gov/flu/nivw for more information. And check out the MDHHS press release for NIVW.

Influenza Vaccine Updates

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