The CDC have published an update to the MMWR report, *Influenza Activity in the United States During the 2018-19 Season and Composition of the 2019-20 Influenza Vaccine*. CDC officials call the U.S. 2018-2019 influenza season a “moderate severity season with two waves of influenza A activity of similar magnitude during the season.” Based on national data, the 2018-2019 influenza season lasted 21 weeks, making it the longest season in 10 years.

See the following link to the full MMWR Report:
https://www.cdc.gov/mmwr/volumes/68/wr/mm6824a3.htm

The MDHHS Bureau of Laboratories (BOL) have published a recent edition of *LabLink* newsletter that includes a Michigan 2018-2019 influenza season summary.

See the following link to the full newsletter:

*One human infection with a variant influenza virus (A/H1N1v) has been reported in Michigan for the 2018-2019 season; this is the first influenza A H1N1v virus infection detected in the United States in 2019.*

Source: CDC FluView

---

**FluBytes**

- Influenza Activity in the United States: 2018-19 Season
- Participate in the College and University Flu Challenge
- Study: Flu Antiviral fights all 4 flu virus types
- Increasing Influenza Vaccination in Health Care Workers
- Expired Inactivated Influenza Vaccine Administration and VAERS
- Two Distinct Waves Seen in the 2018-19 Flu Season
Outbreaks and Sentinel Provider Surveillance

Week Ending July 6

Congregate Setting Respiratory Virus Outbreaks

There was 1 [C(0), N(0), SE(0), SW(1)] new respiratory virus outbreak reported to MDHHS during this time period. Respiratory outbreaks for the 2019 summer season are listed below.

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>C</th>
<th>N</th>
<th>SE</th>
<th>SW</th>
<th>Summer 2019 Total</th>
<th>2018-19 Flu Season 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>
<td>9</td>
</tr>
<tr>
<td>Long-term Care / Assisted Living Facility</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>Healthcare Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Daycare</td>
<td>0</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>
<td>1</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td><strong>Total 79</strong></td>
</tr>
<tr>
<td>2018-19 Total</td>
<td>24</td>
<td>13</td>
<td>27</td>
<td>15</td>
<td></td>
<td></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

Influenza-like Illness (ILI) Activity

During the 2018-2019 influenza season, Michigan flu activity peaked week ending **March 23, 2019** (Week 12) at **3.2%** and reported above baseline of **1.8%** for **12** weeks. National flu activity peaked week ending **February 16, 2019** (Week 7) at **5.1%**.

- Total number of reports by region: 19 [C(5), N(1), SE(11), SW(2)]
- Proportion of visits due to ILI: 0.4% (regional baseline*: 1.8%)
- 24 patient visits due to ILI were reported out of 5,485 office visits

*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.

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

Did you know?

- Swine Variant Influenza Toolkit
- Become an ILINET provider!

- Swine Variant Influenza Toolkit Templates Document

Become an ILINET provider!

Contact Shelly Doebler at **DoeblerM@michigan.gov**
Laboratory Surveillance

Week Ending July 6

MDHHS Bureau of Laboratories (BOL)

There were 2 [C(2), N(0), SE(0), SW(0)] new respiratory virus results reported to MDHHS during this time period. Positive results for the 2019 summer season are listed below.

<table>
<thead>
<tr>
<th>Respiratory Virus</th>
<th># Positive Respiratory Virus Results by Region</th>
<th>Summer 2019 Total</th>
<th>2018-19 Flu Season 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>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Influenza A/H3</td>
<td>5</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Influenza B</td>
<td>6</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</td>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>

Note: 1 specimen tested positive for A H3 and B; 2 specimens tested positive for A H1N1 and A H3

Michigan Sentinel Clinical Lab

Respiratory Virus Data

Eight (8) sentinel clinical labs (2SE, 2SW, 4C, 0N) reported during Weeks 26 and 27

SE Region
- Influenza A: sporadic
- Influenza B: sporadic
- Parainfluenza: no data available
- RSV: sporadic
- Adenovirus: no data available
- hMPV: no data available

Central Region
- Influenza A: sporadic
- Influenza B: sporadic
- Parainfluenza: low
- RSV: sporadic
- Adenovirus: low
- hMPV: very low

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

North Region
- Influenza A: no data available
- Influenza B: no data available
- Parainfluenza: no data available
- 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 (roughly each month) and will be backtracked into this graph
Latest MDHHS BOL Flu B subtyping run: May 2, 2019
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. For the 2018-2019 influenza season, there have been a total of 930* (118 pediatric, 812 adult) influenza-related hospitalizations reported in the catchment area.

Influenza-associated Pediatric Mortality

Three (3) pediatric influenza (A/H1N1-09, A/H3N2, A/B undistinguished) deaths have been confirmed by MDHHS for the 2018-2019 flu season.

Nationally, 122 influenza-associated pediatric deaths have been reported for the 2018-2019 flu season.

MDHHS Contributors

Bureau of Epidemiology & Population Health –
S. Bidol, 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

*Data is preliminary and may change as chart reviews are completed