INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

STATE OF WISCONSIN

REGION V OF US (WI, MN, IL, MI, OH, IN)

UNITED STATES

AT-A-GLANCE:

Predominant Viruses of the Week:
Rhino/enterovirus and SARS-CoV-2 (virus causing COVID-19)

Current Alerts:
The pneumonia death rate dropped below 10% for the first time since October 2020.

Additional data on SARS-CoV-2 (the virus causing COVID-19) trends in Wisconsin can be found at:
https://www.dhs.wisconsin.gov/covid-19/data.htm

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

Week 5, 2021 October 1, 2020 to present

Wisconsin 0 0
Nationwide 0 1

For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/
INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin

<table>
<thead>
<tr>
<th>Influenza season week</th>
<th>Influenza-associated deaths (I)</th>
<th>Pneumonia-associated deaths (P)</th>
<th>Percent I+P of all deaths</th>
<th>Baseline I+P of all deaths</th>
<th>Threshold I+P of all deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>159</td>
<td>12.3%</td>
<td>5.9%</td>
<td>6.7%</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>125</td>
<td>10.9%</td>
<td>6.0%</td>
<td>6.8%</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>77</td>
<td>8.5%</td>
<td>6.0%</td>
<td>6.8%</td>
</tr>
<tr>
<td>Preliminary Data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seasonal total</td>
<td>0</td>
<td>2977</td>
<td>11.4%</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Data source: DPH, Office of Health Informatics
Wisconsin positive influenza results and subtypes by PCR

Cumulative number of positive influenza PCR tests by subtype
October 1, 2020 to present

<table>
<thead>
<tr>
<th>Week ending</th>
<th>A (unknown subtype)</th>
<th>A (H3N2 seasonal)</th>
<th>A (H1N1)</th>
<th>A (H3N2v)</th>
<th>B (unknown subtype)</th>
<th>B (Victoria)</th>
<th>B (Yamagata)</th>
<th>B (Unknown)</th>
<th>Influenza % positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/3</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0%</td>
</tr>
<tr>
<td>10/31</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1%</td>
</tr>
<tr>
<td>11/28</td>
<td>5</td>
<td></td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td>12/26</td>
<td>4</td>
<td></td>
<td>6</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4%</td>
</tr>
<tr>
<td>1/23</td>
<td>2</td>
<td></td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2%</td>
</tr>
<tr>
<td>2/20</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1%</td>
</tr>
<tr>
<td>3/20</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1%</td>
</tr>
<tr>
<td>4/17</td>
<td>0</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total positive (n)</th>
<th>A (2009 H1N1)</th>
<th>Influenza A: A (H3N2)</th>
<th>36% A (Unknown)</th>
<th>B (Victoria)</th>
<th>Influenza B: B (Yamagata)</th>
<th>64% B (Unknown)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>2</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>27</td>
<td>42</td>
</tr>
<tr>
<td>% of total positive</td>
<td>0%</td>
<td>5%</td>
<td>31%</td>
<td>0%</td>
<td>0%</td>
<td>64%</td>
<td>100%</td>
</tr>
</tbody>
</table>
### WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

#### Trends in respiratory virus activity by PCR

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Influenza</strong></td>
<td>3877</td>
<td>2</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>Parainfluenza</strong></td>
<td>764</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Coronavirus (seasonal)</strong></td>
<td>91</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>RSV</strong></td>
<td>1506</td>
<td>1</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>Human metapneumovirus</strong></td>
<td>778</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Rhino–enterovirus</strong></td>
<td>770</td>
<td>50</td>
<td>6.5%</td>
</tr>
<tr>
<td><strong>Adenovirus</strong></td>
<td>91</td>
<td>2</td>
<td>2.2%</td>
</tr>
</tbody>
</table>

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**Influenza A**

- **H3N2**
- **2009 H1N1**
- **Unknown**

**Influenza B**

- **Victoria**
- **Yamagata**
- **Unknown**

<table>
<thead>
<tr>
<th>Week ending</th>
<th>Influenza</th>
<th>RSV</th>
<th>hMPV</th>
<th>Influenza</th>
<th>RSV</th>
<th>hMPV</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/3</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>10/17</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>10/31</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>11/14</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>11/28</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>12/12</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>12/26</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>1/9</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>1/23</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
<tr>
<td>2/6</td>
<td>3%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
</tr>
</tbody>
</table>
WISCONSIN STATE SUMMARY

ILI activity trend analysis by influenza season, Wisconsin

Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System

October 1, 2020 to present

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th>Total reported (n)</th>
<th>Influenza subtype</th>
<th>Admitted to ICU</th>
<th>Required mechanical ventilation</th>
<th>Pregnant</th>
<th>Postpartum (≤6 weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>0</td>
<td>A (2009 H1N1)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1-4</td>
<td>0</td>
<td>A (H3N2)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-17</td>
<td>0</td>
<td>A (Unknown)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18-49</td>
<td>2</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50-64</td>
<td>4</td>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>5</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>11</td>
<td></td>
<td>3</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

Influenza season week

ILI ACTIVITY TREND ANALYSIS

Wisconsin

Northeastern Region

Northern Region
ILI ACTIVITY TREND ANALYSIS

Southeastern Region

Baseline
Threshold
3-week moving average (average % ILI)

Average % ILI
Week ending
Baseline
Threshold
3-week moving average (average % ILI)

Southeastern Region

Baseline
Threshold
3-week moving average (average % ILI)

Average % ILI
Week ending
Baseline
Threshold
3-week moving average (average % ILI)

Western Region

Baseline
Threshold
3-week moving average (average % ILI)

Average % ILI
Week ending
Baseline
Threshold
3-week moving average (average % ILI)
Trivalent (three-component) egg-based vaccines are recommended to contain:
- A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/2671/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)

Quadriivalent (four-component) egg-based vaccines, which protect against a second lineage of B viruses, are recommended to contain:
- the three recommended viruses above, plus B/Phuket/3073/2013-like (Yamagata lineage) virus.

Cell- or recombinant-based vaccines are recommended to contain:
- A/Hawaii/70/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/45/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)
- B/Phuket/3073/2013-like (Yamagata lineage) virus
SEASONAL INFLUENZA VACCINATION

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by age group and influenza season

Each season includes doses administered during the same time period (August 1 through May 3).

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2020-2021 influenza season

All of Wisconsin

- Total: 41%
- Non-Hispanic: 38%
- Hispanic: 23%
- White: 37%
- Black: 21%
- Asian: 29%
- American Indian/Alaska-Native: 22%

Northeastern

- Total: 41%
- Non-Hispanic: 40%
- Hispanic: 24%
- White: 38%
- Black: 17%
- Asian: 26%
- American Indian/Alaska-Native: 28%

Northern

- Total: 39%
- Non-Hispanic: 38%
- Hispanic: 22%
- White: 37%
- Black: 17%
- Asian: 28%
- American Indian/Alaska-Native: 22%

Southeastern

- Total: 40%
- Non-Hispanic: 40%
- Hispanic: 23%
- White: 38%
- Black: 22%
- Asian: 29%
- American Indian/Alaska-Native: 14%

Southern

- Total: 43%
- Non-Hispanic: 35%
- Hispanic: 24%
- White: 34%
- Black: 20%
- Asian: 31%
- American Indian/Alaska-Native: 29%

Western

- Total: 38%
- Non-Hispanic: 37%
- Hispanic: 23%
- White: 36%
- Black: 16%
- Asian: 28%
- American Indian/Alaska-Native: 17%