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:
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 11, 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

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

![Graph showing weekly positive detections by subtype and PCR results](image)

**Cumulative number of positive influenza PCR tests by subtype**

<table>
<thead>
<tr>
<th></th>
<th>Influenza A:</th>
<th>Influenza B:</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (2009 H1N1)</td>
<td>1</td>
<td>0</td>
<td>45</td>
</tr>
<tr>
<td>A (H3N2)</td>
<td>2</td>
<td>0</td>
<td>68</td>
</tr>
<tr>
<td>A (Unknown)</td>
<td>20</td>
<td>45</td>
<td>68</td>
</tr>
<tr>
<td>B (Victoria)</td>
<td>0</td>
<td>0</td>
<td>45</td>
</tr>
<tr>
<td>B (Yamagata)</td>
<td>0</td>
<td>0</td>
<td>45</td>
</tr>
<tr>
<td>B (Unknown)</td>
<td>0</td>
<td>0</td>
<td>45</td>
</tr>
</tbody>
</table>

- % of total positive: 1% (A (2009 H1N1)), 3% (A (H3N2)), 29% (A (Unknown)), 0% (B (Victoria)), 0% (B (Yamagata)), 66% (B (Unknown))
### 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>5774</td>
<td>4</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>Parainfluenza</strong></td>
<td>899</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Coronavirus (seasonal)</strong></td>
<td>109</td>
<td>5</td>
<td>4.6%</td>
</tr>
</tbody>
</table>

#### Influenza A

<table>
<thead>
<tr>
<th></th>
<th>H3N2</th>
<th>2009</th>
<th>Unknown</th>
<th>Victoria</th>
<th>Yamagata</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Influenza B

<table>
<thead>
<tr>
<th></th>
<th>Victoria</th>
<th>Yamagata</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Parainfluenza

<table>
<thead>
<tr>
<th></th>
<th>Parainfluenza 1</th>
<th>Parainfluenza 2</th>
<th>Parainfluenza 3</th>
<th>Parainfluenza 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parainfluenza</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Coronavirus (seasonal)

<table>
<thead>
<tr>
<th></th>
<th>CoV 229E</th>
<th>CoV OC43</th>
<th>CoV NL63</th>
<th>CoV HKU1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronavirus (seasonal)</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Other Viruses

<table>
<thead>
<tr>
<th>Respiratory Virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSV</td>
<td>2265</td>
<td>1</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>Human metapneumovirus</td>
<td>899</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Rhino-enterovirus</td>
<td>871</td>
<td>57</td>
<td>6.5%</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>109</td>
<td>2</td>
<td>1.8%</td>
</tr>
</tbody>
</table>

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**Week 11: Ending on March 20, 2021**

[Graph showing trends in % positive by PCR for different viruses over time]
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>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1-4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18-49</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50-64</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>12</td>
<td>0</td>
</tr>
</tbody>
</table>

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin
ILI ACTIVITY TREND ANALYSIS

Wisconsin

Northeastern Region

Northern Region
ILI ACTIVITY TREND ANALYSIS

Southeastern Region

Southern Region

Western Region
**Influenza vaccine composition 2020-2021:**

**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)

**Quadrivalent (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: 41% 37%
- Black: 21%
- Asian American Indian/Alaska-Native: 22%

Northeastern

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

Northern

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

Southeastern

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

Southern

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

Western

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