Maine Weekly Influenza Surveillance Report
December 18, 2018

For MMWR week 50 (ending 12/15/2018)

Federal Flu Code: Sporadic

Surveillance Information – Maine, 2018-2019 Influenza Season
- Number of ILINet Providers reporting: 51
  - % of visits for Influenza-Like Illness (ILI): 0.99
- Syndromic Surveillance
  - % of Emergency Room visits for ILI: 1.18
  - % of Emergency Medical Services (EMS) runs for ILI: 0.9

Influenza Hospitalizations
- # of hospitalizations: 6

Pneumonia and Influenza (P&I) Deaths
- % of deaths due to P&I: 8.1
- # influenza deaths reported this week: 0
- Total influenza deaths this season: 0

*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

All data is preliminary and subject to change
Lab Data – Maine, 2018-2019 Influenza Season

- # of samples tested at HETL: 15
  - # positive: 9
  - % positive: 60
- # of samples tested at Maine Reference Labs: 224
  - # positive: 7
  - % positive: 3.1
- # of samples positive by rapid antigen test: 17

Positive PCR Samples for Influenza, HETL – Maine, 2018-19

Positive Samples for Influenza, Maine Reference Labs – Maine, 2018-19

Positive Influenza Rapid Antigen Tests – Maine, 2018-19

Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2018-19

Antiviral Resistance – Maine, 2018-19 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 0
  - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 0
  - # with resistance: 0

All data is preliminary and subject to change
Geographic Distribution of Lab Tests, Maine 2018-19*

<table>
<thead>
<tr>
<th>County</th>
<th>Positive labs Tested this week</th>
<th>Positive labs Total</th>
<th>Hospitalizations New this week</th>
<th>Hospitalizations Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Androscoggin</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Aroostook</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cumberland</td>
<td>1</td>
<td>19</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Franklin</td>
<td>5</td>
<td>11</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Hancock</td>
<td>2</td>
<td>2</td>
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<td>0</td>
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<tr>
<td>Kennebec</td>
<td>5</td>
<td>7</td>
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<tr>
<td>Knox</td>
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<tr>
<td>Oxford</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>3</td>
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<td>Penobscot</td>
<td>3</td>
<td>15</td>
<td>0</td>
<td>4</td>
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<tr>
<td>Piscataquis</td>
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<td>1</td>
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<td>Sagadahoc</td>
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<td>Somerset</td>
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<td>Waldo</td>
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<td>Washington</td>
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<tr>
<td>York</td>
<td>3</td>
<td>13</td>
<td>0</td>
<td>1</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
<td><strong>102</strong></td>
<td><strong>6</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

Age Information – Maine, 2018-19 Influenza Season

<table>
<thead>
<tr>
<th>Minimum Age</th>
<th>Mean Age</th>
<th>Maximum Age</th>
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<tbody>
<tr>
<td>7 months</td>
<td>43 years</td>
<td>90 years</td>
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</table>

Positive Influenza Tests by Age – Maine, 2018-19

All data is preliminary and subject to change
Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically or genetically characterized 166 influenza viruses from September 30–December 8, 2018.
  - 100% of influenza A/H1N1 samples match the vaccine strain
  - 100% of influenza A/H3N2 samples match the vaccine strain
  - 0% of influenza B/Victoria samples match the vaccine strain
  - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response.

Influenza-Like Illness Outbreaks – Maine, 2018-19 Influenza Season

- # new outbreaks: 0
- Total outbreaks 2018-19 season: 0

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2018-19

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>Androscoggin</th>
<th>Aroostook</th>
<th>Cumberland</th>
<th>Franklin</th>
<th>Hancock</th>
<th>Kennebec</th>
<th>Knox</th>
<th>Lincoln</th>
<th>Oxford</th>
<th>Penobscot</th>
<th>Piscataquis</th>
<th>Sagadahoc</th>
<th>Somerset</th>
<th>Waldo</th>
<th>Washington</th>
<th>York</th>
<th>Total</th>
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Outbreak Facility Type Key:

- LTC - Long Term Care Facility
- AC - Acute Care Facility (nosocomial)
- K12 - School (K-12) or daycare
- Univ - School (residential) or University
- HCW - Health care workers
- Inst - Other institutions (workplaces, correctional facilities etc)
- Camp - Camp

All data is preliminary and subject to change
National Influenza Surveillance Data
Source: https://www.cdc.gov/flu/weekly/

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
Week Ending Dec 08, 2018 - Week 49

Influenza Activity Estimates
- No Activity
- Sporadic
- Local Activity
- Regional
- Widespread
- No Report

*This map indicates geographic spread and does not measure the severity of influenza activity.

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet

2018-19 Influenza Season Week 49 ending Dec 08, 2018

ILI Activity Level
- High
- Moderate
- Low
- Minimal
- Insufficient Data

*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state.

*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.

*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

*Data collected in ILINet may not be comparable to past data due to changes in surveillance network.

*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

All data is preliminary and subject to change