Maine Weekly Influenza Surveillance Report
April 24, 2018

For MMWR week 16 (ending 4/21/2018)

New This Week
• Federal Flu Code: Regional
• 48 new hospitalizations
• 1 new outbreak

Surveillance Information – Maine, 2017-2018 Influenza Season
• Number of ILINet Providers reporting: 16
  o % of visits for Influenza-Like Illness (ILI): 0.52
• Syndromic Surveillance
  o % of Emergency Room visits for ILI: 2.2
  o % of Emergency Medical Services (EMS) runs for ILI: 0.9
• Influenza Hospitalizations
  o # of hospitalizations: 48
• Electronic Death Reporting System
  o % of deaths due to P&I: 8.6

All data is preliminary and subject to change
Lab Data – Maine, 2017-2018 Influenza Season

- # of samples tested at HETL: 13
  - # positive: 2
  - % positive: 15.4
- # of samples tested at Maine Reference Labs: 104
  - # positive: 27
  - % positive: 26.0
- # of samples positive by rapid antigen test: 83

All data is preliminary and subject to change
Geographic Distribution of Lab Tests, Maine 2017-18

<table>
<thead>
<tr>
<th>County</th>
<th>Positive labs</th>
<th>Hospitalizations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tested this week</td>
<td>Total</td>
</tr>
<tr>
<td>Androscoggin</td>
<td>37</td>
<td>754</td>
</tr>
<tr>
<td>Aroostook</td>
<td>17</td>
<td>628</td>
</tr>
<tr>
<td>Cumberland</td>
<td>31</td>
<td>1289</td>
</tr>
<tr>
<td>Franklin</td>
<td>2</td>
<td>223</td>
</tr>
<tr>
<td>Hancock</td>
<td>4</td>
<td>313</td>
</tr>
<tr>
<td>Kennebec</td>
<td>12</td>
<td>479</td>
</tr>
<tr>
<td>Knox</td>
<td>4</td>
<td>303</td>
</tr>
<tr>
<td>Lincoln</td>
<td>4</td>
<td>221</td>
</tr>
<tr>
<td>Oxford</td>
<td>21</td>
<td>391</td>
</tr>
<tr>
<td>Penobscot</td>
<td>44</td>
<td>1363</td>
</tr>
<tr>
<td>Piscataquis</td>
<td>3</td>
<td>54</td>
</tr>
<tr>
<td>Sagadahoc</td>
<td>2</td>
<td>131</td>
</tr>
<tr>
<td>Somerset</td>
<td>9</td>
<td>385</td>
</tr>
<tr>
<td>Waldo</td>
<td>5</td>
<td>255</td>
</tr>
<tr>
<td>Washington</td>
<td>2</td>
<td>76</td>
</tr>
<tr>
<td>York</td>
<td>44</td>
<td>1744</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>241</strong></td>
<td><strong>8609</strong></td>
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</table>

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

Antiviral Resistance – Maine, 2017-18 Influenza Season
- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 17
  - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 166
  - # with resistance: 0

Age and Gender Information – Maine, 2017-18 Influenza Season
- Minimum Age: 5 days
- Mean Age: 41 years
- Maximum Age: 103 years
  - Hospitalized Minimum Age: 5 days
  - Hospitalized Mean Age: 60 years
  - Hospitalized Maximum Age: 103 years

All data is preliminary and subject to change
**Antigenic Characterization (Vaccine Strain Match)**
- Federal CDC has antigenically or genetically characterized 2,707 influenza viruses from October 1 – April 14, 2018.
  - 100% of influenza A/H1N1 samples match the vaccine strain
  - 96.5% of influenza A/H3N2 samples match the vaccine strain
  - 27.6% 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. For current vaccine effectiveness rates visit [https://www.cdc.gov/mmwr/volumes/67/wr/mm6706a2.htm](https://www.cdc.gov/mmwr/volumes/67/wr/mm6706a2.htm).

**Influenza-Like Illness Outbreaks – Maine, 2017-18 Influenza Season**
- # new outbreaks: 1
- Total outbreaks 2017-18 season: 139

**Influenza-Like Illness Outbreaks by Facility Type – Maine, 2017-18**

<table>
<thead>
<tr>
<th>County</th>
<th>LTC</th>
<th>AC</th>
<th>K12</th>
<th>Univ</th>
<th>HCW</th>
<th>Inst</th>
<th>Camp</th>
<th>Total</th>
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<tbody>
<tr>
<td>Androscoggin</td>
<td>6</td>
<td>3</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Aroostook</td>
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<td>0</td>
<td>1</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Hancock</td>
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<tr>
<td>Kennebec</td>
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<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Knox</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Sagadahoc</td>
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<tr>
<td>Somerset</td>
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<td>Waldo</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Washington</td>
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<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>York</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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<td>10</td>
<td>10</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>139</td>
</tr>
</tbody>
</table>

**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

**Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2017-18**

All data is preliminary and subject to change
Influenza Deaths
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 which is why the Pneumonia and Influenza (P&I) death information is on page 1 of this report.

- # deaths reported this week: 1
- Total influenza deaths 2017-18 season: 80

Pediatric Influenza Deaths
- No pediatric influenza-associated deaths reported in Maine during the 2017-18 influenza season

National Influenza Surveillance Data
Source: http://www.cdc.gov/flu/weekly/
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