Summary: As of 4/18/2015, 2216 cases of confirmed influenza were reported to the Boston Public Health Commission (BPHC), with 535 (24.1%) cases requiring hospitalization. Twenty-seven influenza-associated deaths have been reported. Emergency department visits for influenza-like illness (ILI) comprised 1.15% of all ED visits this week.

Influenza activity in Boston continues at low levels. Influenza B remains the predominant circulating strain. BPHC reminds everyone that the influenza vaccine remains the best available tool for preventing illness.

Cases of influenza diagnosed in Boston and confirmed by any laboratory test must be reported to BPHC.

Influenza Report - For the week ending 4/18/2015

<table>
<thead>
<tr>
<th>Reported Cases (Boston Res.)</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza A</td>
<td>1826</td>
</tr>
<tr>
<td>Influenza B</td>
<td>373</td>
</tr>
<tr>
<td>Influenza A and B</td>
<td>17</td>
</tr>
<tr>
<td>Total</td>
<td>2216</td>
</tr>
</tbody>
</table>

ED Surveillance

| This Week % ILI | 1.15% |
| Average % ILI (since 10/1/2014) | 1.23% |

CDC Health Update Regarding Treatment of Patients with Influenza with Antiviral Medications

This CDC Health Update was issued on 1/9/2015:

1) to remind clinicians that influenza should be high on their list of possible diagnoses for ill patients, because influenza activity is elevated nationwide, and

2) to advise clinicians that all hospitalized patients and all high-risk patients (hospitalized or outpatient) with suspected influenza should be treated as soon as possible with an influenza antiviral medication. Clinicians should not wait for confirmatory influenza testing. Antivirals work best when given early, but therapeutic benefit has been observed even when treatment is initiated later.

Hospitalization Rates by Age Group, Boston Residents, 10/1/2014 - 4/18/2015

<table>
<thead>
<tr>
<th>% Hospitalized</th>
<th>&lt;5 yrs</th>
<th>5-17 yrs</th>
<th>18-44 yrs</th>
<th>45-64 yrs</th>
<th>65+ yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Hospitalized</td>
<td>7.8%</td>
<td>10.8%</td>
<td>8.8%</td>
<td>23.8%</td>
<td>52.3%</td>
</tr>
</tbody>
</table>

Reported Influenza Cases and % ILI ED Visits, 2014-15
Cases of influenza diagnosed in Boston and confirmed by any laboratory test must be reported to BPHC. Influenza like illness (ILI) is defined as "flu" OR "fever and a cough or sore throat" in the ED chief complaint as captured by the BPHC Syndromic Surveillance System.
Geographic Distribution

Rate of Confirmed Influenza Cases by Neighborhood per 100,000 Population
October 1, 2014 - April 18, 2015

Rate of ILI Syndrome ED Visits by Neighborhood per 100,000 Population
October 1, 2014 - April 18, 2015

Neighborhood Legend

A/B=Allston/Brighton
BB=Back Bay
CH=Charlestown
EB=East Boston
FW=Fenway
HP=Hyde Park
JP=Jamaica Plain
MT=Mattapan
ND=North Dorchester
RS=Roslindale
RX=Roxbury
SB=South Boston
SD=South Dorchester
SE=South End
WR=West Roxbury