TO: All Clinical and Public Health Staff
FROM: Lauren DiBiase, MS, CIC; Hospital Epidemiology
RE: Influenza and Other Respiratory Virus Surveillance Summary
DATE: April 19, 2018

Figure 1: weekly count of total and positive influenza PCR tests at UNC McLendon Laboratories
Table 1: types of influenza virus isolates identified by UNC McLendon Laboratories and NC State Laboratory of Public Health
Figure 2: weekly count of other respiratory viral infections at UNC McLendon Laboratories
Figure 3: weekly percentage of UNC ED visits due to influenza-like illness (data source: NC DETECT)
Figure 4: count of influenza infections at UNC McLendon Laboratories by age group category and virus type
Figure 5: cumulative percentage of influenza infections at UNC McLendon Laboratories by type of visit

Influenza-Associated Deaths at UNC Hospitals
- 8 deaths: ages 25-49: 2; ages 50-64: 2; ages 65+: 4
- Influenza A (not typed): 4; Influenza A/H3: 2; Influenza A/H1N1: 1; Influenza B: 1
- Direct admissions: 3; Transferred: 5

Figure 1.

Table 1.
Influenza Virus Isolates Identified by UNC McLendon Laboratories and NC State Laboratory of Public Health (*includes isolates tested since 10/1/17*)

<table>
<thead>
<tr>
<th>Virus Type</th>
<th># Cumulative Positive Results</th>
<th>UNC McLendon Laboratories</th>
<th>NC State Laboratory of Public Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (subtype unknown)</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>A (not typed)</td>
<td>1126</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A/H1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A(H1N1) Pandemic</td>
<td>12</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>A/H3</td>
<td>37</td>
<td>106</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>532</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1707</td>
<td>215</td>
<td></td>
</tr>
</tbody>
</table>
Figure 2.

**Weekly Respiratory Viral Infections Surveillance: UNC McLendon Labs**

Number of Positive Labs

Week Ending Date

- Rhinovirus
- RSV
- Parainfluenza 1, 2, 3, 4
- Adenovirus
- Coronavirus
- Metapneumovirus

Figure 3.

**Percentage of UNC ED visits due to patients with influenza-like illness**

% ILI Visits

Week Ending Date

- %ILI Visits 2016-2017
- %ILI Visits 2017-2018
Figure 4.

Percentage of Influenza Lab-Confirmed Cases, By Type of Visit: UNC McLendon Laboratories

- Clinic or Lab Visit, 47.2%
- ED, 37.8%
- Admission - Floor, 10.8%
- Admission - ICU, 4.2%

Figure 5.

Number of Influenza Laboratory Confirmed Cases by Age Group and by Influenza Virus Type: UNC McLendon Laboratories

- 0-4 Infant/Toddler
- 5-17 Elementary, Middle, and High School
- 18-24 College
- 25-49 Young Adult
- 50-64 Middle Aged
- 65+ Senior

Legend:
- Influenza A/H1N1
- Influenza A/H3
- Influenza A/unknown subtype
- Influenza B