Influenza Update

March 14, 2017
Overview

• Update on influenza-like-illness (ILI)
• Update on IHS influenza vaccine coverage
• Healthcare Personnel mid-season influenza vaccine coverage
U.S. Influenza Activity
Week 9 (ending March 4 2017)

- Nationally ILI activity is decreasing, but remains above the baseline of 2.2%
- While influenza activity remained elevated for the 12th consecutive week, the season has likely peaked.
- Most activity so far has been caused by influenza A, H3N2 strain
  - Increasing proportion of Influenza B strains
- To date, there have been 48 influenza-associated pediatric deaths in the United States
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2016-2017 and Selected Previous Seasons.
Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending March 4, 2017 - Week 9

* This map indicates geographic spread & does not measure the severity of influenza activity
Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System

Data through the week ending February 18, 2017, as of March 9, 2017

% of All Deaths Due to P&I

Epidemic Threshold

Seasonal Baseline

MMWR Week
U.S. Influenza Vaccine Supply

• Influenza vaccine supply:
  – Projected: 157 million - 168 million doses

• Distributed doses as of Feb. 24, 2017
  – 145.8 million doses
IHS Influenza Awareness System as of 03/04/2017 (Week 9)

- The proportion of ILI visits across IHS is 2.0%, above the IHS ILI baseline of 1.77%

- Five IHS regions are reporting elevated ILI activity

- ~338,000 doses of influenza vaccine have been administered in IHS

- Weekly IIAS reports available on the IHS Flu Website
  - [www.ihs.gov/flu](http://www.ihs.gov/flu)
IHS ILI Activity as of 03/04/17

% of outpatient visits for influenza-like-illness (ILI)

Source IIAS ILINet
IHS INFLUENZA VACCINE COVERAGE

Week 09
Influenza Vaccination Coverage by Age Group*

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Active Clinical Population**</th>
<th>Seasonal Flu Vaccine (At Least 1 Dose)***</th>
<th>% Seasonal Flu (At Least 1 Dose)</th>
<th>Total #Doses Administered****</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 months</td>
<td>4,619</td>
<td>56</td>
<td>1.2</td>
<td>58</td>
</tr>
<tr>
<td>6 - 23 months</td>
<td>22,486</td>
<td>13,525</td>
<td>60.1</td>
<td>17,478</td>
</tr>
<tr>
<td>2 - 4 years</td>
<td>54,909</td>
<td>17,162</td>
<td>31.3</td>
<td>17,874</td>
</tr>
<tr>
<td>5 - 17 years</td>
<td>206,922</td>
<td>68,019</td>
<td>32.9</td>
<td>69,009</td>
</tr>
<tr>
<td>18 - 49 years</td>
<td>420,923</td>
<td>109,989</td>
<td>26.1</td>
<td>111,602</td>
</tr>
<tr>
<td>50 - 64 years</td>
<td>176,159</td>
<td>71,433</td>
<td>40.6</td>
<td>72,593</td>
</tr>
<tr>
<td>65 + years</td>
<td>101,527</td>
<td>48,619</td>
<td>47.9</td>
<td>49,518</td>
</tr>
<tr>
<td>Children (6 months-17 years)</td>
<td>284,317</td>
<td>98,706</td>
<td>34.7</td>
<td>104,361</td>
</tr>
<tr>
<td>Adults (18 + years)</td>
<td>698,609</td>
<td>230,041</td>
<td>32.9</td>
<td>233,713</td>
</tr>
<tr>
<td>All (6 months +)</td>
<td>982,926</td>
<td>328,747</td>
<td>33.4</td>
<td>338,074</td>
</tr>
</tbody>
</table>
Influenza Vaccine Coverage as of 03/04/2017

- Adults (18 + years)
- All (6 months +)
- Children (6 months-17 years)
Influenza Vaccine Coverage
Week 09
2015-16 vs. 2016-2017

Influenza Vaccine Coverage

Alaska | ABQ | BEM | BIL | CAO | GPA | NAV | NSA | OCA | PHX | POR | TUC | ALL

2015-2016 | 2016-2017
# Influenza Vaccine Doses Administered by Influenza Vaccine Type*

<table>
<thead>
<tr>
<th>Area</th>
<th>INACTIVE CVX CODES*</th>
<th>CVX 88 FLU-NOS**</th>
<th>CVX 111 FLU-LAIV3</th>
<th>CVX 135 FLU-HIGH</th>
<th>CVX 140 FLU-LAIV3pf</th>
<th>CVX 141 FLU-LIIV3</th>
<th>CVX 144 FLU-DERMAL</th>
<th>CVX 149 FLU-LAIV4</th>
<th>CVX 150 FLU-LIIV4pf</th>
<th>CVX 153 FLU-ccLIIV3</th>
<th>CVX 155 FLU-RIV3</th>
<th>CVX 158 LIIV4</th>
<th>CVX 161 IIV4pf-ped</th>
<th>CVX 166</th>
<th>Proc 99.52 Vac Inf</th>
<th>ICD-9 V04.81 Vac Inf</th>
<th>CPT Billing Codes+</th>
<th>Cumulative # of Doses Seasonal Flu</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK</td>
<td>4</td>
<td>327</td>
<td>0</td>
<td>481</td>
<td>43</td>
<td>623</td>
<td>1</td>
<td>0</td>
<td>6512</td>
<td>1</td>
<td>2</td>
<td>3970</td>
<td>625</td>
<td>22</td>
<td>0</td>
<td>84</td>
<td>12695</td>
<td></td>
</tr>
<tr>
<td>ALB</td>
<td>1</td>
<td>213</td>
<td>0</td>
<td>1321</td>
<td>616</td>
<td>11380</td>
<td>1</td>
<td>0</td>
<td>5246</td>
<td>0</td>
<td>6</td>
<td>2213</td>
<td>829</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>21922</td>
</tr>
<tr>
<td>BEM</td>
<td>295</td>
<td>118</td>
<td>0</td>
<td>451</td>
<td>28</td>
<td>2959</td>
<td>0</td>
<td>2</td>
<td>4268</td>
<td>12</td>
<td>4</td>
<td>3719</td>
<td>429</td>
<td>47</td>
<td>0</td>
<td>2</td>
<td>263</td>
<td>12597</td>
</tr>
<tr>
<td>BIL</td>
<td>5</td>
<td>273</td>
<td>0</td>
<td>1044</td>
<td>15</td>
<td>2344</td>
<td>0</td>
<td>0</td>
<td>11852</td>
<td>0</td>
<td>2</td>
<td>1768</td>
<td>1150</td>
<td>167</td>
<td>0</td>
<td>0</td>
<td>131</td>
<td>18751</td>
</tr>
<tr>
<td>CAO</td>
<td>19</td>
<td>222</td>
<td>0</td>
<td>1423</td>
<td>34</td>
<td>3053</td>
<td>1</td>
<td>8</td>
<td>8837</td>
<td>0</td>
<td>2</td>
<td>5873</td>
<td>1841</td>
<td>60</td>
<td>0</td>
<td>2</td>
<td>136</td>
<td>21511</td>
</tr>
<tr>
<td>GPA</td>
<td>3</td>
<td>515</td>
<td>0</td>
<td>1096</td>
<td>161</td>
<td>13412</td>
<td>0</td>
<td>0</td>
<td>13422</td>
<td>12</td>
<td>26</td>
<td>5948</td>
<td>1412</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>94</td>
<td>36110</td>
</tr>
<tr>
<td>NSA</td>
<td>254</td>
<td>361</td>
<td>0</td>
<td>357</td>
<td>144</td>
<td>5864</td>
<td>244</td>
<td>0</td>
<td>4304</td>
<td>4</td>
<td>20</td>
<td>356</td>
<td>238</td>
<td>348</td>
<td>0</td>
<td>0</td>
<td>142</td>
<td>12636</td>
</tr>
<tr>
<td>NAV</td>
<td>31</td>
<td>411</td>
<td>1</td>
<td>1875</td>
<td>28</td>
<td>10694</td>
<td>9</td>
<td>0</td>
<td>14296</td>
<td>1</td>
<td>2</td>
<td>47563</td>
<td>3246</td>
<td>1080</td>
<td>0</td>
<td>0</td>
<td>224</td>
<td>79461</td>
</tr>
<tr>
<td>OKC</td>
<td>277</td>
<td>2527</td>
<td>1</td>
<td>2508</td>
<td>15</td>
<td>30006</td>
<td>7</td>
<td>1</td>
<td>10090</td>
<td>1</td>
<td>18</td>
<td>3080</td>
<td>1742</td>
<td>553</td>
<td>0</td>
<td>0</td>
<td>239</td>
<td>51065</td>
</tr>
<tr>
<td>PHX</td>
<td>3</td>
<td>583</td>
<td>0</td>
<td>1583</td>
<td>103</td>
<td>11767</td>
<td>29</td>
<td>0</td>
<td>23101</td>
<td>0</td>
<td>20</td>
<td>781</td>
<td>3064</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>252</td>
<td>41288</td>
</tr>
<tr>
<td>POR</td>
<td>10</td>
<td>470</td>
<td>1</td>
<td>805</td>
<td>1328</td>
<td>8552</td>
<td>14</td>
<td>1</td>
<td>5781</td>
<td>29</td>
<td>26</td>
<td>3716</td>
<td>448</td>
<td>1313</td>
<td>0</td>
<td>0</td>
<td>899</td>
<td>23393</td>
</tr>
<tr>
<td>TUC</td>
<td>0</td>
<td>60</td>
<td>0</td>
<td>33</td>
<td>29</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>7070</td>
<td>1</td>
<td>0</td>
<td>47</td>
<td>583</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>43</td>
<td>7877</td>
</tr>
<tr>
<td>HQ</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

* Inactive CVX Codes 15 (FLU-TIVhx), 16 (FLU-WHOLE), 123 (FLU-H5N1), and 151 (FLU-NasNOS) should not be used to document flu vaccines given this flu season. Doses are NOT deduplicated.

** CVX Code 88 (FLU-NOS) should only be used to document flu vaccines given elsewhere when flu vaccine type is unknown.

+ CPT Flu codes include: 90654-90662, 90672-90673, 90685-90686, 90724, G0008, G8108.

^ ICD9 codes V04.8 and V06.6 are not displayed on this report and are not used in any of the influenza vaccine coverage calculations.
IHS Healthcare Personnel Influenza vaccine coverage
IHS vs. Tribal
As of Dec. 31, 2016

- IHS: 84.3% (2015-2016), 90.2% (2016-2017)
- Tribal: 68.6% (2015-2016), 68.8% (2016-2017)
Summary

• Influenza activity is decreasing across the country
  – Influenza activity remains elevated, but season may have peaked

• Increase in Influenza B strains
  – Second waves of influenza B later in the season have occurred in many previous seasons

• IHS facilities have achieved the HP 2020 Goal for influenza vaccine coverage among Health Care Personnel!

• Coverage among patients, however, remains suboptimal
  – Only 33.4% of patients 6 months and older received a flu vaccine this season