INFLUENZA SURVEILLANCE REPORT: HEALTH SERVICE REGION 2/3
Week 42 (October 16 - 22, 2016)

INFLUENZA ACTIVITY LEVEL, HSR 2/3
* See page 6 for activity level determination

| Minimal | Sporadic | Local | Regional | Widespread |

WEEKLY OVERVIEW

Health Service Region 2/3
- 0.9% of patients presented with influenza-like illness (ILI), which is below the HSR 2/3 baseline of 3.3%.
- The overall school absenteeism rate was 2.2%, of which 3.5% was attributable to ILI.
- 1.7% of tests performed were positive for influenza.
- No influenza-associated pediatric deaths were reported this week. None have been reported this season.

Texas
- 2.5% of patients presented with ILI, which is below the statewide baseline of 6.3%.
- 14 out of 1,036 specimens (1.4%) reported to the state were positive for influenza.
- No influenza-associated institutional outbreaks were reported this week.
- No influenza-associated pediatric deaths were reported this week. None have been reported this season.

United States
- 1.3% of patients presented with ILI, which is below the baseline of 2.2%.
- 5.3% of deaths were due to pneumonia and influenza, which is below the epidemic threshold of 6.5%.
- 176 out of 10,837 (1.6%) tests reported to WHO and NREVSS laboratories were positive for influenza.
- Influenza B represented 46.6% of positive influenza tests reported.
- No influenza-associated pediatric deaths were reported this week. None have been reported this season.

NOTE: Variability in expected influenza activity between regions exists, and therefore different baselines are established at the national, state, regional, and local levels.
During week 42, 30 healthcare facilities and 8 health departments reported data to DSHS HSR 2/3 which included a total of 73,593 patients and 1,020 patients with ILI.

Absences due to ILI accounted for 3.5% of all reported school absences this week.
During week 42, influenza was detected in 9 of 539 (1.7%) specimens tested. Of those that tested positive, 1 was confirmed by PCR or culture.

TABLE I. INFLUENZA TEST RESULTS, NUMBER AND PERCENT BY TESTING METHOD

<table>
<thead>
<tr>
<th></th>
<th>Season to Date</th>
<th>Week 41</th>
<th>Week 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Tests Performed</td>
<td>2,121</td>
<td>560</td>
<td>539</td>
</tr>
<tr>
<td>Total Positive</td>
<td>48 (2.3%)</td>
<td>14 (2.5%)</td>
<td>9 (1.7%)</td>
</tr>
<tr>
<td>Rapid Type A</td>
<td>15 (31.3%)</td>
<td>4 (28.6%)</td>
<td>6 (66.7%)</td>
</tr>
<tr>
<td>Rapid Type B</td>
<td>32 (66.7%)</td>
<td>10 (71.4%)</td>
<td>2 (22.2%)</td>
</tr>
<tr>
<td>Rapid Undifferentiated</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td>Confirmed Type A</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td>A H1N1 (2009)</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td>A H3N2</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
<td>(0.0%)</td>
</tr>
<tr>
<td>Not Subtyped</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td>Confirmed Type B</td>
<td>1 (2.1%)</td>
<td>0 (0.0%)</td>
<td>1 (11.1%)</td>
</tr>
</tbody>
</table>

The percentage of influenza A H1N1 (2009), A H3N2, and type A not subtyped are calculated as a percentage of all reported tests confirmed positive for influenza type A. Confirmed represents a positive PCR or culture.
Data captured from ESSENCE syndromic disease surveillance system representing the percentage of emergency room visits that were due to ILI for each age group. During week 42, there were 642 emergency room visits due to ILI in ESSENCE participating facilities.

The week 42 average is an average of ESSENCE reported ILI visits during week 42 in the previous 5 influenza seasons.
MAP I. INFLUENZA ACTIVITY, TEXAS WEEK 42

MAP II. INFLUENZA-LIKE ILLNESS COUNTS (ESSENCE), HSR 2/3 COUNTIES

Data gathered from facilities submitting syndromic surveillance information to ESSENCE.
The Texas Department of State Health Services, Health Service Region 2/3 Influenza Surveillance report is distributed Friday of each week.

HSR 2/3 current and past influenza reports: [https://www.dshs.state.tx.us/region2-3/influenza/](https://www.dshs.state.tx.us/region2-3/influenza/)

Texas influenza activity can be accessed at: [http://www.texasflu.org/](http://www.texasflu.org/)

National influenza activity can be accessed at: [http://www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)

If you have any questions or comments regarding this report or would like to become an influenza surveillance participant, please contact:

Scott Mize, MPH
Influenza Surveillance Coordinator
817-264-4706
Scott.Mize@dshs.state.tx.us

*HSR 2/3 ACTIVITY LEVEL DETERMINATION*

**Minimal**
No laboratory confirmed flu A or B detected in region 2 OR 3 AND little or no ILI activity in region 2 OR 3 AND no outbreaks of lab confirmed /QT flu in region 2 AND 3.

**Sporadic**
Influenza rapid A or B detected in region 2 OR 3 OR Laboratory confirmed A or B detected in region 2 OR 3 AND low ILI activity in region 2 AND 3 AND no outbreaks of lab confirmed /QT flu in region 2 OR 3.

**Local**
Laboratory confirmed flu A or B detected in region 2 OR 3 in current or previous two weeks AND moderate ILI activity in region with confirmed flu A or B in current week or previous two weeks OR one or more outbreaks of lab confirmed /QT flu in region with confirmed flu A or B in current week or previous two weeks.

**Regional**
Laboratory confirmed flu A or B detected in 2 or more counties in region 2 OR 3 in current or previous two weeks AND elevated ILI activity in region with confirmed flu A or B in current week or previous two weeks OR two or more outbreaks of lab confirmed /QT flu in region with confirmed flu A or B in current week or previous two weeks.

**Widespread**
Laboratory confirmed flu A or B detected in 2 or more counties in region 2 OR 3 in current week AND significant ILI activity in region 2 AND 3 in current week OR two or more outbreaks of lab confirmed /QT flu in region 2 AND 3 with confirmed flu A