INFLUENZA SURVEILLANCE REPORT: HEALTH SERVICE REGION 2/3
Week 8 (February 19 — February 25, 2017)

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

<table>
<thead>
<tr>
<th>Activity Level</th>
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<tbody>
<tr>
<td>Minimal</td>
</tr>
<tr>
<td>Sporadic</td>
</tr>
<tr>
<td>Local</td>
</tr>
<tr>
<td>Regional</td>
</tr>
<tr>
<td>Widespread</td>
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</table>

WEEKLY OVERVIEW

Health Service Region 2/3

- 5.7% of patients presented with influenza-like illness (ILI), which is above the HSR 2/3 baseline of 3.3%.
- The overall school absenteeism rate was 3.3%, of which 10.1% was attributable to ILI.
- 26.1% of tests performed were positive for influenza.
- Three new institutional outbreaks were reported in HSR 2/3 during week 8.
- One influenza-associated pediatric death was reported this week. Specimen collected from the child was positive for influenza A (H3) by PCR; the child was not vaccinated. This is the first influenza-associated pediatric death this season in HSR 2/3.

Texas

- 9.4% of patients presented with ILI, which is above the statewide baseline of 6.3%.
- 1,076 out of 3,951 (27.2%) specimens reported to the state were positive for influenza.
- Two new institutional outbreaks were reported in week 8 from multiple health service regions.
- One pediatric death was reported this week. Two have been reported this season.

United States

- 4.8% of patients presented with ILI, which is above the baseline of 2.2%.
- 7.8% of deaths were due to influenza and pneumonia, which is above the epidemic threshold of 7.5%.
- 8,515 out of 35,124 (24.2%) of tests reported to WHO and NREVSS laboratories were positive for influenza.
- Influenza B represented 26.0% of positive influenza tests reported.
- Six influenza-associated pediatric deaths were reported this week. Forty 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 8, 33 healthcare facilities and 9 health departments reported data to DSHS HSR 2/3 which included a total of 70,412 patients and 3,993 patients with ILI.

Absences due to ILI accounted for 10.1% of all reported school absences this week.
During week 8, influenza was detected in 1,831 of 7,020 (26.1%) specimens tested. Of those that tested positive, 151 were 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 7</th>
<th>Week 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Tests Performed</td>
<td>55,810</td>
<td>7,954</td>
<td>7,020</td>
</tr>
<tr>
<td>Total Positive</td>
<td>10079 (18.1%)</td>
<td>1891 (23.8%)</td>
<td>1831 (26.1%)</td>
</tr>
<tr>
<td>Rapid Type A</td>
<td>6906 (68.5%)</td>
<td>1277 (67.5%)</td>
<td>1251 (68.3%)</td>
</tr>
<tr>
<td>Rapid Type B</td>
<td>1584 (15.7%)</td>
<td>300 (15.9%)</td>
<td>324 (17.7%)</td>
</tr>
<tr>
<td>Rapid Undifferentiated</td>
<td>503 (5.0%)</td>
<td>192 (10.2%)</td>
<td>105 (5.7%)</td>
</tr>
<tr>
<td>Confirmed Type A</td>
<td>988 (9.8%)</td>
<td>100 (5.3%)</td>
<td>128 (7.0%)</td>
</tr>
<tr>
<td>A H1N1 (2009)</td>
<td>88 (8.9%)</td>
<td>6 (6.0%)</td>
<td>6 (4.7%)</td>
</tr>
<tr>
<td>A H3N2</td>
<td>326 (33.0%)</td>
<td>63 (63.0%)</td>
<td>97 (75.8%)</td>
</tr>
<tr>
<td>Not Subtyped</td>
<td>110 (11.1%)</td>
<td>12 (12.0%)</td>
<td>6 (4.7%)</td>
</tr>
<tr>
<td>Confirmed Type B</td>
<td>95 (0.9%)</td>
<td>22 (1.2%)</td>
<td>23 (1.3%)</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 8, there were 2,618 emergency room visits due to ILI in ESSENCE participating facilities.

The week 8 average is an average of ESSENCE reported ILI visits during week 8 in the previous 5 influenza seasons.
MAP I. INFLUENZA ACTIVITY, TEXAS WEEK 8

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/

Texas influenza activity can be accessed at: http://www.texasflu.org/

National influenza activity can be accessed at: 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:

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*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.