Influenza Activity Code, County and State Levels

<table>
<thead>
<tr>
<th>Tarrant County: Week 40</th>
<th>Tarrant County: Week 39</th>
<th>Texas: Week 39</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td>No Activity</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

Respiratory Virus Activity Summary

- The percentage of reported influenza-like illness (ILI) in Tarrant County increased from 1.2% in week 39 to 1.3% in week 40 and is currently below the 2016-2017 Tarrant County baseline (3.8%).

- The percentage of all cause absenteeism was 3.9% during week 40 in Tarrant County. Absenteeism due to ILI and school nurse office visits due to ILI were 2.9% and 3.6% respectively during week 40 in Tarrant County.

- The percentage of rapid flu test positives in Tarrant County increased from 0.8% in week 39 to 3.5% in week 40.

- During the 2016-2017 influenza season, 0 Tarrant County influenza-associated pediatric deaths has been reported. As of week 39, 7 influenza-associated pediatric deaths have been reported in Texas, with a total of 85 reported nationwide for the 2015-2016 season.

- During the 2016-2017 influenza season, 0 influenza outbreaks have been reported in Tarrant County schools and 0 localized influenza outbreak has been reported within institutions in Tarrant County.

- Since last report, 8 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Respiratory Syncytial Virus (1).

- Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 8 surveillance specimens.

- At the state level during week 39, the proportion of outpatient visits for ILI (3.9%) was below the Texas baseline (6.3%).

- At the national level during week 39, 2.2% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (1.3%) was below the national baseline (2.1%). As of the week 39, the proportion of deaths in week 37 attributed to pneumonia and influenza from the National Center for Health Statistics (5.6%) was below the epidemic threshold (6.1%).
Eight-Week Influenza Like Illness (ILI): Local and State Levels

Graph 1. Texas and Tarrant County % ILI

Graph 2. ILI % by Age Groups, Tarrant County

In week 40, 1.3% of visits to health care providers were due to ILI. ILI levels are currently below the county established baseline of 3.8% and are lower than the state of Texas levels. In Tarrant County, of 303 reported patients presenting with ILI the majority (45.2%) were in the 5-24 years of age group; 65 years and older accounted for the lowest percentage of health care visits due to ILI (2.3%).

NOTE: Tarrant County ILI activity is assessed using information provided by surveillance participants and the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE). Texas ILI activity is assessed using information provided by a network of providers. For week 40, 37 surveillance participants reported ILI information to Tarrant County Public Health. For week 39, 91 providers reported information to the Texas Department of State Health Services.
NOTE Tarrant County ILI distribution map is from ESSENCE and includes data from 46 hospitals that voluntarily provide data based on chief complaints of Tarrant County residents admitted to Emergency Departments in North Central Texas. This map represents the number of cases from each zip code, not the percent. Zip codes with larger populations are expected to have more cases.
For week 40, 8 school districts provided general absenteeism data, 7 school districts provided data regarding absenteeism due to ILI, and 7 school districts provided data regarding nurses’ office visits due to ILI.

### Table 1. Influenza Rapid Test Results, Tarrant County

<table>
<thead>
<tr>
<th>CDC Week Number</th>
<th>38  (Sept 18-24)</th>
<th>39  (Sept 25-Oct 1)</th>
<th>40  (Oct 2-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td># Influenza Tests Performed</td>
<td>384</td>
<td>375</td>
<td>520</td>
</tr>
<tr>
<td>% Influenza Positive</td>
<td>1.8%</td>
<td>0.8%</td>
<td>3.5%</td>
</tr>
<tr>
<td># Influenza A Positive</td>
<td>2</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>% Influenza A Positive</td>
<td>28.6%</td>
<td>0.0%</td>
<td>22.2%</td>
</tr>
<tr>
<td># Influenza B Positive</td>
<td>5</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>% Influenza B Positive</td>
<td>71.4%</td>
<td>100.0%</td>
<td>77.8%</td>
</tr>
<tr>
<td># Non-differentiated Positive</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>% Non-differentiated Positive</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

NOTE: Tarrant County rapid influenza test results are reported weekly by influenza surveillance participants. For CDC week 40, rapid influenza test results were reported by 15 hospitals, 14 healthcare clinics, 1 long-term care facility, and 1 university.
Table 2. North Texas Regional Laboratory: Respiratory Virus Results

<table>
<thead>
<tr>
<th>Number of Specimens Tested</th>
<th>Current Week</th>
<th>2016-2017 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Specimens</td>
<td>1 (12.5%)</td>
<td>1 (12.5%)</td>
</tr>
</tbody>
</table>

**Influenza A**
- 0 (0.0%)
- Influenza A H1: 0 (0.0%)
- Influenza A H3: 0 (0.0%)
- Influenza A, Inconclusive subtype: 0 (0.0%)
- Influenza A, Unsubtypeable: 0 (0.0%)

**Influenza B**
- 0 (0.0%)
- Influenza B Yamagata: 0 (0.0%)
- Influenza B Victoria: 0 (0.0%)

**Respiratory Syncytial Virus**
- 1 (100.0%)

**Adenovirus**
- 0 (0.0%)

**Human Metapneumovirus**
- 0 (0.0%)

**Parainfluenza-1**
- 0 (0.0%)

**Parainfluenza-2**
- 0 (0.0%)

**Parainfluenza-3**
- 0 (0.0%)

**Rhinovirus**
- 0 (0.0%)

**Inconclusive**
- 0 (0.0%)

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1 Laboratory results based on real-time PCR analysis; information is for the 2016-2017 season.
2 Influenza A subtype not determined; further analysis pending.
3 Influenza B genotyping is only included in current week column if genotyping occurred in the same week as original PCR testing.
4 Inconclusive for influenza A and influenza B; not included in positive specimens count.

Graph 5. North Texas Regional Laboratory: Influenza Virus Results

- CDC Week
- Number of Positive Influenza Specimens
- % of Positive Influenza Specimens

Influenza A H1, Influenza A H3, Influenza A, Inconclusive subtype, Influenza B, Percent Positive
Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks' activity. The majority of influenza cases are not reportable by law to the Texas Department of State Health Services. This map contains data from sentinel sites and does not represent all influenza cases in the state. Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown. http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2016/

*Note: The most recent ILINet Activity Indicator Map released by the CDC was at the end of the flu season, Week 20 (ending May 21, 2016).

Data collected in ILINet are used to produce a measure of ILI activity by state. Activity levels are based on the percent of outpatient visits in a state due to ILI and are compared to the average percent of ILI visits that occur during spring and fall weeks with little or no influenza virus circulation. This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels. Data collected in ILINet may disproportionately represent certain populations within a state, and therefore, may not accurately depict the full picture of influenza activity for the whole state. http://www.cdc.gov/flu/weekly/
The Tarrant County Influenza Surveillance Weekly Report is available on the Tarrant County Public Health web site at: www.tarrantcounty.com/flu

If you have questions or comments regarding influenza surveillance, please contact:

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NOTE:

Influenza-like Illness (ILI) is defined as fever (temperature ≥ 100°F) plus a cough OR a sore throat, in the absence of a known cause other than influenza.

Tarrant County reporting quadrants consist of Northwest, Northeast, Southwest and Southeast regions within the boundaries of Interstate 35 and Interstate 30.

Tarrant County ILI baselines were determined using a similar method as the Centers for Disease Control Prevention Regional ILI baselines and Texas Department of State Health Services Texas baseline. Regional ILI baselines are determined by the Centers for Disease Control and Prevention and can be accessed at http://www.cdc.gov/flu/weekly/overview.htm

Additional information regarding Tarrant County, Texas and national ILI activity can be accessed at

http://health.tarrantcounty.com/flu
http://dshs.texas.gov/idcu/disease/influenza/surveillance/2016/
http://www.cdc.gov/flu/weekly/

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