Influenza Activity Code, County and State Levels

<table>
<thead>
<tr>
<th>Tarrant County: Week 22</th>
<th>Tarrant County: Week 21</th>
<th>Texas: Week 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sporadic</td>
<td>Sporadic</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 0.9% in week 21 to 1.1% in week 22 and is below the 2016-2017 Tarrant County baseline of 3.8%.

- Due to the closing of the traditional school year, data on student absenteeism, absenteeism due to ILI, and nurses’ office visits due to ILI will not be reported until the commencement of the 2017-2018 school year in August 2017.

- The percentage of rapid flu test positives in Tarrant County decreased from 7.0% in week 21 to 6.0% in week 22.

- During the 2016-2017 influenza season, 0 Tarrant County influenza-associated pediatric deaths have been reported. As of week 21, 6 influenza-associated pediatric deaths have been reported in Texas, with a total of 98 reported nationwide for the 2016-2017 season.

- During the 2016-2017 influenza season, 2 influenza outbreaks have been reported in Tarrant County schools and 6 localized influenza outbreaks have been reported within institutions in Tarrant County.

- Since last report, 6 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Influenza B (2) and Rhinovirus (3). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 274 surveillance specimens and of these, 111 have been positive for influenza.

- In Texas during week 21, the proportion of outpatient visits for ILI, 3.0%, was below the state baseline of 6.6%.

- Nationally during week 21, 5.0% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (1.2%) was below the national baseline (2.2%). The proportion of deaths in week 19 attributed to pneumonia and influenza from the National Center for Health Statistics (5.7%) was below the epidemic threshold (6.8%).
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 22, 1.1% of visits to health care providers were due to 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 242 reported patients presenting with ILI the largest percentage, 37.6%, was in the 0-4 age group.

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). For week 22, 36 surveillance participants - 19 Hospitals, 14 clinics, 1 Business, and 2 Colleges/Universities—reported ILI information to Tarrant County Public Health. Texas ILI activity is assessed using information provided by a network of providers. For week 21, 88 providers reported information to the Texas Department of State Health Services.
Graph 3. Tarrant County % of patient visits due to ILI during flu season 2013-2014 through 2016-2017

Map 1. Tarrant County ER ILI Cases by Zip Code, Week 22

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 22, no data are reported due to the end of the traditional school year. Reporting will recommence at the beginning of the 2017-2018 school year in August 2018.

Table 1. Influenza Rapid Test Results, Tarrant County

<table>
<thead>
<tr>
<th>CDC Week Number</th>
<th>20 (May 14-20)</th>
<th>21 (May 21-27)</th>
<th>22 (May 28-June 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td># Influenza Tests Performed</td>
<td>244</td>
<td>242</td>
<td>282</td>
</tr>
<tr>
<td>% Influenza Positive</td>
<td>4.1%</td>
<td>7.0%</td>
<td>6.0%</td>
</tr>
<tr>
<td># Influenza A Positive</td>
<td>1</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>% Influenza A Positive</td>
<td>10%</td>
<td>29.4%</td>
<td>23.5%</td>
</tr>
<tr>
<td># Influenza B Positive</td>
<td>9</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>% Influenza B Positive</td>
<td>90%</td>
<td>70.6%</td>
<td>76.5%</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%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

NOTE: Tarrant County rapid influenza test results are reported weekly by influenza surveillance participants. For CDC week 22, rapid influenza test results were reported by 13 hospitals, 14 Clinics, and 1 College/University.
### Influenza Confirmatory Test Results: Tarrant County

**Table 2. North Texas Regional Laboratory: Respiratory Virus Results**

<table>
<thead>
<tr>
<th></th>
<th>Current Week</th>
<th>2016-2017 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Specimens Tested</strong></td>
<td>6</td>
<td>274</td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>5 (83.3%)</td>
<td>163 (59.5%)</td>
</tr>
<tr>
<td><strong>Influenza A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A H1</td>
<td>0 (0%)</td>
<td>9 (11.7%)</td>
</tr>
<tr>
<td>Influenza A H3</td>
<td>0 (0%)</td>
<td>67 (87.0%)</td>
</tr>
<tr>
<td>Influenza A, Inconclusive subtype</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Influenza A, Unsubtypeable²</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td><strong>Influenza B</strong></td>
<td>2 (40.0%)</td>
<td>34 (20.9%)</td>
</tr>
<tr>
<td>Influenza B Yamagata³</td>
<td>0 (0%)</td>
<td>18 (78.3%)</td>
</tr>
<tr>
<td>Influenza B Victoria³</td>
<td>0 (0%)</td>
<td>5 (21.7%)</td>
</tr>
<tr>
<td><strong>Respiratory Syncytial Virus</strong></td>
<td>0 (0%)</td>
<td>11 (6.7%)</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>0 (0%)</td>
<td>8 (4.9%)</td>
</tr>
<tr>
<td>Human Metapneumovirus</td>
<td>0 (0%)</td>
<td>3 (1.8%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-1</strong></td>
<td>0 (0%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-2</strong></td>
<td>0 (0%)</td>
<td>4 (2.5%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-3</strong></td>
<td>0 (0%)</td>
<td>4 (2.5%)</td>
</tr>
<tr>
<td>Rhinovirus</td>
<td>3 (60.0%)</td>
<td>28 (17.2%)</td>
</tr>
<tr>
<td><strong>Inconclusive⁴</strong></td>
<td>0 (0%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

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. Reported percentages for B genotyping is based on previous typing by the lab and may not reflect the total number of cases.
4. Inconclusive for influenza A and influenza B; not included in positive specimens count.

**NOTE:** Percentages may not add up to 100% due to co-infections, 5 specimens have tested positive with a co-infection: 4 rhinovirus and adenovirus, 1 RSV and flu H3.

**Graph 5. North Texas Regional Laboratory: Influenza Virus Results**

![Graph of Influenza Virus Results]
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: health.tarrantcounty.com/flu

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

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Director, Tarrant County Public Health

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 and 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/2017/
http://www.cdc.gov/flu/weekly/