Respiratory Virus Activity Summary

- The percentage of reported influenza-like illness (ILI) in Tarrant County stayed the same from 1.1% in week 27 to 1.1% in week 28 and is currently below the 2013-2014 Tarrant County baseline (2.7%).

- 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 2014-2015 school year in August, 2014.

- The percentage of rapid flu test positives in Tarrant County increased from 0.9% in week 27 to 5.8% in week 28.

- During the 2013-2014 influenza season, 1 Tarrant County influenza-associated pediatric deaths have been reported. As of week 27, 18 influenza-associated pediatric deaths have been reported in Texas, with a total of 100 reported nationwide for 2013-2014.

- During the 2013-2014 influenza season, 12 Tarrant County influenza-associated adult deaths have been reported, including 1 patient in their 30’s, 3 in their 40’s, 1 in their 50’s, and 7 over the age of 70. Nine of these deaths have been associated with influenza A, three have been associated with influenza B.*

- During the 2013-2014 influenza season, 0 influenza outbreaks have been reported in Tarrant County schools and 0 localized influenza outbreaks have been reported within institutions in Tarrant County.

- Since last report, 0 surveillance specimens were tested by The North Texas Regional Laboratory.

- Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 317 surveillance specimens.

- At the state level during week 27, the proportion of outpatient visits for ILI (3.6%) was below the Texas baseline (4.4%).

- At the national level during week 27, 3.9% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (0.8%) was below the national baseline (2.0%), and the proportion of deaths attributed to pneumonia and influenza (5.7%) was below the epidemic threshold (6.3%).

*Adult influenza deaths are not reportable in the state of Texas. This number only represents voluntary reporting and does not represent all influenza associated deaths in Tarrant County.
In week 28, 1.1% of visits to health care providers were due to ILI. ILI levels are currently below the county established baseline of 2.7% and are lower than the state of Texas levels. In Tarrant County, of 234 reported patients presenting with ILI the majority (40.6%) were in the 0-4 years of age group; 65 years and older accounted for the lowest percentage of health care visits due to ILI (2.6%).

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 physicians. For week 28, 40 surveillance participants reported ILI information to Tarrant County Public Health. For week 27, 85 physicians 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.
NOTE: Tarrant County absenteeism and student ILI is collected from 17 school districts located within Tarrant County. For week 28, no data are reported due to the end of the traditional school year. Reporting will recommence at the beginning of the 2014-2015 school year in August, 2014.

Table 1. Influenza Rapid Test Results, Tarrant County

<table>
<thead>
<tr>
<th>CDC Week Number</th>
<th>26 (June 22-28)</th>
<th>27 (June 29-July 5)</th>
<th>28 (July 6-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td># Influenza Tests Performed</td>
<td>59</td>
<td>109</td>
<td>87</td>
</tr>
<tr>
<td>% Influenza Positive</td>
<td>1.7%</td>
<td>0.9%</td>
<td>5.8%</td>
</tr>
<tr>
<td># Influenza A Positive</td>
<td>0</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>% Influenza A Positive</td>
<td>0.0%</td>
<td>100.0%</td>
<td>60.0%</td>
</tr>
<tr>
<td># Influenza B Positive</td>
<td>1</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>% Influenza B Positive</td>
<td>100.0%</td>
<td>0.0%</td>
<td>40.05</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 28, rapid influenza test results were reported by 13 hospitals, 19 healthcare clinics, 1 long-term care facility, and 1 business.
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>2013-2014 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Specimens</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td>Tested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>-</td>
<td>207 (65.3%)</td>
</tr>
<tr>
<td><strong>Influenza A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A H1</td>
<td>-</td>
<td>69 (89.6%)</td>
</tr>
<tr>
<td>Influenza A H3</td>
<td>-</td>
<td>7 (9.1%)</td>
</tr>
<tr>
<td>Influenza A, Inconclusive subtype</td>
<td>-</td>
<td>1 (1.3%)</td>
</tr>
<tr>
<td>Influenza A, Unsubtypeable</td>
<td>-</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td><strong>Influenza B</strong></td>
<td>-</td>
<td>57 (27.5%)</td>
</tr>
<tr>
<td><strong>Respiratory Syncytial Virus</strong></td>
<td>-</td>
<td>10 (4.8%)</td>
</tr>
<tr>
<td><strong>Adenovirus</strong></td>
<td>-</td>
<td>14 (6.8%)</td>
</tr>
<tr>
<td><strong>Human Metapneumovirus</strong></td>
<td>-</td>
<td>11 (5.3%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-1</strong></td>
<td>-</td>
<td>6 (2.9%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-2</strong></td>
<td>-</td>
<td>0 (0.0%)</td>
</tr>
<tr>
<td><strong>Parainfluenza-3</strong></td>
<td>-</td>
<td>8 (3.9%)</td>
</tr>
<tr>
<td><strong>Rhinovirus</strong></td>
<td>-</td>
<td>40 (19.3%)</td>
</tr>
<tr>
<td><strong>Inconclusive</strong></td>
<td>-</td>
<td>0 (0.0%)</td>
</tr>
</tbody>
</table>

1 Laboratory results based on real-time PCR analysis; information is for the 2013-2014 season.
2 Influenza A subtype not determined; further analysis pending.
3 Inconclusive for influenza A and influenza B; not included in positive specimens count.

**NOTE:** Percentages do not add up to 100% due to co-infections, 14 specimen has tested positive with co-infections and 1 specimen has tested positive with two co-infections: 1 rhinovirus and parainfluenza-1, 3 rhinovirus and adenovirus, 3 influenza A H1 and rhinovirus, 1 influenza A H1 and respiratory syncytial virus, 1 influenza B and respiratory syncytial virus, 1 influenza B and adenovirus co-infection, 1 influenza B and parainfluenza-3, 1 rhinovirus and parainfluenza-1 and human metapneumovirus co-infection, 1 rhinovirus and human metapneumovirus co-infection, 1 human metapneumovirus and adenovirus co-infection.

Graph 5. North Texas Regional Laboratory: Influenza Virus Results

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**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/2014/

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/
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

www.tarrantcounty.com/flu
http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2014/
http://www.cdc.gov/flu/weekly/