Travis County Influenza Surveillance

Epidemiologic Overview:

- High levels of Influenza activity has been reported in Travis County, with the percentage of positive influenza tests by both rapid and PCR testing from surveillance sites about 39.7% during week 52.
- Seasonal influenza B, H3N2, and H1N1 has been identified for laboratory specimens in Travis County in recent weeks.
- Rhinovirus, Adenovirus, and Parainfluenza, has been identified for laboratory specimens in the Travis County area this season.

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>MMWR Week</td>
<td>45</td>
<td>46</td>
<td>47</td>
<td>48</td>
<td>49</td>
<td>50</td>
<td>51</td>
<td>52</td>
</tr>
<tr>
<td># Influenza Rapid Tests Performed</td>
<td>434</td>
<td>291</td>
<td>412</td>
<td>504</td>
<td>1250</td>
<td>1773</td>
<td>1271</td>
<td>2155</td>
</tr>
<tr>
<td># Total Positive Influenza Tests</td>
<td>59</td>
<td>90</td>
<td>157</td>
<td>174</td>
<td>437</td>
<td>573</td>
<td>386</td>
<td>855</td>
</tr>
<tr>
<td>% Positive Influenza Tests</td>
<td>13.6%</td>
<td>30.9%</td>
<td>38.1%</td>
<td>34.5%</td>
<td>35.0%</td>
<td>32.3%</td>
<td>30.4%</td>
<td>39.7%</td>
</tr>
<tr>
<td># Positive A Influenza</td>
<td>8</td>
<td>21</td>
<td>42</td>
<td>48</td>
<td>216</td>
<td>184</td>
<td>142</td>
<td>414</td>
</tr>
<tr>
<td># Positive B Influenza</td>
<td>38</td>
<td>53</td>
<td>97</td>
<td>109</td>
<td>165</td>
<td>313</td>
<td>165</td>
<td>396</td>
</tr>
<tr>
<td># Non-Differentiated Influenza³</td>
<td>13</td>
<td>16</td>
<td>18</td>
<td>17</td>
<td>56</td>
<td>76</td>
<td>79</td>
<td>45</td>
</tr>
<tr>
<td># Influenza-associated Deaths</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Data source: Austin/Travis County Influenza surveillance reporters.

For additional information about Influenza surveillance contact
The Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555

Other Helpful Resources
- Texas Department of State Health Services
- Center of Disease Control and Prevention
- World Health Organization

Austin/Travis County influenza surveillance does not attempt to capture all cases of influenza or influenza-like illness. These data should be used for trending purposes over time and for identifying types/strains of influenza that are occurring the Austin area rather than for estimating the total number of cases.
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Texas Antigenic Characterization Reported by DSHS Week 52.⁸

Since September 1, 2012, CDC has reported antigenic characterization results from one influenza A (H1N1) virus, seven influenza A (H3N2) viruses, and 13 influenza B viruses received from the Texas Department of State Health Services (DSHS) Laboratory.

Influenza A (H1N1) [1]
  • One virus was related to A/California/07/2009. This virus strain was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

Influenza A (H3N2) [7]
  • Seven viruses were related to A/Victoria/361/2011. This virus strain was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

Influenza B [13]
  • Thirteen viruses were related to B/Wisconsin/01/2010 (B/Yamagata lineage). This influenza B lineage was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

The national antigenic characterization and antiviral resistance testing results may be found in the CDC weekly flu report at http://www.cdc.gov/flu/weekly/. The DSHS Laboratory sends a representative sample of influenza viruses to the CDC throughout the flu season.

Texas Antiviral Resistance Reported by DSHS Week 52.⁸

No antiviral resistance results for Texas for the 2012-2013 season are available at this time.
For more information on antiviral medications please see http://www.cdc.gov/flu/professionals/antivirals/index.htm.
Figure 7. Statewide Influenza Activity

Statewide Influenza Activity
(All Influenza Types and Subtypes)
For the Week Ending December 29, 2012
(2012 MMWR Week 52)

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Austin/Travis County Health and Human Services Department
Epidemiology and Health Statistics Unit

Data source: University of Pittsburgh Real-time Outbreak and Disease Surveillance System. Data is an aggregation of Austin area chief complaint hospital data.

Figure 12. Other Respiratory Viruses Reported for Texas by DSHS Week 52

<table>
<thead>
<tr>
<th>Virus</th>
<th>Number of Laboratories Testing</th>
<th>Tests Performed</th>
<th>Positive Tests</th>
<th>Percentage of Tests Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adenovirus (respiratory)</td>
<td>4</td>
<td>596</td>
<td>7</td>
<td>1.17%</td>
</tr>
<tr>
<td>HMPV</td>
<td>4</td>
<td>412</td>
<td>10</td>
<td>2.43%</td>
</tr>
<tr>
<td>Parainfluenza virus</td>
<td>4</td>
<td>596</td>
<td>25</td>
<td>4.19%</td>
</tr>
<tr>
<td>Rhinovirus</td>
<td>3</td>
<td>393</td>
<td>97</td>
<td>24.68%</td>
</tr>
<tr>
<td>RSV</td>
<td>6</td>
<td>558</td>
<td>140</td>
<td>25.09%</td>
</tr>
</tbody>
</table>

This table was obtained from the Texas Influenza Surveillance Report. [http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2013/]

1. Influenza is not a reportable condition in Texas; therefore, data is provided by sentinel surveillance reporters and is only a sample from if the influenza activity occurring in the Austin/Travis County area.
2. Data represents rapid influenza testing, these tests provide quick results reporting only influenza A or B (no subtyping). Early in flu seasons results should be used with caution due to false positive results which can occur, especially during times when influenza activity is low.
3. Non-Differentiated refers to rapid test results that do not differentiate between influenza A and B.
4. Influenza data is collected from a variety of reporters, the number of reporters can vary week to week.
5. Data for Austin/Travis County ILL reporters only, the number of reporters can vary week to week.
6. Influenza is confirmed via PCR testing and a further subtyping may be performed. PCR testing is performed for specimens referred by area influenza surveillance reporters.
7. PCR testing is performed for specimens referred by area sentinel influenza surveillance reporters. Providers interested in becoming sentinel; providers may call the Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555.
9. Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks’ activity.
10. 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.
11. Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown.

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