Small Influenza Outbreak at an Elementary school

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Topics

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• Summary of Outbreak
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3/2/16: Received a phone call from the school nurse that 4 students in the same class were reported to have tested positive for influenza; class size is 22 students.

- SAMHD follow up with the nurse and asked if she could create a list with student name, demos, contact information and parent name.
- Initial line list was faxed on 3/3/2016
- Notice to Parents had already been sent out before the school notified SAMHD

- Use the line list to call parents to obtain doctor information, and to obtain symptoms, vaccine history and if treatment was given.
- Prevention information was given verbally over the phone to each parent called and other printed as well as electronic resources from the CDC.gov
School Information

- This school is a tuition-free public charter academy that is apart of the Texas-Science, Technology, Engineering, and Mathematics (T-STEM) program
- It serves K-5 grades only
- Class sizes average around 22 students
- Approximate total population for the school is 250 students.
Case Definitions

- **Confirmed**: Student of staff at elementary charter school that is clinically compatible and laboratory confirmed and has an onset date between 2/25/2016 and 3/6/2016

- **Probable**: Student or staff at elementary charter school that is clinically compatible and has no lab and has an onset date between 2/25/2016 and 3/6/2016
### Confirmed and Probable cases

<table>
<thead>
<tr>
<th></th>
<th>Students</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Confirmed</strong></td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td><strong>Probable</strong></td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>

N=11
Summary of Outbreak

• The index case was never laboratory confirmed but was sent home by the nurse for ILI. Mom did not vaccinate.

• All the cases who were tested were confirmed via rapid influenza testing
  – Almost all who were tested including the TA were positive for Influenza B
    • One student was reported Influenza A positive

• 3 out of 11 cases reported were vaccinated against influenza

• 7 out of 11 cases reported were prescribed Tamiflu
Grades Affected

• 6 in classroom A – 1st grade
• 1 in classroom B-1st grade
• 1-2nd grader
• 1-4th grader
• 1-kindergartener (sibling of 1st grader)
• 1-Teacher’s assistant (TA) who worked helped in the library and lunch room in conjunction with the 1st grade classrooms
Most common reported symptoms

- **Cough**: 73%
- **Fever**: 100%
- **Sore Throat**: 18%
- **Vomiting**: 18%
- **Chills**: 27%
- **Other symptoms reported**: Abdominal pain, Otitis media, myalgia, and nausea
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Epi Curve

- # of Students
- Date of illness onset

Male
Female

2/25/2016
2/26/2016
2/27/2016
2/28/2016
3/1/2016
3/2/2016
3/3/2016
3/4/2016
3/5/2016
3/6/2016
Prevention Message

- Vaccinate against Influenza
- Hand, & personal hygiene
- Avoid exposure to infected persons
- Cough and Sneeze etiquette
- Increase cleaning in class rooms and common areas in school
- Influenza Information for schools from CDC.gov website.
Issues

• Delays in obtaining medical records
• One upset Parent
• One Provider did not test on 2 cases who were siblings; clinical diagnosis
Lessons Learned

1) More education and/or awareness to providers about collecting of patient information.

2) Be more organized!

3) Having documents ready in advance to hand out to Facilities.

   A. Creating a generic form to send to the nurse to fill out.
Any Questions?