Nursing Home Influenza Outbreak

Richard A. Chamberlain MPH, RS
Epidemiologist
City of Laredo Health Department
Background

- The City of Laredo Health Department’s jurisdiction encompasses **Duval County** (Benavides, Concepcion, Freer, Realitos, & San Diego), **Jim Hogg County** (Hebbronville & Los Guerra), **Webb County** (Bruni, El Cenizo, Laredo, Mirando, Oilton & Rio Bravo) and **Zapata County** (Falcon, Lopeño, San Ignacio & Zapata)
2016-2017 Influenza Season

ILI Totals
ILI Report 15,648
Total Patients 42,278
2016-2017 Influenza Season
2016-2017 Influenza Season

Laredo Influenza 2016-2017 Season Comparison

- Flu A: 69%
- Flu B: 31%
Zipata County Influenza Outbreak

- **Wednesday, March 22, 2017**: The City of Laredo Health Department received a telephone communication from a nursing home’s Administrator to report a possible outbreak of Influenza.
- The City of Laredo Health Department investigated the initial report via laboratory reports received by fax and telephone communication of the possible outbreak.
- Region 11 assisted with providing the case definition and criteria for influenza outbreaks in nursing homes/long term care facilities.
- The City of Laredo Health Department and Region 11 officially concluded the initial report as an outbreak.
Texas Influenza Surveillance Handbook:
Long-term care facility (LTCF):
• An outbreak of AFRI or ILI in a long-term care facility is three or more cases occurring within 72 hours in residents who are in close proximity to each other (e.g., in the same area of the facility),
• OR a sudden increase of cases over the normal background rate.
• One case of confirmed influenza by any testing method along with other cases of respiratory infection in a long-term care facility resident is also an outbreak.
Zapata County Influenza Outbreak

- A nursing home, first identified through influenza rapid testing on March 18, 2017, four (4) patients and one (1) staff member (CNA) as positive for Influenza A.
- On March 19, 2017 two (2) more patients were rapid test positive for Influenza A.
- On March 21, 2017 one (1) staff member (Dietician) tested positive for Influenza A.
- On March 22, 2017 one (1) staff member (CNA) tested positive for Influenza A and B.
Zapata County Influenza Outbreak

- The Epidemiologist reported the Outbreak utilizing the Respiratory Disease Outbreak Summary Form
- The Epidemiologist shared guidance and prevention techniques to mitigate the outbreak.
- The Nursing Home implemented:
  - Droplet precautions initiated, warning signs placed on all doors
  - Had the remaining 25 patients obtain prophylaxis (Tamiflu)
  - Face masks were required
  - All activities were postponed (only church services are allowed)
  - No visitors allowed
  - Informational/educational pamphlets were shared
Zapata County Influenza Outbreak

**Respiratory Disease Outbreak Summary Form**

- **Report type:** Indicate whether the outbreak is initial, follow-up, or final report.

- **Primary investigating health department (PID):** 
  - Name of lead investigator: 
  - Lead investigator’s phone: 
  - Lead investigator’s email: 

- **Outbreak Overview:**
  - Outbreak name: 
  - Pathogen, syndrome, or suspected etiology: 
  - Geographical distribution of the outbreak:
  - (City/county/state/country)

- **In what setting did the outbreak occur?**
  - Community
  - Correctional facility
  - School (K-12)
  - College
  - Cruise ship
  - Child care facility
  - Summer camp
  - Business (non-healthcare)
  - Long-term care facility (nursing home)
  - Hospital or clinic

- **If facility based, name of facility: City: 
  - Case definition: 
  - Confirmed case: 
  - Probable case: 
  - Suspect case: 

- **Laboratory Data:**
  - If needed, attach a summary of additional tests conducted to this report.
  - Were clinical specimens collected for testing? 
  - Yes
  - No
  - Unknown
  - Were specimens sent to SHIP? 
  - Yes
  - No
  - Unknown

<table>
<thead>
<tr>
<th>Test name</th>
<th>Total # of people tested</th>
<th>Total # of people positive</th>
<th>Total # of residents / patients / faculty / volunteers positive</th>
<th>Total # of employees / staff / faculty / volunteers positive</th>
<th>Total # of secondary cases positive</th>
<th>Pathogen identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td></td>
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<tr>
<td>Test 2</td>
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<tr>
<td>Test 3</td>
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<td></td>
</tr>
<tr>
<td>Test 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions Taken by Health Department:**
- Provided or reviewed prevention and control guidance
- Conducted testing
- Contacted health department
- Conducted active case finding
- Conducted case-control study
- Conducted cohort study
- Collected clinical samples
- Collected environmental samples

**Control Measures Implemented:**
- If needed, attach a list of implemented control measures to this report.
- Isolation of infected cases
- Controlling of nosocomial and household spread
- Movement of staff limited
- Educational materials provided to facility
- Educational materials distributed or delivered by facility
- Educational materials modified or distributed
- Health alert sent
- Morbidity and mortality call
- Reports
- Other (specify)

**Supplemental Information Included with this Report:**
- Copies of interview forms or line list
- Written outbreak report or after-action report
- Epidemic curve
- Environmental or sanitation report

**Laredo Health Department:**
- Prevent, Promote, Protect
Zapata County Influenza Outbreak

- The three staff members were excused from work. They were placed on treatment and returned to work 5 days following treatment (Last sign of symptoms).
- All the patients and staff members were vaccinated with the influenza vaccine October 16, 2016. The epidemiologist recommended continuing enhanced infection control practices until October 29, 2016 (Seven days after last identified symptomatic resident/patient).
- Contact information was shared to ensure communication is fluid.
- The epidemiologist conducted daily telephone communications with the Director of Nursing, Facility Administrator and Administration Staff to monitor the outbreak.
- A line list was developed to share patient demographics.
## Zapata County Influenza Outbreak

### Nursing Home Outbreak

<table>
<thead>
<tr>
<th>Case #</th>
<th>Identity</th>
<th>Vaccination Date</th>
<th>Rapid Flu Result</th>
<th>Rapid Flu Result Date</th>
<th>Cough</th>
<th>Fever</th>
<th>Sore Throat</th>
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<tbody>
<tr>
<td>1</td>
<td>Patient</td>
<td>10/16/2016</td>
<td>Flu A</td>
<td>3/18/2017</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td>Patient</td>
<td>10/16/2016</td>
<td>Flu A</td>
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<td>No</td>
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<tr>
<td>3</td>
<td>Patient</td>
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<td>5</td>
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<td>6</td>
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<td>14</td>
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</tr>
</tbody>
</table>
• **Thursday, March 23, 2017** – 9:00 - No Updates

• **Friday, March 24, 2017** – 15:00 - An LVN was the point of contact for the telephone interview she stated the DON, the ADON, an environmental services employee, a kitchen employee, and an admin assistant were all excused from work March 23, 2017 for testing positive for Influenza A.

• Zapata Primary Care FNP was contacted to obtain samples to be forwarded to DSHS LAB but, the clinic was closed and a telephone call was forwarded to an answering service. The epidemiologist recommended extending the enhanced infection control practices until March 30, 2017.
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- **Monday, March 27, 2017** – 15:00 - Telephone Communication with Administrator. The Administrator mentioned there have not been any new cases.

- **Tuesday, March 28, 2017** – 15:00 - Telephone Communication with ADON. The ADON mentioned there have not been any new cases.

- **Wednesday, March 29, 2017** – 15:00 Telephone Communication with Administrator. The administrator mentioned there have not been any new cases.

- **Thursday, March 30, 2017** – 15:00 Telephone Communication with administrator. The administrator mentioned there have not been any new cases. Surveillance period over.
Zapata County Influenza Outbreak Workshop
Thank You!

Richard A. Chamberlain MPH, RS
Epidemiologist
City of Laredo Health Department
Email: RichardA@ci.laredo.tx.us
Phone: 956-523-7841
Laredo, Texas 78040