Inside an Outbreak: ARI Exercise
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Agenda

- Introductions of the facilitators
- Goals and Objectives
- Exercise Format
  - Part 1: Outbreak Recognition
  - Part 2: Outbreak Management
  - Part 3: Summarize Best Practices
Goal / Objectives

GOAL
To increase preparedness for response to ARI outbreak in LTC

OBJECTIVES
• Participants will identify key action items to identify a potential or actual Acute Respiratory Infection Outbreak.
• Participants will understand the steps necessary to contain and manage an Acute Respiratory Infection Outbreak.
• Participants will be able to apply knowledge through sharing and case studies of best practice scenarios for an Acute Respiratory Infection Outbreaks

Exercise Format

• Outbreak Recognition: Decision and Responses
  5 Minutes to discuss amongst yourselves
  5 Minutes to discuss as a large group

• Outbreak Management: Decisions and Responses
  5 Minutes to discuss amongst yourselves
  5 Minutes to discuss as a large group

• Summarize/Debrief at the end of the exercise
Part 1: Outbreak Recognition

Outbreak Recognition - Definition of an Outbreak

A respiratory disease outbreak in a LTCF is defined by CDC and DPH as 3 or more residents from the same unit with illness onsets within 72 hours of each other who have: pneumonia or ARI or laboratory confirmed viral or bacterial infection including influenza.

Source:
November 15, 2012 memo from Tom Haupt. Reporting, prevention and control of acute respiratory illness outbreaks in long-term care facilities.
Outbreak Recognition-Defined

- Need to have a standard definition: Acute Respiratory Illness (ARI) is defined as illness characterized by any two (2) of the following:
  - Fever
  - Cough – new or worsening
  - Rhinorrhea (runny nose) or nasal
  - Sore throat
  - Myalgia (muscle aches)

Source:
Memo Reporting, prevention and control of acute respiratory illness outbreaks in LTCFs

Outbreak Recognition - Scenario

December 20: Unit C, 2/24 residents with ARI

December 20: Unit D, 2/24 residents with ARI

December 23: Unit C, 1/24 residents with ARI
Outbreak Recognition

- Staff to report change in resident condition
- Shift to shift report
- 24 hour boards
- Surveillance/walking rounds
- Monitor Staff call ins - illness
- Unit nurse to manager to supervisor report
- Report suspected or actual outbreak to the IP

Source:
November 15, 2012 memo from Tom Haupt. Reporting, prevention and control of acute respiratory illness outbreaks in long-term care facilities

Outbreak Recognition-Testing

- Don’t assume ILI
- Confirmation of pathogen will direct appropriate precautions
- Contact Precautions required for Parainfluenza, Coronavirus and Human Metapneumovirus
- Droplet and Contact Precautions required for Adenovirus

http://www.dhs.wisconsin.gov/rf_DSL/NHs/hais-resources.htm.
Outbreak Recognition- Lists

☑ Line Lists
  • Line list for residents
    • A separate line list for each unit
  • A line list for employees
    • A separate list by unit/department

☑ Obtain line list tool from Public Health

☑ Public Health Dept. is a resource for
  • When and what to test
  • Data collection tools

Outbreak Recognition- Line List

<table>
<thead>
<tr>
<th>No.</th>
<th>Employee Name</th>
<th>Assignment/Department</th>
<th>Date last worked</th>
<th>Onset Date/Time of symptoms</th>
<th>Nausea</th>
<th>Vomiting</th>
<th>Diarrhea</th>
<th>Abdominal Cramps</th>
<th>Fever</th>
<th>Chills</th>
<th>Headache</th>
<th>Body ache</th>
<th>Sore throat</th>
<th>Nasal Congestion</th>
<th>Cough</th>
<th>Other Symptoms</th>
<th>Date/Time last symptoms</th>
<th>Well date &amp; time return to work</th>
<th>Lab Results</th>
<th>Comments</th>
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Recognition Questions to Ask

- How/who determines we have a problem?
- What information is needed for the currently known or suspected cases?
- What needs to be communicated and to whom at this stage?
- Any actions?
Part 2: Outbreak Management

Outbreak Management-Plan

- Have a PLAN, in advance that all shifts have access to/knowledge of:
  - Influenza Vaccine
  - Precautions/Isolation
  - Laboratory Testing
  - Antiviral Prophylaxis and treatment
  - Management of residents/staff/visitors
  - Management of the environment
Outbreak Management: Events

- December 24 through January 8: Unit A, 11/24 residents
- December 21 through January 7: Unit B, 15/24 residents
- December 20 through December 31: Unit C, 22/24 residents
- December 20 through January 5: Unit D, 23/24 residents
- Total residents = 71/96 confirmed Influenza A
- December 17 through January 30 = 48/200 staff confirmed Influenza A

Outbreak Management - Plan

- Follow the Plan – we use an “After Hours Binder” so that the Unit Nurse/Supervisor can begin
  ✓ Isolation
  ✓ Notification
  ✓ Management
  ✓ Environment
- Develop a check list for your facility
Outbreak Management-Best Practices

- Communicate and Over Communicate
  - Several time a day!
- All departments from Activities to EVS
  - Assist with developing plan in place for outbreaks,
  - Cleaning of the environment
  - Limiting activities
- Communicate with Public Health
  - They are a great resource

Outbreak Management- IP Role

- IP’s time to shine!
  - Confirm Diagnosis
  - Identify source or where this started
  - Develop a system for finding suspected cases
  - Identify gaps in management practice and redirect the team

Source:
AMDA CPL Common Infections in LTC 2011
Outbreak Questions to Ask

• What is your plan to identify additional cases?
• How would you describe the data in terms of person, place and time?
• Is transmission occurring? How?
• How does your team finalize the action plan?
• How will you measure the results of your actions?

Part 3: Summarize Best Practices
Summarize Best Practices

- November 15, 2012 memo from Tom Haupt. Reporting, prevention and control of acute respiratory illness outbreaks in long-term care facilities
- DPH/Bureau of Communicable Diseases and Emergency Response (BCDER) Websites
- Infection Control Guidelines (CDC)
  - [http://www.cdc.gov/flu/professionals/infectioncontrol/index.htm](http://www.cdc.gov/flu/professionals/infectioncontrol/index.htm)
  - Local Public Health Department

Best Practice Questions to Ask

- Do you have a policy in your facility to deal with outbreaks?
  - If no, who will you involve to develop one?
  - If yes, does it have all the steps needed or will it require revision?
- What do you need to implement to assist with outbreak management?
- What resources will you need?
References

• AMDA Clinical Practice Guideline. Common Infections in the Long-Term Care Setting 2011