

Shigellosis Outbreak Response In Child Care

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“Picture” of an Outbreak

- Diarrhea in a child care facility
- Children with diarrhea excluded
- Three stool cultures positive for *Shigella*



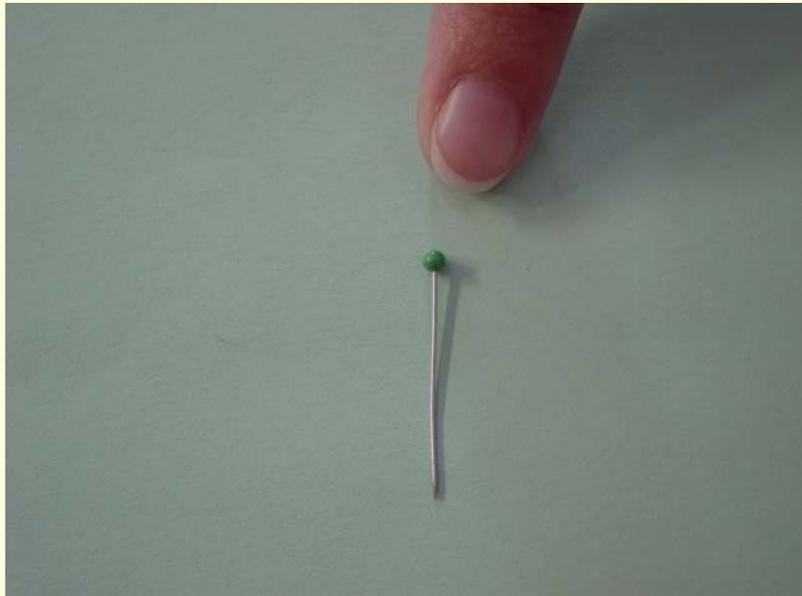
Learning Objectives

At the end of this presentation, the participant will be able to:

- 1. Locate resources to manage a Shigellosis outbreak in a child care facility**
- 2. Identify three control measures to prevent secondary cases of Shigellosis in a child care facility**

Shigellosis

Highly Contagious



Shigella organisms are small.

400 organisms can fit on this pin head.

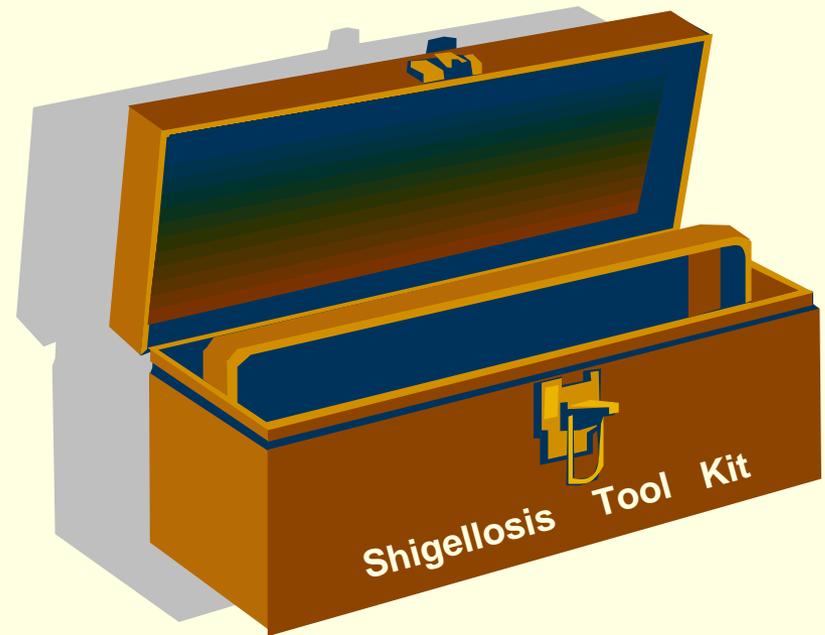
Just 10 organisms can produce symptoms.

Case Definition

- **Clinical description**
 - Variable severity
 - Diarrhea, fever, nausea, and cramps
 - Asymptomatic infections may occur
- **Lab criteria**
 - Isolation of *Shigella* from a clinical specimen
- **Case classification**
 - Confirmed: meets lab criteria
 - Probable: clinically compatible and epi-linked

Shigellosis “Information” Tool Kit

- **Location: CD Manual**
- **Information:**
 - **Investigation Steps**
 - **Control Measures**
 - **Cohorting Guidance**
 - **Parent/Child/Staff Questionnaires**
 - **Sample Letters**
 - **Other Communication**



Hand Washing



Control Measures



Exclude all Symptomatic Individuals

- Children
- Staff
- Volunteers

Control Measures

Cohort Asymptomatic Children and Staff



NC Division of Child Development

Child-staff Ratio by Age Groups



The image shows a navigation bar for the NC Division of Child Development website. It features a dark background with white and blue text and images. On the left, it says "NC Division of Child Development Home Page" and "Search for Child Care" with a magnifying glass icon and the Spanish translation "Buscar un Establecimiento de Cuidado de Niños". In the center, there are two photos: a close-up of a young child's face and a woman reading to a child. On the right, it says "North Carolina Department of Health & Human Services" with the "dhhs" logo. Below the photos are three buttons: "PARENTS", "PROVIDERS", and "COUNTY STAFF". To the right of these buttons is a "SEARCH" label above a white search input field.

NC Division of Child Development
Home Page

Search for Child Care
Buscar un Establecimiento de Cuidado de Niños

North Carolina
Department of Health & Human Services

dhhs

SEARCH

PARENTS PROVIDERS COUNTY STAFF

Treatment

- **Symptomatic Treatment for Most**
 - Hydration
 - Rest
- **Antibiotic Treatment for Some**
 - Severe Diarrhea
 - Hospitalized cases
 - HCP Decision



Control Measures

Enhanced Environmental Cleaning



Control Measures

- Conduct frequent visits
- Determine release of cohorted group



Investigation

- Determine Cases
- Obtain Laboratory Specimens
 - Symptomatic
 - All Children in Classrooms with Identified Cases
 - All Staff

Investigation

Administer
questionnaire



Investigation

- Monitor Results
- Interpret Findings
- Document in NC EDSS
 - Individual events
 - Outbreak event



Outbreak Response in NC EDSS

- Contact the Regional CD Nurse Consultant or the On-call Epi in the Communicable Disease Branch to create an outbreak event
 - Name local lead investigator
- Complete line listing of cases and contacts
- Submit report within 30 days

“Picture” of an Outbreak

- Number of Cases:
 - 7 Confirmed cases in 1 month
 - 40 Other Persons with Symptoms
- Age Range:
 - Infants through adults (8 weeks – adult)
 - Primarily young children
- Facilities with Confirmed Cases
 - 1 Child Care Center
 - 3 Elementary Schools

Congratulations!!

