



TN23-037

AGENCY

Tennessee Department of Health

STATUS

Active

Report Summary

CDCID	504127
Owner	mgolwalkar
Created	10/2/2023
Reporting Year	2023

Outbreak

Primary mode of transmission	Animal contact
First case became ill	
Last case became ill	
Initial exposure	9/25/2023 12:00:00 AM
Last exposure	
Notification to State/Territory or Local/Tribal Health Authorities	9/28/2023 12:00:00 AM
Outbreak investigation began	9/28/2023 12:00:00 AM

Geographic Location

Exposure occurred in a single state

Exposure State

Tennessee

Primary Cases

Primary Case Counts

Primary Case Counts	Number
Lab-confirmed	4
Probable	55
Estimated total	59

Sex

Number or percent of the primary cases

Male	31
Female	24
Unknown sex	4

If outbreak occurred during >1 calendar year, # cases per year

Year	Estimated Total Cases	Lab Confirmed Cases	Probable Cases
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Age

Number or percent of the primary cases

<1 year	0
1-4 years	4
5-9 years	50
10-17 years	1
18-49 years	1
50-64 years	0
65-74 years	0
75+ years	0
Unknown	3

Signs or Symptoms

Sign or Symptom	# cases	# cases with info available
Abdominal cramps	30	56
Bloody stools	5	56
Diarrhea	49	58
Fever		0
Vomiting	18	56

Incubation Period

Incubation Period	Number	Increment
Shortest	0.00	Days
Median	3.00	Days
Longest	10.00	Days

Number of cases with info available 55

Duration of Illness

Incubation Period	Number	Increment
Shortest	0.00	Days
Median	3.00	Days
Longest	12.00	Days

Number of cases with info available 39

Healthcare-Seeking Behaviors

Behavior	# cases	# cases with info available
Visited Indian Health Service or tribal facility	0	59
Visited health care provider	18	59
Visited emergency department	0	59

Primary Case Outcomes

Outcome	# cases	# cases with info available
Disseminated infection	0	59
Pregnancy loss	0	32
Died	0	59
Hospitalized	4	59
Hemolytic uremic syndrome (HUS)	2	59

Case Characteristics

Characteristic	# cases	# cases with info available
Were immunocompromised	0	45
Attended or worked in a child daycare	0	59
Were experiencing homelessness	0	59
Were exposed in the workplace	0	59

Travel

Secondary Cases

Mode of Secondary Transmission

Person-to-person

Secondary Case Counts

Secondary Case Counts	5
Probable secondary cases	0
Estimated total secondary cases	5

Estimated Total Cases (Primary + Secondary):

Secondary Case Outcomes

Outcome	# cases	# cases with info available
Died	0	5
Hospitalized	3	5
Hemolytic uremic syndrome (HUS)	2	5

Laboratory and Environmental Investigation

Sample Collection and Testing

Samples were tested.

Sample Type	Tested
Human	Yes
18 persons including food workers tested	
Food Worker	No
Animal	Yes
Food	No
Water	No
Other Environmental	Yes
Other type - Swabs of cages, bottoms of shoes	

Human samples tested for:	Bacterium/bacteria or bacterial toxin(s)	Virus(es)
Animal, food, water, other environmental samples tested for:	Virus(es)	Bacterium/bacteria or bacterial toxin(s)

Human sample test types:	Culture	DNA or RNA amplification/detection
Animal, food, water, other environmental sample test types:	DNA or RNA amplification/detection	Culture

CDC NARMS DID NOT perform antimicrobial susceptibility testing.

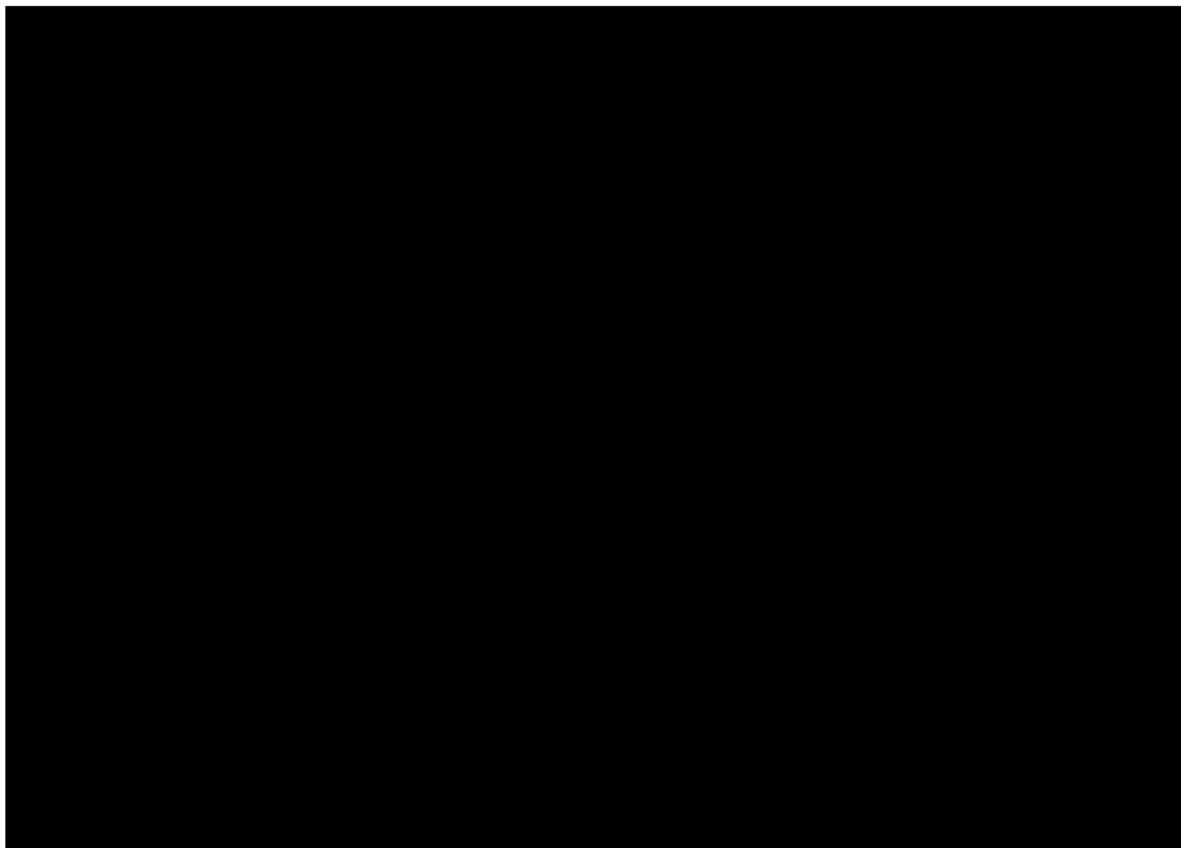
Etiology and Isolates

Etiology

Etiology		
Escherichia coli, Shiga toxin-producing Ser. O157:H7	Positive primary cases: 10 Culture-confirmed: 9 CIDT-positive: 1	- Confirmed - Detected In: patient specimen, environmental sample,

Isolates or Strains

CDC system	Lab IDs	PFGE pattern	Sequencing information	Subtype information	Source/sample type	Resistance information
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Settings

Setting(s) of Exposure

All settings where food was eaten:

Fairground

Petting zoo

Setting of exposure remarks

"Farm Day" tours at agricultural center at fairgrounds for elementary school students

Associated Events

Exposure WAS associated with a specific event(s) or gathering(s)

Associated events:

Day trip/field trip

Long-term Care Outbreaks

Types of care affected:

School Outbreaks

Grades affected

Funded schools

Number of schools

Public

Private

Unknown

Correctional or Detention Facility Outbreaks

Facility name:

Facility run by:

Facility type:

Traceback & Recall

Traceback Investigation

Include all traceback points that played a role in the contamination of the implicated vehicle or helped amplify or spread the contaminant, and any details regarding the implicated point of service/sale

Traceback Point

Federal Agencies

Recall

Food Product was recalled

Exact item(s) recalled:

Link to official recall announcement(s):

Comments:

Outbreak Detection & Investigation Methods

Outbreak Detection

Outbreak initially detected by

Routine public health surveillance interview
Healthcare provider report

Investigation Methods

Interviews only of ill persons

Epidemiologic

Binomial probability assessment
Case-control study

Environmental

Environmental, food, water, animal, or sample testing

Traceback

Investigation Comments

Other Linked CDC Systems

System

System Id

Interventions

Facility/site/venue and equipment

Intervention Type	Point of exposure	Other points of intervention
Health promotion signage posted	Recommended and implemented	
Facility / site / venue deep cleaned	Recommended, unknown if implemented	
Facility / site / venue physically or structurally modified	Recommended, unknown if implemented	
Cleaning protocol modified	Recommended, unknown if implemented	

People

Intervention Type	Point of exposure	Other points of intervention
Education / training (e.g., hand washing, certification)	Recommended and implemented	
Ill persons' stools screened (e.g., for exclusion)	Recommended and implemented	

Animal

Intervention Type	Point of exposure	Other points of intervention
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Food

Intervention Type	Point of exposure	Other points of intervention
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Water

Intervention Type	Point of exposure	Other points of intervention
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Other

Intervention Type	Point of exposure	Other points of intervention
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Public communications released for this outbreak

State/local/territorial health department

Remarks

Official comment provided in response to multiple press inquiries by Northeast Regional Health Office and Sullivan County Health Department throughout investigation.

Remarks

General Remarks: