

General

National Outbreak Reporting System
Foodborne Disease Transmission, Person-to-Person Disease Transmission, Animal Contact, Environmental Contamination, Unknown Transmission Mode



This form is used to report investigations of foodborne disease outbreaks and enteric disease outbreaks transmitted by contact with persons, animals, or environmental sources, or by an unknown mode of transmission. This form has 5 sections, General, Etiology, Settings, Animal Contact, and Food, as indicated by tabs at the top of each page. Complete the General and Etiology tabs for all modes of transmission and complete additional sections as indicated by the mode of transmission. Please complete as much as possible of all applicable sections.

CDC USE ONLY

CDC ID
275996

State ID
201706083402

Form Approved
OMB No. 0920-0004

General Section – complete for all modes of transmission except water

Primary Mode of Transmission (Check one)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Food (complete General, Etiology, and Food tabs) | <input type="checkbox"/> Person-to-person (complete General, Etiology, and Settings tabs) |
| <input type="checkbox"/> Water (complete CDC 52.12) | <input type="checkbox"/> Environmental contamination other than food/water (complete General, Etiology, and Settings tabs) |
| <input type="checkbox"/> Animal contact (complete General, Etiology, and Animal Contact tabs) | <input type="checkbox"/> Other/Unknown (complete General, Etiology, and Settings tabs) |

Investigation Methods (Check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Interviews only of ill persons | <input type="checkbox"/> Treated or untreated recreational water venue assessment |
| <input type="checkbox"/> Case-control study | <input type="checkbox"/> Investigation at factory/production/treatment plant |
| <input type="checkbox"/> Cohort study | <input type="checkbox"/> Investigation at original source (e.g., farm, water source, etc.) |
| <input type="checkbox"/> Food preparation review | <input type="checkbox"/> Food product or bottled water traceback |
| <input type="checkbox"/> Water system assessment: Drinking water | <input type="checkbox"/> Environment/food/water sample testing |
| <input type="checkbox"/> Water system assessment: Nonpotable water | <input type="checkbox"/> Other |

Comments

Dates (mm/dd/yyyy)

Date first case became ill (required) 06/28/2017 Date last case became ill 06/28/2017
 Date of initial exposure 06/27/2017 Date of last exposure _____
 Date of report to CDC (other than this form) _____
 Date of notification to State/Territory or Local/Tribal Health Authorities 06/28/2017

Geographic Location

Exposure state: Mississippi
 Exposure occurred in multiple states
 Exposure occurred in a single state, but cases resided in another state or multiple states
 Other states: _____
 (For multistate exposure or multistate residency outbreaks, enter the case count for each state)
 Exposure county: Jones
 Exposure occurred in multiple counties in exposure state
 Exposure occurred in a single county, but cases resided in another county or multiple counties
 Other counties: _____
 City/Town/Place of exposure: _____
 (Do not include proprietary or private facility names)

Primary Cases

Number of primary cases	Sex (Number or percent of the primary cases)					
			Male		Female	
Lab-confirmed primary cases	0	#	0	#	0.00	%
Probable primary cases	3	#	3	#	100.00	%
Estimated total primary cases	3	#	Unknown	#	0.00	%

Primary case outcomes	# Cases	Total # of cases for whom info is available	Age (Number or percent of the primary cases)								
			<1 year		20–49 years		≥ 75 years				
Died	0	# 3	#	0	#	0.00	%	1	#	33.33	%
Hospitalized	0	# 3	#	0	#	0.00	%	2	#	66.67	%
Visited Emergency Room	0	# 3	#	0	#	0.00	%		#	0.00	%
Visited health care provider (excluding ER visits)	0	# 3	#	0	#	0.00	%	Unknown	#	0.00	%

General

Incubation Period, Duration of Illness, Signs or Symptoms for Primary Cases Only

Incubation Period <i>(Select appropriate units)</i>			Duration of Illness <i>(Among recovered cases-select appropriate units)</i>		
Shortest	18	Min, Hours, Days	Shortest	1	Min, Hours, Days
Median	20	Min, Hours, Days	Median	1.3	Min, Hours, Days
Longest	23	Min, Hours, Days	Longest	2	Min, Hours, Days
Total # of cases for whom info is available			Total # of cases for whom info is available		
<input type="checkbox"/> Unknown incubation period			<input type="checkbox"/> Unknown duration of illness		

Signs or Symptoms *(*Refer to terms from appendix E, if appropriate, to describe other common characteristics of cases.)*

Sign or symptom	# cases with signs or symptoms	Total # cases for whom info is available
Vomiting	1	3
Diarrhea	3	3
Bloody stools	0	3
Fever		
Abdominal cramps	3	3
HUS		
* Body ache	1	3
*		
*		
*		

Secondary Cases

Mode of secondary transmission <i>(Check all that apply)</i>	Number of secondary cases	
<input type="checkbox"/> Food	Lab-confirmed secondary cases	#
<input type="checkbox"/> Water	Probable secondary cases	#
<input type="checkbox"/> Animal contact	Estimated total secondary cases	#
<input type="checkbox"/> Person-to-person	Estimated total cases (Primary + Secondary)	3 #
<input type="checkbox"/> Environmental contamination other than food/water		
<input type="checkbox"/> Other/unknown		

Other CDC System IDs *(If applicable)*

NEARS ID: 1) _____ 2) _____ 3) _____ 4) _____
 OHHABS ID: 1) _____ 2) _____

Traceback *(For food and bottled water only, not public water)*

Please check if traceback conducted

Source name <i>(if publicly available)</i>	Source type <i>(e.g., poultry farm, tomato processing plant, bottled water factory)</i>	Location of source		Traceback comments
		State	Country	

Recall

Please check if any food or bottled water product was recalled
 Type of item recalled: _____
 Comments: _____

Reporting Agency

Reporting site: Mississippi E-mail: sheryl.hand@msdh.state.ms.us
 Agency name: Mississippi State Department of Health Phone #: 601-576-7725
 Contact name: Sheryl Hand Fax #: 601-576-7497
 Contact title: Nurse Epidemiologist

General Remarks *Briefly describe important aspects of the outbreak not covered above. Please indicate if any adverse outcomes occurred in special populations (e.g., pregnant women, immunocompromised persons)*

Etiology

Etiology Section – complete for all modes of transmission except water

Clinical and Environmental Testing

1. Were any samples collected and tested? Yes No Unknown *(If no or unknown, skip to Q6)*
2. How many samples of each type were tested?

Type of sample	Tested? (yes/no/unknown)	Number of samples tested
Human specimen	Yes	1
Animal specimen		
Food		
Water		
Other environmental <i>(specify in general remarks)</i>		

3. What were they tested for? *(check all that apply)*
- Bacteria (or bacterial toxins)
 - Viruses
 - Parasites
 - Chemicals/Toxins
 - Unknown
4. Test types *(select all test types used for clinical specimens)*
- Chemical testing
 - Culture
 - DNA or RNA Amplification/Detection *(e.g., PCR, RT-PCR)*
 - Microscopy *(e.g., Fluorescent, EM)*
 - Serological/immunological test *(e.g., EIA, ELISA)*
 - Tissue culture infectivity assay
 - Other *(specify in general remarks)*
 - Unknown
5. Was antimicrobial susceptibility testing (AST) performed? Yes No Unknown
- If yes, where was AST performed? Clinical lab Public health lab CDC-NARMS Other Unknown
- If yes, were any antimicrobial resistant isolates associated with the outbreak? Yes No Unknown
6. Is there at least one confirmed* or suspected outbreak etiology(s)?
- Yes No *(unknown etiology) If no, skip to next section*

*See http://www.cdc.gov/foodsafety/outbreaks/investigating-outbreaks/confirming_diagnosis.html

Etiology *(Name the bacterium, chemical/toxin, virus, or parasite. If available, include the serotype and other characteristics such as phage type, virulence factors, and metabolic profile.)*

Genus	Species	Serotype/genotype	Other characteristics	Etiology confirmed or suspected	# of lab-confirmed cases	Detected in [~]

[~]Detected in *(choose all that apply):* 1 – patient specimen; 2 – food specimen; 3 – environmental specimen; 4 – food-worker specimen; 5 – water sample; 6 – animal specimen

Isolates/Strains *(For bacterial pathogens, provide a representative for each distinct pattern. For norovirus outbreaks, provide CaliciNet key, outbreak number, sequenced region, and genotype for each distinct strain.)*

CDC system	State lab ID/ Accession ID/ CaliciNet key/ PulseNet Key	CDC PulseNet cluster code or CaliciNet outbreak number	CDC PulseNet pattern designation for enzyme 1	CDC PulseNet pattern designation for enzyme 2	CaliciNet sequenced region/whole genome sequencing ID	CaliciNet genotype/ other molecular designation

Settings	Animal Contact		
Settings Section – complete for person-to-person, environmental contamination, and other/unknown primary mode of transmission			
Major Setting of Exposure <i>(choose one)</i>			
<input type="checkbox"/> Camp <input type="checkbox"/> Hospital <input type="checkbox"/> Office/indoor workplace <input type="checkbox"/> Private home/residence <input type="checkbox"/> Shelter/group home/transitional housing <input type="checkbox"/> Child day care <input type="checkbox"/> Hotel/motel <input type="checkbox"/> Other healthcare facility <input type="checkbox"/> Religious facility <input type="checkbox"/> Event space <input type="checkbox"/> Long-term care/nursing home/assisted living facility <input type="checkbox"/> Other <i>(specify)</i> <input type="checkbox"/> Restaurant <input type="checkbox"/> Ship/boat <input type="checkbox"/> Festival/fair <input type="checkbox"/> Prison/jail <input type="checkbox"/> School/college/university <input type="checkbox"/> Unknown			
Specify setting _____			
Attack Rates for Major Setting of Exposure			
Group <i>(based on setting)</i>	Estimated exposed in major setting*	Estimated ill in major setting	Crude attack rate <i>[(estimated ill / estimated exposed) x 100]</i>
Residents, guests, passengers, patients, etc.			
Staff, crew, etc.			
*e.g., number of persons on ship, number of residents in nursing home or affected ward			
Other Settings of Exposure <i>(choose all that apply)</i>			
<input type="checkbox"/> Camp <input type="checkbox"/> Hospital <input type="checkbox"/> Office/indoor workplace <input type="checkbox"/> Private home/residence <input type="checkbox"/> Shelter/group home/transitional housing <input type="checkbox"/> Child day care <input type="checkbox"/> Hotel/motel <input type="checkbox"/> Other healthcare facility <input type="checkbox"/> Religious facility <input type="checkbox"/> Event space <input type="checkbox"/> Long-term care/nursing home/assisted living facility <input type="checkbox"/> Other <i>(specify)</i> <input type="checkbox"/> Restaurant <input type="checkbox"/> Ship/boat <input type="checkbox"/> Festival/fair <input type="checkbox"/> Prison/jail <input type="checkbox"/> School/college/university <input type="checkbox"/> Unknown			
Specify setting _____			
Additional Shigella Questions <i>(Complete this section for Shigella outbreaks)</i>			
1. Did any case-patients report travel prior to illness onset? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes , was travel international, domestic, or both? <input type="checkbox"/> International <input type="checkbox"/> Domestic <input type="checkbox"/> Both <input type="checkbox"/> Unknown 2. Were any confirmed, suspected, or probable case-patients immunocompromised (e.g., HIV/AIDS)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown 3. Were there any confirmed, suspected, or probable cases among men who have sex with men? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
Animal Contact Section – complete for animal contact primary mode of transmission			
<input type="checkbox"/> Animal vehicle undetermined	Reason(s) animal contact, but undetermined vehicle <i>(enter all that apply from list in appendix E):</i> _____		
Animal	1	2	3
Animal Type <i>(select from list in appendix E)</i>			
Animal Type <i>(specify)</i>			
Confirmed or suspected vehicle			
Reason(s) confirmed or suspected <i>(enter all that apply from list in appendix E)</i>			
1. Settings of exposure <i>(check all that apply)</i> <input type="checkbox"/> Agricultural feed store <input type="checkbox"/> Live animal market <input type="checkbox"/> Private home/residence <input type="checkbox"/> Animal shelter or sanctuary <input type="checkbox"/> Long-term care/nursing home/assisted living facility <input type="checkbox"/> School/college/university <input type="checkbox"/> Camp <input type="checkbox"/> Pet store or other retail location <input type="checkbox"/> Veterinary clinic <input type="checkbox"/> Child day care <input type="checkbox"/> Petting zoo <input type="checkbox"/> Zoo or animal exhibit <input type="checkbox"/> Farm/dairy <input type="checkbox"/> Prison/jail <input type="checkbox"/> Other <i>(specify*)</i> <input type="checkbox"/> Festival or fair <input type="checkbox"/> Unknown <input type="checkbox"/> Hospital <input type="checkbox"/> Laboratory	2. Was pet food or animal feed implicated as a potential source of the outbreak? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, please specify: <input type="checkbox"/> Prepackaged pet food <input type="checkbox"/> Pet treats or chews <input type="checkbox"/> Homemade pet food <input type="checkbox"/> Commercially prepared 'raw' pet food <input type="checkbox"/> Frozen or fresh feeder rodents <input type="checkbox"/> Blended feed <input type="checkbox"/> Other <i>(specify*)</i> <input type="checkbox"/> Unknown		
3. Did any cases have exposure to livestock or household pets that were experiencing diarrhea? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	5. What prevention measures or recommendations were used to stop the outbreak and prevent additional infections? <i>(check all that apply)</i> <input type="checkbox"/> Handwashing <input type="checkbox"/> None <input type="checkbox"/> Quarantine/stop movement <input type="checkbox"/> Other <i>(specify*)</i> <input type="checkbox"/> Venue or event closure <input type="checkbox"/> Unknown <input type="checkbox"/> Removal of animals from setting		
4. Was the "Compendium of Measures to Prevent Disease Associated with Animals in Public Settings" used in the investigation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
Animal contact remarks <i>(*If "Other" was chosen, specify here):</i>			

Food

Food Section – complete for foodborne primary mode of transmission

Food vehicle undetermined Reason(s) foodborne, but undetermined vehicle (enter all that apply from list in appendix E): 1 _____

Food	1	2	3
Name of food (excluding any preparation)			
Confirmed or suspected vehicle			
Reason(s) confirmed or suspected (enter all that apply from list in appendix E)			
Ingredient(s) (enter all that apply)			
Contaminated ingredient(s) (enter all that apply)			
Total # of cases exposed to implicated food			
Method of processing (enter all that apply from list in appendix E)			
Method of preparation (select one from list in appendix E)			
Level of preparation (select one from list in appendix E)			
Contaminated food imported to US?	<input type="checkbox"/> Yes, country _____ <input type="checkbox"/> Yes, unknown <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes, country _____ <input type="checkbox"/> Yes, unknown <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes, country _____ <input type="checkbox"/> Yes, unknown <input type="checkbox"/> No <input type="checkbox"/> Unknown
Was product both produced under domestic regulatory oversight and sold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

Location where food was prepared (check all that apply)	Location of exposure (where food was eaten) (check all that apply)
<input type="checkbox"/> Banquet facility (food prepared and served on-site)	<input type="checkbox"/> Banquet facility (food prepared and served on-site)
<input type="checkbox"/> Camp	<input type="checkbox"/> Camp
<input type="checkbox"/> Caterer (food prepared off-site from where served)	<input type="checkbox"/> Caterer (food prepared off-site from where served)
<input type="checkbox"/> Child day care	<input type="checkbox"/> Child day care
<input type="checkbox"/> Fair, festival, other temporary or mobile services	<input type="checkbox"/> Fair, festival, other temporary or mobile services
<input type="checkbox"/> Farm/dairy	<input type="checkbox"/> Farm/dairy
<input type="checkbox"/> Grocery store	<input type="checkbox"/> Grocery store
<input type="checkbox"/> Hospital	<input type="checkbox"/> Hospital
<input type="checkbox"/> Hotel/motel	<input type="checkbox"/> Hotel/motel
<input type="checkbox"/> Long-term care/nursing home/assisted living facility	<input type="checkbox"/> Long-term care/nursing home/assisted living facility
<input type="checkbox"/> Office/indoor workplace	<input type="checkbox"/> Office/indoor workplace
<input type="checkbox"/> Other (specify in 'where prepared remarks')	<input type="checkbox"/> Other (specify in 'where eaten remarks')

Where prepared remarks: 	Where eaten remarks:
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Was there a kitchen manager certified in food safety at the location of preparation? Yes No Unknown

Contributing Factors (check all that contributed to this outbreak)

Contributing factors unknown

Contamination factor

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C-N/A

Proliferation/amplification factor (bacterial outbreaks only)

P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P-N/A

Survival factor

S1 S2 S3 S4 S5 S-N/A

Confirmed or Suspected Point of Contamination (check one)

Before preparation Preparation Unknown
 If "before preparation": Pre-Harvest Processing Unknown

Reason suspected (check all that apply)

Environmental evidence Laboratory evidence
 Epidemiologic evidence Prior experience makes this a likely source

Was food-worker implicated as the source of contamination?

Yes No Unknown

If yes, please check only one of the following:

Laboratory and epidemiologic evidence Epidemiologic evidence
 Laboratory evidence Prior experience makes this a likely source

School Questions

(Complete this section only if "school" is checked in either sections "Location where food was prepared" or "Location of exposure (where food was eaten)").

1. Did the outbreak involve a single or multiple schools?

Single Multiple (number of schools: _____)

2. School characteristics (for all involved students in all involved schools)

a. Total approximate enrollment: _____ (number of students) Unknown or undetermined

b. Grade level(s)
 Grade school (grades K-12)
 Please check all grades affected: K 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th
 College/university/technical school
 Unknown or undetermined

c. Primary funding of involved schools
 Public Private Unknown

3. Describe the preparation of the implicated item:

(check all that apply)

Heat and serve (item mostly prepared or cooked off-site, reheated on-site)
 Served a-la-carte
 Serve only (preheated or served cold)
 Cooked on-site using primary ingredients
 Provided by a food service management company
 Provided by a fast-food vendor
 Provided by a pre-plate company
 Part of a club or fundraising event
 Made in the classroom
 Brought by a student/teacher/parent
 Other (specify in General Remarks)
 Unknown or undetermined

4. How many times has the state, county or local health department inspected this school cafeteria or kitchen in the 12 months before the outbreak?*

Once
 Twice
 More than two times
 Not inspected
 Unknown or undetermined

**If multiple schools are involved, please answer for the school with the most cases.*

5. Does the school have a HACCP plan in place for the school feeding program?*

Yes
 No
 Unknown or undetermined

**If multiple schools are involved, please answer for the school with the most cases.*

6. Was implicated food item provided to the school through the National School Lunch/Breakfast Program?

Yes
 No
 Unknown or undetermined

If **yes**, was the implicated food item donated/purchased by:

USDA through the Commodity Distribution Program
 The state/school authority
 Other (specify in General Remarks)
 Unknown or undetermined

Ground Beef

1. What percentage of ill persons, for whom information is available, ate ground beef raw or undercooked? _____ %

2. Was ground beef case-ready?

Yes No Unknown

(Case-ready ground beef is meat that comes from a manufacturer packaged for sale that is not altered or repackaged by the retailer.)

3. Was the beef ground or reground by the retailer?

Yes No Unknown

If yes, was anything added to the beef during grinding (e.g., shop trim or any product to alter the fat content)? _____

Eggs

1. Were eggs (check all that apply)

- in shell, unpasteurized
- in shell, pasteurized
- packaged liquid or dry
- stored with inadequate refrigeration during or after sale
- consumed raw
- consumed undercooked
- pooled

2. Was *Salmonella* Enteritidis found on the farm?

Yes No Unknown

Egg comment

(e.g., eggs and patients isolates matched by phage type):

Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Project Clearance Officer, 1600 Clifton Road, MS D-24, Atlanta, GA, 30333, ATTN: PRA (0920-0004) <--DO NOT MAIL CASE REPORTS TO THIS ADDRESS-->