

**SHIGELLOSIS OUTBREAK CASE-CONTROL QUESTIONNAIRE
GENESEE-SAGINAW COUNTIES**

Respondent report number |__ - |__|__|__| __ Case __ Control

DATE OF INTERVIEW|__|__|_|-|__|__|_|-|__|__|_|

RESPONDENT: LAST NAME _____ FIRST NAME _____

TELEPHONE NUMBER _____

ADDRESS _____

COUNTY OF RESIDENCE _____

Name of interviewer _____ Phone number of interviewer _____

[IF CASE] PulseNet ID _____

Telephone Contact History

Date (mm/dd) Initials	Time (am/pm)	Outcome/Comment
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____

OUTCOME CODES:

- 01 = completed interview
- 02 = refused interview
- 03 = no answer
- 04 = busy tone
- 05 = non-working number
- 06 = fax machine
- 07 = business phone
- 08 = no eligible respondent
- 09 = language barrier
- 10 = interview terminated within questionnaire
- 11 = physical/mental impairment
- 12 = answering machine
- 13 = setting up a better time
- 99 = unknown

SECTION A: CLINICAL INFORMATION

FIRST, I WOULD LIKE TO ASK YOU ABOUT YOUR ILLNESS.

A1. When did your diarrhea begin? |__|__|_|-|__|__|_|-|0|4|
MM DD YY

IF RESPONDENT CANNOT REMEMBER EXACT DATE DIARRHEA BEGAN, PROMPT FOR WEEK DIARRHEA BEGAN. ENTER DATE OF WEDNESDAY OF THAT WEEK

4) **A2. If not exact date** diarrhea began, enter approximate date |__|__|_|-|__|__|_|-|0|
MM DD YY

AFTER GETTING THE DATE OF ONSET FOR ILLNESS (A2), MARK THE MONTH PRECEEDING THAT ONSET DATE ON THE CALENDAR AND IN THE SPACE BELOW FOR USE IN ASKING THE EXPOSURE QUESTIONS

THAT WOULD BE THE PERIOD FROM /__/ /__/ /__/ TO /__/ /__/ /__/.

A3. What was the maximum number of loose or watery stools you had in a 24-hour period during this illness?

NUMBER |__|__|
UNKNOWN.....77
REFUSED.....99

A4. Did you have blood in your stool?

YES..... 1
NO..... 2
UNKNOWN.....77
REFUSED.....99

A5. Was there a period when your diarrhea went away for at least a day and then came back?

YES.....1
NO.....2 (GO TO A7)
UNKNOWN.....77 (GO TO A7)
REFUSED..... 99 (GO TO A7)

A6. How many times did this happen?

|__|__| Times

A7. Do you currently have diarrhea?

YES..... 1 (GO TO A9)
NO.....2
UNKNOWN.....77 (GO TO A9)
REFUSED..... 99 (GO TO A9)

A8. IF NO, what date did the diarrhea *completely* end (include all of the diarrhea free days if there were any)?

Date: |_|_| |_|_| 2004
 MM DD

A9. In addition to diarrhea, which of the following symptoms did you have, and how long did you experience each from beginning to end, regardless of whether you felt better on some days in between? [READ THE LIST OF SYMPTOMS. IF YES, ENTER THE CORRESPONDING DURATION FOR EACH.] (U=UNKNOWN; R=REFUSED)

SYMPTOM	0 days	1 day	2-5 days	6-14 days	>14 days	U	R
a. Nausea	0	1	2	6	14	77	99
b. Vomiting	0	1	2	6	14	77	99
c. Headache	0	1	2	6	14	77	99
d. Loss of appetite	0	1	2	6	14	77	99
e. Abdominal cramps	0	1	2	6	14	77	99
f. Bloating/Gas	0	1	2	6	14	77	99
g. Body/Muscle aches	0	1	2	6	14	77	99
h. Tiredness/Fatigue	0	1	2	6	14	77	99
i. Fever IF YES, GO TO A10, IF NO GO TO A11.	0	1	2	6	14	77	99

A10. IF YES TO FEVER, what was the highest temperature measured?

a. NUMBER |_|_|_| . |_| degrees F OR b. NUMBER |_|_|_| . |_| degrees C

Felt warm/feverish, but temperature not measured222.2
UNKNOWN.....777.7
REFUSED..... 999.9

A11. Have you experienced any weight loss as a result of your symptoms?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED..... 99

A12. Did you seek health care for any symptoms?

YES.....1
NO.....2 (GO TO A15)
UNKNOWN.....77 (GO TO A15)

REFUSED..... 99 (GO TO A15)

A13. The following questions are about treatment for your illness.

(CHECK ALL THAT APPLY)

	Y	N	U	R
A13a. Was a doctor or nurse consulted over the phone?	1	2	77	99
A13b. Did you visit a doctor's office?		1	2	77
99				
A13c. Did you visit an Emergency Room?	1	2	77	99
A13d. Were you hospitalized for more than 24 hours?	1	2	77	99
A13e. IF YES, how long hospitalized?				days

A14. Once your diarrhea began, how long were you ill before you contacted or visited a doctor or nurse?

NUMBER ||| days

UNKNOWN.....777
REFUSED.....999

A15. What treatment did you use for your symptoms?

(CHECK ALL THAT APPLY):

	Y	N	U	R
A15a. Nothing [IF YES GO TO A16]	1	2	77	99
A15b. OTC antidiarrheal medications (i.e. Peptobismol)	1	2	77	99
A15c. Herbal remedies	1	2	77	99
A15d. Antibiotics/Antiparasitics	1	2	77	99
A15e. Any prescription medications	1	2	77	99
A15f. Dehydration medications (Pedialyte)	1	2	77	99
A15g. Drank more fluids	1	2	77	99
A15h. Received Intravenous fluids	1	2	77	99
A15i. Fever/Pain reliever	1	2	77	99
A15j. Other _____	1	2	77	99

A16. When your illness began, were you employed – meaning you had a paid job performed either outside or inside the home?

YES.....1
NO.....2 (GO TO A19)
UNKNOWN.....77 (GO TO A19)
REFUSED..... 99 (GO TO A19)

A17. IF YES TO EMPLOYED, during your illness, did you miss any time from work, for example because you called in sick or took time off to see a doctor?

YES.....1
NO.....2 (GO TO A19)
UNKNOWN.....77 (GO TO A19)
REFUSED..... 99 (GO TO A19)

A18. IF YES, how many days? |__|__| days (IF IN HOURS, i.e. <1 DAY, THEN CODE AS ZERO)

UNKNOWN77
REFUSED.....99

A19. Did this illness prevent you from performing daily activities such as school, recreation, or vacation activities, or working within the home?

YES.....1
NO.....2 (GO TO A20)
UNKNOWN.....77 (GO TO A20)
REFUSED..... 99 (GO TO A20)

A19a. IF YES, how many days? |__|__| days (IF IN HOURS, i.e. <1 DAY, THEN CODE AS ZERO)

UNKNOWN.....77
REFUSED.....99

A20. Did you continue to do water activities (swimming, water parks, etc.) while you had diarrhea?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

A21. Did you prepare food for others while you had diarrhea?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

A22. Did you participate in water activities (pool, water parks, etc.) in the month **before** your diarrhea ended?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

A23. Are you aware of anyone in your immediate household or social group that had diarrhea in the month **before** your symptoms began?

YES.....1
 NO.....2
 UNKNOWN.....77
 REFUSED.....99

A24. Are you aware of anyone in your immediate household or social group that had diarrhea **while** you had your symptoms?

YES.....1
 NO.....2
 UNKNOWN.....77
 REFUSED.....99

A25. Are you aware of anyone in your immediate household or social group that had diarrhea in the month **after** your symptoms began?

YES.....1
 NO.....2
 UNKNOWN.....77
 REFUSED.....99

A26. Do you/your child have a weakened immune system? Conditions such as cancer, HIV, organ transplant and/or receiving steroid treatment can cause a weakened immune system. This does not include inhaled steroids for asthma therapy.

YES.....1
 NO.....2
 UNKNOWN.....77
 REFUSED..... 99

SECTION B. PERSON TO PERSON CONTACT AND CHILDCARE INFORMATION

B1. Now I would like to ask about the adults (≥ 18 years of age) in your house. What are the adult's sexes and did they have diarrhea in the month **before** you became ill? (QUESTION A2) / ___ / ___ / ___ / to / ___ / ___ / ___ /.

ADULT	What sex? (1=MALE, 2=FEMALE)		Had diarrhea?			
			YES	NO	UNK	REF
ADULT 1	1	2	1	2	77	99
ADULT 2	1	2	1	2	77	99

ADULT 3	1	2	1	2	77	99
ADULT 4	1	2	1	2	77	99
ADULT 5	1	2	1	2	77	99
ADULT 6	1	2	1	2	77	99

READ: Now I would now like to ask you a few questions about your contact with children under 18 and persons with diarrhea in the month before you became ill
(QUESTION A2) /__/__/__ to /__/__/__.

B2. Do you have children (<18 years old) living in your home?

IF INTERVIEWING AN ADOLESCENT: Do you have children (<18 years old) – *other than yourself* - living in your home?

YES..... 1
 NO..... 2 **(GO TO B9)**
 UNKNOWN..... 77 **(GO TO B9)**
 REFUSED..... 99 **(GO TO B9)**

B3. IF YES, How many children live in your house?

NUMBER OF CHILDREN |__|__|
 UNKNOWN 77
 REFUSED 99

B4. What are the children’s age(s) in years, their sexes and did they have diarrhea in the month before your diarrhea began?

IF INTERVIEWING AN ADOLESCENT: *Other than yourself*, what are the children’s age(s) in years, their sexes and did they have diarrhea in the month before your diarrhea began?

CHILD	AGE? (INDICATE YRS OR MONTHS)	Does the child wear diapers?		What sex?		Had diarrhea?			
		Y	N	(1=MALE, 2=FEMALE)		YES	NO	UNK	REF
CHILD 1		1	2	1	2	1	2	77	99
CHILD 2		1	2	1	2	1	2	77	99
CHILD 3		1	2	1	2	1	2	77	99
CHILD 4		1	2	1	2	1	2	77	99
CHILD 5		1	2	1	2	1	2	77	99
CHILD 6		1	2	1	2	1	2	77	99
CHILD 7		1	2	1	2	1	2	77	99
CHILD 8		1	2	1	2	1	2	77	99
CHILD 9		1	2	1	2	1	2	77	99
CHILD 10		1	2	1	2	1	2	77	99
CHILD 11		1	2	1	2	1	2	77	99
CHILD 12		1	2	1	2	1	2	77	99
CHILD 13		1	2	1	2	1	2	77	99

CHILD 14		1	2	1	2	1	2	77	99
CHILD 15		1	2	1	2	1	2	77	99

B5. Were any children in your household in childcare outside of your home at any time in the month before you became ill?

YES..... 1
 NO.....2 (GO TO B7)
 UNKNOWN.....77 (GO TO B7)
 REFUSED..... 99 (GO TO B7)

B5a. IF YES, did (*he/she/they*) participate in any water related activities, such as swimming, wading, or water table play, at his or her childcare outside of your home?

YES..... 1
 NO.....2
 UNKNOWN.....77
 REFUSED.....99

B6. IF YES TO B5, Were any children at your child’s childcare location *in* *diapers*?

YES..... 1
 NO.....2
 UNKNOWN..... 77
 REFUSED..... 99

B7. Were any children in your household in a *day camp* in the month before you became ill? By a day camp I mean a center with activities where children spend all or part of the day, often during the summer months when school is out. By comparison, a day care center is often for toddlers.

YES.....1
 NO.....2 (GO TO B8)
 UNKNOWN.....77 (GO TO B8)
 REFUSED.....99 (GO TO B8)

B7a. IF YES, did (*he/she/they*) participate in any water related activities, such as swimming, wading or water tables, at his or her *day camp*?

YES..... 1
 NO.....2
 UNKNOWN..... 77
 REFUSED..... 99

B8. In the month before illness, did you *provide* childcare in any of the following childcare settings? **[READ THE LIST. CIRCLE ALL THAT APPLY]**

SETTING	YES	NO	UNKNOWN	REFUSED
a. Out-of-home childcare center	1	2	77	99
b. In-home childcare center	1	2	77	99
c. Out-of-home babysitter	1	2	77	99
d. In-home babysitter	1	2	77	99
e. Other	1	2	77	99
f. Specify:				

B9. In the month before illness, did you have contact with any children in diapers?

YES..... 1
 NO..... 2 **(GO TO B11)**
 UNKNOWN..... 77 **(GO TO B11)**
 REFUSED..... 99 **(GO TO B11)**

B10. IF YES, in the month before illness, did you change any diapers?

YES..... 1
 NO..... 2
 UNKNOWN..... 77
 REFUSED..... 99

B11. In the month before you became ill, did you come in contact with anyone who had diarrhea?

YES..... 1
 NO..... 2 **(GO TO SECTION C)**
 UNKNOWN..... 77 **(GO TO SECTION C)**
 REFUSED..... 99 **(GO TO SECTION C)**

B12. IF YES, did they include:
[READ THE LIST. CIRCLE ALL THAT APPLY]

	YES	NO	UNKNOWN	REFUSED
a. Children \leq 3 years of age	1	2	99	77
b. Children 4 to <13 years of age	1	2	99	77
c. Teenagers \geq 13 to <18 years	1	2	99	77
d. Adults 18 years or older	1	2	99	77

B13. Did you provide direct care to a person with diarrhea?

YES..... 1
 NO..... 2
 UNKNOWN..... 77
 REFUSED..... 99

SECTION C. DIETARY EXPOSURES

I WOULD LIKE TO TALK ABOUT YOUR DIET DURING THE TWO WEEKS BEFORE YOUR DIARRHEA BEGAN (**QUESTION A2**), THAT WOULD BE THE PERIOD FROM /__ / __ / __ / TO /__ / __ / __ /.

C1. In the month before your diarrhea began, did you eat any of the following food items? **[READ THE LIST. ENTER ALL THAT APPLY]**

FOOD	Y	N	U	R
a. Lettuce or garden salad	1	2	77	99
b. Cold cuts, chicken salad, egg salad, or tuna salad	1	2	77	99
c. Other cold salads such as coleslaw, potato salad, or pasta salad	1	2	77	99
d. Raw vegetables such as carrots, tomatoes, cucumbers, green onions	1	2	77	99
e. Raw berries (e.g. strawberries and raspberries)	1	2	77	99
f. Raw fruits <i>with</i> skin/peel (e.g., melons, apples)	1	2	77	99
g. Cider or juice	1	2	77	99
h. Raw shellfish	1	2	77	99
i. Cooked shellfish	1	2	77	99

C2. In the month before your diarrhea began, did you consume any of the following **unpasteurized** foods or drinks? This may include products supplied from health food stores, local farms, or imported from other countries.

[READ THE LIST. ENTER ALL THAT APPLY]

FOOD	YES	NO	UNKNOWN	REFUSED
a. Unpasteurized milk	1	2	77	99
b. Unpasteurized apple juice/cider	1	2	77	99
c. Other unpasteurized juices	1	2	77	99
d. Unpasteurized cheese (e.g. goat cheese, farmer's cheese, queso fresco)	1	2	77	99
e. Other Specify:	1	2	77	99

SECTION D. DRINKING WATER EXPOSURES

I WOULD LIKE TO TALK ABOUT YOUR EXPOSURE TO DRINKING WATER IN THE MONTH BEFORE YOUR DIARRHEA BEGAN (**QUESTION A2**), THAT WOULD BE THE PERIOD FROM /__/__/__/ TO /__/__/__/.

D1 In the month before your diarrhea began, what were your sources of drinking water *at home*? **[READ THE LIST. ENTER ALL THAT APPLY]**

QUESTION	YES	NO	UNKNOWN	REFUSED
a. Does not drink water at home	1	2	77	99
b. Municipal or city water direct from tap	1	2	77	99
c. Municipal or city water with additional filtration or treatment	1	2	77	99
d. Refrigerator dispenser	1	2	77	99
e. Private well water	1	2	77	99
f. Private well water with additional filtration or treatment	1	2	77	99
g. Commercially bottled water	1	2	77	99
h. Other Specify:	1	2	77	99

D2. In the month before your diarrhea began, what were your sources of drinking water *outside the home*, for example, at school or work?

[READ THE LIST. ENTER ALL THAT APPLY.]

QUESTION	YES	NO	UNKNOWN	REFUSED
a. Does not drink water outside the home	1	2	77	99
b. Municipal or city water direct from tap (including a water fountain)	1	2	77	99
c. Municipal or city water with additional filtration or treatment	1	2	77	99
d. Refrigerator dispenser	1	2	77	99
e. Private well water	1	2	77	99
f. Private well water with additional filtration or treatment	1	2	77	99
g. Commercially bottled water	1	2	77	99
i. Other Specify:	1	2	77	99

D3. What was your usual source of *ice* in the month before your diarrhea began?

[READ THE LIST. ENTER ALL THAT APPLY]

SOURCE	YES	NO	UNKNOWN	REFUSED
a. Do not use ice	1	2	77	99
b. From your home	1	2	77	99
c. From outside your home	1	2	77	99

D4. In the month before your diarrhea began, did you drink any untreated water from a lake, river or stream?

YES..... 1
 NO..... 2
 UNKNOWN.....77
 REFUSED.....99

SECTION E: RECREATIONAL WATER EXPOSURE

I WOULD LIKE TO TALK ABOUT YOUR EXPOSURE TO RECREATIONAL WATER. WE WILL FIRST FOCUS ON THE PERIOD IN THE MONTH BEFORE YOUR DIARRHEA BEGAN (**QUESTION A2**, /__/__/__/ TO /__/__/__/).

E1. During the in the month before your diarrhea began, did you swim or enter recreational water (which means other than in a bathtub or shower)?

- YES.....1
- NO.....2 (**GO TO E4**)
- UNKNOWN.....77 (**GO TO E4**)
- REFUSED.....99 (**GO TO E4**)

E2. During the in the month before the diarrhea began, which recreational water settings did you swim in, wade in, or enter? [**READ THE LIST. ENTER ALL THAT APPLY**]

Setting	IF YES, on how many days did you swim or enter the water in the two weeks before you became ill?				IF YES, did you put your face under the water?								
	Y	N	U	R	1	2-5	6-10	>11	U	Y	N	U	R
a. Lake, Pond, River or Stream	1	2	77	99	1	2	3	4	77	1	2	77	99
b. Hot Tub, Spa, Whirlpool, Jacuzzi	1	2	77	99	1	2	3	4	77	1	2	77	99
c. Recreational Water Park other than swimming pools (such as The Beach, Soak City, or Wyandot Lake)	1	2	77	99	1	2	3	4	77	1	2	77	99

E3. During the in the month before your diarrhea began, did you swim, wade in or enter a swimming pool?

- YES.....1
- NO.....2
- UNKNOWN.....77

REFUSED.....99

READ: THE FOLLOWING QUESTIONS ASK ABOUT TYPICAL SWIMMING ACTIVITIES DURING VISITS TO POOLS

E4. On a typical visit during the in the month before your diarrhea began, did you usually wade or play in the water without swimming?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

E5. On a typical visit during the in the month before your diarrhea began, did you get water *splashed in your face*?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

E6. On a typical visit during the in the month before your diarrhea began, did you put *your face in the water*?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

E7. On a typical visit in the month before your diarrhea began, did you get *any* water in your mouth?

YES.....1
NO.....2 **(GO TO E9)**
UNKNOWN.....77 **(GO TO E9)**
REFUSED..... 99 **(GO TO E9)**

E8. On a typical visit during the in the month before your diarrhea began, did you *swallow* any of this water?

YES.....1
NO.....2
UNKNOWN.....77
REFUSED.....99

	1 2 77 99	1 2 3 4 77 99			1 2 77 99
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SECTION F. EVENTS

NOW I WOULD LIKE TO TALK TO YOU ABOUT THE EVENTS THAT YOU ATTENDED DURING X

F1. During the months of X before your diarrhea began, did you attend any large social gatherings with 50 or more persons present such as picnics, county fairs or other events?

- YES..... 1
- NO.....2
- UNKNOWN.....77
- REFUSED.....99

F2. IF YES, please name the events/parties/potlucks and tell us when
Name **Date (MM/DD/YY)**

SECTION G. TRAVEL HISTORY

NOW I WOULD LIKE TO TALK TO YOU ABOUT YOUR TRAVEL HISTORY IN THE MONTH BEFORE YOUR DIARRHEA BEGAN (QUESTION A2, /__/__/__/ TO /__/__/__/).

G1. In the month before your diarrhea began did you travel outside Michigan?

- YES.....1
- NO.....2
- UNKNOWN.....77
- REFUSED.....99

G2. If yes please specify where and when _____

SECTION H : DEMOGRAPHIC INFORMATION

CASE ID: A |__|__|__|

H1. What is your ZIP code? |_|_|_|_|_|_|_|
UNKNOWN.....77777
REFUSED..... 99999

H2. What is your age?

|_|_|_|
Age

H3. What is your gender?

MALE 1
FEMALE 2
UNKNOWN.....77
REFUSED.....99

H4. What district do you live in? _____

IF RESPONDENT ANSWERS "DON'T KNOW", ASK:

H4a. What city do you live in? _____

END OF QUESTIONNAIRE: This concludes our questionnaire. I would like to thank you very much for your time, patience, and cooperation in answering our questions. I would be happy to answer any questions you may have at this point.

If you have any questions in the future please contact X.