AMERICAN SAMOA DIARRHEAL ILLNESS OUTBREAK

CASE report num	ber <u> - </u>		
Matched CONTRO	OL #1	- <u>_</u>	
Matched CONTRO	OL #2	-	
NAME OF INTE	RVIEWER		
CASE: LAST NA	AME	FIRST NAME	
TELEPHONE N	UMBER		
DATE OF INTER	RVIEW -	_ - -	
Telephone Conta	<u>ct History</u>		
Date (mm/dd)	Time (am/pm)	Outcome/Comment Initials	
1			
2 3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
OUTCOME COI	DES:		
01 = completed in	terview	08 = no eligible respondent	
02 = refused interv	view	09 = language barrier	
03 = no answer		10 = interview terminated within questionn	aire
04 = busy tone		11 = physical/mental impairment	
05 = non-working	number	12 = answering machine	
06 = fax machine		13 = setting up a better time	
07 = business phone	ne	99 = unknown	

CASE INTRODUCTION INTERVIEW

Hello, my name is and I am working with x.
We are investigating an outbreak of diarrhea occurring among people who live in X. We are conducting a survey to help us determine what may have played a role in causing illness among people living in <i>your/our</i> community.
We realize that you may have already spoken to the Health Department; however, we are interested in finding out more about this illness so that we can develop guidelines for preventing and controlling illness.
You have been selected to participate in this survey because of your illness. The answers that you give will be kept secure. Your participation in these efforts will greatly enhance our understanding of this illness in <i>your/our</i> community.
This should take approximately 20-30 minutes. Your participation is voluntary and all information you give will be kept confidential to the extent legally possible. Some of the questions may be sensitive. You may refuse to answer any question at any time. Neither your name nor any identifying information will appear on any report. We will be happy to answer all your questions at the end of the interview. A final report will be available a the health department.
Do you agree to participate in this survey?
NO, END INTERVIEW Thank you for your time.
YES IF YES, CONTINUE INTERVIEW It would be helpful if you had a calendar in front of you, as we will be discussing specific dates.

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 <u>WEEK</u> DIARRHEA BEGAN. ENTER DATE OF WEDNESDAY OF THAT WEEK
A2. If not exact date diarrhea began, enter approximate date _ - _ - 0 4 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 <u>maximum</u> number of loose or watery stools you had in a 24-hour period during this illness?
NUMBER
A4. Did you have blood in your stool?
YES
A5. Was there a period when your diarrhea went away for at least a day and then came back?
YES
A6. How many times did this happen?

____ Times

A7. Do you curre	ntly have c	liarrhea?					
YES			1 (GC) TO A9)			
NO							
			77 (GO	TO A9)			
			99 (GO				
KEI OSEE	,	••••••	55 (40	10110)			
A8. IF No free days i			diarrhea <i>co</i>	mpletely end	(include <u>all</u> o	of the diarr	hea
Date	: _ _ MM	_ _ DD	2004				
A9. In addition thow long did you felt better on some ENTER THE COLUMN R=REFUSED)	experienc ne days in	e each fi between	r <mark>om begin</mark> n ? [READ T	i ng to end, r THE LIST OF	egardless of SYMPTOM	whether y S. IF YES	you
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
a. NUMBER Felt v UNK REF A11. Have you ex YES	• warm/feven NOWN USED	degrees	F OR beemperature the loss as a1	not measured	1222.2 777.7 999.9		es C
UNKNOW	VN		77				

A12. Did you seek health care for any symptoms?					
YES1					
NO2 (GO TO A15)					
UNKNOWN77 (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	g hos	pital	ized?		
days					
A14. Once your diarrhea began, how long were you ill before you	u cor	itact	ed or v	/isite	d a
doctor or nurse?					
NUMBER days					
UNKNOWN					
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		99	
A15j. Other	1	2	77	99	
A16. When your illness began, were you employed – meaning yo	ou ha	d a r	aid jo	b	
performed either outside or inside the home?		-	J		
YES1					
NO					
UNKNOWN					
REFUSED					

work, for example because you called in sick or took time off to see a doctor?
YES
A18. IF YES, how many days? days (IF IN HOURS, i.e. <1 DAY, THEN CODE AS ZERO)
UNKNOWN77 REFUSED99
Did this illness prevent you from performing daily activities such as school, ion, or vacation activities, or working within the home?
YES1
NO2 (GO TO A20)
UNKNOWN
REFUSED
A19a. IF YES, how many days? days (IF IN HOURS, i.e. <1 DAY, THEN CODE AS ZERO)
UNKNOWN77
REFUSED99
Did you continue to do water activities (swimming, water parks, etc.) while you arrhea?
YES1
NO2
UNKNOWN77
REFUSED99
Did you prepare food for others while you had diarrhea?
YES1
NO2
UNKNOWN77
REFUSED99 Did you participate in water activities (pool, water parks, etc.) in the month
your diarrhea ended?
YES1
NO2
UNKNOWN77

A17. IF YES TO EMPLOYED, during your illness, did you miss any time from

Are you aware of anyone in your immediate household or social group that had a in the month before your symptoms began?
YES
Are you aware of anyone in your immediate household or social group that had a while you had your symptoms?
YES
Are you aware of anyone in your immediate household or social group that had a in the month after your symptoms began?
YES
Do you have a weakened immune system? Conditions such as cancer, HIV, transplant and/or receiving steroid treatment can cause a weakened immune. This does not include inhaled steroids for asthma therapy.
YES

$\underline{\textbf{SECTION B.}}$ PERSON TO PERSON CONTACT AND CHILDCARE INFORMATION

	VVIId	What sex?					
		IALE, EMALE)	LE,		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	
you have children ERVIEWING AN <i>an yourself</i> - living	NADOLI	ESCENT:			ren (<18 <u>)</u>	years	
					1		
YES NO UNKNOW REFUSED	'N				2 77 99	(GO (GO (GO	

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: <u>Other than yourself</u>, 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?	Does	the	What	sex?						
	(INDICATE	child	wear				Had diarrhea?				
	YRS OR	diape	ers?	,	(1=MALE,						
	MONTHS)	Y	N	2=FEN	IALE)	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 f. Specify:	1	2	77	99

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 ≥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,	1	2	77	99
egg salad, or tuna salad				
c. Other cold salads such as	1	2	77	99
coleslaw, potato salad, or				
pasta salad				
d. Raw vegetables such as	1	2	77	99
carrots, tomatoes,				
cucumbers, green onions				
e. Raw berries (e.g.	1	2	77	99
strawberries and raspberries)				
f. Raw fruits <i>with</i> skin/peel	1	2	77	99
(e.g., melons, apples)				
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	1	2	77	99
juice/cider				
c. Other unpasteurized juices	1	2	77	99
d. Unpasteurized cheese	1	2	77	99
(e.g. goat cheese, farmer's				
cheese, queso fresco)				
e. Other	1	2	77	99
Specify:				

SECTION D. DRINKING WATER EXPOSURES

I WOULD LIKE TO TALK ABOUT YOUR EXPOSURE TO DRINKING WATER IN
THE MONTH <u>BEFORE</u> 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	1	2	77	99
at home				
b. Municipal or city	1	2	77	99
water direct from tap				
c . Municipal or city	1	2	77	99
water with additional				
filtration or treatment				
d. Refrigerator	1	2	77	99
dispenser				
e. Private well water	1	2	77	99
f. Private well water	1	2	77	99
with additional filtration				
or treatment				
g . Commercially	1	2	77	99
bottled water				
h. Other	1	2	77	99
Specify:				

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	1	2	77	99
tap (including a water fountain)				
c . Municipal or city water with	1	2	77	99
additional filtration or treatment				
d. Refrigerator dispenser	1	2	77	99
e . Private well water	1	2	77	99
f. Private well water with additional	1	2	77	99
filtration or treatment				
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)?
YES1
NO2 (GO TO E18)
UNKNOWN77 (GO TO E18)
REFUSED99 (GO TO E18)
E2. During the <u>in the month before</u> the diarrhea began, which recreational water settings did you swim in, wade in, or enter? [READ THE LIST. ENTER ALL THAT APPLY]

	IF YES, did you
IF YES, on how many days	put your face
did you swim or enter the	under the water?
water in the two weeks before	
you became ill?	

	Y	N	U	R		N	lumbe	Y	N	U	R			
Setting					1	2-5	6-10	>11	U	R				
a. Lake, Pond,														
River or Stream	1	2	77	99	1	2	3	4	77	99	1	2	77	99
b . Hot Tub, Spa,														
Whirlpool,	1	2	77	99	1	2	3	4	77	99	1	2	77	99
Jacuzzi														
c . Recreational	1	2	77	99	1	2	3	4	77	99	1	2	77	99
Water Park other														
than swimming														
pools (such as														
The Beach, Soak														
City, or Wyandot														
Lake)														

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

YES	1
NO	
UNKNOWN	77 (GO TO E18)
REFUSED	99 (GO TO E18)

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
E5. On a typical visit during the in the month before your diarrhea began, did you get water <i>splashed in your face</i> ?
YES
E6. On a typical visit during the in the month <u>before</u> your diarrhea began, did you put <i>your face in the water</i> ?
YES
E7. On a typical visit in the month <u>before</u> your diarrhea began, did you get <i>any</i> water in your mouth?
YES
E8. On a typical visit during the in the month <u>before</u> your diarrhea began, did you <i>swallow</i> any of this water?
YES

E9. On a typical visit during the in the month <u>before</u> your diarrhea began, did you <i>dive or jump</i> into the water?
YES1
NO2
UNKNOWN77
REFUSED99
E10. On a typical visit in the month before your diarrhea began, did you use a slide to enter the water? YES

E11. During the in the month <u>before</u> your diarrhea began, please list the swimming pools that you swam in or entered **[ENTER ALL THAT APPLY]**

IF YES, did you

put your face

(IF CANNOT

RECALL

EXACT

IF YES, please

list dates

IF YES, on how many

days in the month before

you became ill?							for swi loca ente We	TES, week mmir ation er dat dneso weel	of ng in and e of lay o	that	under the water?					
Name	Y	N	U	R	1	N 2-5	umbe 6-10	er of (>11	days U	? R	List dates (MM/DD/YY)	List dates (MM/DD/YY)	Y	N	U	R
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99
	1	2	77	99	1	2	3	4	77	99			1	2	77	99

SECTION F. EVENTS

NOW I WOULD LIKE TO TALK TO YOU ABOUT THE EVENTS THAT YOU ATTENDED DURING \boldsymbol{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 (GO TO F3)
UNKNOWN	77 (GO TO F3)
REFUSED	99 (GO TO F3)

F2. IF YES, please name the events/parties/potlucks and tell us when

Name Date (MM/DD/YY)

<u>SECTION G</u> . TRAVEL HISTO	JRY
NOW I WOULD LIKE TO TALK TO	YOU ABOUT YOUR TRAVEL HISTORY IN
THE MONTH BEFORE YOUR DIAR	RHEA BEGAN
(QUESTION A2, /// TO /_	//).
G1. In the month before your diarrhea	began did you travel outside American Samoa?
MEC	1

G2. If yes please specify where and when _____

SECTION H. ANIMAL CONTACT

NOW I WOULD LIKE TO TALK TO YOU ABOUT YOUR CONTACT WITH
ANIMALS IN THE MONTH BEFORE YOUR DIARRHEA BEGAN
(QUESTION A2, /// TO ///).

H1. In the month before your diarrhea began, did you have contact with any animals, (at home, on a farm, at a zoo, at a fair, festival or other event)?

YES	1
NO	2 (GO TO H3)
UNKNOWN	77 (GO TO H3)
REFUSED	99 (GO TO H3)

H2. IF YES, to which of the following animals?

READ THE LIST. ENTER AND ASK THE CORRESPONDING QUESTIONS.

An	Contact with animal (feeding, petting, playing)?			_	Animal have diarrhea?				
		Y	N	U	R	Y	N	U	R
a.	Kitten (< 6 months)	1	2	77	99	1	2	77	99
b.	Cat	1	2	77	99	1	2	77	99
c.	Puppy (< 6 months)	1	2	77	99	1	2	77	99
d.	Dog	1	2	77	99	1	2	77	99
e.	Calf	1	2	77	99	1	2	77	99
f.	Cow/Bull/Steer	1	2	77	99	1	2	77	99
g.	Deer	1	2	77	99	1	2	77	99
h.	Goat/Sheep/Lamb	1	2	77	99	1	2	77	99
i.	Horse	1	2	77	99	1	2	77	99
j.	Pigs	1	2	77	99	1	2	77	99
k.	Poultry (chicken, turkey, etc.)	1	2	77	99	1	2	77	99
l.	Rabbit	1	2	77	99	1	2	77	99
	Amphibian/reptile (frog, tle, lizard, snake, etc.)	1	2	77	99	1	2	77	99
1	Other ecify:	1	2	77	99	1	2	77	99

H3. In the month before your diarrhea began, did you touch or shovel animal waste/ manure or walk through any area where animal waste/ manure was on the ground?
YES1
NO2
UNKNOWN77
REFUSED99
44. Did you visit, work on, or live on a farm in the month before your diarrhea began?
YES1
NO2
UNKNOWN77
REFUSED99

SECTION I: DEMOGRAPHIC INFORMATION

CASE ID: A _
I1. What is your ZIP code? _ _ _ _ UNKNOWN77777 REFUSED99999
I2. What is your age?
<u> </u> Age
I3. What is your gender?
MALE
I4. What district do you live in?
IF RESPONDENT ANSWERS "DON'T KNOW", ASK:
I4a. 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.