Case	ID	r	1







CDC's FoodNet Hemolytic Uremic Syndrome (HUS) Surveillance Case Report Form

1A. (Case ID [ca	seid]	YYYYYearXXFipscode001Record				
2A. S	State ID [st	ateid]					
3A. I	FoodNet Pe	erson ID	(if applicable) [personid]				
4A. \$	Site [site]						
5A. I	Date entere	ed [dente	er]				
	Insti	ructions:	Demogra Complete the following demographic	aphic Information information as it pertains to the p	patient diagn	osed with	HUS.
6A. D	ate of Birth	[dob]					
7A. S	tate of Res	idence [state]				
8A. C	ounty of re	sidence	[county]				
9A. S	ex [sex]			O Female (1) O Male	e (<mark>2</mark>) O Unk	known (<mark>9</mark>)	
10A. E	Ethnicity [et	hnicity]		O Hispanic (1) O N	on-Hispanic	(2) O L	Inknown (<mark>9</mark>)
11A. F	Race [<mark>race</mark>]			O Black (1) O White	e (2) O As	ian (<mark>3</mark>)	
				O American Indian / A	laska Native	(4)	
				O Pacific Islander / Na	ative Hawaiia	n (<mark>5</mark>)	
				O Multi-Racial (6) O	Other (12) C) Unknow	n (<mark>9</mark>)
12A.			Clinic mplete the following by interviewing the diagnosis known? [dhusunk]	eal Information ne attending physician and/or rev	riewing patier O yes(1)		al record.
13A.	Date of HU	S diagno	osis? [dhus]		/	/	
14A.	Did the pat	ient have	e diarrhea in the 3 weeks before HUS	diagnosis? [diarrhea]	O yes (1)	O no (0)	O unknown (9)
	<u>if yes</u>	15A.	Date of diarrhea onset [donset]		/	/	
		16A.	Did stools contain visible blood at th	ne time? [stoolblood]	O yes (1)	O no (0)	O unknown (9)
17A.	Was dia	ırrhea tre	eated with antimicrobial medications?	[abxdiar]	O yes (1)	O no (0)	O unknown (9)
	<u>if yes</u>	18A.	Types of antimicrobials used to treat	t diarrhea: (check all that apply)			
		(0,1)	□ Azithromycin (Zithromax, Z-Pak □ Ceftriaxone (Rocephin)[abxd_c □ Ciprofloxin (Cipro) [abxd_cirpof □ Levofloxacin (Levaquin) [abxd_m □ Metronidazole (Flagyl) [abxd_m □ Piperacillin [abxd_piperacillin] □ Tazobactam [abxd_tazobactam □ Trimethoprim Sulfamethoxazole □ Vancomycin (Vancocin) [abxd_m □ Other (specify in comments) [atmosphere] □ Unknown [abxd_unknown]	eftriaxone] cloxin] levofloxacin] netronidazole] netronidazole] e (Bactrim, Septra) [abxd_trimethyancomycin]		[:	abxdoth]

Case ID	p2	2







Clinical Informa	

19A. D	id the pati		er person with diarrhea or HUS during e daycare, household, etc.)? [contact]	the O yes (1) O no (0)	O unknown (9)
	-	n than diarrhea during the 3	robial medication (ANY antibiotic) for a weeks before HUS diagnosis? [abxno antimicrobial [abxndreason]		O unknown (9)
	22A.	(0,1)	sed to treat conditions other than diarrh (Zithromax, Z-Pak) [abxnd_azithromyo (Rocephin)[abxnd_ceftriaxone] Cipro) [abxnd_cirpofloxin] (Levaquin) [abxnd_levofloxacin] (le (Flagyl) [abxnd_metronidazole] (abxnd_piperacillin] [abxnd_tazobactam] (Sulfamethoxazole (Bactrim, Septra) [abxnd_ocin) [abxnd_vancomycin] (Vancocin) [abxnd_vancomycin] (Fy in comments) [abxnd_other] (Daxnd_unknown)	cin]	[abxndoth]
Other r	nedical co	onditions present during 3 w	eeks before HUS diagnosis:		
	23A.	Other gastrointestinal illne	ess [gastro]	O yes (1) O no (0)	O unknown (9)
	24A.	Urinary tract infection [uti]		O yes (1) O no (0)	O unknown (9)
	25A.	Respiratory tract infection	[rti]	O yes (1) O no (0)	O unknown (9)
	26A.	Other acute illness[acute] if yes Describe [acute]	desc]	O yes (1) O no (0)	O unknown (9)
	27A.	Pregnancy [preg]	-	O yes (1) O no (0)	O unknown (9)
	28A.	Kidney disease [kidn]		O yes (1) O no (0)	O unknown (9)
	29A.	Immune compromising co	ndition or medication [immcomp]	O yes (1) O no (0)	O unknown (9)
	<u>if yes</u>	30A. Malignancy	[malig]	O yes (1) O no (0)	O unknown (9)
		31A. Transplante	ed organ or bone marrow [transpl]	O yes (1) O no (0)	O unknown (9)
		32A. HIV infectio	n [<mark>hiv</mark>]	O yes (1) O no (0)	O unknown (9)
		33A. Steroid Use	(parenteral or oral) [ster]	O yes (1) O no (0)	O unknown (9)
		Other, descri	ribe [immother]	O yes (1) O no (0)	O unknown (9)
					[immotherdesc]
			spect this is a case of atypical er clinical features? [atypical]	O yes (1) O no (0)	O unknown (9)
	<u>If yes</u>	35A. Provide laboratory va	alues or other pertinent information [aty	/picaldetails]	
Insti	ructions: F	Record the correct unites or	es within 7 days before and 3 da convert to the correct units before ente t (e.g., enter a platelet count of 33,700/	ering into the HUS database,	especially for platelet
36A.	Highest	serum creatinine	[cre]	mg/dL (suggested ra	nge: 0.10-30.00)
37A.	•	serum BUN	[bun]	mg/dL (suggested ra	-
38A.	•				ange: 0.50-125.00)
	Highest		[wbc]		,
39A.	Lowest	hemoglobin	[hgb]	g/dL (suggested ra	ange: 2.0-30.0)

Case ID	p3



FoodNet (2)



40A.	Lowest hematocrit	[hct]	% (suggested range: 0.0-100.0)
41A.	Lowest platelet count	[plt]	K/mm ³ (suggested range: 3.0-600.0)
42A.	Microangiopathic changes	[rcfrag]	O yes (1) O no (0) O unknown (9) O not tested (7)
Other	aboratory findings within 7 days b	efore and 3 days after	HUS diagnosis:
	43A. Blood (or heme) in urine [b	ourine]	O yes (1) O no (0) O unknown (9) O not tested (7)
	44A. Protein in urine [purine]		O yes (1) O no (0) O unknown (9) O not tested (7)
	45A. RBC in urine by microscop	y [rburine]	O yes (1) O no (0) O unknown (9) O not tested (7)

Epi Information

Instructions for Hospital Discharge Data: All records meeting the ICD9-or ICD10-CM codes specified in the surveillance protocol should be reviewed even if the case had already been identified through Active Surveillance in order to obtain potentially missing information. If a case is captured through HDD and was previously identified through the network of practitioners, sites should check that the abstracted information from active surveillance is current and complete. In the event that additional information is available, this should be included in the FoodNet HUS surveillance system. If a discrepancy is identified, the most current information should be used.

46A. How was patient's illness first identified by public health (state or local health department or EIP)? [firstident]

- O Report of HUS case by a physician or service participating in the FoodNet HUS active surveillance network (1)
- Report of HUS case by a non-participating physician or service (2)
- O Routine STEC infection active surveillance (3)
- Retrospective review of hospital discharge data (4)
- O Other (specify in comments) (7) [fidentothdesc]

O Unknown (9)	
47A. Date reported to public health or identified by hospital discharge data review [dphreport]	/
48A. Was hospital discharge data review completed for this case (to verify or supplement information)? [hddrev]	O yes (1) O no (0) O unknown (9)
49A. Date of HDD (hospital discharge data) review [dhdd]	/
50A. Is this case epidemiologically linked to a confirmed or probable Shiga toxin-producing <i>E.coli</i> (STEC) case?[epilink]	O yes (1) O no (0) O unknown (9)
51A. Is this case outbreak related? [outbreak]	O yes (1) O no (0) O unknown (9)

or probable Sniga toxin-producing E.coli (STEC) case [epilink]	
51A. Is this case outbreak related? [outbreak]	O yes (1) O no (0) O unknown (9)
Form A Comments, Composite \	Variables, and Status
52A. Completed by (initials): [aby]	
53A. Comments [commentsa]	
54A. Age at HUS Diagnosis [age]	Number in years (round-up)
55A. Is the patient a resident of the FoodNet catchment area [fncatch]	1(in catchment), 0 (not in catchment), blank (incomplete)
56A. Is this a FoodNet pediatric post diarrheal case [postdiarrheal]	1(Yes), 0 (No), blank (incomplete)
57A. Year reported? [reportingyear]	
58A. Complete? [a_case_report_form_complete]	O incomplete (0) O unverified (1) O complete (2)

lase ID	n4







CDC's Foodnet Hemolytic Uremic Syndrome Surveillance Microbiology Report Form

Instructions: Enter the most relevant microbiology tests associated with this HUS case by specimen source. If multiple positive stool specimens were tested, prioritize specimens tested by the SPHL or CDC. Include positive stool with any evidence of STEC, and, if applicable, serum sent to CDC for testing of abxbodies against STEC and/or one other positive specimen if additional results are available. In addition, you will be prompted to enter negative results (if applicable) only for evidence of STEC.

Stool Specimen 1B. Was stool collected? [stoolspec] 2B. Date stool specimen collected [dstoolspec] 3B. State Lab ID: [stoolslabsid]

Instructions: Answer below questions as they pertain to the stool specimen collected at each lab. You will be asked about other specimens in the other pathogens section

pathogens section.			
4B. Questions	Clinical Lab	State or Local PHL	CDC Lab (Federal)
Was this specimen forwarded	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	N/A
to the lab?	[sspecsent]	[fspecsent]	
Was testing performed at lab?	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)
	[ctest]	[stest]	[ftest]
Was a Shiga toxin test	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	N/A
performed? (e.g. PCR, EIA)	[cstxtest]	[sstxtest]	
Shiga toxin test result	O positive (1) O negative (2)	O positive (1) O negative (2)	O positive (1) O negative (2)
C .	[cstxresult]	[sstxresult]	[fstxresult]
Shiga toxin type	O stx1 (1) O stx2 (2) O stx1	O stx1 (1) O stx2 (2) O stx1	O stx1 (1) O stx2 (2) O stx1
, , , , , , , , , , , , , , , , , , ,	& stx2 (3) Oundifferentiated(9)	& stx2 (3) Oundifferentiated(9)	& stx2 (3) Oundifferentiated(9)
	[cstxgene]	[sstxgene]	[fstxgene]
Was a CIDT for <i>E. coli</i> O157	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	N/A
performed? (e.g. Immunocard Stat)	[co157cidt]	[so157cidt]	
CIDT result?	O positive (1) O negative (2)	O positive (1) O negative (2)	N/A
	[co157cidtresult]	[so157cidtresult]	
Did the test include H7?	O yes (1) O no (0) O unk (9)	N/A	N/A
	[cidth7]		
Was a culture for <i>E.coli</i> O157	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	N/A
performed or the isolate	[co157cult]	[so157cult]	
confirmed to be E.coli O157?	-	-	
Was E.coli O157 isolated?	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)
	[co157isol]	[so157isol]	[fo157isol]
Was a culture for <i>E.coli</i> non-	N/A	O yes (1) O no (0) O unk (9)	N/A
O157 performed?		[snono157cult]	
Was <i>E.coli</i> non-O157	N/A	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9)
isolated?		[snono157isol]	[fnono157isol]
O Antigen	N/A	O O26(1) O O111(2)	O O26(1) O O111(2) O O103(3)
		O O103(3) O O121 (4) O O45(5)	O O121 (4) O O45(5) O O145(6)
		O O145(6) Orough(-2) Ound (-3)	O O118 (7) OO69(8) O O91(9)
		Onot found(-1)	O 0165 (10) O 0186(11)
		[soant]	O Other(12) Orough(-1)
			Ound (-2) Onot tested(-7)
LI Antigon	0117 = - (4) 0117 = (2)	QU7(1) QU2 (2) QU14(2)	[foant] [foantoth] OH7(1) OH2 (2) OH11(3)
H Antigen	O H7 pos (1) O H7 neg (2)	OH7(1) OH2 (2) OH11(3) OH19 (4) OH16(5) OH8(6)	OH7(1) OH2 (2) OH11(3) OH19 (4) OH16(5) OH8(6)
	O non-motile(3) Onot	OH25(7) OH21(8) OH28(9)	OH25(7) OH21(8) OH28(9)
	tested(4)	OH49(10) OH14(11) OOther(12)	OH49(10) OH14(11) OOther(12)
	[chant]	ONon-motile(-1) ONot tested(-7)	ONon-motile(-1) ONot tested(-7)
		[shant] [shantoth]	[fhant] [fhantoth]
		[anant] [anantoth]	[mant] [mantotri]

5B. Was immunomagnetic separation (IMS) used to identify common STEC serogroups? [ims]

6B. What serogroup(s) did the IMS procedure target? (check all that apply) (0,1)

O yes (1) O no (0) O unknown (9)

□O157 [imssero_O157] □O26 [imssero_O26]

□O45 [imssero_O45] □O103 [imssero_O103] □O111 [imssero_O111] □O121 [imssero_O121] □O145 [imssero_O145]

В

FoodNet (1)



8B. Sequencing ID [we 8B-1. O antigen g	 Was whole genome sequencing (WGS) performed on this isolate? (at state or CDC) [wgs] 8B. Sequencing ID [wgsid] 8B-1. O antigen gene identified by WGS [wgsoant] 8B-2. H antigen gene identified by WGS [wgshant] 		O yes (1) O no (0) O unknown		
	CDC Serology Te	sts			
	lasma been sent to CDC for testing or other STEC? [antio157]	O yes (1) O r	no (0) O unknown (9)		
10B. Date serolog	y specimen collected? [<mark>dserum</mark>]				
11B. State labora	ory ID for serum [<mark>serumslabsid]</mark>		· · · · · · · · · · · · · · · · · · ·		
12B. Was there m	ore than one serology result for this case? [multis	cerol] O yes (1) O	no (0) O unknown (9)		

13B. Questions						
LDC tume	Titer IgG	Interpretation of IgG		Titou la M	Interpretation of IgM	
LPS type		Positive	Negative	Titer IgM	Positive	Negative
O 0157(1) O 0111(2) [lpstype1]	[igg1]	[igginterp1] (1)	(2)	[igm1]	[igminterp1] (1)	(2)
[Isptype2]	[igg2]	[igginterp2] (1)	(2)	[igm2]	[igminterp2] (1)	(2)
[lpstype3]	[igg3]	[igginterp3] (1)	(2)	[igm3]	[igminterp3] (1)	(2)

Other Pathogens (co-infections) and Other Specimens

14B. Questions	Clinical Lab	State or Local PHL	CDC Lab (federal)		
Were any other pathogens	Oyes(1) Ono(0) O unk(9)	Oyes(1) Ono(0) O unk(9)	Oyes(1) Ono(0) O unk(9)		
identified?	[cothpath]	[cothpath] [sothpath]			
Specimen source	Same stool used for Same stool used for		Same stool used for STEC		
	STEC testing STEC testing		testing		
Test type	Oculture(1) OCIDT(2)	Oculture(1) OCIDT(2)	Oculture(1) OCIDT(2)		
	[cothpathttyp]	[sothpathttyp]	[fothpathttyp1]		
Pathogen	[cpath]	[spath]	[fpath]		
Other Specimens (second specimen)					
Was any other specimen collected?	Oyes(1) Ono(0) O unk(9) [othspec]				
Date other specimen collection	/[dothspec]				
Specimen source	[specsrc]				
Test type 1	Oculture(1) Onon-culture (CIDT)(2) [othspecttyp1]				
Pathogen 1	[othspecpath1]				
Test type 2 Oculture(1) Onon-culture (CIDT)(2) [othspecttyp2]			hspecttyp2]		
Pathogen 2		[othspecpath2]			
Where positive? (check all that	☐ clinic [osp_clinic]	☐ State or local [osp_phl]	CDC [osp_cdc]		
apply) (<mark>0,1</mark>)					
Other specimen state lab id	[osslabsid]				

Form B Comments, Composite	Variables, and Status
15B. Completed by (initials): [bby]	<u></u>
16B. Comments [commentsb]	
17B. Is there an STEC isolate? [stecisolate]	1(Yes), 0 (No), blank (incomplete)
18B. Is there evidence of STEC by serology [stecbyserology]	1(Yes), 0 (No), blank (incomplete)
19B. Is there any evidence of Shiga toxin? [anystx]	1(Yes), 0 (No), blank (incomplete)
20B. Complete? [b_microbiology_form_complete]	O incomplete (0) O unverified (1) O complete (2) Last updated 7/27/2022







CDC's Foodnet Hemolytic Uremic Syndrome Surveillance

Chart Review Form

Instructions: Complete after patient has been discharged; use hospital discharge summary, consultation notes and DRG coding sheet.

Complete one composite form for all institution where hospitalized.

		Hospitals					
1C. Was patient hospitalized? [hospital]				• yes(1) • no(0) • unknown(9)			
2C. Date of first admission: [dadmis]			_	//			
3C. Date of last of	discharge: [<mark>ddisch</mark>]		_	//_			
		Complications					
Did any of the fol	llowing complications occur during th	<u>-</u>			Б., (
4C. 6C. 8C. 10C. 12C.	Pneumonia [pne] Seizure [szr] Paralysis or hemiparesis [par] Blindness [bln] Other major neurologic sequelae [ner] if yes, Describe: [nerdesc]	O yes (1) O no (0)	O unknown (9) O unknown (9) O unknown (9)		<u>If yes</u> 7 <u>If yes</u> 90 <u>if yes</u> 17	set C. [dpne] C. [dszr] C. [dpar] IC. [dbln] SC. [dner]	
Were any of the	following procedures performed duri	ng this admission:					
14C. 15C.	Peritoneal dialysis [pdial] Hemodialysis [hdial]				O unknown (9) O unknown (9)		
	Transfusion with: 16C. packed RBC or who 17C. platelets [pltt] 18C. fresh frozen plasma		O yes (1)	O no (0)	O unknown (9) O unknown (9) O unknown (9)		
19C. 20C.	Plasmapheresis [phres] Laparotomy or other abdominal su (*other than inse if yes Describe: [surgdesc]	rgery* [<mark>surg</mark>] rtion of dialysis cathete	O yes (1)		O unknown (9) O unknown (9)		
		Discharge	•		45)		
	t discharge [conddc]		O dead (1) Oalive	(0)		
<u>if dead</u>	-	_	/	(0)	O		
<u>if alive</u>	23C. Requiring dialysis24C. With neurologic def				O unknown (9) O unknown (9)		
	Form C Comn	nents, Composite V	ariables, and	Status			
25C. Completed	by (initials): [cby]		- <u></u>				
26C. Comments	[commentsc]						
27C. Length of S	tay? (Days) [<mark>los</mark>]		Number in D	ays	_		
	[c_chart_review_form_complete	e]	O incomplete	e (<mark>0</mark>) O ur	nverified (1) O	complete (2)	
·	'	-	•	` ,	` ,	ated 7/27/2022	