Case	ID	r	oʻ







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

1A. (Case ID [cas	seid]	YYYYYearXXFipscode001Record				
2A. S	2A. State ID [stateid]						
3A. I	FoodNet Pe	rson ID	(if applicable) [personid]				
4A. \$	Site [site]						
5A. [Date entered	d [dente	r]	/			
	Instru	uctions:	Demograp Complete the following demographic ir	ohic Information	patient diagr	nosed with	HUS.
6A D	ate of Birth			/			
	tate of Resi		state1				
	ounty of res	_	-				
	ex [sex]			O Female (1) O Male	e (2) O Un	known (9)	
10A. E	Ethnicity [eth	nicity]		O Hispanic (1) O N	on-Hispanio	: (<mark>2</mark>) O L	Jnknown (<mark>9</mark>)
	Race [race]			O Black (1) O White	e (2) O As	sian (3)	
				O American Indian / A	laska Native	e (<mark>4</mark>)	
				O Pacific Islander / Na	ative Hawaiia	an (<mark>5</mark>)	
O Multi-Racial (6) O Other (12) O Unknown (9)				n (<mark>9</mark>)			
12A.			Clinica mplete the following by interviewing the diagnosis known? [dhusunk]	ll Information e attending physician and/or rev	viewing patie		al record.
13A.	Date of HUS	3 diagno	osis? [<mark>dhus</mark>]		/		
14A.	Did the patie	ent have	e diarrhea in the 3 weeks before HUS d	liagnosis? [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 the				O unknown (9)
17A.			eated with antimicrobial medications? [a	_	O yes (1)	O no (0)	O unknown (9)
	<u>if yes</u>	18A.	Types of antimicrobials used to treat				
		(0,1)	□ Azithromycin (Zithromax, Z-Pak) □ Ceftriaxone (Rocephin)[abxd_cei □ Ciprofloxin (Cipro) [abxd_cirpoflo □ Levofloxacin (Levaquin) [abxd_lei □ Metronidazole (Flagyl) [abxd_mei □ Piperacillin [abxd_piperacillin] □ Tazobactam [abxd_tazobactam] □ Trimethoprim Sulfamethoxazole □ Vancomycin (Vancocin) [abxd_vaice] □ Other (specify in comments) [abxilon] □ Unknown [abxd_unknown]	ftriaxone] oxin] evofloxacin] etronidazole] (Bactrim, Septra) [abxd_trimethancomycin]	_		abxdoth]

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Clinical Information Continued		
Clinical Information Continued		

19A. D	oid the pat		th another person with diarrhea or HUS during the (include daycare, household, etc.)? [contact]	O yes	(<mark>1</mark>)	O no (0)	O unknown (9)
	-	n than diarrhea durii	antimicrobial medication (ANY antibiotic) for any ng the 3 weeks before HUS diagnosis? [abxnotdiar] ed with antimicrobial [abxndreason]	-	(1)	O no (0)	O unknown (9)
	22A.	(0,1)	obials used to treat conditions other than diarrhea: (oromycin (Zithromax, Z-Pak) [abxnd_azithromycin] iaxone (Rocephin)[abxnd_ceftriaxone] ofloxin (Cipro) [abxnd_cirpofloxin] floxacin (Levaquin) [abxnd_levofloxacin] onidazole (Flagyl) [abxnd_metronidazole] racillin [abxnd_piperacillin] bactam [abxnd_tazobactam] ethoprim Sulfamethoxazole (Bactrim, Septra) [abxnd_omycin (Vancocin) [abxnd_vancomycin] r (specify in comments) [abxnd_other] own [abxnd_unknown]				[abxndoth]
Other	medical co	onditions present du	ring 3 weeks before HUS diagnosis:				
	23A.	Other gastrointesti	nal illness [gastro]	O yes	(1)	O no (0)	O unknown (9)
	24A.	Urinary tract infect	ion [<mark>uti</mark>]	O yes	(<mark>1</mark>)	O no (0)	O unknown (9)
	25A.	Respiratory tract in	nfection [rti]	O yes	(1)	O no (0)	O unknown (9)
	26A.	Other acute illness if yes Describe	s[acute] e [acutedesc]	O yes	(<mark>1</mark>)	O no (0)	O unknown (9)
	27A.	Pregnancy [preg]		O yes	(1)	O no (0)	O unknown (9)
	28A.	Kidney disease [ki	dn]	O yes	(1)	O no (0)	O unknown (9)
	29A.	Immune comprom	ising condition or medication [immcomp]	O yes	(1)	O no (0)	O unknown (9)
	<u>if yes</u>	30A. Mali	gnancy [<mark>malig</mark>]	O yes	(1)	O no (0)	O unknown (9)
		31A. Trar	nsplanted organ or bone marrow [transpl]	O yes	(1)	O no (0)	O unknown (9)
			infection [hiv]	O yes	(1)	O no (0)	O unknown (9)
		33A. Ster	oid Use (parenteral or oral) [ster]	-			O unknown (9)
		Othe	er, describe [immother]	O yes	(1)	O no (0)	O unknown (9)
							[immotherdesc
			m or suspect this is a case of atypical g or other clinical features? [<mark>atypical</mark>]	O yes	(<mark>1</mark>)	O no (0)	O unknown (9)
	<u>If yes</u>	35A. Provide labor	ratory values or other pertinent information [atypical	details]			
Insi	tructions: I		ry values within 7 days before and 3 days a nites or convert to the correct units before entering count (e.g., enter a platelet count of 33,700/mm3	into the H	IUS		especially for platelet
36A.	Highes	serum creatinine	[cre]	_ mg/dL	(su	ggested ra	nge: 0.10-30.00)
37A.	Highes	serum BUN		mg/dL	(su	ggested ra	nge: 4.0-100.0)
38A.	Highes		[wbc]	_ •	`		ange: 0.50-125.00)
39A.	•	hemoglobin		g/dL	•		ange: 2.0-30.0)
Jan.	Lowest	Hemoglobin	[hgb]	_ g/uL	(St	aggested fa	ange. 2.0-30.0)

	_
Case ID	p3



FoodNet (3)



40A.	Lowest hematocrit	[hct]	-	%	(suggested range: 0.0-100.0)
41A.	Lowest platelet count	[plt]	-	K/m	nm³ (suggested range: 3.0-600.0)
42A.	Microangiopathic changes	[rcfrag]	•	O yes (1) C	no (0) O unknown (9) O not tested (7)
Other Is	aboratory findings within 7 days befo	ore and 3 days afte	er HUS diagnosis:		
	43A. Blood (or heme) in urine [bur	ine]	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 microscopy	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 ICD10-or ICD11-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]

- 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)

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; when possible, the primary specimen should be the specimen associated with a FoodNet infection. 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 STFC **Stool Specimen**

1B. Was stool collected? [stoolspec]	O yes (1) O no (0) O unknown (9)
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.	1		
4B. Questions	Clinical Lab	State or Local PHL	CDC Lab (Federal)
Was this specimen forwarded to the lab?	O yes (1) O no (0) O unk (9) [sspecsent]	O yes (1) O no (0) O unk (9) [fspecsent]	N/A
Was testing performed at lab?	O yes (1) O no (0) O unk (9) [ctest]	O yes (1) O no (0) O unk (9) [stest]	O yes (1) O no (0) O unk (9) [ftest]
Was a Shiga toxin test performed? (e.g. PCR, EIA)	O yes (1) O no (0) O unk (9)	O yes (1) O no (0) O unk (9) [sstxtest]	N/A
Shiga toxin test result	O positive (1) O negative (2) [cstxresult]	O positive (1) O negative (2) [sstxresult]	O positive (1) O negative (2) [fstxresult]
Shiga toxin type	O stx1 (1) O stx2 (2) O stx1 & stx2 (3) Oundifferentiated(9) [cstxgene]	O stx1 (1) O stx2 (2) O stx1 & stx2 (3) Oundifferentiated(9) [sstxgene]	O stx1 (1) O stx2 (2) O stx1 & stx2 (3) Oundifferentiated(9) [fstxgene]
Was a CIDT for <i>E. coli</i> O157 performed? (e.g. Immunocard Stat)	O yes (1) O no (0) O unk (9) [co157cidt]	O yes (1) O no (0) O unk (9) [so157cidt]	N/A
CIDT result?	O positive (1) O negative (2) [co157cidtresult]	O positive (1) O negative (2) [so157cidtresult]	N/A
Did the test include H7?	O yes (1) O no (0) O unk (9) [cidth7]	N/A	N/A
Was a culture for <i>E.coli</i> O157 performed or the isolate confirmed to be <i>E.coli</i> O157?	• yes (1) • no (0) • unk (9) [co157cult]	• yes (1) • no (0) • unk (9) [so157cult]	N/A
Was <i>E.coli</i> O157 isolated?	O yes (1) O no (0) O unk (9) [co157isol]	O yes (1) O no (0) O unk (9) [so157isol]	O yes (1) O no (0) O unk (9) [fo157isol]
Was a culture for <i>E.coli</i> non-O157 performed?	N/A	O yes (1) O no (0) O unk (9) [snono157cult]	N/A
Was <i>E.coli</i> non-O157 isolated?	N/A	O yes (1) O no (0) O unk (9) [snono157isol]	O yes (1) O no (0) O unk (9) [fnono157isol]
O Antigen	N/A	OO26(1) OO111(2) OO103(3) O O121 (4) OO45(5) O O145(6) Orough(-2) Ound (-3) Onot found(-1) [soant]	OO26(1) OO111(2) OO103(3) OO121 (4) OO45(5) O O145(6) OO118 (7) OO69(8) O O91(9) OO165 (10) OO186(11) OOther(12) Orough(-1) Ound (-2) Onot tested(-7) [foant] [foantoth]
H Antigen	O H7 pos (1) O H7 neg (2) O non-motile(3) Onot tested(4) [chant]	OH7(1) OH2 (2) OH11(3) OH19 (4) OH16(5) OH8(6) OH25(7) OH21(8) OH28(9) OH49(10) OH14(11) OOther(12) ONon-motile(-1) ONot tested(-7) [shant] [shantoth]	OH7(1) OH2 (2) OH11(3) OH19 (4) OH16(5) OH8(6) OH25(7) OH21(8) OH28(9) OH49(10) OH14(11) OOther(12) ONon-motile(-1) ONot tested(-7) [fhant] [fhantoth]

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]

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Case ID	5a

Last updated 7/27/2022

B

FoodNet (**)

	Vas whole genome sequencing BB. Sequencing ID [wgsid] 8B-1. O antigen gene identi 8B-2. H antigen gene identi	ified by WG	SS [wgsoant]	at state or C	DC) [wgs]	O yes (1) O no (0)	O unknown		
			CDC Serolog	y Tests					
	Has patient serum or plasma been sent to CDC for testing for antibodies to O157 or other STEC? [antio157]				O yes (1) O no (0) O unknown (9)				
	10B. Date serology specimen collected? [dserum]				1	1			
	11B. State laboratory ID for serum [serumslabsid]								
	,				O 1/00	(1) O no (0) O uni	(nour (0)		
	12B. Was there more than one serology result for this case? [multiserol] O yes (1) O no (0) O unknown (9)								
	13B. Questions	1	T		Т	T			
	LPS type	Titer Ige	G Interpretation		Titer IgM	Interpretation			
		ling41	Positive	Negative	Figure 41	Positive	Negative		
	O 0157(1) O 0111(2) [lpstype1]	[igg1]	[igginterp1] (1)	(2)	[igm1]	[igminterp1] (1)	(<mark>2</mark>)		
	[Isptype2]	[igg2]	[igginterp2] (1)	(<mark>2</mark>)	[igm2]	[igminterp2] (1)	(2)		
١	[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 identified?	O	yes(1) Ono(0) O unk(9) [cothpath]		Ono(0) O unk		Oyes(1) Ono(0) O unk(9) [fothpath]		
	Specimen source	en source S			stool used for EC testing		Same stool used for STEC testing		
	Test type	(STEC testing Oculture(1) OCIDT(2) [cothpathttyp]	Oculture	e(1) OCIDT(2)		OCIDT(2)		
	Pathogen		[cpath]		[spath]		[fpath]		
	Other Specimens (second specimen)								
'	Was any other specimen collect	ted?	Oyes(1) Ono(0) O unk(9) [othspec]						
	Date other specimen collect	tion		/	/[dothspec]				
	Specimen source			[specsrc]					
	Test type 1		Oculture	Onon-culture (CIDT)(2) [othspecttyp1]					
	Pathogen 1 Test type 2		Oculturo		[othspecpath1]				
	Pathogen 2		Oculture(1) Onon-culture (CIDT)(2) [othspecttyp2] [othspecpath2]						
	Where positive? (check all the apply) (0,1)	hat	☐ clinic [osp_clinic] ☐ State or local [osp_phl] ☐ CDC [osp_cdc]						
Other specimen state lab id [osslabsid]									
	Completed by (initials): [bby] Comments [commentsb]	Form B C	Comments, Composit	e Variable	s, and Statu	s			
7B.	Is there an STEC isolate? [stec	isolate]		1(Yes	s), 0 (No), blar	nk (incomplete)			
	Is there evidence of STEC by s		ecbyserologyl			nk (incomplete)			
	Is there any evidence of Shiga			·					
9B.	3. Is there any evidence of Shiga toxin? [anystx] 1(Yes), 0 (No), blank (incomplete) 3. Complete? [b_microbiology_form_complete] • incomplete (0) • unverified (1) • complete (2)								







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]	O yes(1) O no(0) O unknown(9)			
2C. Date of first admission: [dadmis]				
3C. Date of last discharge: [ddisch]				
Complications				
Did any of the following complications occur during this admission:				
4C. Pneumonia [pne] 6C. Seizure [szr] 8C. Paralysis or hemiparesis [par] 10C. Blindness [bln] 12C. Other major neurologic sequelae [ner] if yes, Describe: [nerdesc]	unknown (9) If yes 7C. [dszr] unknown (9) If yes 9C. [dpar] unknown (9) If yes 11C. [dbln]			
Were any of the following procedures performed during this admission:				
14C. Peritoneal dialysis [pdial] 15C. Hemodialysis [hdial]	O yes (1) O no (0) O unknown (9) O yes (1) O no (0) O unknown (9)			
Transfusion with: 16C. packed RBC or whole blood [prbc] 17C. platelets [pltt] 18C. fresh frozen plasma [ffpl]	O yes (1) O no (0) O unknown (9) O yes (1) O no (0) O unknown (9) O yes (1) O no (0) O unknown (9)			
 19C. Plasmapheresis [phres] 20C. Laparotomy or other abdominal surgery* [surg]	O yes (1) O no (0) O unknown (9) O yes (1) O no (0) O unknown (9)			
Discharge				
21C. Condition at discharge [conddc]	O dead (1) Oalive (0)			
<u>if dead</u> 22C. Date deceased [ddead]	//			
<u>if alive</u> 23C. Requiring dialysis [reqdial]	O yes (1) O no (0) O unknown (9)			
24C. With neurologic deficits [neurodef]	O yes (1) O no (0) O unknown (9)			
Form C Comments, Composite Vari	ables, and Status			
25C. Completed by (initials): [cby]				
26C. Comments [commentsc]				
27C. Length of Stay? (Days) [los]	Number in Days			
28C. Complete? [c_chart_review_form_complete]	O incomplete (0) O unverified (1) O complete (2)			