Case	ID	r	oʻ







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

1Δ	Case ID [c	aseidl	YYYYYearXXFipscode001Record					
	=	=	7777 777 007					
	2A. State ID [stateid] 3A. FoodNet Person ID (if applicable) [personid] 4A. Site [site]							
	Date enter	ed [dente	erl					
		[~1					
			Demog	raphic Information				
	Ins	tructions:	Complete the following demographi		patient diagnosed with	HUS.		
6A. [Date of Birt	h [<mark>dob</mark>]						
7A. S	State of Re	sidence [state]					
8A. C	County of re	esidence	[county]					
9A. S	Sex [sex]			O Female (1) O Male	e (<mark>2</mark>)			
10A.	Ethnicity [e	ethnicity]		O Hispanic (1) O N	Non-Hispanic (2)	Unknown (<mark>9</mark>)		
11A.	Race [<mark>race</mark>]		O Black (1) O Whit	O Black (1) O White (2) O Asian (3)			
				O American Indian / A	Alaska Native (4)			
				O Pacific Islander / N	ative Hawaiian (<mark>5</mark>)			
				O Multi-Racial (6) O	Other (12) O Unknow	vn (<mark>9</mark>)		
			2 11					
	Instruc	tions: Co	Clin mplete the following by interviewing	ical Information the attending physician and/or rev	viewing patient's medic	cal record.		
12A.	Is the date	of HUS	diagnosis known? [dhusunk]		O yes(1) O no(0)			
13A.	Date of HI	JS diagn	osis? [dhus]		/ /			
14A.	Did the pa	itient hav	e diarrhea in the 3 weeks before HU	S diagnosis? [diarrhea]	O yes (1) O no (0)	O unknown (9)		
	if yes	15A.	Date of diarrhea onset [donset]					
	-	16A.	Did stools contain visible blood at	the time? [stoolblood]	O yes (1) O no (0)	O unknown (9)		
17A.	Was di	arrhea 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 tre	eat diarrhea: (check all that apply)	. , ,			
		(0,1)	Azithromycin (Zithromax, Z-Pa Ceftriaxone (Rocephin)[abxd_ Ciprofloxin (Cipro) [abxd_cirp Levofloxacin (Levaquin) [abxd_ Metronidazole (Flagyl) [abxd_ Piperacillin [abxd_piperacillin] Tazobacani [abxd_tazobacta	_ceftriaxone] ofloxin] d_levofloxacin] metronidazole] im]				
			☐ Vancomycin (Vancocin) [abxd					
			☐ Other (specify in comments) [☐ Unknown [abxd_unknown]	abxd_other]		abxdoth]		

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		Continued	

19A. E	oid the pat		nother person with diarrhea or HUS durir lude daycare, household, etc.)? [<mark>contact</mark>]		yes (1)	O no (0)	O unknown (9)
		n than diarrhea during t	imicrobial medication (ANY antibiotic) for he 3 weeks before HUS diagnosis? [abxr vith antimicrobial [abxndreason]	-) yes (1)	O no (0)	O unknown (9)
	22A.	(0,1)	Is used to treat conditions other than diar ycin (Zithromax, Z-Pak) [abxnd_azithromane (Rocephin)[abxnd_ceftriaxone] tin (Cipro) [abxnd_cirpofloxin] acin (Levaquin) [abxnd_levofloxacin] azole (Flagyl) [abxnd_metronidazole] lin [abxnd_piperacillin] tam [abxnd_tazobactam] prim Sulfamethoxazole (Bactrim, Septra ycin (Vancocin) [abxnd_vancomycin] pecify in comments) [abxnd_other] in [abxnd_unknown]	mycin]			[abxndoth]
Other	medical co	onditions present during	3 weeks before HUS diagnosis:				
	23A.	Other gastrointestinal	illness [<mark>gastro</mark>]	0	yes (1)	O no (0)	O unknown (9)
	24A.	Urinary tract infection	[<mark>uti</mark>]	0	yes (1)	O no (0)	O unknown (9)
	25A.	Respiratory tract infec	tion [<mark>rti</mark>]	0	yes (1)	O no (0)	O unknown (9)
	26A.	Other acute illness[ac	-	0	yes (1)	O no (0)	O unknown (9)
		<u>if yes</u> Describe [ac	utedesc]	_			
	27A.	Pregnancy [preg]					O unknown (9)
	28A.	Kidney disease [kidn]				, ,	O unknown (9)
	29A.		g condition or medication [immcomp]				O unknown (9)
	<u>if yes</u>	30A. Maligna					O unknown (9)
			anted organ or bone marrow [transpl]				O unknown (9)
		32A. HIV infe					O unknown (9)
			Use (parenteral or oral) [ster]				O unknown (9)
		Other, d	escribe [immother]	0	yes (1)	O no (0)	O unknown (9)
	S. 1 (1 1:	. , ., .,		_	(4)	• (0)	[immotherdesc
			suspect this is a case of atypical other clinical features? [atypical]	O	yes (1)	O no (0)	O unknown (9)
	<u>If yes</u>	35A. Provide laborato	ry values or other pertinent information [a	atypicaldeta	ils]		
Ins	tructions: I	Record the correct unite	ralues within 7 days before and 3 c s or convert to the correct units before er ount (e.g., enter a platelet count of 33,70	ntering into	the HUS		especially for platelet
36A.	Highest	serum creatinine	[cre]	m	g/dL (su	ggested ra	nge: 0.10-30.00)
37A.	•	serum BUN	[bun]		•		nge: 4.0-100.0)
38A.	Highest		[wbc]		•		ange: 0.50-125.00)
	•				`	00	,
39A.	Lowest	hemoglobin	[hgb]	g/d	u∟ (Sl	iggested f	ange: 2.0-30.0)

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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 la	aboratory findings within 7 days befor	e and 3 days after HUS dia	gnosis:		
	43A. Blood (or heme) in urine [burin	ne]	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 [r	burine]	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]

- 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)

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? [<mark>reportingyear]</mark>	
58A, Complete? [a case report form complete]	O incomplete (0) O unverified (1) O complete (2)

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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 STEC.

Stool Specimen

1B. Was stool collected? [stoolspec]	\mathbf{O} yes (1) \mathbf{O} no (0) \mathbf{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

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]	• yes (1) • no (0) • unk (9) [ftest]
Was a Shiga toxin test performed? (e.g. PCR, EIA)	O yes (1) O no (0) O unk (9) [cstxtest]	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]	O yes (1) O no (0) O 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]	• yes (1) • no (0) • 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]	• yes (1) • no (0) • 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) O O121 (4) OO45(5) O O145(6) O O118 (7) OO69(8) O O91(9) O O165 (10) OO186(11) O Other(12) Orough(-1) Ound (-2) Onot tested(-7) [foant] [foantoth]
H Antigen 5B. Was immunomagnetic separa	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] res (1) O no (0) O unknown (9)

5B. Was immunomagnetic separation (IMS) used to identify common STEC serogroups? [ims]
6B. What serogroup(s) did the IMS procedure targets.

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

□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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Last updated 7/27/2022

В

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	Vas whole genome sequencing BB. Sequencing ID [wgsid] 8B-1. O antigen gene identi 8B-2. H antigen gene identi	fied by WG	S [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]								
				nulticaroll	O voc (1) O no (0) O unknown (0)				
	12B. Was there more than one serology result for this case? [multiserol] O yes (1) O no (0) Unknown (9)						(HOWIT (8)		
	13B. Questions	1	T			1			
	LPS type	Titer IgG	Interpretation		Titer IgM	Interpretation			
	0.0157(1) 0.0111(2)	[igg1]	Positive [igginterp1] (1)	Negative (2)	[igm1]	Positive [igminterp1] (1)	Negative		
	O 0157(1) O 0111(2) [lpstype1]	[igg1]	[igginterp1](1)	(2)	[igm1]	[igitiliterp i] (1)	(<mark>2</mark>)		
	[lsptype2]	[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 identified?	Оу	es(1) Ono(0) O unk(9) [cothpath]		no(0) O unkoothpath]	(9) Oyes(1) Ono(
	Specimen source		Same stool used for STEC testing		stool used for EC testing		Same stool used for STEC testing		
	Test type	C	Oculture(1) OCIDT(2) [cothpathttyp]	Oculture	e(1) OCIDT(2)	Oculture(1)	Oculture(1) OCIDT(2) [fothpathttyp1]		
	Pathogen		[cpath]		[spath]		[fpath]		
	Other Specimens (second specimen)								
'	Was any other specimen collect	ted?	0	yes(1) Ono(0) O unk(9) [0	othspec]			
	Date other specimen collection			/[dothspec]					
	Specimen source				[specsrc]				
	Test type 1		Oculture	` '	Pnon-culture (CIDT)(2) [othspecttyp1]				
	Pathogen 1 Test type 2		[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			[0	sslabsid]				
	Completed by (initials): [bby] Comments [commentsb]	Form B C	omments, Composi	te Variable:	s, and Statu	s			
	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			· ·		nk (incomplete)			
	,g-						complete (2)		





C

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	• yes(1) • no(0) • unknown(9)//		
2C. Date of first	admission: [<mark>dadmis</mark>]				
3C. Date of last	discharge: [<mark>ddisch</mark>]				
	Complications				
Did any of the fo	llowing complications occur during this admission:		Data of areas		
4C. 6C. 8C. 10C. 12C.	Pneumonia [pne] Seizure [szr] Paralysis or hemiparesis [par] Blindness [bln] Other major neurologic sequelae [ner] if yes, Describe: [nerdesc]	unknown (9) unknown (9) unknown (9)	Date of onset if yes 5C. [dpne] If yes 7C. [dszr] If yes 9C. [dpar] if yes 11C. [dbln] if yes 13C. [dner]		
Were any of the	following procedures performed during this admission:				
14C. 15C.	Peritoneal dialysis [pdial] Hemodialysis [hdial]	O yes (1) O no (0) O yes (1) O no (0)			
	Transfusion with: 16C. packed RBC or whole blood [prbc] 17C. platelets [pltt] 18C. fresh frozen plasma [ffpl]	O yes (1) O no (0) O yes (1) O no (0) O yes (1) O no (0)	O unknown (9)		
19C. 20C.	Plasmapheresis [phres] Laparotomy or other abdominal surgery* [surg]	O yes (1) O no (0) O yes (1) O no (0)			
	Discharge				
21C. Condition a	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 Var	iables, and Status			
-	by (initials): [cby]				
26C. Comments					
	Stay? (Days) [los]	Number in Days	_		
28C. Complete?	[c_chart_review_form_complete]	O incomplete (0) O un	verified (1) O complete (2)		