Case ID	D,	1







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

1A. (Case ID [ca	seid]	YYYYYearXXFipscode001Record				
2A. S	State ID [sta	ateid]					
3A. F	FoodNet Pe	erson ID	(if applicable) [personid]				
4A. S	Site [site]						
5A. [Date entere	d [dente	er]	/			
	Instr	uctions:	Demogra Complete the following demographic	aphic Information information as it pertains to the p	patient diagr	nosed 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 Male (1) O Female	e (2) O Un	known (<mark>9</mark>)	
10A. E	Ethnicity [et	hnicity]		O Hispanic (1) O N	on-Hispanic	(2) O L	Jnknown (<mark>9</mark>)
11A. F	Race [race]			O Black (1) O White	e (2) O As	sian (<mark>3</mark>)	
				O American Indian / A	laska Native	(4)	
				O Pacific Islander / Na	ative Hawaiia	an (<mark>5</mark>)	
				O Multi-Racial (6) O	Other (12)	O Unknow	n (<mark>9</mark>)
12A.			Clinic mplete the following by interviewing the diagnosis known? [dhusunk]	cal Information he attending physician and/or rev	riewing patie		al record.
13A.	Date of HU	S diagno	osis? [<mark>dhus</mark>]		/	<i></i>	
14A.	Did the pati	ent have	e diarrhea in the 3 weeks before HUS	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	he time? [stoolblood]	O yes (1)	O no (0)	O unknown (9)
17A.	Was dia	rrhea tre	eated with antimicrobial medications?	[abxdiar]	O yes (1)	O no (0)	O unknown (9)
	if yes	18A.	Types of antimicrobials used to trea	at diarrhea: (check all that apply)			
		(0,1)	☐ Vancomycin (Vancocin) [abxd_	veftriaxone] floxin] vertevofloxacin] netronidazole] n] e (Bactrim, Septra) [abxd_trimeth		[abxdoth]



37A.

Lowest hemoglobin

[hgb]





19A. D	Did the pati arrhea or H	nation Continued ient have contact wit HUS during the 3 we care, household, etc	O yes (1) O no (0)	O unknown (9)	
(A	NY antibio	tient treated with an otic) for any other rea before HUS diagno	O yes (1) O no (0)	O unknown (9)	
if yes 21A. Reason tre			ed with antimicrobial [abxndreason]		
	22A.	Types of antimicro	bials used to treat conditions other than	diarrhea: (check all that apply)	
		☐ Ceftri ☐ Cipro ☐ Levoi ☐ Metro ☐ Piper ☐ Tazo ☐ Trime ☐ Vano	romycin (Zithromax, Z-Pak) [abxnd_azithaxone (Rocephin)[abxnd_ceftriaxone] floxin (Cipro) [abxnd_cirpofloxin] loxacin (Levaquin) [abxnd_levofloxacin] inidazole (Flagyl) [abxnd_metronidazole] acillin [abxnd_piperacillin] bactam [abxnd_tazobactam] bathoprim Sulfamethoxazole (Bactrim, Septemycin (Vancocin) [abxnd_vancomycin] respecify in comments) [abxnd_other] bown [abxnd_unknown]]	[abxndoth]
Other	medical co	onditions present du	ing 3 weeks before HUS diagnosis:		
	23A.	Other gastrointesti	nal illness [gastro]	O yes (1) O no (0)	O unknown (9)
	24A.	Urinary tract infect	on [<mark>uti</mark>]	O yes (1) O no (0)	O unknown (9)
	25A.	Respiratory tract in	fection [rti]	O yes (1) O no (0)	O unknown (9)
	26A.	Other acute illness	[acute]	O yes (1) O no (0)	O unknown (9)
		if yes Describe	[acutedesc]		
	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 compromi	sing 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	splanted organ or bone marrow [transpl	O yes (1) O no (0)	O unknown (9)
		32A. HIV	infection [<mark>hiv</mark>]	O yes (1) O no (0)	O unknown (9)
		33A. Ster	oid Use (parenteral or oral) [ster]	O yes (1) O no (0)	O unknown (9)
		Othe	r, describe [immother]	O yes (1) O no (0)	O unknown (9)
					[immotherdesc]
Ins	tructions: F		ry values within 7 days before and nites or convert to the correct units befor count (e.g., enter a platelet count of 3	e entering into the HUS database	
34A.	Highest	serum creatinine	[cre]	mg/dL (suggested ra	ange: 0.10-30.00)
35A.	Highest	serum BUN	[bun]	mg/dL (suggested ra	ange: 4.0-100.0)
36A.	Highest	WBC	[wbc]	K/mm³ (suggested r	ange: 0.50-125.00)

(suggested range: 2.0-30.0)

g/dL

	_
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Laboratory	Values	Continued	

38A.	Lowest hematocrit	[hct]	-	%		(suggested range: 0.0-100.0)
39A.	Lowest platelet count	[plt]	_	K/	mm³	(suggested range: 3.0-600.0)
40A.	Microangiopathic changes	[rcfrag]		9 yes (1)	O no	(0) O unknown (9) O not tested (7)
Other la	aboratory findings within 7 days befor	e and 3 days after HUS dia	ignosis:			
	41A. Blood (or heme) in urine [burin	ne]	O yes (1)	O no (0)	0 (ınknown (9) O not tested (7)
	42A. Protein in urine [purine]		O yes (1)	O no (0)	0 (ınknown (9) O not tested (7)
	43A. RBC in urine by microscopy [r	burine]	O yes (1)	O no (0)	Ο ι	ınknown (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.

44A. 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)

45A. Date reported to public health or identified by hospital discharge data review [dphreport]	
46A. Was hospital discharge data review completed for this case (to verify or supplement information)? [hddrev]	• yes (1) • no (0) • unknown (9)
47A. Date of HDD (hospital discharge data) review [dhdd]	/
48A. 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)
49A. Is this case outbreak related? [outbreak]	O yes (1) O no (0) O unknown (9)

Form A Comments, Composite Variables, and Status

50A. Completed by (initials): [aby]	
51A. Comments [commentsa]	
52A. Age at HUS Diagnosis [age]	Number in years (round-up)
53A. Is the patient a resident of the FoodNet catchment area [fncatch]	1(in catchment), 0 (not in catchment), blank (incomplete
54A. Is this a FoodNet pediatric post diarrheal case [postdiarrheal]	1(Yes), 0 (No), blank (incomplete)
55A. Year reported? [reportedyear]	(e.g. 2016)
56A Complete? [a case report form complete]	O incomplete (0) O unverified (1) O complete (2)

CII ase	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 S	pecimen		
1B. Was stool collected? [stools	spec]	O yes (1) O	no (0) O unknown (9)	
2B. Date stool specimen collected [dstoolspec]/				
3B. State Lab ID: [stoolslabsid]				
Instructions: Answer below questions pathogens section.	as they pertain to the stool specimen of	collected at each lab. You will be asked	d 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]	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) [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)	• yes (1) • no (0) • unk (9) [co157cidt]	• yes (1) • no (0) • 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?	O yes (1) O no (0) O 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]	• yes (1) • no (0) • 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	• yes (1) • no (0) • unk (9) [snono157cult]	O yes (1) O no (0) O unk (9) [fnono157cult]	
Was E.coli non-O157 isolated?	N/A	• yes (1) • no (0) • 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]	[foant] [foantoth]	
H Antigen	O H7 pos (1) O H7 neg (2) O non-motile(3) O not tested(4) [chant]	[shant] [shantoth]	[fhant] [fhantoth]	
5B. Was immunomagnetic separa identify common STEC serog	ation (IMS) used to	O y	ves (1) O no (0) O unknown (9)	
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]				
7B. Was whole genome sequence	ing (WGS) performed on this isolate		yes (1) O no (0) O unknown (9)	

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CDC Serology Tests

9B. 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]	/
11B. State laboratory ID for serum [serumslabsid]	
12B. Was there more than one serology result for this case? [multiserol]	• ves (1) • no (0) • unknown (9)

LPS type	Titer IgG	Interpretation of IgG		Titou la M	Interpretation of IgM	
		Positive	Negative	Titer IgM	Positive	Negative
O O157(1) O O111(2) [lpstype1]	[igg1]	[igginterp1] (1)	(2)	[igm1]	[igminterp1] (1)	(2)
[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	Oyes(1) Ono(0) O unk(9)	Oyes(1) Ono(0) O unk(9)	Oyes(1) Ono(0) O unk(9)		
identified?	[cothpath]	[sothpath]	[fothpath]		
Specimen source	Same stool used for STEC	Same stool used for STEC	Same stool used for STEC		
	testing	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	Oyes(1) Ono(0) O unk(9)				
collected?	[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]			
Pathogen 2		[othspecpath2]			
Where positive? (check	□ clinic [osp_clinic	State or local [osp_phl]	□ CDC [osp_cdc]		
all that apply) (0,1)					
Other specimen		[osslabsid]			
State lab id					

Form B Comments, Composite Variables, and Status						
5B. Completed by (initials): [bby]						
6B. Comments [commentsb]						
7B. Is there an STEC isolate? [stee	cisolate]	1(Yes), 0 (No), blank (incomplete)				
8B. Is there evidence of STEC by	serology [stecbyserology]	1(Yes), 0 (No), blank (incomplete)				
9B. Is there any evidence of Shiga	toxin? [anystx]	1(Yes), 0 (No), blank (incomplete)				
20B. Complete? [b_microbiology_fo	orm_complete]	O incomplete (0) O unverified (1)	O 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 no(0) O unknown(9)			
3C. Date of last discharge: [ddisch]			_	//			
		Complication	s				
Did any of the fo	ollowing complications occur during this	admission:					
4C. 6C. 8C. 10C. 12C.	Seizure [szr] C Paralysis or hemiparesis [par] C Blindness [bln] C	yes (1) O no (0)	O unknown (9) O unknown (9) O unknown (9)		Date of o <u>if yes</u> <u>If yes</u> <u>If yes</u> <u>if yes</u> <u>if yes</u>	onset 5C. [dpne] 7C. [dszr] 9C. [dpar] 11C. [dbln] 13C. [dner]	
Were any of the	following procedures performed during	this admission:					
14C. Peritoneal dialysis [pdial]15C. Hemodialysis [hdial]					O unknown (
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 (O unknown (O unknown ((<mark>9</mark>)	
19C. 20C.	• • •				O unknown (
		Discharge					
21C. Condition	at discharge [conddc]		O dead (1) Oalive	(<mark>0</mark>)		
<u>if dead</u>	<u>d</u> 22C. Date deceased [ddea	ad]	/	/			
<u>if alive</u> 23C. Requiring dialysis		qdial]	O yes (1)	O no (0)	O unknown	(9)	
	24C. With neurologic deficite	s [neurodef]	O yes (1)	O no (0)	O unknown	(9)	
	Form C Comme	nts, Composite V	/ariables, and	Status			
•	I by (initials): [cby]						
26C. Comments	<u> </u>						
27C. Length of	Stay? (Days) [los]		Number in Da	ays			
28C. Complete?	c_chart_review_form_complete]		O incomplete	e (<mark>0</mark>) O un	verified (1)	complete (2)	