Case ID	~1
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### CDC's FoodNet Hemolytic Uremic Syndrome (HUS) Surveillance Case Report Form

1A	. Case ID [ca	seid]	YYYY <sup>Year</sup> XX <sup>Fipscode</sup> 001 <sup>Record</sup>				
2A	. State ID [sta	ateid]					
зА	. FoodNet Pe	erson ID	(if applicable) [personid]				
4A	. Site [site]						
5A	. Date entere	ed [dente	r]	/			
	Instr	ructions:	<b>Demograp</b> Complete the following demographic int	hic Information formation as it pertains to the p	oatient diagr	nosed with	HUS.
6A.	Date of Birth	[dob]		/			
7A.	State of Res	idence [s	state]				
8A.	County of res	sidence	[county]				
9A.	Sex [sex]			O Male (1) O Female	e ( <b>2</b> ) <b>O</b> Un	known ( <mark>9</mark> )	
10A.	. Ethnicity [et	hnicity]		O Hispanic (1) O N	on-Hispanic	( <mark>2</mark> ) <b>O</b> L	Jnknown ( <mark>9</mark> )
11A.	. Race [race]			O Black (1) O White	e (2) O As	sian ( <mark>3</mark> )	
				O American Indian / A	laska Native	e ( <b>4</b> )	
				O Pacific Islander / Na	itive Hawaiia	an ( <mark>5</mark> )	
				O Multi-Racial (6) O	Other (12)	<b>O</b> Unknow	n ( <mark>9</mark> )
124			Clinical mplete the following by interviewing the addingnosis known? [dhusunk]	Information attending physician and/or rev	iewing patie  O yes(1)		al record.
	Date of HU	_		agnasia? [diarrhas]	/		O unknown (0)
14A.	•	15A.	e diarrhea in the 3 weeks before HUS dia Date of diarrhea onset [donset]	agnosis? [diamiea]			O unknown (9)
	<u>if yes</u>	16A.	Did stools contain visible blood at the	timo? [stoolblood]	/		O unknown (9)
17A.	Was dia			-			O unknown (9)
17A.			ated with antimicrobial medications? [at	-	O yes (1)		• unknown (9)
	<u>if yes</u>	18A. ( <mark>0,1</mark> )	Types of antimicrobials used to treat d  Azithromycin (Zithromax, Z-Pak) [				
		(0,1)	□ Ceftriaxone (Rocephin)[abxd_ceft □ Ciprofloxin (Cipro) [abxd_cirpoflox □ Levofloxacin (Levaquin) [abxd_lev □ Metronidazole (Flagyl) [abxd_metr □ Piperacillin [abxd_piperacillin] □ Tazobactam [abxd_tazobactam] □ Trimethoprim Sulfamethoxazole (I □ Vancomycin (Vancocin) [abxd_var □ Other (specify in comments) [abxd_unknown]	riaxone] kin] yofloxacin] ronidazole] Bactrim, Septra) [abxd_trimethncomycin]		[	abxdoth]

Case	ID	n2
Ouco	·D	P



37A.

Lowest hemoglobin

[hgb]





Clinic	al Inforr	nation Continued			
dia	arrhea or	tient have contact with HUS during the 3 week/care, household, etc)	eks before HUS diagnosis	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
(A	NY antibi		antimicrobial medication son than diarrhea during is? [abxnotdiar]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	if yes	21A. Reason treate	d with antimicrobial [abxndreason]		
	22A.	Types of antimicrol	pials used to treat conditions other than diar	rhea: (check all that apply)	
		☐ Ceftria ☐ Ciprof ☐ Levofl ☐ Metror ☐ Pipera ☐ Tazob ☐ Trime ☐ Vanco	omycin (Zithromax, Z-Pak) [abxnd_azithromax, compound (Rocephin)[abxnd_ceftriaxone] loxin (Cipro) [abxnd_cirpofloxin] oxacin (Levaquin) [abxnd_levofloxacin] nidazole (Flagyl) [abxnd_metronidazole] cillin [abxnd_piperacillin] oxactam [abxnd_tazobactam] thoprim Sulfamethoxazole (Bactrim, Septra) mycin (Vancocin) [abxnd_vancomycin] (specify in comments) [abxnd_other] own [abxnd_unknown]		(abxndoth)
Other	medical c	onditions present duri	ng 3 weeks before HUS diagnosis:		
	23A.	Other gastrointesting	al illness [gastro]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	24A.	Urinary tract infection	on [ <mark>uti</mark> ]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	25A.	Respiratory tract in	ection [rti]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	26A.	Other acute illness[	acute]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
		if yes Describe	[acutedesc]		·
	27A.	Pregnancy [preg]		<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	28A.	Kidney disease [kid	n]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	29A.	Immune compromis	sing condition or medication [immcomp]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
	<u>if yes</u>	30A. Malig	nancy [ <mark>malig]</mark>	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
		31A. Trans	splanted organ or bone marrow [transpl]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
		32A. HIV i	nfection [hiv]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
		33A. Stero	id Use (parenteral or oral) [ster]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
		Other	r, describe [immother]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9)
					[immotherdesc]
Insi	tructions:		y values within 7 days before and 3 dites or convert to the correct units before er count (e.g., enter a platelet count of 33,70	ntering into the HUS database,	especially for platelet
34A.	Highes	t serum creatinine	[cre]	mg/dL (suggested ra	nge: 0.10-30.00)
35A.	Highes	t serum BUN	[bun]	mg/dL (suggested ra	nge: 4.0-100.0)
36A.	Highes	t WBC	[wbc]	K/mm <sup>3</sup> (suggested ra	ange: 0.50-125.00)

(suggested range: 2.0-30.0)

g/dL

· -	_
Case ID	p3



# FoodNet (3)



38A.	Lowest hematocrit	[hct]	%	(suggested range: 0.0-100.0)
39A.	Lowest platelet count	[plt]	K/n	nm³ (suggested range: 3.0-600.0)
40A.	Microangiopathic changes	[rcfrag]	<b>O</b> yes (1) <b>C</b>	ono (0) ounknown (9) onot tested (7)
Other	laboratory findings within 7 days I	pefore and 3 days after HI	US diagnosis:	
	41A. Blood (or heme) in urine	[burine]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9) O not tested (7)
	42A. Protein in urine [purine]		<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9) O not tested (7)
	43A. RBC in urine by microsco	py [rburine]	<b>O</b> yes (1) <b>O</b> no (0)	O unknown (9) O not tested (7)
be rev If a ca abstra be inc	riewed even if the case had alread se is captured through HDD and v acted information from active surve	dy been identified through was previously identified the cillance is current and conflance system. If a discreptified by public health (statchestician or service particities one-participating physician etive surveillance (3) ospital discharge data (4)	Active Surveillance in order through the network of practicular plete. In the event that additional is identified, the most of the or local health department ipating in the FoodNet HUS in or service (2)	active surveillance network (1)
	Date reported to public health or ic y hospital discharge data review [		_	_//
	Was hospital discharge data revieor this case (to verify or suppleme		0	yes (1) O no (0) O unknown (9)
47A. [	Date of HDD (hospital discharge d	ata) review [dhdd]	_	
	s this case epidemiologically linke or probable Shiga toxin-producing			yes (1) O no (0) O unknown (9)
49A. I	s this case outbreak related? [outl	break]	0	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? [reportingyear]	
56A. Complete? [a_case_report_form_complete]	O incomplete (0) O unverified (1) O complete (2)

Cl ase	n4

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



1B. Was stool collected? [stoolspec]

2B. Date stool specimen collected [dstoolspec]





### 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** 

3B. State Lab ID: [stoolslabsid]			
•	as they pertain to the stool specimen of	collected at each lab. You will be asked	d about other specimens in the other
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) [ctest]	O yes (1) O no (0) O unk (9) [stest]	O yes (1) O no (0) O unk (9) [ftest]
Was a Shiga tayin tast		L	N/A
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]	IN/A
Shiga toxin test result	O positive (1) O negative (2)	O positive (1) O negative (2)	O positive (1) O negative (2)
	[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 E. coli O157	O yes (1) O no (0) O unk (9)	<b>O</b> yes (1) <b>O</b> no (0) <b>O</b> 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 E.coli O157	<b>O</b> yes (1) <b>O</b> no (0) <b>O</b> unk (9)	O yes (1) O no (0) O unk (9)	N/A
performed or the isolate	[co157cult]	[so157cult]	
confirmed to be <i>E.coli</i> O157?			
Was E.coli O157 isolated?	<b>O</b> yes (1) <b>O</b> no (0) <b>O</b> unk (9)	<b>O</b> yes (1) <b>O</b> no (0) <b>O</b> unk (9)	<b>O</b> yes (1) <b>O</b> no (0) <b>O</b> 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]	

N/A

N/A

O H7 pos (1) O H7 neg (2)

O non-motile(3) Onot tested(4) [chant]

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

Was E.coli non-O157

isolated?

O Antigen

H Antigen

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

[snono157isol]

**O**O26(1) **O**O111(2)

**O**O103(3) **O** O121 (4) **O**O45(5)

O O145(6) Orough(-2) Ound (-3)
Onot found(-1)
[soant]

[shant]

[shantoth]

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

[fnono157isol]

[foant]

[foantoth]

[fhant]

[fhantoth]

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

	_
Case ID	p5
749E III	100

Last updated 7/06/2016

B

# FoodNet (3)

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	8B-1. O antigen gene identi 8B-2. H antigen gene identif	fied by WGS fied by WGS	[wgsoant] [wgshant]							
			CDC Serolog	y Tests						
	as patient serum or plasma been antibodies to O157 or other S				<b>O</b> yes (1	) <b>O</b> no (0) <b>O</b> unkr	nown ( <mark>9</mark> )			
	10B. Date serology specime	en collected?	ldseruml		/ /					
			<del></del>							
	·	11B. State laboratory ID for serum [serumslabsid]  12B. Was there more than one serology result for this case? [multiserol]  O yes (1) O no (0) O unknown (9)								
	13B. Questions	1	lutatatia-							
	LPS type	Titer IgG	Interpretation		Titer IgM	Interpretation				
	O 0157(1) O 0111(2)	_	Positive [igginterp1] (1)	Negative (2)	[igm1]	Positive [igminterp1] (1)	Negative (2)			
	[lpstype1]	[igg1]	[igginterp1] (1)	(2)	[igiii i]		(2)			
	[lsptype2]	[igg2]	[igginterp2] (1)	(2)	[igm2]	[igminterp2] (1)	(2)			
	[lpstype3]	[igg3]	[igginterp3] (1)	(2)	[igm3]	[igminterp3] (1)	( <mark>2</mark> )			
		other Path	ogens (co-infection	s) and Oth	er Specime	18				
•	4B. Questions	ocal PHL								
	/ere any other pathogens oye		s(1) Ono(0) O unk(9) [cothpath]	Oyes(1) Ono(0) O unk(9			Oyes(1) Ono(0) O unk(9  [fothpath]			
	Specimen source		ame stool used for STEC testing	Same	stool used for EC testing	Same stool use	Same stool used for STE0 testing			
	Test type				e(1) OCIDT(2)	Oculture(1)	Oculture(1) OCIDT(2) [fothpathttyp1]			
	Pathogen	[cpath] [spath]			[fpath]					
	Other Specimens (second specimen)									
١	Vas any other specimen collect	ed?		Oyes(1) Ono(0) O unk(9) [othspec]						
	Date other specimen collect	ion	/[dothspec]							
Specimen source			[specsrc]							
	Test type 1		Oculture	Oculture(1) Onon-culture (CIDT)(2) [othspecttyp1]						
Pathogen 1					[othspecpath1]					
Test type 2 Oculture(1) Onon-culture (CIDT)(2) [othspecttyp2] Pathogen 2 [othspecpath2]										
				osp_clinic]						
apply) (0,1) Other specimen state lab id [osslabsid]										
	Completed by (initials): [bby] Comments [commentsb]	Form B Co	mments, Compos	te Variable	s, and Statu	s				
	s there an STEC isolate? [stec	isolatel		1(Vo	s) 0 (No) blar	nk (incomplete)				
	-		shyporology!							
	Is there evidence of STEC by s			1(Yes), 0 (No), blank (incomplete)						
B. Is there any evidence of Shiga toxin? [anystx]					1(Yes), 0 (No), blank (incomplete)					
3. Complete? [b_microbiology_form_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]	C	• yes(1) • no(0) • unknown(9)								
2C. Date of first a	admission: [dadmis]										
3C. Date of last of	discharge: [ <mark>ddisch</mark> ]		//								
Complications											
Did any of the fol	lowing complications occur duri	ng this admission:									
4C. 6C. 8C. 10C. 12C.	Pneumonia [pne] Seizure [szr] Paralysis or hemiparesis [pa Blindness [bln] Other major neurologic sequelae [ner] if yes, Describe: [nerdesc]	O yes (1) O no (0) O yes (1) O no (0)	O unknown (9) O unknown (9) O unknown (9)		Date of or if yes	onset 5C. [dpne] 7C. [dszr] 9C. [dpar] 11C. [dbln] 13C. [dner]					
Were any of the	following procedures performed	during this admission:									
14C. 15C.	Peritoneal dialysis [pdial] Hemodialysis [hdial]				O unknown						
	Transfusion with:  16C. packed RBC or 17C. platelets [pltt] 18C. fresh frozen plate		<b>O</b> yes (1)	<b>O</b> no (0)	O unknown ( O unknown (	(9)					
19C. 20C.	Plasmapheresis [phres] Laparotomy or other abdomina (*other than if yes Describe: [surgdesc]	al surgery* [ <mark>surg</mark> ] insertion of dialysis cathete	<b>O</b> yes (1)		O unknown (						
		Discharge									
21C. Condition a	t discharge [conddc]	O dead (	1) Oalive	( <mark>0</mark> )							
<u>if dead</u>	22C. Date deceased	[ddead]	/	<i>J</i>							
<u>if alive</u>	23C. Requiring dialys	sis [reqdial]	<b>O</b> yes (1)	<b>O</b> no (0)	O unknown	(9)					
	24C. With neurologic	deficits [neurodef]	<b>O</b> yes (1)	<b>O</b> no (0)	O unknown	(9)					
	Form C Co	omments, Composite V	/ariables, and	Status							
25C. Completed	by (initials): [cby]										
26C. Comments	[commentsc]					_					
27C. Length of S	tay? (Days) [los]		Number in Da	ays							
28C. Complete?	[c_chart_review_form_comp	olete]	O incomplete	e ( <mark>0</mark> ) <b>O</b> un	verified (1)	complete (2)					