_			
Case	חו	r	١1
Casc	טו		,







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

1 1	Case ID [c	acoid]	YYYYYearXXFipscode001Record						
	State ID [s	=	1111 /// 001						
	_	-	(if applicable) [personid]						
	Site [site]	010011112	(ii applicable) [percenta]						
	Date enter	ed [dente	eri						
		ou [uo	1						
			Democ	graphic Information					
	Ins	tructions:	Complete the following demograph		oatient diagi	nosed with	HUS.		
6A. D	Date of Birt	h [<mark>dob</mark>]		/					
7A. S	State of Re	sidence [state]						
8A. C	County of re	esidence	[county]						
9A. Sex [sex] • Female (1)				O Female (1) O Male	e (2) O Un	known (9)			
10A. Ethnicity [ethnicity] 11A. Race [race]				O Hispanic (1) O N	O Hispanic (1) O Non-Hispanic (2) O Unknown (9)				
				O Black (1) O White	O Black (1) O White (2) O Asian (3)				
				O American Indian / A	Alaska Nativ	e (4)			
				O Pacific Islander / Na	ative Hawaii	an (<mark>5</mark>)			
				O Multi-Racial (6) O	Other (12)	O Unknow	vn (<mark>9</mark>)		
			Clim	rical Information					
	Instruc	tions: Co	mplete the following by interviewing	nical Information g the attending physician and/or rev	riewing patie	ent's medic	al record.		
12A.	Is the date	of HUS	diagnosis known? [dhusunk]		O yes(1)	O no(0)			
13A.	Date of HI	JS diagn	osis? [<mark>dhus</mark>]		/	_/			
14A.	Did the pa	tient hav	e diarrhea in the 3 weeks before HU	JS 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 a	t the time? [stoolblood]	O yes (1)	O no (0)	O unknown (9)		
17A.	Was di	arrhea tre	eated with antimicrobial medications	s? [abxdiar]	O yes (1)	O no (0)	O unknown (9)		
	if yes	18A.	Types of antimicrobials used to tr	eat diarrhea: (check all that apply)					
		(0,1)	☐ Ceftriaxone (Rocephin)[abxd☐ Ciprofloxin (Cipro) [abxd_cirp☐ Levofloxacin (Levaquin) [abxd☐ Metronidazole (Flagyl) [abxd☐ Piperacillin [abxd_piperacillin☐ Tazobactam [abxd_tazobactam]	_ceftriaxone] pofloxin] d_levofloxacin] _metronidazole] ı]	oprimo d				
			□ Vancomycin (Vancocin) [abx	d_vancomycin]	-				
			☐ Other (specify in comments) ☐ Unknown [abxd_unknown]	[abxd_other]		[abxdoth]		

Case ID	p2
Jase ID	DZ







^	li	n	ica	ш	In	f۸	rm	12	tin	n (~	ヘr	١ŧi	n	ued	ı
u	•		ıva		ш	ıv		ıa	uv		•	vi	ILI		ueu	

19A. D	oid the patarrhea or		with another person with weeks before HUS diagnosis	O yes (1) O no (0)	O unknown (9)
(A	NY antibi	otic) for any other	an antimicrobial medication reason than diarrhea during nosis? [abxnotdiar]	• yes (1) • no (0)	O unknown (9)
	<u>if yes</u>	21A. Reason tre	ated with antimicrobial [abxndreason]		
	22A.	Types of antimid	crobials used to treat conditions other than diar	rhea: (check all that apply)	
		☐ Ce☐ Cip☐ Le ☐ Me☐ Pip☐ Ta☐ Tri ☐ Va☐ Ott	ithromycin (Zithromax, Z-Pak) [abxnd_azithrom ftriaxone (Rocephin)[abxnd_ceftriaxone] profloxin (Cipro) [abxnd_cirpofloxin] vofloxacin (Levaquin) [abxnd_levofloxacin] tronidazole (Flagyl) [abxnd_metronidazole] peracillin [abxnd_piperacillin] zobactam [abxnd_tazobactam] methoprim Sulfamethoxazole (Bactrim, Septra) ncomycin (Vancocin) [abxnd_vancomycin] ner (specify in comments) [abxnd_other] known [abxnd_unknown]		[abxndoth]
Other	medical c	onditions present o	during 3 weeks before HUS diagnosis:		
	23A.	Other gastrointe	stinal illness [gastro]	O yes (1) O no (0)	O unknown (9)
	24A.	Urinary tract infe	ection [<mark>uti</mark>]	O yes (1) O no (0)	O unknown (9)
	25A.	Respiratory trac	t infection [rti]	O yes (1) O no (0)	O unknown (9)
	26A.	Other acute illne	ss[acute]	O yes (1) O no (0)	O unknown (9)
		<u>if yes</u> Descri	be [acutedesc]		
	27A.	Pregnancy [pre	gl	O yes (1) O no (0)	O unknown (9)
	28A.	Kidney disease	[kidn]	O yes (1) O no (0)	O unknown (9)
	29A.	Immune compro	mising condition or medication [immcomp]	O yes (1) O no (0)	O unknown (9)
	if yes	30A. M	alignancy [<mark>malig]</mark>	O yes (1) O no (0)	O unknown (9)
		31A. Tı	ransplanted organ or bone marrow [transpl]	O yes (1) O no (0)	O unknown (9)
		32A. H	IV infection [hiv]	O yes (1) O no (0)	O unknown (9)
		33A. St	eroid Use (parenteral or oral) [ster]	O yes (1) O no (0)	O unknown (9)
		Ot	her, describe [immother]	O yes (1) O no (0)	O unknown (9)
					[immotherdesc]
Insi	tructions:		tory values within 7 days before and 3 c t unites 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 ³ (suggested ra	ange: 0.50-125.00)
37A.	Lowest	t hemoglobin	[hab]	g/dL (suggested ra	ange: 2.0-30.0)

Case ID	ກາ
Jase ID	p3



FoodNet (3)



_aboratoi	v Values	Continued
-----------	----------	-----------

38A.	Lowest hematocrit	[hct]	% (suggested range: 0.0-100.0)
39A.	Lowest platelet count	[plt]	K/mm ³ (suggested range: 3.0-600.0)
40A.	Microangiopathic changes	[rcfrag]	O yes (1) O no (0) O unknown (9) O not tested (7)
Other la	aboratory findings within 7 days befo	re and 3 days after I	IUS diagnosis:
	41A. Blood (or heme) in urine [bur	ine]	O yes (1) O no (0) O unknown (9) O not tested (7)
	42A. Protein in urine [purine]		O yes (1) O no (0) O unknown (9) O not tested (7)
	43A. 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 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]

- 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? [reportingyear]	
56A. Complete? [a case report form complete]	O incomplete (0) O unverified (1) O complete (2)

CI ase	n4

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



1B. Was stool collected? [stoolspec]

2B. Date stool specimen collected [dstoolspec]

5B. Was immunomagnetic separation (IMS) used to

identify common STEC serogroups? [ims]

(check all that apply) (0,1)

6B. What serogroup(s) did the IMS procedure target?





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

BB. 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.	Clinical Lab	State or Local PHL	CDC Lab (Fodoral)
4B. Questions Was this specimen forwarded			CDC Lab (Federal) N/A
to the lab?	O yes (1) O no (0) O unk (9) [sspecsent]	O yes (1) O no (0) O unk (9) [fspecsent]	IN/A
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)
was testing performed at lab:	[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) [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	O stx1 (1) O stx2 (2) O stx1	O stx1 (1) O stx2 (2) O stx1
2ga 10/ 1, p 0	& 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)	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) [cidth7]	N/A	N/A
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	OO26(1) OO111(2)	[foant]
		OO103(3) O O121 (4) OO45(5) O O145(6) Orough(-2) Ound (-3)	[foantoth]
		Onot found(-1)	
		[soant]	
H Antigen	O H7 pos (1) O H7 neg (2)	[shant]	[fhant]
5	O non-motile(3) Onot	[shantoth]	[fhantoth]

tested(4)

O unknown (9)

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

□O157 [imssero_O157] □O26 [imssero_O26]

□O45 [imssero_O45] □O103 [imssero_O103]

□O111 [imssero O111] □O121 [imssero O121] □O145 [imssero O145]

Case ID	p5
749E III	Di

Last updated 7/06/2016



FoodNet (3)

5. V	Vas whole genome sequencing BB. Sequencing ID [wgsid] 8B-1. O antigen gene identi 8B-2. H antigen gene identi	ified by	wgs [wgsoant]	(at state of C	DC) [wgs]	O yes (1) O no) (<mark>U</mark>)			
				CDC Serolog	y Tests						
	las patient serum or plasma be or antibodies to O157 or other \$		[antio157] ected? [dserum]			O yes (1	O yes (1) O no (0) O unknown (9)				
	10B. Date serology specime	en colle				/					
	11B. State laboratory ID for	r serum									
	12B. Was there more than		-	<u>-</u>	multiseroll	O ves	(1) O no (0)	O un	 known (9)		
	13B. Questions			- The case of the	Trailloor or j		(1) 2 113 (3)	<u> </u>	(0)		
	13D. Questions			Interpretation	of IaG		Internret	Interpretation of IgM			
	LPS type	Titer	IgG	Positive	Negative	Titer IgM	Positive		Negative		
	O O157(1) O O111(2) [lpstype1]	[igg	g1]	[igginterp1] (1)	(<mark>2</mark>)	[igm1]	[igminterp1]	(1)	(2)		
	[Isptype2]	[igg	g2]	[igginterp2] (1)	(<mark>2</mark>)	[igm2]	[igminterp2]	(1)	(2)		
	[lpstype3]	[igg	g3]	[igginterp3] (1)	(<mark>2</mark>)	[igm3]	[igminterp3]	(1)	(2)		
		Other F	Patho	gens (co-infectior	s) and Oth	er Specimer	ns				
•	14B. Questions			al Lab		State or Local PHL		CDC Lab (federal)			
	Were any other pathogens identified? Specimen source Test type		Oyes(1) Ono(0) O unk(9) [cothpath] Same stool used for STEC testing			Oyes(1) Ono(0) O unk(9) [sothpath] Same stool used for STEC testing		Oyes(1) Ono(0) O unk(9) [fothpath] Same stool used for STEC testing			
					Same						
			Oct	ulture(1) OCIDT(2) [cothpathttyp]		Oculture(1) OCIDT(2) [sothpathttyp]		Oculture(1) OCIDT(2) [fothpathttyp1]			
	Pathogen			[cpath] [spath]							
_	Man any other managines as called	Other Specimens (second specimen)									
Was any other specimen collected?					Oyes(1) Ono(0) O unk(9) [othspec]						
	Date other specimen collect	tion		/[dothspec]							
Specimen source Test type 1			[specsrc] Oculture(1) Onon-culture (CIDT)(2) [othspecttyp1]								
	Pathogen 1			[othspecpath1]							
						Onon-culture (CIDT)(2) [othspecttyp2]					
	Pathogen 2					[othspecpath2]					
	Where positive? (check all that apply) (0,1)					☐ State or local [osp_phl] ☐ CDC [osp_cdc]					
	Other specimen state lab id				[c	osslabsid]					
B	Completed by (initials): [bby]	Form I	B Con	nments, Composi	te Variable	s, and Statu	s				
	Comments [commentsb]										
	Is there an STEC isolate? [stec	cisolatel			1(Ye	s), 0 (No), blar	nk (incomplete)				
8B. Is there evidence of STEC by serology [s				yserologyl	1(Yes), 0 (No), blank (incomplete)						
	Is there any evidence of Shiga						nk (incomplete)				
	Complete? Ih microhiology fo			_	-	complete (0)		_			





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							
						• yes(1) • no(0) • unknown(9)				
2C. Date of first admission: [dadmis]3C. Date of last discharge: [ddisch]				_	/					
				_	//					
		C	Complication	าร						
Did any of the fol	lowing complications occu	r during this admi:	ssion:							
4C. 6C. 8C. 10C. 12C.	Pneumonia [pne] Seizure [szr] Paralysis or hemiparesis Blindness [bln] Other major neurologic sequelae [ner] if yes, Describe: [nerdes	O yes O yes O yes O yes O yes O yes	(1) O no (0) (1) O no (0) (1) O no (0) (1) O no (0)	O unknown (9)		Date of if yes If yes If yes if yes if yes if yes	onset 5C. [dpne] 7C. [dszr] 9C. [dpar] 11C. [dbln] 13C. [dner]			
Were any of the	following procedures perfo	-	admission:							
14C. 15C.	Peritoneal dialysis [pdia Hemodialysis [hdial]	IJ				O unknown O unknown				
	17C. platelets [BC or whole blood oltt] n plasma [ffpl]	[prbc]	O yes (1)	O no (0)	O unknown O unknown O unknown	(9)			
19C. 20C.	Plasmapheresis [phres] Laparotomy or other abd	ominal surgery* than insertion of o		O yes (1)		O unknown O unknown				
			Discharge							
21C. Condition a	t discharge [conddc]			O dead (1) Oalive	(<mark>0</mark>)				
<u>if dead</u>	22C. Date dece	eased [ddead]		/						
<u>if alive</u>	23C. Requiring	dialysis [reqdial]		O yes (1)	O no (0)	O unknown	(9)			
	24C. With neur	ologic deficits [ne	eurodef]	O yes (1)	O no (0)	O unknown	(<mark>9</mark>)			
	Form	C Comments, (Composite '	Variables, and	Status					
25C. Completed	by (initials): [cby]									
26C. Comments	[commentsc]									
27C. Length of S	tay? (Days) [<mark>los</mark>]			Number in D	ays					
28C. Complete?	[c_chart_review_form_	complete]		O incomplete	e (<mark>0</mark>) O ur	nverified (1)	O complete (2)			