

## Invasive Cronobacter Infection in Infants Case Report Form NOTE: Enter all dates as MM/DD/YYYYY

ADMINISTRATIVE								
Case state ID: NNDSS ID:								
Reporting state	:	PulseNet ID:						
		I with an outbreak?	Was the patient's parent or guardian interviewed?					
O Yes O	No	O Unknown	O Yes O No O Unknown					
			ILLNESS HISTORY					
Date of onset o	f illness (/	MM/DD/YYYY):/_	Age at onset of illness (If <60 days, please describe age in number of days):	O Days O Months				
Sex:	Ethnici	ty: F	ace (select all that apply):					
O Male		Jaimo or Latino	☐ White ☐ American Indian or Alaskan Native					
O Female		Thoparno of Latino	☐ Black or African American ☐ Middle Eastern or North African					
O Other	O Unk	u iowii	☐ Asian ☐ Other Race, specify:					
O Unknown			☐ Native Hawaiian or ☐ Unknown Other Pacific Islander					
State of Reside	nce:	·	State where illness occurred:					
Was the patient	hospitali	zed at the time of illnes	s onset? Was the patient hospitalized as a result of this infection	on?				
	No	O Unknown	O Yes O No O Unknown					
Type of hospita				1				
O Hospital inte	ensive car							
ONICO			al care nursery O Unknown Discharge date:/	_/				
Clinical syndror	ne (select	all that apply):	-					
☐ Sepsis (bact	teremia)	☐ Necrotizing Enteroc	olitis (NEC)   Urinary tract infection   Other (specify):					
☐ Meningitis		☐ Skin or soft tissue ir	fection Diarrhea Unknown					
Complications			Death:	1				
☐ Seizures		Ventricular shunt	O Yes, (MM/DD/YYYY):/	_/				
☐ Brain absce☐ Brain infarct		Unknown	O No					
☐ Hydrocepha								
			MEDICAL HISTORY					
Birth history:		Was the infant a:						
O Cesarean de	elivery	O Singleton	Gestational age (weeks) at birth: Birth weight:	arame				
O Vaginal deliv	ery	O Multiple	destational age (weeks) at birtii birtii weight	grams				
O Unknown		O Unknown						
Did mother receive antibiotics during labor or delivery?								
O Yes (reason: O No	O Yes (reason:							
O No O Unknown								
Previous diagnoses or treatments (select all that apply):								
□ None □ Non-GI surgery (specify:)								
<ul> <li>☐ Mechanical ventilation</li> <li>☐ Other:</li> <li>☐ Immunocompromising condition (e.g. Primary immunodeficiency)</li> <li>☐ Unknown</li> </ul>								
☐ Gastrointestinal (GI) surgery								
Did the patient receive any medications by mouth or feeding tube in the 10 days prior to illness onset?								
O Yes O No O Unknown  If yes, please list oral medications given:								
		treated with steroids?	Did the infant receive gastric acid suppressing medications in the 10 or prior to illness onset?	ays				
l O res	) No	O Unknown	O Yes O No O Unknown					
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		FEEDING HISTORY					
How was the infant fed 10 days prior to illne (Select all that apply)  ☐ Bottle ☐ Feeding Tube ☐ Breast ☐ Unknown	If infant was fed via feeding tube, specify O Nasogastric (NG) or Orogastric (OG) tu O Gastrostomy tube (G-tube) O Jejunostomy tube (J-tube)			e <b>type:</b> O Other O Unknown			
In the 10 days before illness began was the infant ever fed breast milk? O Yes O No							
If yes, what source(s) of breast milk? ☐ Mother's milk ☐ Donor milk ☐ Informally shared breast milk							
Was the infant exclusively breast fed?				O Yes	O No	O Unknown	
Was expressed breast milk consumed (i.	e., pumped a	nd fed through bottle or	tube)?	O Yes	O No	O Unknown	
If yes, was pumped milk from multiple pumping sessions ever combined and then stored for later use?							
Was powdered infant formula or powdered lillness began, including in the preparation of			s before	O Yes	O No	O Unknown	
Did the infant consume liquid formula in the	10 days before	ore illness began?		O Yes	O No	O Unknown	
Did the infant consume any solid foods, incl	uding cereal,	in the 10 days before illr	ness began?	O Yes	O No	O Unknown	
If yes, specify types of solid food:	Infant cereal	☐ Purees ☐ Solid	table food	☐ Unkn	own		
If infant cereal was consumed, type of liquid used for preparing infant cereal (select all that apply)  ☐ Ready-to-feed Liquid formula ☐ Powdered formula (mixed with water) ☐ Water ☐ Unknown							
Was water used to prepare infant formula?		, , , , , , , , , , , , , , , , , , ,		O Yes	O No	O Unknown	
Type of water used for preparing infant formula (select all that apply)  Public water system (e.g. tap water from a municipal system)  Individual water system (e.g. private well, cistern)  Nursery water (specify brand and lot number):  Commercially bottled or distilled water (specify brand and lot number):  Other (specify):  Unknown							
Was the water boiled and cooled before adding to formula? O Yes O No						O Unknown	
How were formula and water mixed? (select all that apply)  ☐ Shaken or swirled in bottle ☐ Prepared in a formula-preparation machine ☐ Stirred with a utensil ☐ Other (specify): ☐ Mixed in a blender ☐ Unknown							
Was anything ever added to breast milk or formula (besides water) during the 10 days O Yes O No O Unknow before illness?							
If yes, please select all that apply:  ☐ Powdered fortifier (e.g., powdered formula or fortifier to boost nutrition) ☐ Liquid fortifier ☐ Vitamins or iron ☐ Unknown							
Please provide infant formula preparation details (regardless of type)							
What frequency was formula prepared?  O Bottle/individual feed O Batch O Unknown  Where was prepared formula stored? (select all that apply) □ Refrigerator □ Outside of refrigerator/cooler □ Unknown							
Maximum storage time of prepared, refrigerated formulaMaximum storage time of prepared, room temperature formulaWhat temperature was formula at time of feeding?O 0-24 hoursO >48 hoursO 0-2 hoursO >6 hoursO WarmedO ColdO 24-48 hoursO UnknownO 2-6 hoursO UnknownO Room temperatureO Unknown							
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Was prepared feed ever left in a crib with infant overnight?  O Yes  O No  O Unknown				Was a partially consumed bottle that was at room temperature for more than 2 hours ever saved and given to the infant later?  O Yes  O No  O Unknown					
Was the lid of the formula container ever placed on the counter, in the sink, or on another surface?  O Yes  O No  O Unknown				Was the formula scoop ever placed on the counter, in the sink, or on another surface?  O Yes  O No  O Unknown					
						O OTIMITO	, , , , , , , , , , , , , , , , , , ,		
Please provide equipment cleaning									
Were bottles, nipples, and rings always	completely dis	ssembl	led befor	e cleaning?			ottles cleaned after each use?		
O Yes O Unknown O No O Not Applicable						O Yes O No	O Unknown O Not Applicable		
How were bottles cleaned? (select all that apply)  □ Diswasher □ With disposable wipes □ Other □ Unknown							known		
☐ Hand washed in sink ☐ Rinse	d with only wat	ter		☐ Not Applica	ıble				
Were bottles scrubbed using: (select ☐ Fingers/hands ☐ Bottle brush ☐ Designated cloth or sponge for in ☐ Cloth or sponge used for cleaning ☐ Bottles not scrubbed ☐ Unknown	fant feeding	cle C	Vas soap used when leaning bottles?  O Always O Sometimes O Never O Unknown			How were bottle parts dried? (select all that apply)  ☐ Dried with dish towel ☐ Dried with paper towel ☐ Air dried ☐ Other (specify): ☐ Unknown			
Were bottles, nipples, and/or rings sani	tized? O Yes O No			Unknown Not Applicable					
O Daily O Weekly Used dis			arts sanitized? (select all that apply)  hwasher's hot water and drying cycles  am or microwave bottle sterilizer  ottle parts  Used bleach or other chemical disinfection method Unknown						
Please provide breast pump equip	ment cleanin	g deta	ails						
What type of pump was used (select all	that apply)?						oranes, and connector tubing		
☐ Manual pump		☐ Unknown			always completely disassembled before cleaning?  O Yes				
☐ Electric pump used by one person☐ Electric pump shared by multiple use	☐ Not A	pplicat	able O No						
Liectric pump shared by multiple use	13		O Unknown						
Was the pump kit, not including tubing,	cleaned after	each u	use? O Yes O No O Unknown						
If no, how many times was it	Was kit rins	ed bet	ween use	een uses?		was unwa	shed kit stored between uses?		
used before being cleaned?	O Yes					O Fridge			
	O No O Unknowi	n				Room temperature Unknown			
How were pump and parts cleaned?				☐ With disposable wipes					
(select all that apply)									
(select all that apply)  ☐ Fingers/hands ☐ Bottle brush ☐ Designated cloth or sponge for infant feeding			s soap always used en washing pump kit   parts? Yes No Unknown		How were pump parts dried? (select all that apply)  ☐ Dried with dish towel ☐ Dried with paper towel ☐ Air dried ☐ Other (specify): ☐ Unknown				
Was pump kit ever sanitized? O Yes			No O Unknow						
If yes, how often were they sanitized?				vere parts sar		-			
O Daily			1 ' ' ' '				☐ Boiled pump parts ☐ Used bleach or other chemical		
O Weekly O Other (specify):			☐ Used steam or microwave						
O Unknown				bottle sterilizer					

Was clean pump kit ever reassembled while st	ill damp?	O Yes	O No	O Unknown				
Please provide environmental details								
Please provide infant formula product details  Complete product name (including brand, type, and variety):								
Product manufacturer: O Abbott Nutrition O Mead Johnson Nutrition/Reckitt Benckiser	O Nestl O Perriç	e USA go Company		O Other, specify: O Unknown				
Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Othe	r, specify:			) lbs ) oz ) fl. oz	OR	O grams O ml	
Lot number(s), if known:  Dates consumed:// to	Use by Da	ate:	_/	_/				
Complete product name (including brand, type, and variety):								
Product manufacturer: O Abbott Nutrition O Mead Johnson Nutrition/Reckitt Benckiser	O Nestl O Perriç	e USA go Company	O Other O Unkn	r, specify: own				
Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Othe	r, specify:		0	) lbs ) oz ) fl. oz	OR	O grams O ml	
Lot number(s), if known:  Dates consumed:// to	, ,		☐ Unknov	Use by Da	ate:	_/	_/	
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Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Othe	r, specify:		c	O lbs O oz O fl. oz	OR	O grams O ml	
Lot number(s), if known: Use by Date:/							_/	
Dates consumed: / / to			☐ Unknov	n dates consumed				

## Specimen Collection

Lab ID:	Specimen Sourc O Blood O Cerebrospina O Stool O Urine	leal swab I swab inical source (specify):						
Collection Date:	Results: O Positive O Negative O Unknown	Test Type: O Culture O PCR O Another Method	Was antibiotic testing completed? O Yes O No O Unknown					
If yes, antibiotics with inte	ermediate resistanc	e:						
If yes, antibiotics with con	If yes, antibiotics with complete resistance:							
Lab ID:	Specimen Source: O Blood O Pharyngeal swab O Cerebrospinal fluid (CSF) O Tracheal swab O Stool O Other clinical source (specify): O Urine							
Collection Date:	Results: O Positive O Negative O Unknown	Test Type: O Culture O PCR O Another Method  Was antibiotic testing completed? O Yes O No O Unknown						
If yes, antibiotics with intermediate resistance:								
If yes, antibiotics with complete resistance:								
Lab ID:	Specimen Source: O Blood O Pharyngeal swab O Cerebrospinal fluid (CSF) O Tracheal swab O Stool O Other clinical source (specify): O Urine							
Collection Date:/	Results: O Positive O Negative O Unknown	Test Type: O Culture O PCR O Another Method	Was antibiotic testing completed? O Yes O No O Unknown					
If yes, antibiotics with intermediate resistance:								
If yes, antibiotics with complete resistance:								