

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 I			D: Date form completed:/					
Was the case associated 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 of illness (MM/DD/YYYY):				Days Months				
Sex: O Male O Female O Other O Unknown		panic or Latino Hispanic or Latino	Race (select all that apply): ☐ White ☐ Black or African American ☐ Asian ☐ Native Hawaiian or Other Pacific Islander ☐ American Indian or Alaskan Native ☐ Middle Eastern or North African ☐ Other Race, specify: ☐ Unknown					
State of Reside	nce:		State where illness occurred:					
	hospitali No	zed at the time of illn O Unknown	ess onset? Was the patient hospitalized as a result of this infection O Yes O No O Unknown					
O NICU O Spe			select one): O Regular ward Admission date:/ ecial care nursery O Unknown wborn nursery Discharge date:/					
Clinical syndrome (select all that apply): Sepsis (bacteremia) Necrotizing Enterocolitis (NEC) Urinary tract infection Other (specify): Meningitis Skin or soft tissue infection Diarrhea								
Complications (select all that apply): ☐ Seizures ☐ Ventricular shunt ☐ Brain abscess ☐ Other (specify): ☐ Brain infarct ☐ Unknown ☐ Hydrocephalus			Death: O Yes, (MM/DD/YYYY):/	<u>/</u>				
			MEDICAL HISTORY					
Birth history: O Cesarean delivery O Vaginal delivery O Unknown Was the infant a: O Singleton O Multiple O Unknown			Gestational age (weeks) at birth: Birth weight:gr	ams				
Did mother receive antibiotics during labor or delivery? O Yes (reason:								
Previous diagnoses or treatments (select all that apply): ☐ None ☐ Non-GI surgery (specify:) ☐ Mechanical ventilation ☐ Immunocompromising condition (e.g. Primary immunodeficiency) ☐ 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:								
	ver been No	treated with steroids O Unknown	? Did the infant receive gastric acid suppressing medications in the 10 da prior to illness onset? O Yes O No O Unknown	ys				

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		FEEDING HISTORY					
How was the infant fed 10 days prior to illnes (Select all that apply) ☐ Bottle ☐ Feeding Tube ☐ Breast ☐ Unknown	ottle			-	e type: 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 and fed through bottle or tube)? O Yes O No							
If yes, was pumped milk from multiple pumping sessions ever combined O Yes O No and then stored for later use?							
Was powdered infant formula or powdered be illness began, including in the preparation of			ys before	O Yes	O No	O Unknown	
Did the infant consume liquid formula in the	10 days befo	ore illness began?		O Yes	O No	O Unknown	
Did the infant consume any solid foods, inclu	uding cereal,	in the 10 days before ill	ness began?	O Yes	O No	O Unknown	
If yes, specify types of solid food:	nfant cereal	☐ Purees ☐ Solid	d 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 Stirred with a utensil 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 Unknown 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	O Bottle/individual feed ☐ Refrigerator ☐ Outside of refrigerator/cooler ☐ Cooler with ice or ice packs ☐ Unknown						
Maximum storage time of prepared, refrigerated formulaMaximum storage time of prepared, room temperature formulaWhat temperature was formula at tir 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							

Was prepared feed ever left in a crib wit O Yes O No O Unknown	for n	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 counter, in the sink, or on another surfar O Yes O No O Unknown	or or	Was the formula scoop ever placed on the counter, in the sink, or on another surface? O Yes O No O Unknown					
Please provide equipment cleaning	g details						
Were bottles, nipples, and rings always O Yes O Unknown O No O Not Applicable	embled befor	O Yes O Unknown			ottles cleaned after each use? O Unknown O Not Applicable		
How were bottles cleaned? (select all that apply) ☐ Diswasher ☐ With disposable wipes ☐ Other ☐ Unknown ☐ Hand washed in sink ☐ Rinsed with only water ☐ Not Applicable						known	
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	Was soap used when cleaning 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		O Unknown O Not Applicable					
If yes, how often were they sanitized O Daily O Weekly O Other (specify):	dishwasher's d drying cycl	parts sanitized? (select all that apply) shwasher's hot water and drying cycles eam or microwave bottle sterilizer bottle parts Used bleach or other chemical disinfection method Unknown					
Please provide breast pump equip	ment cleaning	details					
What type of pump was used (select all ☐ Manual pump ☐ Electric pump used by one person ☐ Electric pump shared by multiple use	n Ilicable	Were flanges, valves, membranes, and connector tubing always completely disassembled before cleaning? O Yes O No O Unknown					
Was the pump kit, not including tubing,	ch use?	O Yes	10	No (O Unknown		
If no, how many times was it used before being cleaned? Was kit rinsed betwood O Yes O No O Unknown			Where was unwashed kit stored between O Fridge O Room temperature O Unknown				
How were pump and parts cleaned? ☐ Dishwasher (select all that apply) ☐ Sink			disposable wip own	es			
(select all that apply) ☐ Fingers/hands ☐ Bottle brush ☐ Designated cloth or sponge for infant feeding			as soap always used nen washing pump kit d 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 No	O Unknown	•				
If yes, how often were they sanitized? O Daily O Weekly O Other (specify): O Unknown			How were parts sanitized? (select all that apply) ☐ Used dishwasher's hot water and heated drying cycles ☐ Used bleach or other chemical disinfection method bottle sterilizer ☐ Unknown				

Was clean pump kit ever reassembled while still 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 Nestle USA O Perrigo Company	O Other, specify: O Unknown						
Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Other, specify:		Size of container: O lbs O oz O fl. oz	OR	O grams O ml			
Lot number(s), if known:		☐ Unknov	Use by Date:	/	_/			
Complete product name (including brand, type, and variety):								
Product manufacturer: O Abbott Nutrition O Mead Johnson Nutrition/Reckitt Benckiser	O Nestle USA O Other, O Perrigo Company O Unkno		r, specify:					
Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Other, specify:		Size of container: O lbs O oz O fl. oz	OR	O grams O ml			
Lot number(s), if known: Dates consumed:// to	_//	Use by Date: ☐ Unknown dates consumed			_/			
Complete product name (including brand, type, and variety):								
Product manufacturer: O Abbott Nutrition O Mead Johnson Nutrition/Reckitt Benckiser	O Nestle USA O Otho O Perrigo Company O Unk		r, specify: nown					
Type of product: O Powder O Ready-to-feed O Liquid concentrate O Liquid fortifier	O Other, specify:		Size of container: O lbs O oz O fl. oz	OR	O grams O ml			
Lot number(s), if known:	1 1		Use by Date:		_/			
Dates consumed:/ to	//	□ Unknov	vn dates consumed					

Specimen Collection

Lab ID:	O Cerebrospinal fluid (CSF)		O Pharyngeal swab O Tracheal swab O Other clinical 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 intermediate resistance:								
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							
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