

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							
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		O Singleton O Multiple	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 illne (Select all that apply) ☐ Bottle ☐ Feeding Tube ☐ Breast ☐ Unknown	O Nasogastric (NG) o O Gastrostomy tube (was fed via feeding tube, specify tube ogastric (NG) or Orogastric (OG) tube crostomy tube (G-tube) nostomy tube (J-tube)					
In the 10 days before illness began was the	O No	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 breast milk fortifier used in the 10 days before illness began, including in the preparation of infant cereal?							
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, 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	Was the water boiled and cooled before adding to formula? O Yes O No						
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 Unknown before illness?							
If yes, please select all that apply: ☐ Powdered fortifier (e.g., powdered formula or fortifier to boost nutrition) ☐ Infant cereal ☐ Other (specify): ☐ 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 of feeding?O 0-24 hoursO >48 hoursO 0-2 hoursO >6 hoursO WarmedO 24-48 hoursO UnknownO 2-6 hoursO Room temperature			O Cold				
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Was prepared feed ever left in a crib wit O Yes O No O Unknown	th infant overnigh	for	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 surface.		Was the formula scoop ever placed on the counter, in the sink, or on another surface?					
O Yes O No O Unknown		0,	Yes O N	lo	O Unkno	own	
Please provide equipment cleaning	g details						
Were bottles, nipples, and rings always O Yes O Unknown O No O Not Applicable	embled befo	O Yes O Unknown					
How were bottles cleaned? (select all that apply) □ Diswasher □ With disposable wipes □ Hand washed in sink □ Rinsed with only water □ Not Applicable □ Unknown							
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	cleaning to Always O Someto O Never	Cleaning bottles? ☐ Dried with dis O Always ☐ Dried with pa O Sometimes ☐ Air dried			paper towel	
Were bottles, nipples, and/or rings sanitized? O Yes O Unknown O No Applicable							
If yes, how often were they sanitized O Daily O Weekly O Other (specify):	☐ Used heate☐ Used :	dishwasher's hot water and drying cycles steam or microwave bottle sterilizer Used bleach or other chemical disinfection method Unknown					
Please provide breast pump equipment cleaning details							
What type of pump was used (select all ☐ Manual pump ☐ Electric pump used by one person ☐ Electric pump shared by multiple use	☐ Unknow ☐ Not App	always completely disassembled before cleaning?					
Was the pump kit, not including tubing,	cleaned after ea	ıch use?	O Yes	10	No (O Unknown	
If no, how many times was it used before being cleaned? Was kit rinsed be O Yes O No O Unknown			O Frid O Roc			ere was unwashed kit stored between uses? Fridge Room temperature Unknown	
How were pump and parts cleaned? (select all that apply)		☐ With disposable wipes ☐ Unknown					
Were pump and parts scrubbed usin (select all that apply) ☐ Fingers/hands ☐ Bottle brush ☐ Designated cloth or sponge for in ☐ Cloth or sponge used for cleaning ☐ Pump parts not scrubbed		res No		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	□ U ar □ U	How were parts sanitized? (select all that apply) ☐ Used dishwasher's hot water and heated drying cycles ☐ Used steam or microwave 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, spe O Perrigo Company O Unknown		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 Othe 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 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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If yes, antibiotics with intermediate resistance:							
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