



## **National Outbreak Reporting System**



## **Waterborne Disease Transmission**

This form is used to report waterborne disease outbreak investigations. This form has 6 parts, indicated by tabs at the top of each page. Part 1 asks for the minimum or basic information about the outbreak investigation. Part 2 asks for epidemiological data and clinical specimen test results. Parts 3, 4, 5 and 6 collect information about types of water exposure (treated recreational water, untreated recreational water, untreated recreational water, and water not intended for drinking/unknown intent). Only 1 of these 4 water exposure parts should be completed for an outbreak investigation report.

CDC USE ONLY

CDC Report ID	State Report ID

						3 No. 0920-0004
General Section						
Primary Mode of Transmission (check one)						
□ Food (Complete CDC 52.13)		□ Person-to-perso	n (Complete CD	C 52.13)		
☐ Water (Complete tabs for General, Water-General and of water exposure)	l type	☐ Environmental c (Complete CDC 52.		other than f	ood/water	
□ Animal contact (Complete CDC 52.13)		□ Indeterminate/O	,	ດ (Complete C	DC 52.13)	
Investigation Methods (check all that apply)						
□ Interviews only of ill persons □ Case-control study □ Cohort study □ Food preparation review □ Water system assessment: Drinking water □ Water system assessment: Nonpotable water Comments	er	☐ Treated or untread or untread or untread or untread or investigation at the contract or investigation or investigation at the contract or investigation or investigation at the contract of investigation or investigation at the contract or investigation at t	factory/productoriginal source bottled water	ction/treatme e (e.g., farm traceback	ent plant	
Dates (mm/dd/yyyy)						
Date first case became ill (required)			Date last c	ase became	ill/	/
				t exposure_	//	
Date of report to CDC (other than this form)/_	/					
Date of notification to State/Territory or Local/Tribal	Health Aut	horities//				
Geographic Location						
Reporting state:  □Exposure occurred in multiple states □Exposure occurred in a single state but cases Other states:  Reporting county:		multiple states				
□Exposure occurred in multiple counties in repo □Exposure occurred in a single county but case Other counties:	rting state		ting state			
City/Town/Place of exposure:						
Do not include proprie	tary or priv	ate facility names				
Primary Cases						
Number of Primary Cases			Sex (estimated	d percent of	the primary cas	es)
# Lab-confirmed cases		(A)	Male			%
# Probable cases		(B)				
# Estimated total primary ill (if greater than sum A+B)			Female			%
	# Cases	Total # of cases for whom info is available	Approximate p	ercent of prim	ary cases in eacl	h age group
# Died			<1 year	%	20–49 years	%
# Hospitalized			1-4 years	%	50-74 years	%
# Visited Emergency Room			5-9 years	%	≥ 75 years	%
# Visited health care provider (excluding ER visits)			10-19 years	%	Unknown	%
C 52.12 Rev. 03 2008	•	National Outbreak Reporting System				CS115923

Incubation Period, Duration	on of Illness, Signs	or Symptoms fo	or Primary C	ases only			
Incubation Period (circle ap			_	_	ng recovered cases-	-circle ap	propriate units)
Shortest		Min, Hours, Days	Shortest	•			in, Hours, Days
Median		Min, Hours, Days	Median				in, Hours, Days
Longest		Min, Hours, Days	Longest			М	in, Hours, Days
Total # of cases for whom info i	s available		Total # of cas	ses for whom info	is available		
☐ Unknown incubation period			□ Unknown c	duration of illnes	3		
Signs or Symptoms (*refer	to terms from appendix						
Feature		# Cases with sign	s or symptoms	Tot	al # cases for whom	info avail	lable
Vomiting							
Diarrhea							
Bloody stools Fever							
Abdominal cramps HUS							
Asymptomatic							
*							
*							
*							
Secondary Cases							
Mode of Secondary Transmission	(check one)		Number of Se	econdary Cases			
	(oneon one)				74.00000		(4)
☐ Food ☐ Water			# Lab-confirmed secondary cases				(A)
☐ Animal contact		# Probable secondary cases				(B)	
<ul><li>☐ Person-to-person</li><li>☐ Environmental contamination</li></ul>	on other than food/wate	r	Total # of s	econdary cases	(if greater than sur	n A+B)	
☐ Indeterminate/Other/Unkno			Total # of c	ases (Primary +	Secondary)		
Environmental Health Spe	ecialists Network (if	applicable)					
EHS-Net Evaluation ID: 1.) _		2.)		3	.)		
Traceback (for food and bottle		•			7		
☐ Please check if traceback of		water)					
Source name	Source type	Location	n of source	Comments			
(If publicly available)	(e.g. poultry farm, tomato	State	Country	_			
	processing plant, bottled water factory)						
	mater ractory,						
Recall							
☐ Please check if any food or	bottled water product w	as recalled					
Type of item recalled:							
Comments:							
Reporting Agency							
Agency name:			E-mail:				
Contact name:		Contact title	e:				
Phone no.:							
	ortant aspects of the outborn, immunocompromised		ove. Please indi	cate if any advers	e outcomes occurred	l in specia	al populations
		,					

	Water-General Value of the Control o										
Waterborne Disease and Outbreaks - General											
Type of Water Exposure (	check ONE	box)									
□ Water intended for recreation purposes – treated venue (e.g., pool, spa/whirlpool/hotub, spray pad)		untreated ve	purposes – enue (e.g., ake, hot spri			Water intend (includes wa bathing/sho	ater used		drinking of intent (e.	intended for or water of unknown g., cooling/industrial, nal, decorative/	
Geographic Location					Sy	mptoms			Route of	Entry	
Percent of primary cases liv	ing in repo	rting state :		%		r each cate rsons with:		licate # of			
Associated Events					Gas	strointestina	l sympto	ms/	_		
\A/			- 41 0		con	nditions			☐ Ingestion	on	
Was exposure associated wi □ Yes □ No	tn a specir □ Unkno	ŭ	atnering?			spiratory syr nditions	mptoms/		_ ☐ Contac	t	
If <b>Yes</b> , what type of event or	gathering	was involved	!?		Ski	n symptoms	conditio/	ns	_ ☐ Inhalati	ion	
					Ear	symptoms/	condition	ns	_ □ Other, s	specify:	
					Eye	e symptoms/	condition/	ns	-		
If outbreak occurred during a	a defined e	vent, dates o	of event:		Neurologic symptoms/				☐ Unknown		
canaraan caan aa		,			Wound infections ———				_		
Start date:///	End				Other, specify (e.g.,						
(mm/dd/yyyy)		(m	m/dd/yyyy)		hepatitis A, leptospirosis):						
Epidemiologic Data								_			
Estimated total number of	-		•								
2. Were data collected from If <b>No</b> or <b>Unknown</b> , we				⟨? □ \	Yes (s	specify in ta	ble belov	v) □ N	lo	□ Unknown	
shared by persons			non source		Yes				lo	□ Unknown	
Exposure (Vehicle/Setting)	Total #	# III	Total # Not	# III No	t	Attack	Odds	Relative	p-Value	95% Confidence	
(e.g., pool—waterpark; hot spring; well water)	Exposed (A)	Exposed (B)	Exposed	Expose	d	Rate (%) (B/A)	Ratio	Risk	(provide exact value, if known)	Interval	
Attack rate for residents of	reporting	state:	%		Attac	k rate for n	on-resid	lents of rep	orting state: _	%	
Clinical Specimens - Lab	oratory F	Results (ref	er to the labo	oratory f	findin	gs from the	outbreak	investigation	)		
Were clinical diagnostic sp	ecimens ta	aken from pe	ersons? □Y	′es □	No (g	go to next ta	ab) □U	nknown <i>(go</i>	to next tab)		
If <b>Yes</b> , from how many persons were specimens taken?											

Water-General Control of the Control									
Specimen Type*			Specimen Subtype**		Tested for	§ (list all that apply)			
* Specimen Type: 1- Autopsy Specimen (specify subtype), 2-Biopsy (specify), 3-Blood, 4-Bronchial Alveolar Lavage (BAL), 5-Cerebrospinal Fluid (CSF), 6-Conjunctiva/Eye Swab, 7-Ear Swab, 8-Endotracheal Aspirate, 9-Saliva, 10-Serum, 11-Skin Swab, 12-Sputum, 13-Stool, 14-Urine, 15-Vomitus, 16-Wound Swab, 17-Unknown									
			Kidney, 7-Liver, 8-Lung, 9-Nails, 10-			Jnknown			
		, 3-Fungi, 4-Parasites, 5-\							
			for a specific pathogen /pe,Total # of People Tes				n/agent and fill		
Clinical Specimen Row Number	Genus/ Chemic	al/ Toxin	Species	Serotype/ Serog	roup/ Serovar	Genotype/ Subtype			
1									
2									
3									
4									
5									
Clinical Specimen Row Number	Confirmed as Etiology ?	Concentration (number)	Unit (e.g., oocysts, CFU)	Specimen Type	*	Specimen Subtype *	*		
1	□ yes								
2	□ yes								
3	□ yes								
4	□ yes								
5	□ yes								
Clinical Specimen Row Number	Test Type §					Total # People Tested	Total # People Positive		
1									
2									
3									
4									
5									
			pecify), 3-Blood, 4-Bronchial Alveol , 13-Stool, 14-Urine, 15-Vomitus, 16			F), 6-Conjunctiva/Eye Swab,	.7-Ear Swab,		
			Kidney, 7-Liver, 8-Lung, 9-Nails, 10-				ana Tunin a		
6-Chemical Testing, 7-Tis			CR, RT-PCR), 3-Microscopy (e.g., flu	orescent, Ewj, 4-Seroid	ogical/inmunologica	п теэт (e.g., EIA, ELISA), 5-Ph	aye ıypıng,		
Isolates									
State Lab Isolate II	J	Specimen Profile	e 1 (e.g., PFGE, MLVA, or ge	notype)	Specimen Profi	le 2 (e.g., PFGE, MLVA,	or genotype)		

## **Rec Water-Treated**

## **Recreational Water - Treated Venue Recreational Water Vehicle Description Water Vehicle Number** Water Subtype Water Type **Setting of Exposure** (e.g., spa/whirlpool/hot tub; (select indoor, outdoor, or (e.g., 1, 2, 3) (e.g., club, requiring membership; pool- swimming pool; pool- waterpark) unknown) hotel/motel/lodge/inn; waterpark) **Water Vehicle Number USUAL Water Treatment Venue Treatment Subtype Chlorination Subtype** (e.g., 1, 2, 3) Provided at Venue (disinfection or pool filtration: e.g., UV; (chlorine disinfection only- e.g., gaseous; chlorine dioxide; bag filter; cartridge filter; sodium hypochlorite; cyanurates /stabilized (e.g., no treatment; coagulation; disunknown) chlorine) infection; flocculation; filtration (pool); unknown) **Water Vehicle Number** Fill Water Type IF PUBLIC WATER WAS USED IF PUBLIC WATER WAS USED TO FILL, (e.g., 1, 2, 3) (e.g., public water supply; sea water; TO FILL, USUAL Water Treatment Fill Water Treatment Subtype untreated ground or surface water; **Provided for Fill Water Before** (disinfection or pool filtration: e.g., UV; chlorine unknown) **Coming to the Venue** dioxide; bag filter; cartridge filter; unknown) (e.g., no treatment; disinfection; filtration (treatment plant); unknown) **Recreational Water Quality** Did the venue meet state or local recreational water quality regulations? □ Yes □No □ Unknown □ Not applicable If **No**, explain: \_\_\_ Was there a pool operator on the payroll with state-approved ☐ Yes □No □Unknown training or certification? **Laboratory Section - Recreational Water Samples from Treated Venues** ☐ Yes (specify in table below) ☐ No □Unknown Was water from treated recreational water venues tested? Results Sample 2 3 4 5 Source of Sample (e.g., swimming pool, hot tub) **Additional Description of Source of Sample** (e.g., specific location, time of day, backwash sample, etc.) Date (mm/dd/yyyy) Number **Volume Tested** Unit Number **Temperature** Unit Residual/Free Disinfectant Level Number (if total and combined disinfectant levels Unit given, total - combined = free) **Combined Disinfectant Level** Number (if total and free disinfectant levels given, total - free = combined) Unit pН

Rec Water-Treated												
Microbiology or Chemical/Toxin Analysis (refer to the laboratory findings from the outbreak investigation)												
Sample Number   Genus/ Chemical/ Toxin   Species   Serotype/ Serogroup/ Serovar   Genotype/ Subtype   PFGE Pattern												
Saii	ihie maiiinei	delius/ Glielilical/ Tuxili	Sheries	Serviyee/ Servyroup/ Servar	denotype/ Subtype	FIGL	raugiii					
Sam	ple Number	Test Results Positive?	Concentration (number)	Unit (e.g., oocysts, CFU)	Test Type*	Enviro	Method (reference: onmental Methods www.nemi.gov)					
		□ yes										
		□ yes										
		□ yes										
		2-DNA or RNA Amplification/Dete Tissue Culture Infectivity Assay	ction (e.g., PCR, RT-P	CR), 3-Microscopy (e.g., fluorescent, EM),	4-Serological/Immunological	Test (e.g	., EIA, ELISA), 5-Phage	Typing,				
						<b>T</b>						
⊢ac	tors Contr	ibuting to Recreation	nal Water Co	ntamination and/or Incre	ased Exposure in	ırea						
		ll that apply)**					Documented/ Observed***	Suspected***				
		liance with bather load/de		nts ed children (e.g., kiddie pool)								
<u> </u>	Heavy use by	y child care center group		de ormateri (e.g., kidale pool)								
	Fecal/vomitu			- 6 la a la ca 111								
<u> </u>	Operator erro	tinued to swim when ill or or	within 2 weeks	or being iii								
	Intentional c	ontamination (explain in	remarks)									
×- <sup>-</sup>	Combined po	ool filtration systems led	to cross-contam	ination s, no diaper changing facilities)								
<u> </u>				s, no diaper changing facilities) stem capacity so water returns t	o features and bypass	es						
28	filtration/trea	tment system	•									
		ental disinfection installe rature ≥30°C (≥86°F)	d that would hav	e inactivated pathogen (e.g., Ca	ryptosporidium)							
	Cross-conne	ection with wastewater or										
				te, or lacking (e.g., hand feed)								
		tings on disinfectant con		ing (e.g., hand feed)								
	Incorrect set	tings on pH control syste	m	,								
	Filtration sys	stem malfunctioning or in al disinfection system ma	adequate (e.g., l	ow flow rate)								
일		system checks so breakd										
<u> </u>	No preventiv	e maintenance programs										
<u> </u>		itoring system in use sufficient for indoor aqua	atic facilities									
	Chemical ha	ndling error (e.g., chemic	al hookup, impro	pper mixing or application)								
		chemicals not flushed fr		re opening to swimmers d of chemicals resulted in exces	se chemicals in water							
		me/biofilm formation	i continuous ice	d of chemicals resulted in exces	55 CHEIIIICAIS III WALCI							
	Recent cons											
		vel excessive ning/cleaning										
	Stagnant wa	ter in spa piping was aero										
		operators on payroll who adequately trained staff o		tate/local certified training								
۵Ľ		munication chain for repo										
				test kit, inadequate testing frequency	uency)							
-         		ness policies absent or n oor chemical handling po		and training								
2¥_ _¥2	No operator	on duty at the time of inc	ident	,								
		outside aquatic health co perchlorination policy	ode									
	Other, specif	· · · · · ·										
	Unknown											
*** "[	Documented/Obs	it was found during investigation served" refers to information gath ntation (as defined previously) is		nt reviews, direct observations, and/or int	erviews. "Suspected" refers t	o factors	that probably occurred	but for				
Rer	narks											