Waterborne disease outbreaks associated with environmental and undetermined exposures to water* (n = 28), by state or jurisdiction and month of first case onset — Waterborne Disease and Outbreak Surveillance System, United States, 2013–2014

Environmental Water Sources

Exposure state/ Jurisdiction/Type of Exposure	Month	Year	Class***	Etiology†	Predominant illness§	No. cases	No. hospitalizations¶	No. deaths**	Deficiency†††	Type of water	Exposure setting
Colorado	OCT	2014	III	Giardia duodenalis	AGI	9	0	0	12	River/Stream	Park
Illinois	JAN	2013	III	Pseudomonas aeruginosa	Skin	30	7	0	12	Other††	Store/Shop
Illinois	SEP	2013	III	Giardia duodenalis	AGI	69	0	0	12	River/Stream	Park
Michigan	OCT	2014	III	Giardia duodenalis	AGI	6	0	0	12	Sewage	Private Residence
Minnesota	DEC	2013	IV	Legionella pneumophila serogroup 1	ARI	2	2	0	5b	Fountain - Ornamental	Casino
Minnesota	JUL	2014	III	Giardia duodenalis	AGI	6	0	0	12	River/Stream	Public Outdoor Area
New Mexico	JUL	2013	III	Giardia duodenalis	AGI	3	0	0	12	River/Stream	Camp/Cabin Setting
New York	OCT	2013	III	Giardia duodenalis	AGI	5	0	0	12	Spring	Other§§
Ohio	JUN	2013	III	Legionella pneumophila serogroup 1	ARI	39	32	6	5c	Cooling tower	Hospital/Health Care
Ohio	JUL	2013	I	Legionella pneumophila serogroup 1	ARI	3	2	1	5b	Cooling tower	Factory/Industrial Facility
Ohio	AUG	2014	III	Legionella pneumophila serogroup 1	ARI	22	8	0	5b	Evaporative condenser/ Air conditioner	Church/Place of Worship
Pennsylvania	JUL	2013	III	Legionella pneumophila serogroup 1	ARI	6	3	0	5b	Cooling tower	Prison/Jail (Juvenile/Adult)
Pennsylvania	AUG	2013	III	Legionella pneumophila serogroup 1	ARI	15	15	2	5b	Cooling tower; Fountain, ornamental	Hospital/Health Care
Utah	OCT	2014	IV	Giardia duodenalis	AGI	4	0	0	12	River/Stream	Backcountry
Virginia	MAY	2013	IV	Unknown	AGI	7	0	0	99c	Lake/Reservoir/ Impoundment	Public Outdoor Area

Abbreviations: AGI = acute gastrointestinal illness; ARI = acute respiratory illness; Skin = illnesses, conditions, or symptoms related to the skin; NR = not reported.

* The environmental exposure to water category includes outbreaks not associated with exposure to drinking water systems (i.e., public, private or bottled water) or recreational water venues (e.g., swimming pools, lakes). The undetermined exposure to water category includes outbreaks where a single water exposure (i.e. treated or untreated recreational water, drinking water, or environmental exposures) could not be determined based on available evidence.

† Etiologies listed are confirmed, unless indicated "suspected"; for multiple-etiology outbreaks, etiologies are listed in alphabetical order.

§ The category of illness reported by ≥50% of ill respondents; all legionellosis outbreaks were categorized as ARI.

¶ Value was set to "missing" in reports where zero hospitalizations were reported and the number of people for whom information was available was also zero.

**Value was set to "missing" in reports where zero deaths were reported and the number of people for whom information was available was also zero.

†† This outbreak was associated with a water storage container used in a tattoo and piercing shop.

§§ This outbreak setting was associated with a spring on a private property in a rural area.

¶¶ This outbreak from 2009 was not included in previous NORS reports. Data from this outbreak are presented in this table but not included in the analysis and discussion.

*** Strength-of-evidence class determined on the basis of epidemiologic, clinical laboratory, and environmental data (e.g., water quality data) provided to CDC. For more information, see Strength-of-Evidence Classification for Waterborne Disease & Outbreaks(https://www.cdc.gov/healthywater/surveillance/outbreak-classifications.html).

††† Deficiency classification assigned to all outbreaks associated with drinking water. For more information, see Deficiency Classification for Drinking Water and Other, Non-recreational Waterborne Disease Outbreaks(https://www.cdc.gov/healthywater/surveillance/deficiency-classification.html).

Undetermined Water Sources

Exposure state/ Jurisdiction/Type of Exposure	Month	Year	Class***	Etiology†	Predominant illness§	No. cases	No. hospitalizations¶	No. deaths**	Deficiency†††	Type of water	Exposure setting
Alabama	SEP	2013	IV	Legionella pneumophila serogroup 1	ARI	19	14	5	5c	Unknown	Long Term Care Facility
California	JAN	2014	IV	Legionella pneumophila serogroup 1	ARI	2	2	0	5c	Unknown	Hotel/Motel/Lodge/Inn
California	APR	2014	IV	Legionella pneumophila serogroup 2-14	ARI	2	2	1	5c	Unknown	Assisted Living Facility
Kentucky	JUN	2014	IV	Legionella pneumophila serogroup 1	ARI	6	2	0	5c	Unknown	Long Term Care Facility
Montana	JUL	2014	IV	Cryptosporidium sp.	AGI	11	0	0	99d	Unknown	NR
New York	MAY	2014	IV	Legionella pneumophila serogroup 1	ARI	2	2	0	5c	Unknown	NR
Ohio	JUL	2009¶¶	IV	Legionella pneumophila serogroup 1	ARI	9	6	0	5c	Unknown	Long Term Care Facility
Ohio	JUL	2013	IV	Legionella pneumophila serogroup 1	ARI	2	2	0	5c	Unknown	Indoor Workplace/ Office
Ohio	MAR	2014	IV	Legionella pneumophila serogroup 1	ARI	4	2	1	5c	Unknown	Long Term Care Facility
Ohio	APR	2014	IV	Legionella pneumophila serogroup 1	ARI	4	2	1	5c	Unknown	Long Term Care Facility
Ohio	OCT	2014	IV	Legionella pneumophila serogroup 1	ARI	2	2	0	5c	Unknown	Hospital/Health Care
Pennsylvania	JAN	2014	IV	Legionella pneumophila serogroup 1	ARI	6	6	0	5c	Unknown	Assisted Living Facility
Texas	APR	2013	IV	Legionella pneumophila serogroup 1	ARI	3	3	0	5c	Unknown	Prison/Jail (Juvenile/Adult)

Abbreviations: AGI = acute gastrointestinal illness; ARI = acute respiratory illness; Skin = illnesses, conditions, or symptoms related to the skin; NR = not reported.

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