	880902 Investigations of Healthcare-Associated Elizabethkingia Infections – United States, 2013-2019 Matthew B. Crist, MD, MPH <sup>1</sup> , John R. McQuiston, PhD <sup>2</sup> , Maroya Spalding Walters, PhD, ScM <sup>1</sup> , Elizabeth A. Soda, MD <sup>1</sup> , Heather Moulton-Meissner, PhD <sup>1</sup> , Matthew B. Crist, MD, MPH <sup>1</sup> , John R. McQuiston, PhD <sup>2</sup> , Maroya Spalding Walters, PhD, ScM <sup>1</sup> , Elizabeth A. Soda, MD <sup>1</sup> , Heather Moulton-Meissner, PhD <sup>1</sup> , Minsley C. Nicholson, PhD <sup>2</sup> , Kiran M. Perkins, MD, MPH <sup>1</sup> <sup>1</sup> Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Diseases, CDC, <sup>2</sup> Division of High-Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, CDC						
	Background	Healthcare Settings Involved in Consultations for			Whole Genome Sequencing Results		Results
·	<i>Elizabethkingia</i> bacteria are non-motile gram- negative rods	Elizabethki Healthcare Setting	Consultations	Cases	Whole Genome Sequencing	Number of Consultations	Identified 9 consultations with <i>Elizabethkingia</i> as the primary pathogen
•	Found in soil and water		n (%)	n (%)	Utilized during consultation	6 • Consultations were from 8 different states i	<ul> <li>Consultations were from 8 different states in</li> </ul>
•	<ul> <li>Three species associated with human illness:</li> <li><i>E. meningoseptica</i></li> </ul>	Long Term Acute Care Hospital (LTACH)	4 (44%)	32 (44%)	Identified isolates from different patients were closely related	4	<ul> <li>multiple regions of the country</li> <li>Involved 73 patients with <i>Elizabethkingia</i></li> </ul>
	<ul> <li>E. anopheles</li> <li>E. miricola</li> </ul> Produces biofilms which can grow in premise	Ventilator Skilled Nursing Facility (VSNF)	2 (22%)	31 (42%)	Identified environmental isolates	2	<ul><li>infections</li><li>Median number of infections per consultation wa</li></ul>
	plumbing systems	Acute Care Hospital	1 (11%)	7 (10%)	isolates*		4 (range: 1-28)
•	Emerging cause of infections in healthcare facilities	Outpatient Ear, Nose, and Throat Clinic	1 (11%)	2 (3%)	Found that a healthcare- associated case was closely related	1	<ul> <li>E. anophens was the species most frequently identified from patient isolates</li> </ul>
•	Usually causes infections among	Assisted Living Facility	1 (11%)	1 (1%)	to a large community outbreak		Conclusions
		Total	9	73	Found that isolates initially	4	Conclusions
	Methods	Mitigation Measures			identified as <i>E. meningoseptica</i> were <i>E. anopheles</i>		• Elizabethkinga is an important emerging pathogen which can cause outbreaks in
•	CDC Division of Healthcare Quality Promotion maintains a database of consultations with state or local health departments related to healthcare-	Efforts to reduce Elizabethkingia in facility water systems: Development of water management plans Consulting water management specialists Flushing water outlets Monitoring water quality Efforts to minimize patient exposure:			*Environmental sources identified included sinks, shower rooms, and a nebulizer cup		<ul> <li>• Outbreaks often among chronically ventilated patients</li> </ul>
•	associated outbreaks and infection control breaches During investigations, entries for outbreaks are created and updated on a standardized form				Positive Culture Sites Involved in Consultations for <i>Elizabethkingia</i> Infections (N=9)	Consultations n (%)	<ul> <li>LIACHs and VSNFs accounted for the majority of <i>Elizabethkingia</i> consultations and patient infections</li> <li>Robust water management plans and infection control practices to minimize patient exposure to contaminated water are</li> </ul>
	<i>Elizabethkingia</i> species as the primary pathogen of concern January 1, 2013 to December 31, 2019				Respiratory Onl	y 4 (44%)	
•	<ul> <li>Cleaning of shower facilities and equipment</li> <li>Cleaning of shower facilities and equipment</li> <li>Storage of respiratory therapy supplies away from water sources</li> </ul>			Bloodstream Onl	y 1 (11%)	important measures to reduce infection risk among vulnerable patients	
				- ,	Respiratory and Bloodstream 3 (33%)		
Ĩ	additional details	Use of splash guards of splash guar	on sinks		Sinus Onl	y 1 (11%)	
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