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DIRECT FROM CDC ENVIRONMENTAL HEALTH SERVICES







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Water Management Programs Are Key to Managing Legionella **Growth and Spread**

National Center for Environmental Health Centers for Disease Control and Prevention

Editor's Note: The National Environmental Health Association (NEHA) strives to provide up-to-date and relevant information on environmental health and to build partnerships in the profession. In pursuit of these goals, NEHA features this column on environmental health services from the Centers for Disease Control and Prevention (CDC) in every issue of the Journal.

In these columns, authors from CDC's Water, Food, and Environmental Health Services Branch, as well as guest authors, will share insights and information about environmental health programs, trends, issues, and resources. The conclusions in these columns are those of the author(s) and do not necessarily represent the of cial position of CDC.

Elaine Curtiss is a public health analyst. Janie Hils is a fellow with the Oak Ridge Institute for Science and Education (ORISE). CDR Jasen Kunz is an environmental health subject matter expert for Legionnaires' disease. All work at the National Center for Environmental Health and the Water, Food, and Environmental Health Services Branch within CDC.

Department of Health & Human Services, growth of Legionella. 2021). While the Centers for Disease Control and Prevention (CDC) does not know ple identify hazardous conditions and take to what extent building water systems might steps to minimize the growth and spread of of reduced building occupancy or building one altogether (Clopper et al., 2021). CDC closure and low water usage can create haz- investigations show, however, that almost ards for occupants. Reopening schools, work- all (9 in 10) Legionnaires' disease outbreaks places, and businesses-and more people were caused by problems preventable with traveling and staying in hotels—can elevate more effective water management (Garrison • the risk of exposure to Legionella bacteria if et al., 2016). appropriate steps are not taken. Environmen-

n summer 2021, several U.S. public tal health professionals have an important health jurisdictions reported increases role in reminding building owners, building in Legionnaires' disease cases above their operators, and cooling tower operators of respective 5-year baseline averages (Michigan ways to safely reopen buildings to prevent the

Water management programs help peo-



CDC's toolkit—Developing a Water Management Program to Reduce Legionella Growth and Spread in Buildings (www.cdc. have contributed to these increases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods Legionella and other waterborne pathogens (2017/ted) on Tellea/avraly/size liket/incleases, periods (2017/ted) on Telleases, periods (designed to help people understand

- · which buildings and devices need a Legionella water management program to reduce the risk for Legionnaires' disease,
- the key elements of a water management program, and
- how to develop it.

Remind Building Owners and Operators of the Risk From Stagnant or Standing Water in a Plumbing System

Stagnant or standing water in a plumbing system can increase the risk for growth and spread of Legionella and other biofilm-associated bacteria. When water is stagnant, the hot water temperatures in buildings can fall into the favorable range for Legionella growth (77–113 °F [25–42 °C]). Stagnant water can also lead to low or undetectable levels of disinfectant, such as chlorine. Ensuring that the water system is safe to use after a prolonged shutdown can minimize the risk of Legionnaires' disease and other diseases associated with water.