Legionnaires’ disease, a severe form of pneumonia, is caused by breathing in droplets of water containing *Legionella*. Symptoms usually occur within 2 weeks following exposure and include:

- Cough
- Shortness of breath
- Fever
- Muscle aches
- Headaches

Who is at increased risk?
In most cases, healthy people exposed to *Legionella* do not get sick. The following people are at an increased risk of getting sick:

- People 50 years or older (especially current or former smokers)
- People with a chronic lung disease
- People with weak immune systems
- People with underlying illnesses such as diabetes, kidney failure, or liver failure

More information is available at:

- Centers for Disease Control and Prevention (CDC): [https://www.cdc.gov/legionella/about/index.html](https://www.cdc.gov/legionella/about/index.html)

Are you involved in water safety for buildings?

Take the PreventLD CDC training on creating a water management program to reduce risk for Legionnaires’ disease. This training aligns with industry standards (ASHRAE 188) on managing risk of *Legionella* bacteria. This training includes templates and other practical resources.


Register today!
Building owners and managers can protect people by developing a water management program.

How does *Legionella* get into my building water systems?

*Legionella* can enter your building water system when receiving treated drinking water or from untreated groundwater, such as a private well. Disruptions, such as water main breaks, water line construction, and sudden changes in water pressure can increase the amount of *Legionella* mixed into the water delivered. Once the water enters your building, the way the water is conditioned, filtered, stored, heated, cooled, and distributed may increase the likelihood of *Legionella* growth. Currently, there are no drinking water regulations for *Legionella*.

What factors or conditions can lead to the growth or spread of *Legionella* in my building water systems?

- Insufficient disinfectant residual
- Inadequate water temperatures
- Increased water age
- Areas of low flow and/or dead-legs
- Undiagnosed leaks or necessary plumbing maintenance

What type of buildings are most at risk for spreading *Legionella*?

Large buildings with complex water systems are more at risk, such as:

- Apartment buildings with a centralized hot water system
- Hospitals and long-term care facilities
- Retirement homes and assisted-living facilities
- Hotels and travel accommodations

What are the most likely sources of water for *Legionella* growth and spread?

- Showerheads and sink faucets
- Cooling towers
- Hot tubs and decorative fountains
- Hot water tanks and heaters
- Large plumbing systems

What is a Water Management Program?

A water management program is a multi-step, continuous process designed to:

- Identify areas where *Legionella* can grow and spread
- Reduce risk by managing and monitoring the water system
- Trigger actions when risks are identified

Standards and Guidance for Water Management Programs

- ASHRAE Standard 188—Legionellosis: Risk Management for Building Water Systems
- ASHRAE Guideline 12-2000 - Minimizing the Risk of Legionellosis Associated with Building Water Systems
- CTI Legionellosis Guideline: Best Practices for Control of *Legionella*