

Legionellosis

2010 Case Total	15	2010 Incidence Rate	0.41 per 100,000
2009 Case Total	10	2009 Incidence Rate	0.27 per 100,000

The number of legionellosis cases reported in 2010 is a 50% increase from the 10 cases reported in 2009. Since 2000, the annual incidence rate of legionellosis has ranged from 0.14 to 0.41 per 100,000 population with the exception of 2004 when the incidence rate was 0.70 per 100,000 population due to an outbreak. In 2010, lab tests were performed via bronchial culture (7%), sputum culture (7%), and urine antigen testing (87%). No outbreaks of legionellosis were identified in Oklahoma during 2010.

During 2010, cases of legionellosis occurred among residents of ten Oklahoma counties and were spread geographically across all regions of the state except the northwest region. The highest incidence rate occurred among cases 45 to 49 years of age (IR = 1.93, n = 5) followed by cases 70 to 74 years of age (IR = 1.74, n = 2) and 65 to 69 years of age (IR = 1.34, n = 2). Of the cases reported in 2010, 1 (7%) reported travel outside of the state during the incubation period of their illness, and 2 (13%) reported exposure to a respiratory device filled with tap water such as a nebulizer or humidifier.

Prevention of legionellosis is based upon proper maintenance of heating, cooling and plumbing systems. Special attention should also be given to hot tubs and whirlpool baths to keep them free of *Legionella* bacteria. Visit <http://ads.health.ok.gov> and click on the "Disease Information" tab to obtain more information on Legionellosis.

Demographic and Clinical Summary of Reported Legionellosis Cases, Oklahoma, 2010 (N = 15)

	Number (%)	Incidence Rate per 100,000
Gender		
Male	13 (87%)	0.71
Female	2 (13%)	0.11
Age	Median = 48 years (range: 26 – 79 years)	
Race		
Black or African American	1 (7%)	0.35
White	12 (80%)	0.46
Unknown	2 (13%)	-
Ethnicity		
Hispanic or Latino	0 (0%)	0.00
Not Hispanic or Latino	8 (53%)	0.24
Unknown	7 (47%)	-
Symptoms		
Cough	13 (87%)	-
Fever	12 (80%)	-
Headache	2 (13%)	-
Malaise	13 (87%)	-
Myalgia	6 (40%)	-
Chills	9 (60%)	-
Chest pain	5 (33%)	-
Hospitalization	15 (100%)	-
Possible nosocomial infection	2 (13%)	-
Complication/Comorbidity		
Death	1 (7%)	-
Pneumonia	15 (100%)	-
Corticosteroid treatment	2 (13%)	-