



Active Bacterial Core Surveillance (ABCs) Report

Emerging Infections Program Network

Legionellosis, 2013



ABCs Areas

California (3 county San Francisco Bay area); Colorado (5 county Denver area); Connecticut; Georgia (8 county Atlanta area); Maryland; Minnesota; New Mexico; New York (15 county Rochester and Albany areas); Oregon; Tennessee (20 urban counties)

ABCs Population

The surveillance areas represent 37,009,638 persons.
Source: National Center for Health Statistics bridged-race vintage 2013 postcensal file

ABCs Case Definition

Confirmed legionellosis case: A positive culture of any *Legionella* organism from a body site, detection of *L. pneumophila* serogroup 1 antigen in urine, or fourfold or greater rise in specific serum antibody titer to *L. pneumophila* serogroup 1 between acute and convalescent sera in a resident of a surveillance area in 2013.

ABCs Methodology

ABCs personnel are in contact with all laboratories serving persons in the surveillance area to identify cases. Standardized case report forms that include information on demographic characteristics, clinical syndrome, and outcome of illness were completed for each identified case. Regular laboratory audits assessed completeness of active surveillance.

All rates of legionellosis were calculated using population estimates for 2013. For national estimates of cases, race- and age-specific rates of disease were applied from the aggregate surveillance area to the age and racial distribution of the 2013 U.S. population. Cases with unknown race were distributed by site based on reported race distribution for known cases within the nine age categories.¹

Reported ABCs Profiles

Sex	No.	(Rate [*])
Male	339	(1.9)
Female	178	(0.9)

* Cases per 100,000 population for ABCs areas

Race	No.	(Rate [*])
White	362	(1.3)
Black	150	(2.5)
Other	5	(0.2)

* Cases per 100,000 population for ABCs areas

Age (years)	Cases		Deaths	
	No.	(Rate [*])	No.	(Rate [*])
< 10	2	(0.04)	0	(0.00)
10-19	2	(0.04)	0	(0.00)
20-29	11	(0.21)	0	(0.00)
30-39	22	(0.44)	0	(0.00)
40-49	78	(1.53)	2	(0.04)
50-59	136	(2.60)	8	(0.15)
60-69	124	(3.24)	13	(0.34)
70-79	83	(4.17)	11	(0.55)
≥ 80	59	(4.47)	7	(0.53)
Total	517	(1.40)	41	(0.11)

* Cases or deaths per 100,000 population for ABCs areas

Site	Cases		Deaths	
	No.	(Rate [*])	No.	(Rate [*])
California**	16	(0.46)	3	(0.09)
Colorado**	31	(1.20)	5	(0.19)
Connecticut	65	(1.81)	5	(0.14)
Georgia**	31	(0.80)	5	(0.13)
Maryland	140	(2.36)	12	(0.20)
Minnesota	50	(0.92)	3	(0.06)
New Mexico	10	(0.48)	0	(0.00)
New York**	105	(4.81)	6	(0.28)
Oregon	18	(0.46)	0	(0.00)
Tennessee**	51	(1.30)	2	(0.05)
Total	517	(1.40)	41	(0.11)

* Cases or deaths per 100,000 population for ABCs areas

** Data from select counties

Testing Methodology	No.	(%)
Urine Antigen	497	(96.1)
Culture	50	(9.7)
Serology	0	(0.0)

Note: Some cases had more than one testing method

Illness Severity	No.	(%)
Hospitalization	514	(99.4)
ICU admission	229	(44.3)
Mechanical ventilation	132	(25.5)
Death	41	(7.9)

National Estimates of Disease

Cases: 4,358 (1.38/100,000)

Deaths: 356 (0.11/100,000)

Citation

Centers for Disease Control and Prevention. 2015. Active Bacterial Core Surveillance Report, Emerging Infections Program Network, Legionellosis, 2013.

Available via the internet: <http://www.cdc.gov/abcs/reports-findings/survreports/leg13.pdf>