



Active Bacterial Core Surveillance (ABCs) Report

Emerging Infections Program Network

Group A *Streptococcus*, provisional-2010 (ORIG)



ABCs Areas

California (3 county San Francisco Bay area); Colorado (5 county Denver area); Connecticut; Georgia (20 county Atlanta area); Maryland (6 county Baltimore area); Minnesota; New Mexico; New York (15 county Rochester and Albany areas); Oregon (3 county Portland area); Tennessee (20 counties)

ABCs Population

The surveillance areas represent 32,091,627 persons.
Source: National Center for Health Statistics bridged-race vintage 2009 postcensal file

ABCs Case Definition

Invasive group A streptococcal disease: isolation of Group A *Streptococcus* from a normally sterile site or from a wound culture accompanied by necrotizing fasciitis or streptococcal toxic shock syndrome in a resident of a surveillance area in 2010.

ABCs Methodology

ABCs personnel routinely contacted all microbiology laboratories serving acute care hospitals in their 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. Strains were *emm*-typed at CDC. Regular laboratory audits assessed completeness of active surveillance and detected additional cases.

All rates of invasive group A streptococcal disease were calculated using population estimates for 2009. 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 2009 U.S. population. Cases with unknown race were distributed by site based on reported race distribution for known cases within the eight age categories.

Reported ABCs Profiles

Race	No. (Rate [*])
White	949 (3.8)
Black	228 (4.6)
Other	98 (4.1)

Unknown race (n=231) distributed amongst known

* Cases per 100,000 population for ABCs areas

Ethnicity	No. (Rate [*])
Hispanic	146 (3.7)
Non-Hispanic	697 -----
Unknown	433 -----

* Cases per 100,000 population for ABCs areas

Citation

Centers for Disease Control and Prevention. 2011. Active Bacterial Core Surveillance Report, Emerging Infections Program Network, Group A *Streptococcus*, provisional-2010.

Available via the internet:

<http://www.cdc.gov/abcs/reports-findings/survreports/gas10-comp.pdf>

Age (years)	Cases		Deaths	
	No.	(Rate [*])	No.	(Rate [*])
< 1	20	(4.5)	1	(0.23)
1	23	(5.2)	0	(0.00)
2-4	35	(2.6)	1	(0.08)
5-17	91	(1.7)	2	(0.04)
18-34	143	(1.9)	4	(0.05)
35-49	273	(3.9)	16	(0.23)
50-64	304	(5.1)	36	(0.60)
≥ 65	386	(10.2)	61	(1.61)
Total	1,275	(4.0)	121	(0.38)

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

ABCs Area [*]	Most common <i>emm</i> types [†]	% of area isolates
California	82,1,28,75,12,89	71.9
Colorado	1,3,4,118,2,11,12,22,28	84.2
Georgia	1,3,6,89,12,28	79.1
Maryland	1,89,6,77,3,76	67.1
Minnesota	1,12,118,28,4,5,2	71.6
New Mexico	1,118,3,12,73	60.9
New York	1,89,12,3,6,11,28	86.6
Oregon	1,11,28,82	61.5
Tennessee	1,3,4,89,6,12	77.7
Total	1,3,12,89,28,6,4,118	69.2

* Connecticut contributed cases but no isolates

† Requires a minimum of 3 or more isolates and ≥ 5% of isolates typed

Syndrome	No. (%)
Cellulitis	470 (36.8)
Necrotizing fasciitis	70 (5.5)
Pneumonia	194 (15.2)
Primary bacteremia	307 (24.1)
Streptococcal toxic shock	45 (3.5)

Note: Some cases had more than one syndrome.

Potentially preventable invasive group A streptococcal disease

During 2010, 0 cases of invasive GAS disease were detected in a patient with varicella.

National Estimates of Invasive Disease

Cases: 12,300 (4.0/100,000)

Deaths: 1,200 (0.4/100,000)

For more information, visit our web site:

<http://www.cdc.gov/abcs/index.html>