



# Active Bacterial Core Surveillance (ABCs) Report

## Emerging Infections Program Network

### group A *Streptococcus* 2006

#### 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 (11 urban counties)

#### ABCs Population

The surveillance areas represent 30,465,182 persons.  
Source: National Center for Health Statistics bridged-race vintage 2006 postcensal file

#### ABCs Case Definition

Invasive group A streptococcal disease: isolation of group A *Streptococcus* from a normally uninfected wound culture accompanied by necrotizing fasciitis or streptococcal toxic shock syndrome in a resident of a surveillance area in 2006.

#### 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 2006. 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 2006 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 <sup>*</sup> )
White	835 (3.5)
Black	227 (4.9)
Other	84 (3.8)

Unknown race (n=215) distributed amongst known

<sup>\*</sup> Cases per 100,000 population for ABCs areas

Ethnicity	No. (Rate <sup>*</sup> )
Hispanic	112 (3.2)
Non-Hispanic	400 -----
Unknown	634 -----

<sup>\*</sup> Cases per 100,000 population for ABCs areas

#### Citation

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Age (years)	Cases	Deaths
	No. (Rate <sup>*</sup> )	No. (Rate <sup>*</sup> )
< 1	21 (5.1)	2 (0.49)
1	17 (4.1)	2 (0.48)
2-4	32 (2.6)	0 (0.0)
5-17	73 (1.4)	3 (0.06)
18-34	133 (1.9)	6 (0.09)
35-49	254 (3.6)	32 (0.45)
50-64	271 (5.0)	42 (0.78)
≥ 65	345 (10.1)	72 (2.1)
Total	1,146 (3.8)	159 (0.52)

<sup>\*</sup> Cases or deaths per 100,000 population for ABCs areas

ABCs Area <sup>*</sup>	Most common emm types <sup>†</sup>	% of area isolates
California	1, 59, 83, 28, 12, 49, 4, 53	66.7
Colorado	1, 12, 28, 3, 5	54.9
Georgia	1, 3, 28, 12, 4	71.0
Maryland	1, 3, 83, 12, 75, 27, 28, 87, 89	68.5
Minnesota	1, 28, 12, 6	56.4
New Mexico	1, 118, 12, 28, 76, 89, 3	74.1
New York	12, 1, 2, 3, 4, 6, 28, 58, 89	82.1
Oregon	1, 12, 83, 28, 3	61.0
Tennessee	1, 28, 3, 4, 11, 12, 75	66.7
Total	1, 12, 28, 3	48.7

<sup>\*</sup> Connecticut contributed cases but no isolates.

<sup>†</sup> emm types listed account for a minimum of 3 or more isolates and ≥ 5% of isolates typed

Syndrome	No. (%)
Cellulitis	365 (31.8)
Necrotizing fasciitis	79 (6.9)
Pneumonia	175 (15.3)
Primary bacteremia	372 (32.5)
Streptococcal toxic shock	58 (5.1)

Note: Some cases had more than one syndrome.

#### Potentially preventable invasive group A streptococcal disease

During 2006, 4 cases (ages 11 months and 32, 35, and 93 years) of invasive GAS disease were detected in patients with varicella.

#### National Estimates of Invasive Disease

Cases: 11,400 (3.8/100,000)

Deaths: 1,600 (0.5/100,000)

For more information, visit our web site:

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