



# Active Bacterial Core Surveillance (ABCs) Report

## Emerging Infections Program Network

### *Streptococcus pneumoniae*, 2005



#### ABCs Areas

California (San Francisco County and children < 5 years in Alameda and Contra Costa counties); 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 and children <5 years in Erie county); Oregon (3 county Portland area); Tennessee (11 urban counties)

#### ABCs Population

The surveillance areas represent 27,816,784 persons.  
Source: National Center for Health Statistics bridged-race vintage 2005 postcensal file

#### ABCs Case Definition

Invasive pneumococcal disease: isolation of *Streptococcus pneumoniae* from normally sterile site in resident of a surveillance area in 2005.

#### 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. Pneumococcal isolates were collected and sent to reference laboratories for susceptibility testing using NCCLS methods and serotyping. Regular laboratory audits assessed completeness of active surveillance and detected additional cases.

Rates of invasive pneumococcal disease were calculated using population estimates for 2005. For national estimates, race- and age-specific rates of disease were applied from the aggregate surveillance area to the age and racial distribution of the 2005 U.S. population. Cases with unknown race were distributed by area based on reported race distribution for known cases within the eight age categories.

#### Reported ABCs Profiles

Race	No. (Rate*)
White	2,709 (12.3)
Black	1,056 (25.0)
Other	143 (8.9)

Unknown race (n=620) distributed amongst known

\* Cases per 100,000 population for ABCs areas

#### Citation

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Age (years)	Cases	Deaths
	No. (Rate*)	No. (Rate*)
< 1	153 (36.2)	4 (0.97)
1	151 (35.6)	1 (0.24)
2-4	155 (12.3)	4 (0.33)
5-17	146 (3.0)	5 (0.10)
18-34	264 (4.1)	11 (0.17)
35-49	842 (12.9)	74 (1.1)
50-64	969 (20.5)	127 (2.7)
≥ 65	1,228 (39.6)	212 (6.8)
Total	3,908 (14.1)	438 (1.6)

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

Syndrome	No. (%*)
Meningitis	226 (5.8)
Bacteremia without focus	864 (22.1)
Pneumonia with bacteremia	2,683 (68.7)

\* Percent of cases

Antibiotic Susceptibility	S* %	I† %	R‡ %
Penicillin	76.4	13.7	9.9
Cefotaxime	94.7	4.1	1.2
Erythromycin	79.8	0.1	20.1
TMP/Sulfa	78.1	6.9	15.0
Tetracycline	90.6	0.1	9.3
Levofloxacin	99.4	0.03	0.6
Vancomycin	100.0	0.0	0.0

Based on reference lab testing of 3,499 isolates

\* Susceptible; † Intermediate; ‡ Resistant based on year 2005 NCCLS definitions

#### National Estimates of Invasive Disease

Cases: 41,550 (14.0/100,000)  
Deaths: 4,850 (1.6/100,000)

#### Healthy People 2010 Update

Objective: Decrease the incidence of invasive pneumococcal infections to 46 per 100,000 persons less than 5 years of age and to 42 per 100,000 persons aged 65 and older.

Age (year)	2010 Objective	2005 Rate*
< 5	46/100,000	21.2/100,000
≥ 65	42/100,000	39.6/100,000

\* Cases per 100,000 U.S. population < 5 years or ≥ 65 years

#### For more information, visit our web site:

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

