

# Active Bacterial Core Surveillance (ABCs) Report Emerging Infections Program Network Streptococcus pneumoniae, 2004



# **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); Oregon (3 county Portland area); Tennessee (11 urban counties)

### **ABCs Population**

The surveillance areas represent 27,419,898 persons. Source: National Center for Health Statistics bridged-race vintage 2004 postcensal file

### **ABCs Case Definition**

Invasive pneumococcal disease: isolation of *Streptococcus pneumoniae* from normally sterile site in resident of a surveillance area in 2004.

### **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 2004. For national projections, race- and age-specific rates of disease were applied from the aggregate surveillance area to the age and racial distribution of the 2004 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 <sup>*</sup> )
White	2,457	(11.3)
Black	905	(22.2)
Other	154	(9.8)

Unknown race (n=557) distributed amongst known

\* Cases per 100,000 population for ABCs areas

#### Citation

Centers for Disease Control and Prevention. 2005. Active Bacterial Core Surveillance Report, Emerging Infections Program Network, *Streptococcus pneumoniae*, 2004. Available via the Internet:

http://www.cdc.gov/abcs/reports-findings/survreports/spneu04.pdf

	Cases		D	eaths
Age (years)	No.	(Rate <sup>*</sup> )	No.	(Rate <sup>*</sup> )
< 1	153	(37.0)	4	(0.97)
1	130	(31.7)	5	(1.2)
2-4	148	(12.3)	2	(0.17)
5-17	121	(2.5)	3	(0.06)
18-34	249	(3.9)	17	(0.26)
35-49	708	(10.9)	62	(0.96)
50-64	834	(18.3)	127	(2.8)
$\geq 65$	1,173	(38.4)	221	(7.2)
Total	3,517	(12.8)	441	(1.6)

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

	No.	(%*)		
	216	(6.1)		
focus	801	(22.8)		
Pneumonia with bacteremia		(67.0)		
* Percent of cases				
$\mathbf{s}^{*}$	I‡	R‡		
%	%	%		
78.6	13.0	8.4		
95.9	3.4	0.7		
82.4	0.2	17.4		
78.0	7.0	15.0		
92.7	0.1	7.2		
99.5	0.1	0.4		
100.0	0.0	0.0		
	<b>S</b> * % 78.6 95.9 82.4 78.0 92.7 99.5	$\begin{array}{c cccc} & & & & & & & \\ \hline     focus & & & & & & \\     cteremia & & & & & & \\     \hline                    $		

Based on reference lab testing of 3,092 isolates

\* Susceptible; † Intermediate; ‡ Resistant based on year 2004 NCCLS definitions

#### **National Projections of Invasive Disease**

Cases: 37,775 (12.9/100,000) Deaths: 4,900 (1.7/100,000)

## 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	2004 Rate*
< 5	46/100,000	20.8/100,000
$\geq 65$	42/100,000	38.4/100,000

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

# For more information, visit our web site:

http://www.cdc.gov/abcs