



Active Bacterial Core Surveillance (ABCs) Report

Emerging Infections Program Network

group B streptococcus, 2005



ABCs Areas

California (3 county San Francisco Bay area); Colorado (children < 1 year in 5 county Denver area); Connecticut (children < 1 year); Georgia (20 county Metro area); Maryland; 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 27,350,255 persons and 454,348 live births. Source: National Center for Health Statistics bridged-race vintage 2005 postcensal file and 2004 state vital records

ABCs Case Definition

Invasive group B streptococcal disease: isolation of group B streptococcus from a normally sterile site in a resident of a surveillance area in 2005. Early-onset cases occur at < 7 days of age and late-onset occur between 7 and 89 days of age.

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. Regular laboratory audits assessed completeness of active surveillance and detected additional cases.

Rates of early-onset and late-onset group B streptococcal disease were calculated using estimates of live births for 2004. All other rates were calculated using population estimates for 2005. 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 2005 U.S. population and to the 2004 live births for early-onset and late-onset disease. 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 | 1,322 | (6.5) |
| Black | 628 | (12.8) |
| Other | 106 | (5.1) |

Unknown race (n=287) distributed amongst known

* Cases per 100,000 population for ABCs areas

| Ethnicity | No. | (Rate [*]) |
|--------------|-------|----------------------|
| Hispanic | 156 | (5.7) |
| Non-Hispanic | 896 | ----- |
| Unknown | 1,004 | ----- |

* Cases per 100,000 population for ABCs areas

| Age (years) | Cases | Deaths |
|-------------|--------------------------|--------------------------|
| | No. (Rate [*]) | No. (Rate [*]) |
| < 1 | 350 (76.8) | 13 (2.9) |
| 1 | 4 (1.1) | 0 (0.0) |
| 2-4 | 4 (0.36) | 1 (0.09) |
| 5-17 | 14 (0.29) | 1 (0.02) |
| 18-34 | 143 (2.2) | 2 (0.03) |
| 35-49 | 298 (4.6) | 15 (0.23) |
| 50-64 | 472 (10.1) | 39 (0.83) |
| ≥ 65 | 771 (25.6) | 89 (3.0) |
| Total | 2,056 (7.5) | 160 (0.59) |

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

| Race | Early-Onset | Late-Onset |
|-------|--------------------------|--------------------------|
| | No. (Rate [*]) | No. (Rate [*]) |
| White | 85 (0.25) | 69 (0.20) |
| Black | 75 (0.88) | 91 (1.07) |
| Other | 7 (0.21) | 5 (0.15) |
| Total | 167 (0.37) | 165 (0.33) |

Unknown race (n=21 Early-Onset, n=22 Late-Onset) distributed among knowns

* Cases per 1,000 live birth for ABCs areas

National Estimates of Invasive Disease

Early-Onset Cases: 1,415 (0.34/1,000 live births)

Late-Onset Cases: 1,375 (0.33/1,000 live births)

Total Cases: 21,500 (7.3/100,000 population)

Deaths: 1,750 (0.59/100,000 population)

Healthy People 2010 Update

Early-Onset Disease

Objective: Decrease the incidence of invasive early-onset group B streptococcal disease to 0.5 cases per 1,000 live births.

| Race | 2010 Objective | 2005 Rate [*] |
|-------|----------------|------------------------|
| White | 0.5/1,000 | 0.25/1,000 |
| Black | 0.5/1,000 | 0.88/1,000 |
| Other | 0.5/1,000 | 0.21/1,000 |
| Total | 0.5/1,000 | 0.34/1,000 |

* Cases per 1,000 U.S. live births

For more information, visit our web site:

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

Citation

Centers for Disease Control and Prevention. 2006. Active Bacterial Core Surveillance Report, Emerging Infections Program Network, Group B Streptococcus, 2005.

Available via the internet:

<http://www.cdc.gov/abcs/reports-findings/survreports/gbs05.pdf>