



# Active Bacterial Core Surveillance (ABCs) Report

## Emerging Infections Program Network

### *Haemophilus influenzae*, 2007



#### ABCs Areas

California (3 county San Francisco Bay area); Colorado (5 county Denver area); Connecticut; Georgia (20 county Atlanta area); Maryland; Minnesota; New Mexico; New York (15 county Rochester and Albany areas); Oregon; Tennessee (11 urban counties)

#### ABCs Population

The surveillance areas represent 35,991,931 persons.  
Source: National Center for Health Statistics bridged-race vintage 2007 postcensal file

#### ABCs Case Definition

Invasive *Haemophilus influenzae* (Hi) disease: isolation of Hi from normally sterile site in a resident of a surveillance area in 2007.

#### 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. Serotyping was done on Hi isolates at CDC and state laboratories. Regular laboratory audits assessed completeness of active surveillance and detected additional cases.

All rates of invasive Hi disease were calculated using population estimates for 2007. For national estimates, race- and age-specific rates of disease were applied from the aggregate surveillance areas to the race- and age-specific distribution of the 2007 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 | 419 | (1.5)                |
| Black | 96  | (1.7)                |
| Other | 34  | (1.4)                |
| Total | 549 | (1.5)                |

Unknown race (n=87) distributed amongst known

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

| Syndrome                 | Cases                 | Deaths                   |
|--------------------------|-----------------------|--------------------------|
|                          | No. (% <sup>*</sup> ) | No. (Rate <sup>†</sup> ) |
| Meningitis               | 36 (6.6)              | 1 (2.9)                  |
| Bacteremia without focus | 168 (30.6)            | 26 (15.6)                |

<sup>\*</sup> Percent of cases

<sup>†</sup> Deaths per 100 cases with known outcome

| Age (years) | Serotype                 |                          |                          |                          |
|-------------|--------------------------|--------------------------|--------------------------|--------------------------|
|             | B                        | Non-B                    | Non-Type <sup>†</sup>    | Unknown                  |
|             | No. (Rate <sup>*</sup> ) | No. (Rate <sup>*</sup> ) | No. (Rate <sup>*</sup> ) | No. (Rate <sup>*</sup> ) |
| < 1         | 1 (0.20)                 | 13 (2.58)                | 32 (6.34)                | 4 (0.79)                 |
| 1           | 0 (0.00)                 | 6 (1.21)                 | 5 (1.01)                 | 0 (0.00)                 |
| 2-4         | 1 (0.07)                 | 6 (0.41)                 | 10 (0.69)                | 0 (0.00)                 |
| 5-17        | 0 (0.00)                 | 2 (0.03)                 | 7 (0.11)                 | 0 (0.00)                 |
| 18-34       | 0 (0.00)                 | 6 (0.07)                 | 25 (0.30)                | 4 (0.05)                 |
| 35-49       | 3 (0.04)                 | 23 (0.28)                | 36 (0.44)                | 11 (0.13)                |
| 50-64       | 3 (0.05)                 | 31 (0.47)                | 62 (0.94)                | 15 (0.23)                |
| ≥ 65        | 2 (0.05)                 | 50 (1.20)                | 154 (3.70)               | 37 (0.89)                |
| Total       | 10 (0.03)                | 137 (0.38)               | 331 (0.92)               | 71 (0.20)                |

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

<sup>†</sup> Non-typeable isolates

#### National Estimates for Invasive Disease

Cases: 4,675 (1.55/100,000)

Deaths: 675 (0.22/100,000)

#### Healthy People 2010 Update

##### Invasive *Haemophilus influenzae* type B disease

Objective: Decrease the incidence of invasive *Haemophilus influenzae* type B disease to zero cases per 100,000 persons less than 5 years of age.

| Age (year) | 2010 Objective | 2007 Rate <sup>*</sup> |
|------------|----------------|------------------------|
| < 5        | 0/100,000      | 0.08/100,000           |

<sup>\*</sup> Cases per 100,000 U.S. population < 5 years

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

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

#### Citation

Centers for Disease Control and Prevention. 2008 Active Bacterial Core Surveillance Report, Emerging Infections Program Network, *Haemophilus influenzae*, 2007.

Available via the Internet:

<http://www.cdc.gov/abcs/reports-findings/survreports/hib07.pdf>