Active Bacterial Core Surveillance (ABCs) Report
Emerging Infections Program Network
Haemophilus influenzae, 2009

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 36,748,349 persons. Source: National Center for Health Statistics bridged-race vintage 2009 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 2009.

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 2009. 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 2009 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	437	(1.6)
Black	114	(1.9)
Other	36	(1.3)
Total	587	(1.6)

Unknown race (n=87) distributed amongst known

* Cases per 100,000 population for ABCs areas

	Cases		Deaths	
Syndrome	No.	(%*)	No.	(Rate†)
Meningitis	28	(4.8)	0	(0.0)
Bacteremia without focus	153	(26.1)	24	(15.9)

* Percent of cases

† Deaths per 100 cases with known outcome

	Serotype					
	B		Non-B		Non-Type†	
Age (years)	No. (Rate*)		No. (Rate*)		No. (Rate*)	
< 1	0	(0.00)	11	(2.18)	34	(6.75)
1	1	(0.20)	9	(1.77)	11	(2.17)
2-4	1	(0.07)	4	(0.26)	8	(0.53)
5-17	2	(0.03)	5	(0.08)	14	(0.22)
18-34	0	(0.00)	7	(0.08)	28	(0.33)
35-49	1	(0.01)	24	(0.30)	35	(0.44)
50-64	3	(0.04)	45	(0.65)	75	(1.09)
≥ 65	1	(0.02)	52	(1.18)	216	(4.91)
Total	9	(0.02)	157	(0.43)	421	(1.15)

Unknown serotype (n=54) distributed amongst known

* Cases per 100,000 population for ABCs areas

† Non-typeable isolates

National Estimates for Invasive Disease
Cases: 4,975 (1.62/100,000)
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	2009 Rate*
< 5	0/100,000	0.08/100,000

* Cases per 100,000 U.S. population < 5 years

For more information, visit our web site:
http://www.cdc.gov/abcs

Citation
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