

# Active Bacterial Core Surveillance (ABCs) Report **Emerging Infections Program Network** Haemophilus influenzae, 2016



# **ABCs Areas**

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

#### **ABCs Population**

The surveillance areas represent 44,190,494 persons. Source: National Center for Health Statistics bridged-race vintage 2016 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 2016.

## 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 2016 from the bridged-race vintage 2016 postcensal file. 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 2016 U.S. population. Cases with missing data, excluding ethnicity, were multiply imputed using sequential regression imputation methods.¶

#### **Reported ABCs Profiles**

Race	No.	(Rate*)
White	673	(2.1)
Black	147	(1.8)
Other	48	(1.3)
Total	868	(2.0)

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

#### ¶ Surveillance Note

Missing race (n=55) data were multiply imputed using sequential regression imputation methods.

	Ca	ses	De	aths
Syndrome	No.	(%*)	No.	(Rate <sup>†</sup> )
Meningitis	54	(6.2)	3	(5.6)
Bacteremia without focus	199	(22.9)	23	(11.6)
Pneumonia with bacteremia	497	(57.3)	74	(14.9)

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

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

rot	

	В	Non-B	Non-Type <sup>†</sup>	Unknown
Age (years)	No. (Rate*)	No. (Rate*)	No. (Rate*)	No. (Rate*)
< 1	2(0.38)	20(3.76)	35(6.58)	5(0.94)
1	2(0.37)	7(1.30)	5(0.93)	1(0.19)
2-4	2(0.12)	9(0.56)	7(0.44)	4(0.25)
5-17	2(0.03)	10(0.14)	17(0.23)	5(0.07)
18-34	0(0.00)	6(0.06)	35(0.34)	7(0.07)
35-49	2(0.02)	21(0.24)	37(0.43)	9(0.10)
50-64	1(0.01)	42(0.48)	99(1.13)	23(0.26)
65-74	2(0.05)	39(1.02)	119(3.11)	15(0.39)
75-84	0(0.00)	24(1.33)	108(5.97)	10(0.55)
<u>≥</u> 85	0(0.00)	14(1.71)	105(12.81)	17(2.07)
Total	13(0.03)	192(0.43)	567(1.28)	96(0.22)

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

#### **National Estimates of Invasive Disease**

Cases: 6,400 (1.99/100,000) Deaths: 900 (0.29/100,000)

# **Healthy People 2020 Update**

# Invasive Haemophilus influenzae type B disease

Objective: Decrease the incidence of invasive Haemophilus influenzae type B disease to 0.27 cases per 100,000 persons less than 5 years of age

Age (year)	2020 Objective	<b>2016</b> Rate*	
< 5	0,27/100,000	0.22/100.000	

<sup>\*</sup> 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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Available via the internet:

http://www.cdc.gov/abcs/reports-findings/survreports/hi16.pdf

<sup>†</sup> Non-typeable isolates