



Active Bacterial Core Surveillance (ABCs) Report

Emerging Infections Program Network

Neisseria meningitidis, 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 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

Meningococcal disease: isolation of *Neisseria meningitidis* 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. Serogrouping of meningococcal isolates was done at CDC and state laboratories. Regular laboratory audits assessed completeness of active surveillance and detected additional cases.

All rates of meningococcal disease were calculated using population estimates for 2016 from the bridged-race vintage 2016 postcensal file. For national estimates of cases and deaths, race- and age-specific rates of disease were applied from the aggregate surveillance area to the age and racial distribution of the 2016 U.S. population for 49 states (excluding Oregon due to higher reported incidence rates of serogroup B and overall meningococcal disease). The Oregon reported cases were then added to obtain the national estimates. Cases with missing data, excluding ethnicity, were multiply imputed using sequential regression imputation methods.[¶]

Reported ABCs Profiles

Race	No.	(Rate [*])
White	50	(0.15)
Black	16	(0.20)
Other	5	(0.14)
Total	71	(0.16)

* Per 100,000 population for ABCs areas

Syndrome	Cases		Deaths	
	No.	(% [*])	No.	(Rate [†])
Meningitis	35	(49.3)	3	(8.6)
Bacteremia without focus	18	(25.4)	2	(11.1)
Percent of cases				

† Per 100 cases with known outcome

¶ Surveillance Note

Missing race (n=9) data were multiply imputed using sequential regression imputation methods.

Serogroups

Age (years)	B No. (Rate [*])	C No. (Rate [*])	Y No. (Rate [*])	Other [‡] No. (Rate [*])
< 1	3 (0.62)	1 (0.21)	1 (0.21)	0 (0.00)
1	1 (0.20)	0 (0.00)	1 (0.20)	1 (0.20)
2-4	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)
5-17	3 (0.04)	2 (0.00)	1 (0.01)	0 (0.00)
18-34	8 (0.09)	1 (0.02)	3 (0.03)	4 (0.04)
35-49	1 (0.01)	2 (0.01)	0 (0.00)	1 (0.01)
50-64	3 (0.04)	2 (0.03)	1 (0.01)	1 (0.01)
65-74	0 (0.00)	1 (0.03)	1 (0.03)	3 (0.09)
75-84	0 (0.00)	0 (0.00)	1 (0.06)	1 (0.06)
≥ 85	0 (0.00)	0 (0.00)	1 (0.14)	0 (0.00)
Total [†]	19 (0.05)	7 (0.02)	10 (0.02)	11 (0.03)

* Per 100,000 population for ABCs areas excluding Oregon

† Unknown serogroup (n=3) distributed amongst known.

All rates exclude Oregon. Rates including Oregon are serogroup B 0.07, serogroup C 0.04, serogroup Y 0.02, and serogroup Other 0.03 per 100,000 population for ABCs areas.

‡ Other includes serogroup W and nongroupables

Rates of Meningococcal Disease in Adolescents and Young Adults[†]

Age (years)	Overall Serogroups		C/Y/W Serogroups	
	No.	(Rate [*])	No.	(Rate [*])
11-17	4	(0.11)	1	(0.03)
18-22	9	(0.34)	4	(0.15)

* Per 100,000 population for ABCs areas excluding Oregon

† All rates exclude Oregon. Rates including Oregon are, for 11-17 year olds, overall serogroups 0.13 and serogroup C/Y/W 0.05; for 18-22 year olds, overall serogroups 0.42 and serogroup C/Y/W 0.14 per 100,000 population for ABCs areas

National Estimates for Disease[‡]

Cases: 400 (0.12/100,000)
Deaths: 38 (0.01/100,000)

‡ In 2016, 372 cases of meningococcal disease (confirmed and probable) were reported to the National Notifiable Disease Surveillance System (incidence 0.12/100,000 population)

Healthy People 2020 Update

Objective: Reduce the incidence of meningococcal disease to 0.3 per 100,000 population.

2020 Objective	2016 Rate [*]
0.3/100,000	0.12/100,000

* Per 100,000 U.S. population

For more information, visit our web site:

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

Citation

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