

# Active Bacterial Core Surveillance (ABCs) Report Emerging Infections Program Network



# Neisseria meningitidis, 2015

#### **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 43,912,997 persons. Source: National Center for Health Statistics bridged-race vintage 2015 postcensal file

#### **ABCs Case Definition**

Meningococcal disease: isolation of *Neisseria* meningitidis from normally sterile site in a resident of a surveillance area in 2015.

## **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 2015 from the bridged-race vintage 2015 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 2015 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	51	(0.16)
Black	14	(0.18)
Other	6	(0.17)
Total	71	(0.16)

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

	Cases		Deaths	
Syndrome	No.	(%*)	No. (Rate†)	
Meningitis	33	(46.5)	3 (9.1)	
Bacteremia without focus Percent of	15	(21.1)	3 (20.0)	
cases				

<sup>†</sup> Per 100 cases with known outcome

# ¶ Surveillance Note

Missing race (n=8) data were multiply imputed using sequential regression imputation methods.

# Serogroups

Age		В		C		Y	C	)ther <sup>‡</sup>
(years)	No.	(Rate*)	No.	(Rate*)	No	. (Rate*)	No.	(Rate*)
< 1	3	(0.62)	0	(0.00)	0	(0.00)	0	(0.00)
1	0	(0.00)	0	(0.00)	0	(0.00)	0	(0.00)
2-4	1	(0.07)	0	(0.00)	0	(0.00)	0	(0.00)
5-17	1	(0.01)	0	(0.00)	0	(0.00)	0	(0.00)
18-34	3	(0.03)	2	(0.02)	1	(0.01)	5	(0.05)
35-49	2	(0.03)	0	(0.00)	1	(0.01)	4	(0.05)
50-64	6	(0.08)	0	(0.00)	4	(0.05)	3	(0.04)
65-74	1	(0.03)	0	(0.00)	2	(0.06)	0	(0.00)
75-84	1	(0.06)	2	(0.13)	1	(0.06)	0	(0.00)
≥ 85	0	(0.00)	1	(0.14)	0	(0.00)	0	(0.00)
Total †	18	(0.05)	5	(0.01)	9	(0.02)	12	(0.03)

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

All rates exclude Oregon. Rates including Oregon are serogroup B 0.08, serogroup C 0.03, serogroup Y 0.03, and serogroup Other 0.03 per 100,000 population for ABCs areas.

# Rates of Meningococcal Disease in Adolescents and Young Adults $^\dagger$

		groups	C/Y/W Serogroups		
Age (years)	No	. (Rate*)	N	o. (Rate*)	
11-17	1	(0.03)	0	(0.00)	
18-22	4	(0.15)	0	(0.00)	

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

### **National Estimates for Disease**

Cases: 370 (0.11/100,000) Deaths: 60 (0.02/100,000)

### **Healthy People 2020 Update**

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

2020 Objective	2015 Rate*	
0.3/100,000	0.11/100,000	
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<sup>\*</sup> Per 100,000 U.S. population

# For more information, visit our web site:

www.cdc.gov/abcs

## Citation

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 $\underline{www.cdc.gov/abcs/reports-findings/survreports/mening15.pdf}$ 

<sup>†</sup> Unknown serogroup (n=4) distributed amongst known.

<sup>‡</sup> Other includes serogroup W and nongroupables

<sup>†</sup> All rates exclude Oregon. Rates including Oregon are, for 11-17 year olds, overall serogroups 0.03 and serogroup C/Y/W 0.00; for 18-22 year olds, overall serogroups 0.34 and serogroup C/Y/W 0.00 per 100,000 population for ABCs areas

Y In 2015, 372 cases of meningococcal disease (confirmed and probable) were reported to the National Notifiable Disease Surveillance System (incidence 0.12/100,000 population)