

Meningococcal Invasive Disease

2007 Case Total	23	2007 Rate	0.64 per 100,000
2006 Case Total	15	2006 Rate	0.43 per 100,000

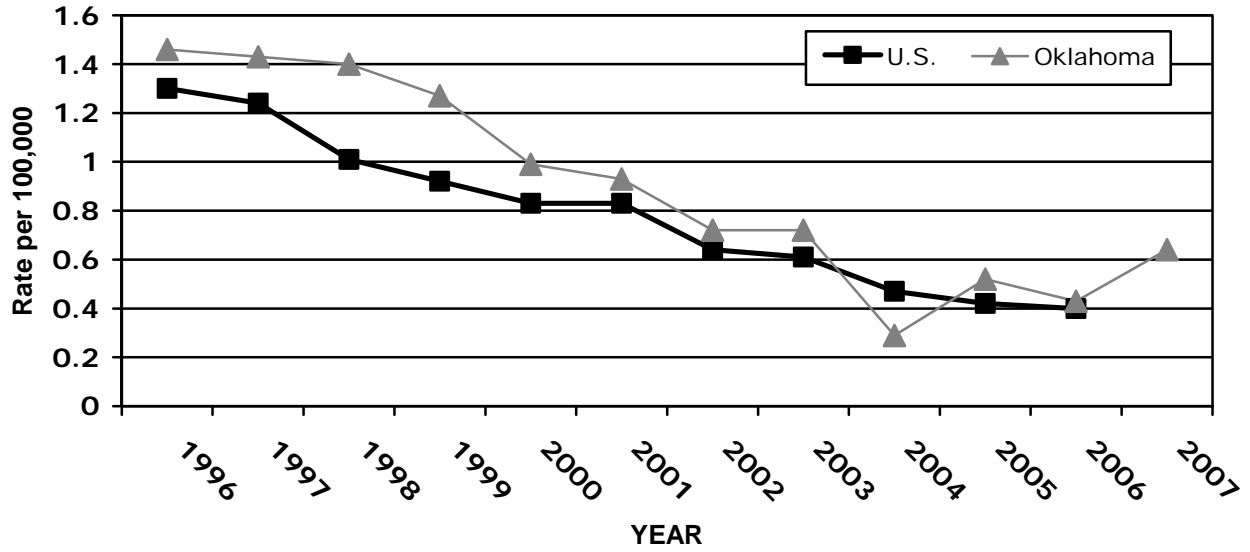
In 2007, 23 cases of meningococcal disease were reported in Oklahoma, a 53% increase from the 15 cases reported in 2006. Cases ranged in age from one month to 84 years with a median age of 5 years. Age-specific incidence rates revealed the highest rates occurred among infants and children less than 10 years old (refer to graph). Sixty-five percent (N=15) of cases required hospitalization and three deaths due to meningococcal disease were reported resulting in a case fatality rate of 13%. No geographic clusters or seasonal trend was observed.

Neisseria meningitidis is an immediately notifiable disease and must be reported upon diagnosis or suspicion. The state health department immediately investigates reported meningococcal disease cases to identify contacts and recommend prophylaxis to exposed persons. Three hundred and forty-five close contacts (median 13, range 0 – 47 per case) were identified and recommended to receive prophylaxis. Among cases in 2007, meningococcal disease was confirmed by isolation of *Neisseria meningitidis* from blood (48%), cerebrospinal fluid (48%) or synovial fluid (4%). Specimens are required to be forwarded to the OSDH Public Health Laboratory for confirmation and serogroup identification. Serogroup B (44%) and C (17%) accounted for the greatest proportion of isolates where a serogroup was confirmed.

Demographic and Clinical Summary of Reported Meningococcal Invasive Disease Cases, Oklahoma, 2007 (N = 23)

	Number (%)	Incidence Rate per 100,000
Gender		
Male	12 (52%)	0.62
Female	11 (48%)	0.66
Age	Median=5 years (Range 1 month-84 years)	
Racial Background		
White	15	0.53
African American or Black	4	1.39
American Indian or Alaska Native	2	0.70
Asian	1	1.60
Commonly Reported Symptoms		
Fever	21 (91%)	--
Rash	14 (61%)	--
Vomiting	12 (52%)	--
Nausea	11 (48%)	--
Headache	9 (39%)	--
Stiff Neck	8 (35%)	--
Photophobia	6 (26%)	--
Serogroup Types		
Group B	10 (44%)	--
Group C	4 (17%)	--
Group W-135	1 (4%)	--
Group Y	2 (9%)	--
Group Z	1 (4%)	--
Not Groupable	5 (22%)	--

Incidence Rate of Meningococcal Invasive Disease Cases, United States and Oklahoma, 1996-2007



Incidence Rate of Reported Meningococcal Invasive Disease Cases by Age Group, Oklahoma, 2007

