

## Meningococcal disease

Reported cases of invasive meningococcal infections, including sepsis and meningitis, have declined from the hyperendemic levels seen in 1993–1997 attributable to a clonal strain of serogroup B *Neisseria meningitidis*. Respiratory secretions and droplets continue to be shared among Oregonians and predispose us to secondary cases.

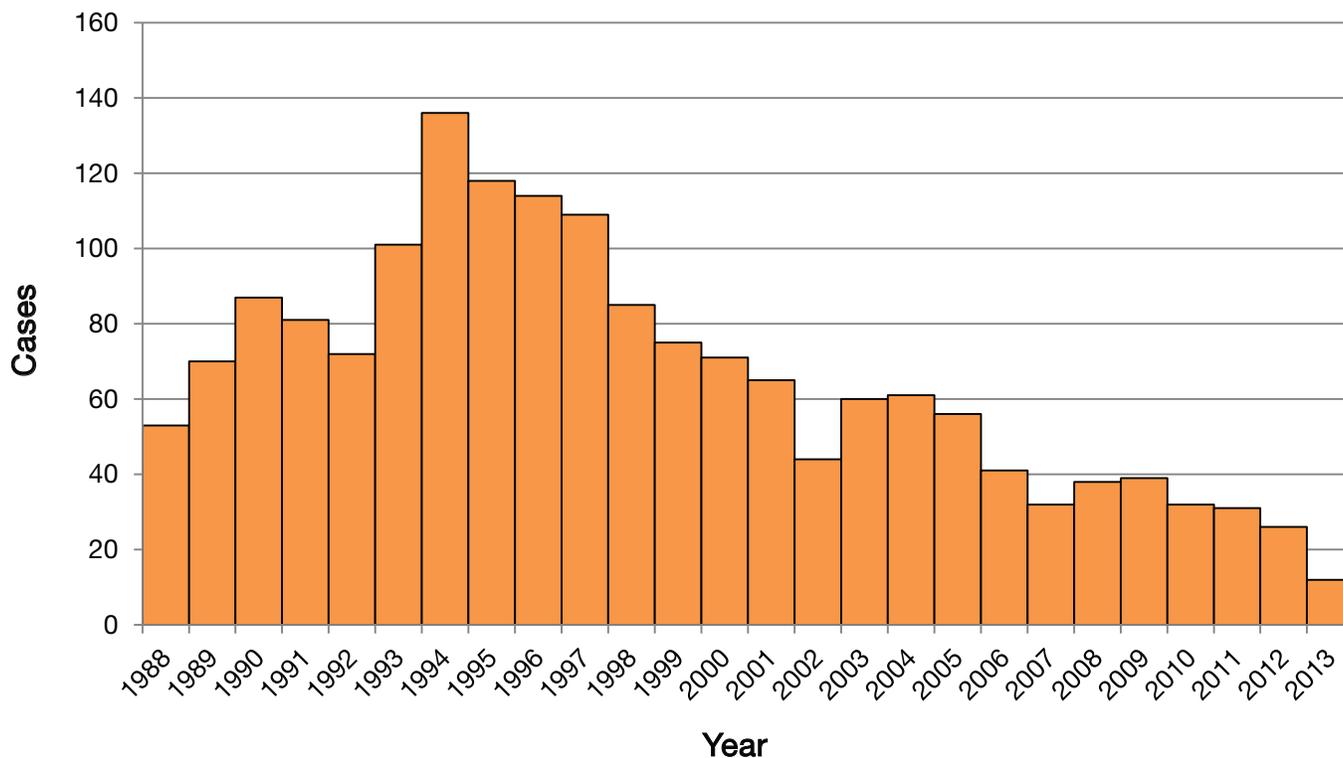
In 2013, there were 12 reported cases and two deaths from meningococcal disease in Oregon. From the early 1990s through 2011, serogroup B predominated in Oregon, but in 2011 and again in 2013, other serogroups have

been more prominent. In 2013 serogroup C accounted for 50% (5) of the serogrouped cases, whereas 30% (3) of cases were serogroup B.

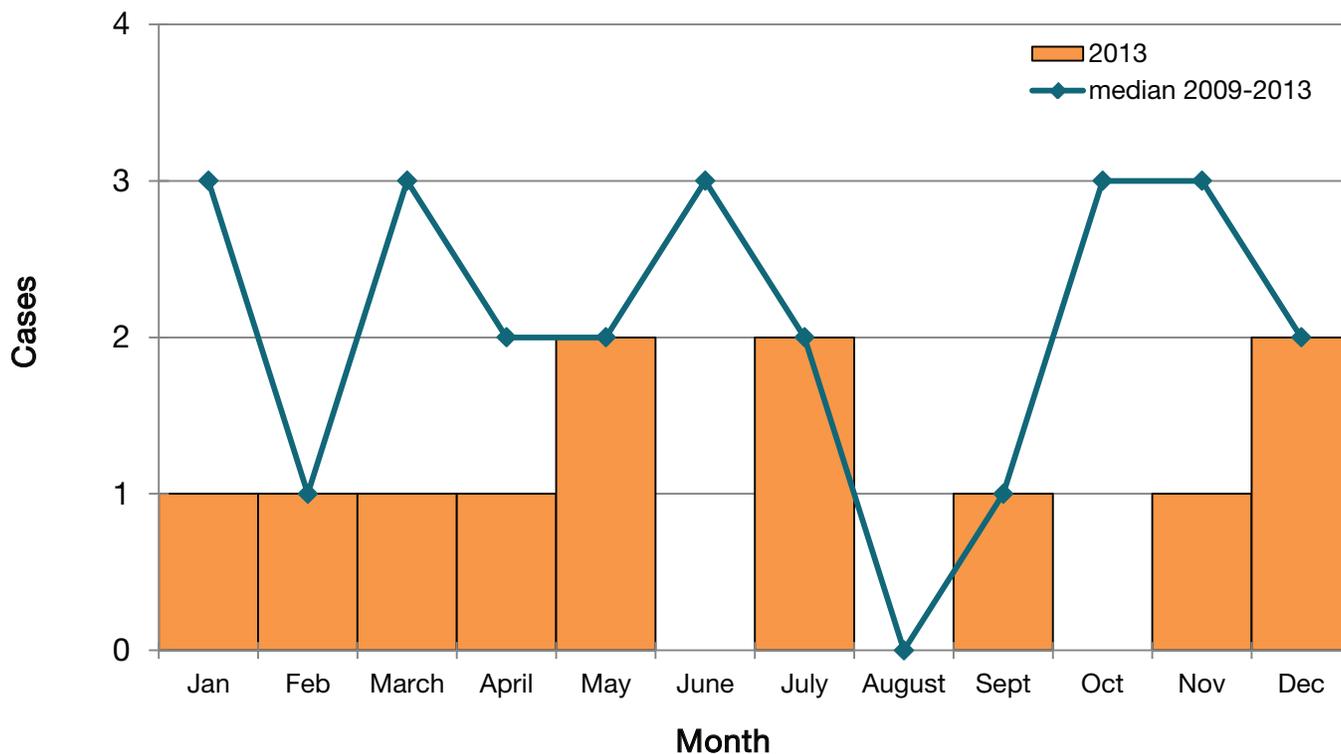
The burden of meningococcal disease was highest in those >5 years of age (41/100,000), followed by those aged >80 years (22 /100,000). Meningococcal disease is treated with intravenous antibiotics.

The quadrivalent (serogroups A, C, Y and W-135) meningococcal conjugate vaccine is recommended routinely for adolescents 11–18 years of age and for other persons at high risk for meningococcal disease. The vaccine does not protect against serogroup B disease.

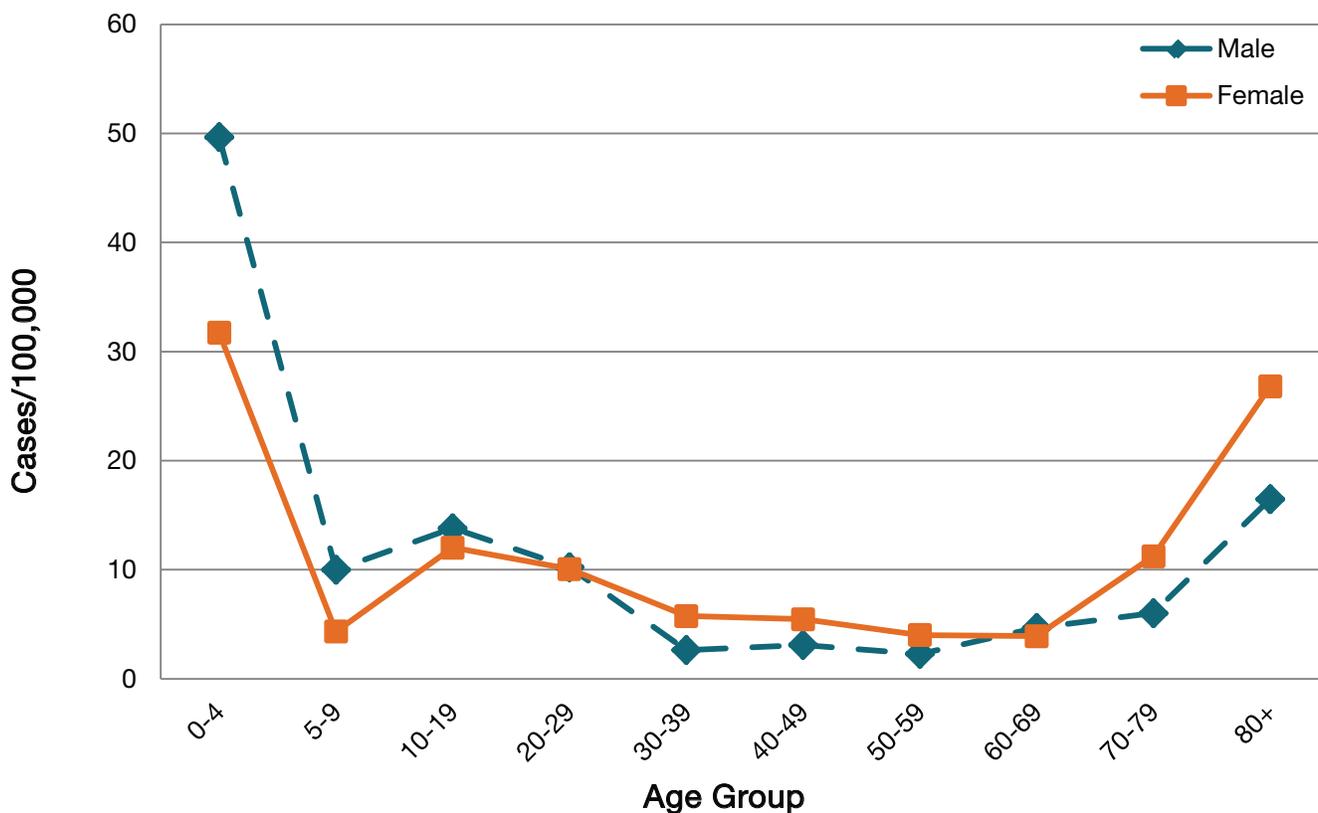
Meningococcal disease by year: Oregon, 1988–2013



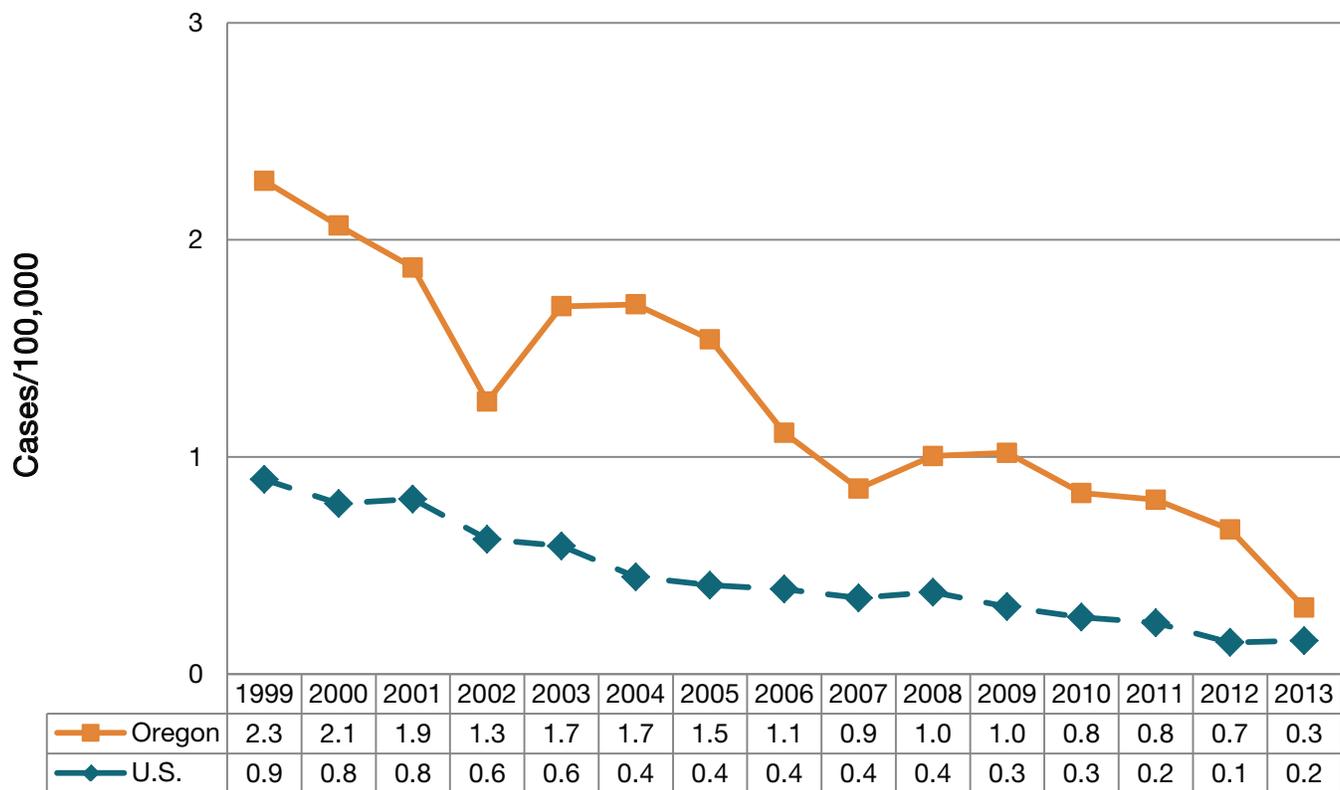
### Meningococcal disease by onset month: Oregon, 2013



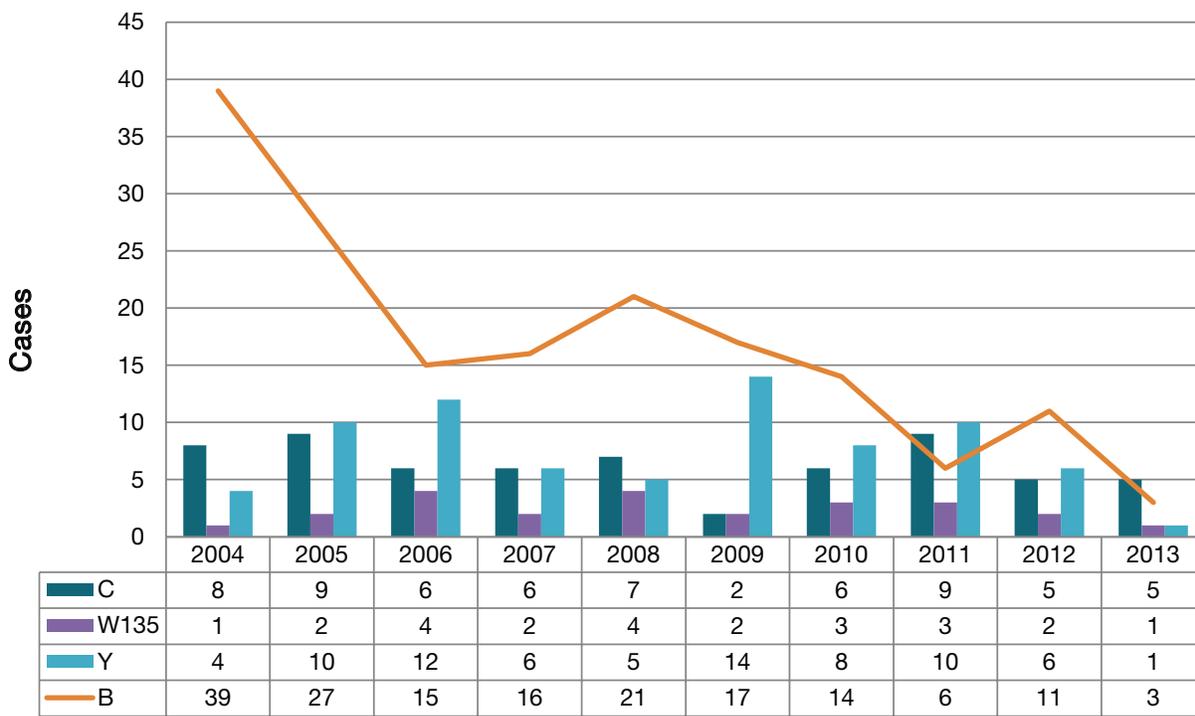
### Incidence of meningococcal disease by age and sex: Oregon, 2004–2013



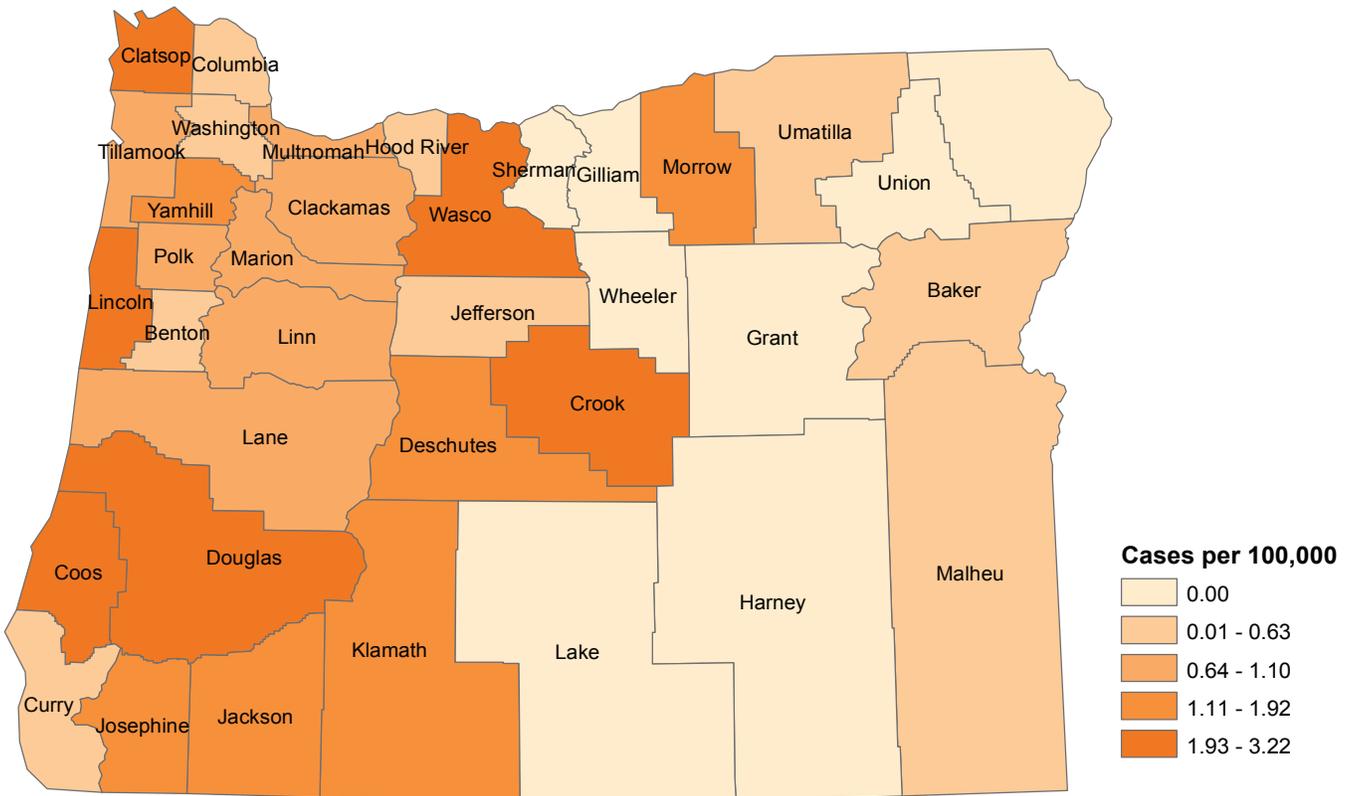
### Incidence of meningococcal disease: Oregon vs. nationwide, 1999–2013



### Meningococcal disease by serogroup: Oregon, 2004-2013



Incidence of meningococcal disease by county of residence: Oregon, 2004–2013



**Prevention**

- Vaccinate to prevent illness from serogroups A, C, Y and W-135.
- Identify and recommend prophylaxis of close contacts of confirmed and presumptive cases.
- Avoid smoking and exposing children to tobacco smoke, which have been associated with an increased risk of invasive meningococcal disease.