

## *Haemophilus influenzae* infection

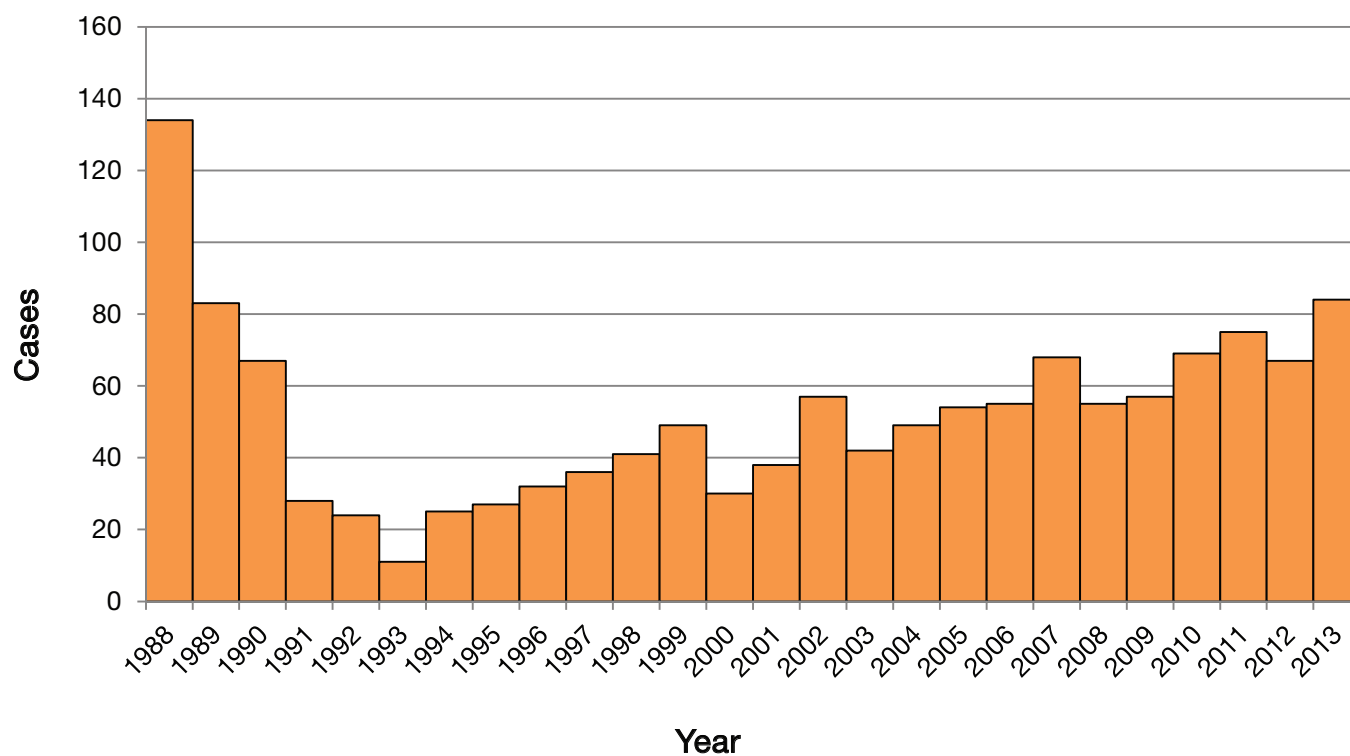
Until the advent of an effective vaccine against *Haemophilus influenzae* serotype b (Hib) organisms, *H. influenzae* was the leading cause of bacterial meningitis in children <5 years of age in Oregon and elsewhere. It plummeted in the rankings, and *Streptococcus pneumoniae* is now in the lead. In 2013, Hib was cultured from sterile body fluids of four Oregonians. One of the Hib cases was a child that was not fully immunized. The remaining three cases were among persons >60 years of age. Appropriate use of conjugate vaccine will help ensure that Hib infection remains minimal well into the future. All sterile-site *H. influenzae* isolates must be sent to the Oregon State Public Health Laboratory for additional typing.

Eighty-four cases of invasive *H. influenzae* disease (IHiD, all serotypes) were reported

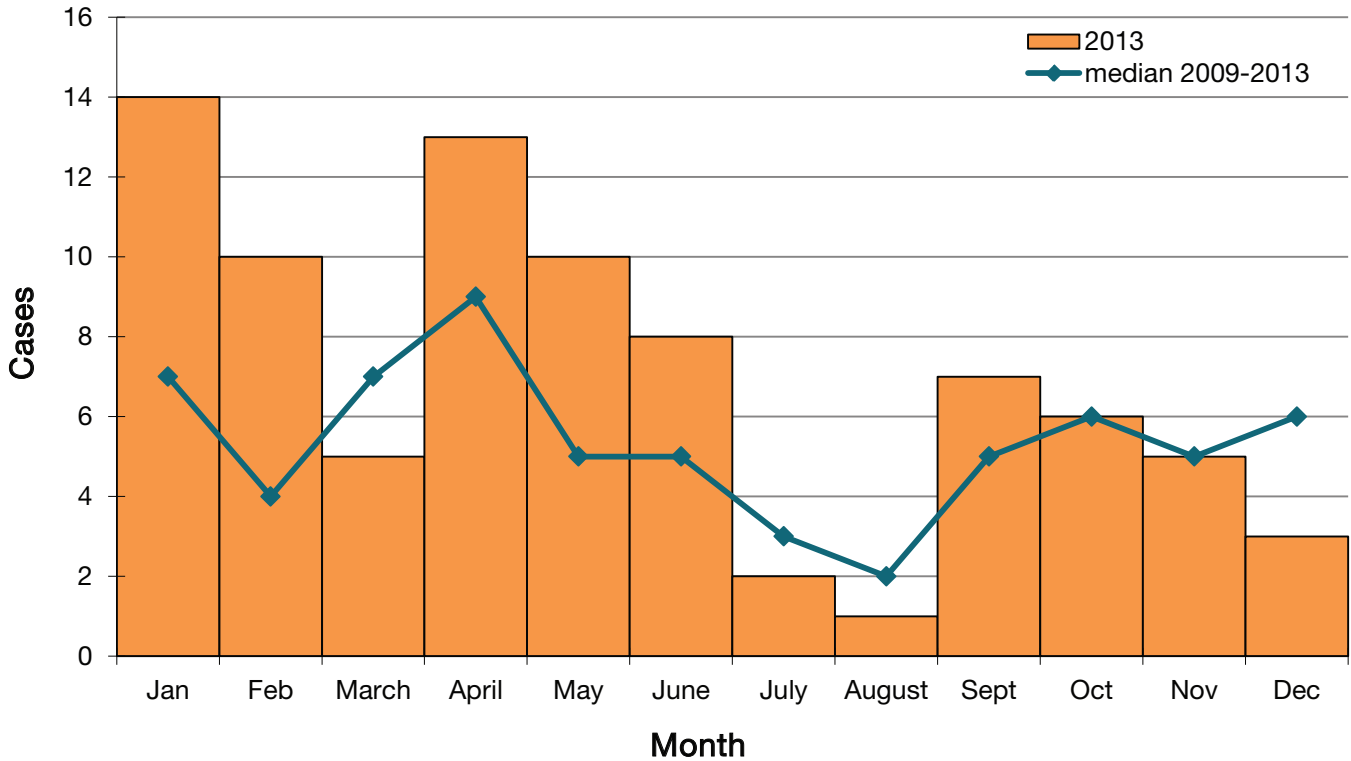
in 2013. With the decline in invasive Hib disease in children, there has been increased recognition of nonserotype b and nontypeable cases in persons >5 years of age, especially among those >65 years of age. In 2013, 68% of cases were nontypeable, 17% were identified as serotype f, 8% serotype a and the remaining cases were other serotypes. The burden of IHiD in 2013 was highest (12.3/100,000 persons) among those >80 years of age, followed by those 60–69 years of age (5.5/100,000 persons). *Haemophilus influenzae* is treated with antibiotics. In 2013, the top two clinical syndromes of invasive IHiD reported in Oregon were bacteremia (55%) and pneumonia (43%). Ninety-four percent of cases were hospitalized. There were 11 deaths related to IHiD infection.

Peak incidence tends to occur in late winter and early spring.

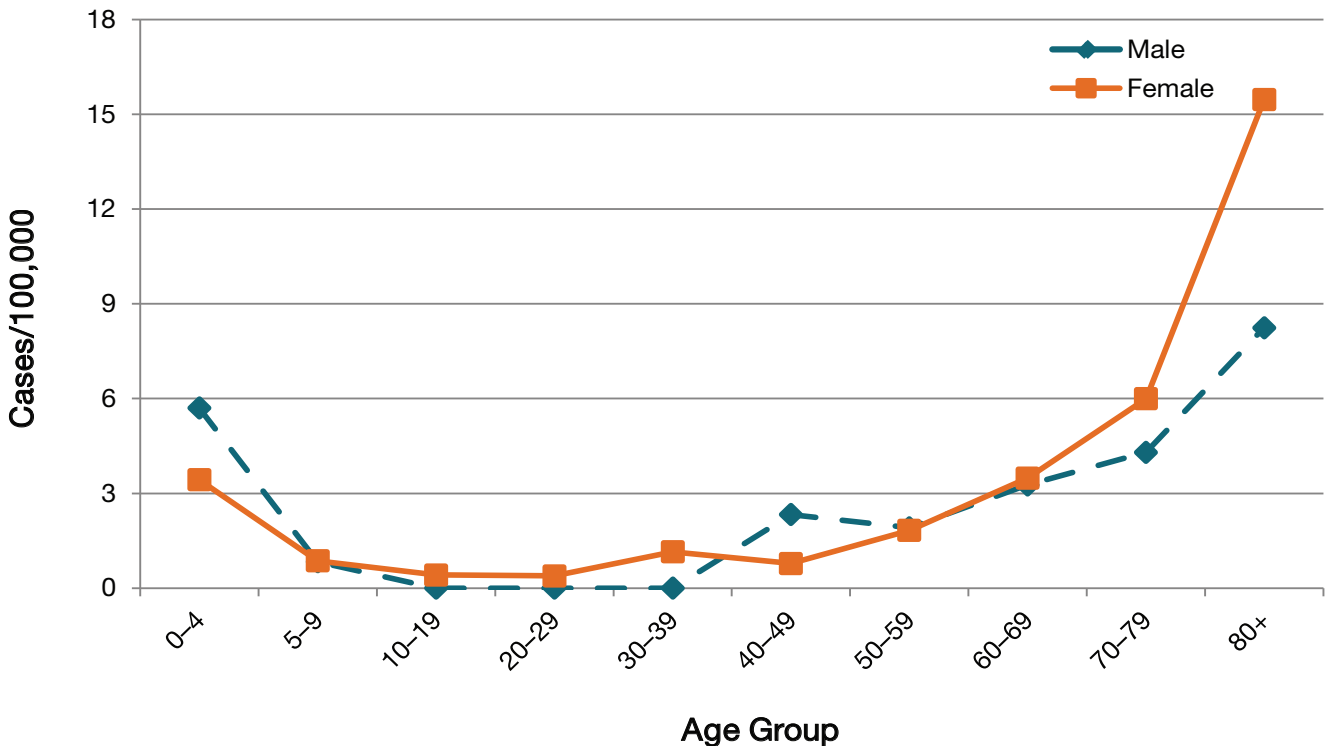
### *H. influenzae* infection by year: Oregon, 1988–2013



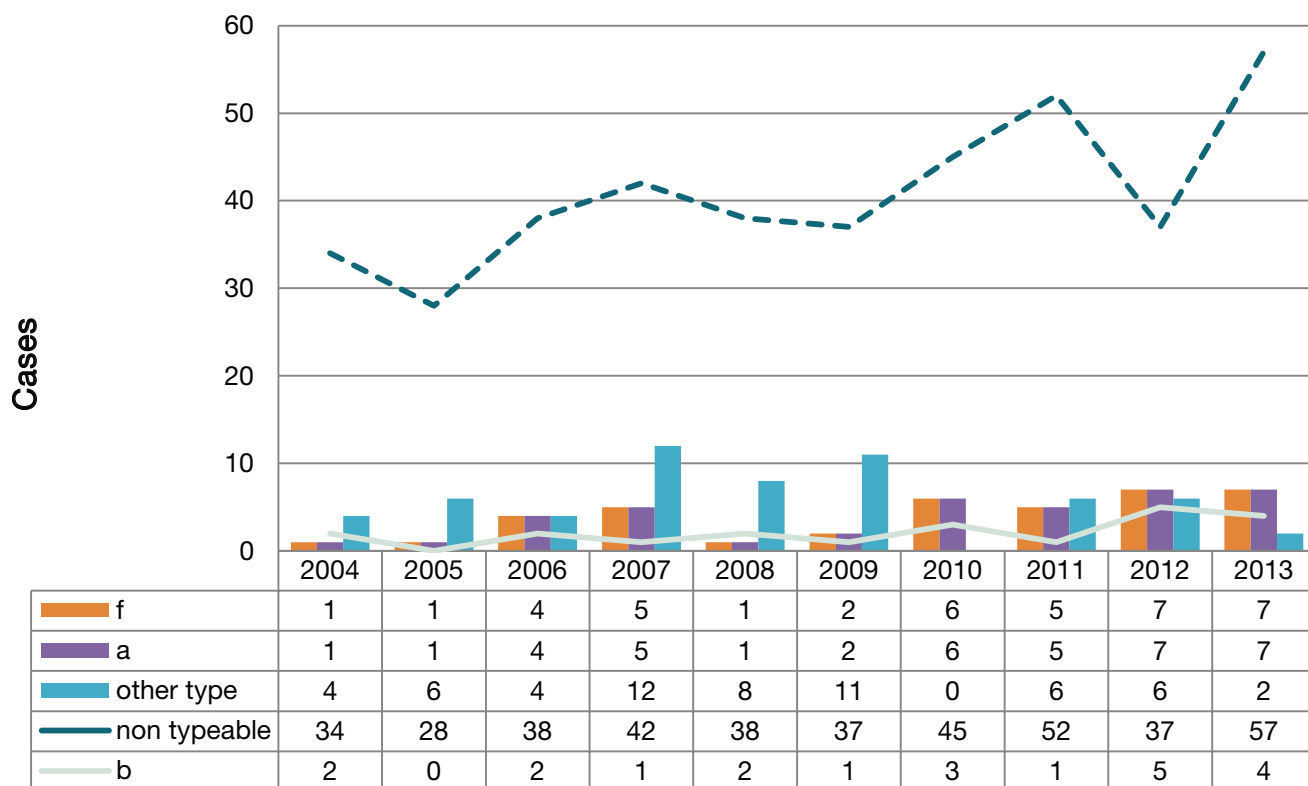
*H. influenzae* infection by onset month: Oregon, 2013



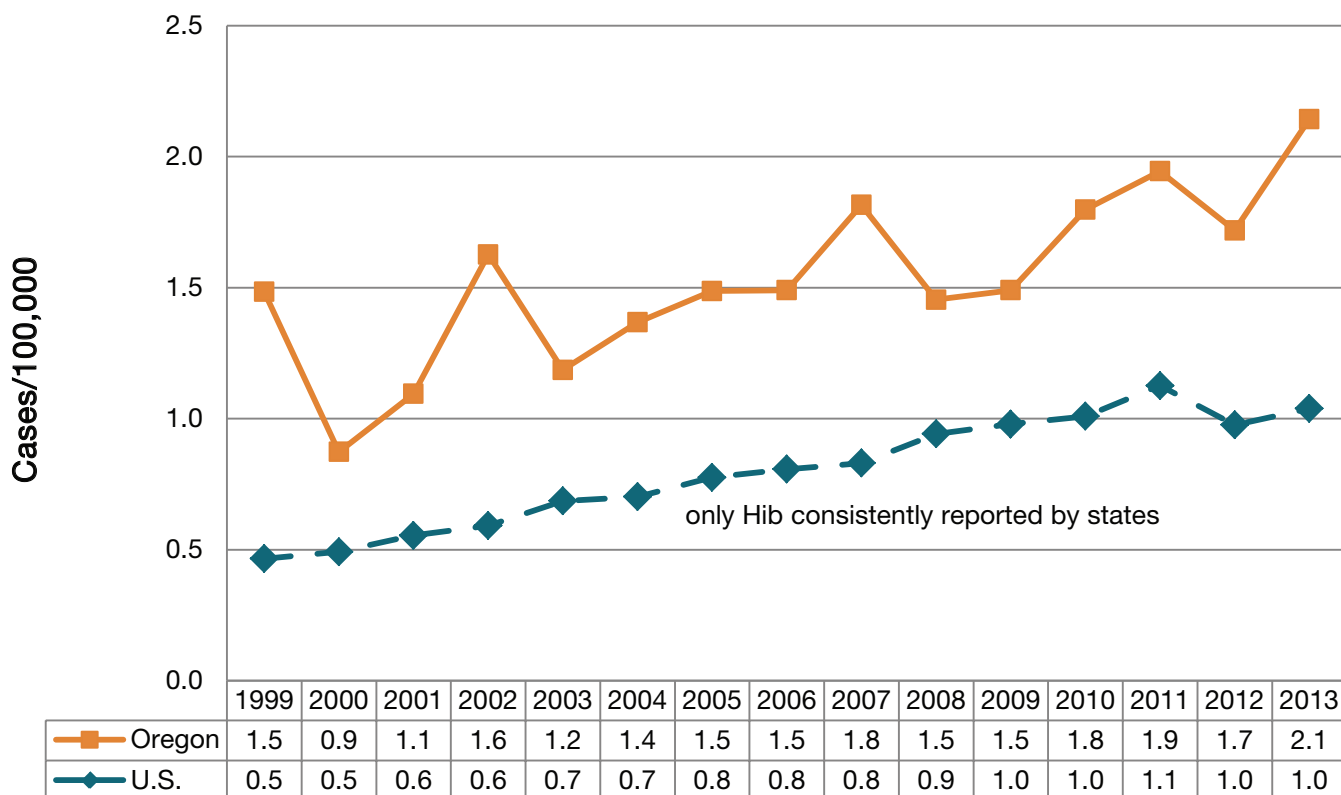
Incidence of *H. influenzae* infection by age and sex: Oregon, 2013



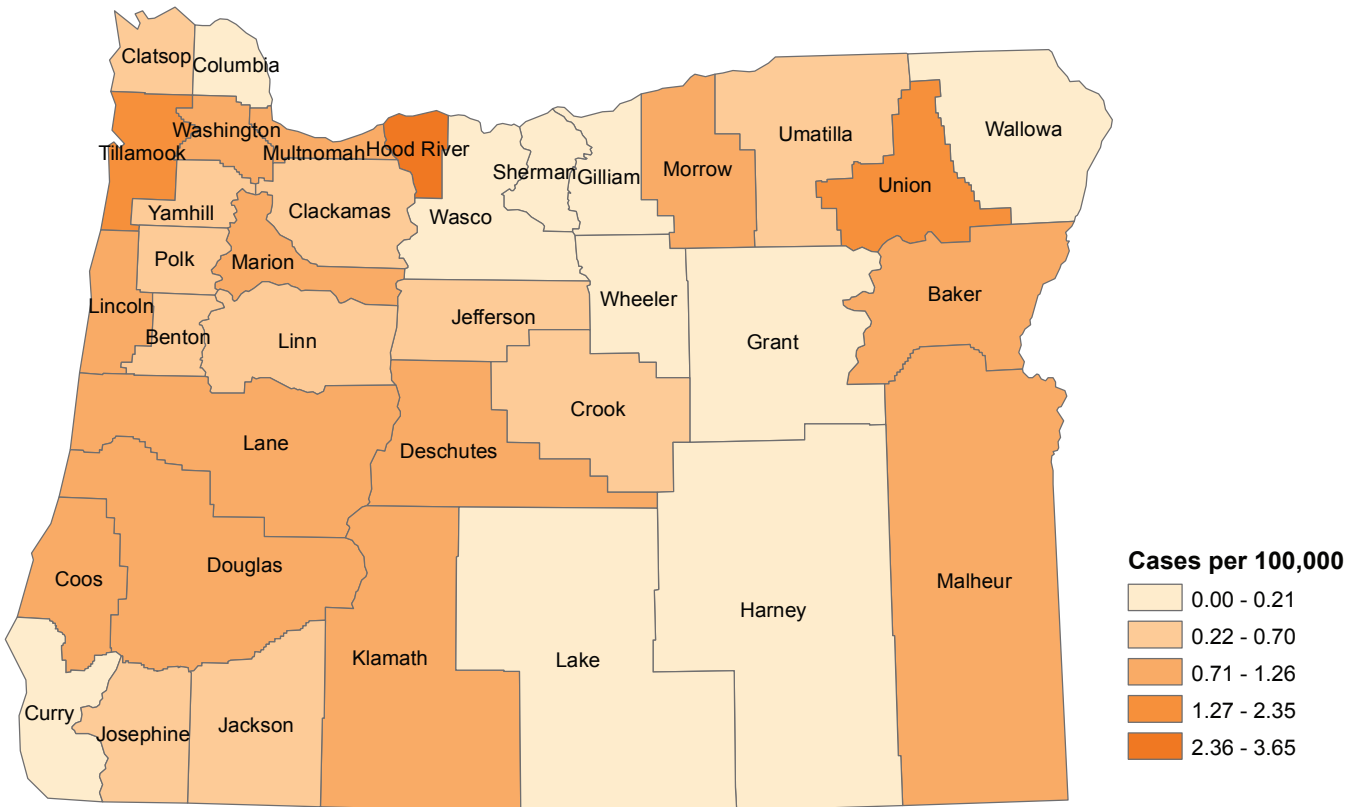
### H. influenzae infection by year and serotype: Oregon, 2004–2013



### Incidence of H. influenzae infection: Oregon vs. nationwide, 1999–2013



Incidence of *H. influenzae* infection by county of residence: Oregon, 2004–2013



**Prevention**

- Vaccinate all children against Hib at 2, 4, 6, and 12–15 months of age.
- Cover your cough and wash your hands.
- Close contacts of Hib cases can be treated prophylactically to prevent infection.