

























8





Bayes Example: Diagnosing Meningitis
P(H_i | E_j) = P(H_i)P(E_j | H_i)/P(E_j)
Your patient comes in with a stiff neck.
Is it meningitis?
Suppose we know that

Stiff neck is a symptom in 50% of meningitis cases
Meningitis (m) occurs in 1/50,000 patients

- Stiff neck (s) occurs in 1/20 patients
- So probably not. But specifically?



























































































































































