

Using EBM to assess questions about diagnosis Diagnostic process involves logical reasoning and pattern recognition Consists of two essential steps Enumerate diagnostic possibilities and estimate their relative likelihood, generating *differential diagnosis*Incorporate new information from *diagnostic tests* to change probabilities, rule out some possibilities, and choose most likely diagnosis Two variations on diagnosis also to be discussed – Screening

- Clinical prediction rules

Component 2 / Unit 5-4

Health IT Workforce Curriculum Version 2.0/Spring 2011

2

Diagnostic (un)certainty can be expressed as probabilities

- Probability is expressed from 0.0 to 1.0

 Probability of heads on a coin flip = 0.5
- · Alternative expression is odds
 - Odds = Probability of event occurring / Probability of event not occurring
 - Odds of heads on a coin flip = 0.5/0.5 = 1
- Rolling a die

Component 2 / Unit 5-4

- Probability of any number = 1/6
- Odds of any number = 1/5

Health IT Workforce Curriculum Version 2.0/Spring 2011













