





Methods of Assessment (cont'd)

- Example: Future Demand = f(variables) + error
- Performance in 10 years of a new technology Major War in the Middle East

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## Application of Likelihood Ratios (cont'd)

- Picking up 5 bottles at random from a machine, we find {2 cracked, 3 uncracked}. What is the Prob(machine defective) LRo = P(D) / P(OK) = 0.1/0.9 = 1/9CLRc = 0.2/0.05 = 4CLRuc = 0.8/0.95 = 16/19LR5 =  $(1/9) (4)^2 (16/19)^3$ 
  - P(D/{2C, 3UC}) = 0.52

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