

Lecture 16 and 20 – Cost-effectiveness of screening and Clinical Trials

1. Lecture 16: Chapter 11 Homework Problems 2 and 7.
2. Calculate the mean, mode and standard deviation of the following data set recording the number of days pediatric patients experienced diarrhea from the disease *C. difficile*.

Data: 3; 11; 3; 4; 14; 2; 4; 5; 3; 3; 11; 2; 2; 3; 2; 1; 1; 7; 2; 1; 1; 3; 2

Data from: Jordan G. Spivack, Stephen C. Eppes, and Joel D. Klien, “*Clostridium Difficile* – Associated Diarrhea in a Pediatric Hospital,” *Clinical Pediatrics*, 42 (2003), 347-352

Problem adapted from: Daniel, Wayne D. *Biostatistics*. 8th ed. Hoboken, NJ: John Wiley & Sons, Inc. 2005

3. How many patients are required for a clinical trial, given the following information:
 $p = 0.01$
 $\beta = 0.1$
 Treatment Expected Outcome: 40%
 Control Expected Outcome: 30%

Use the worksheet provided on the following page.

Standardized
difference

Power

