


Lecture 3c: Practice Problems: John McGready



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Practice Problems

1. Suppose a study were conducted to examine the relationship between Vitamin C and the common cold
 - Of a total of 20 subjects, 10 are randomized to take vitamin C for one month, and 10 to take a placebo
 - At the end of the one-month period, subjects are asked detailed questions about the presence of cold symptoms during the month and then classified as having had a cold or not (one subject in the vitamin C group was classified as having had a cold, as were three subjects in the placebo group)

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Practice Problems

1. What is the estimated risk difference of getting a cold for the Vitamin C group as compared with the placebo group?
2. What group sizes would be needed to do a study with $\alpha = .05$ and 80% power to detect the difference from (1)?

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