Homework for Math 664. Due February 27, 2009

#3.15.

1. State your null and alternative hypotheses.

2. Give the test value and the corresponding p-value.

3. Draw conclusion for your test. Use alpha = 0.02. Give reason for your answer.

4. Interpret the conclusion in the context of the problem at hand.

#3.17.

1. Analyze the odds ratio and relative risk between Temperature control and Colds for Smokers and also for Non smokers at alpha = 0.05 and report the p-value for each case as done in the Cody and Smith textbook. Draw conclusions.

2. Then, report the Cochran-Mantel_Haenszel Statistics based on table score and the corresponding p-value. Draw conclusion.

3. Analyze the common odds ratio and relative risk between Temperature control and Colds at alpha = 0.05 and draw conclusion.

4. Finally, conclude if it is okay to combine the two tables adjusting for the confounding factor smoking.