**BIOST 514/517**

**Discussion Section: Week 6**

**Inference on Proportions**

**R Exercises**

Instructions

*These exercises use the inflamm dataset, that is supplied on the Canvas webpage.*

**Exercises**

1. Read in the data and make a new data frame object that does not contain any missing values for smoker.
2. Compute the frequency of smokers who died and non-smokers who died in the analysis dataset and the respective sample proportions.
   1. Extra credit: Read about the table() function and use it to compute the frequencies.
3. Assess if we can use the normal approximation for performing inference on the proportion who died among smokers.
   1. Hint: Use the rule of thumb for normal approximations
4. Regardless of your conclusions above, present and interpret a confidence interval for the population proportion who died among smokers.
5. Present and interpret the p-value for testing if the population proportion who died is the same between smokers and non-smokers based on these data.