

Wednesday 6th November

Practical: Analysis and Reporting

1. What is the purpose of the “Statistical Analysis Plan”?
2. What is the difference in between an Intention-to-Treat analysis and Complete Case analysis?
3. For a trial where the primary outcome is proportion of participants who are abstinent from Heroin in the control and treatment arm
 - a. Which statistical parameters would you use for the summary statistics?
 - b. Which statistical tests could you apply to the data to get estimates of effect?
4. What is the difference between clinical significance and statistical significance?
5. A randomised clinical trial was conducted to evaluate the effectiveness of a cognitive behavioural therapy against treatment as usual for a group of participants with general anxiety disorder. The primary outcome is a scale designed to measure anxiety. The mean difference between the groups on the anxiety is 2 points with a 95% confidence interval from 1.97 to 5.42. What would be the conclusions of this trial be?
6. When you examine your trial data you find that the outcome distribution is skewed and does not look normally distributed. Do you have ideas on how you could approach this problem?