

Biostatistics Study Guide

Learning Objectives

- Determine if a variable is nominal, ordinal, interval, or ratio
 - *Definition:* variable is anything that is observed/measured in a clinical experiment
 - **Nominal:** categories in no particular order, ex. Race, gender
 - **Ordinal:** categories in order, but the distances between values are not equal, ex. Stages of cancer
 - **Interval:** continuous data, equal distances between values, but zero point is arbitrary, ex. temperature
 - **Ratio:** continuous data, equal distances between values, but zero is a true zero (most common number-based value), ex. Height, weight
- Recognize dichotomous and continuous endpoints
 - **Dichotomous endpoints:** nominal data with only 2 options – reported as n (%)
 - **Continuous endpoints:** usually reported as mean $\pm$ standard deviation (or median $\pm$ interquartile range)
- Given a mean and SD of a normally distributed sample, calculate the range that 95% of the data points lie between
 - Measures of dispersion: how closely data cluster around the measure of central tendency
 - Interquartile range: difference between 25th and 75th percentiles
 - Advantage = not affected by outliers
 - Standard deviation: estimates data variability by the scatter of data points about the sample mean
 - Mean $\pm$ 2 SDs = range of values that 95% of the data points lie between
- Interpret a p value, with respect to the alpha of the study and risk of type I error
 - **Type I error:** false positive (false statistically significant difference)
 - **Alpha:** the acceptable probability that the difference seen between the experimental and control groups is due to chance alone, (usually 0.05 or 5%)
 - **P value:** the actual probability that difference seen in experimental and control groups is due to chance alone - after data are collected
- Given clinical study results, identify statistically significant differences between groups
 - If the p value is $<$ alpha, the difference seen is statistically significant (or not due to chance alone)
- Explain how various factors affect the power of a study
 - Sample size increases, power increases
 - Study duration increases, power increase

Biostatistics Study Guide

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