

Hypothesis Testing

Lecture 9

I. Objectives

At the end of this series of lectures you should be able to:

- A. Define terms
- B. Develop good hypothesis sets
- C. Explain statistical errors (Type I and Type II) and statistical power.
- D. Choose between one-tailed and two-tailed tests.
- E. Use the ten-step procedure to setup problems.

II. Key Concepts and Terms

Alternate hypothesis
Critical value
Descriptive statistics
Effect size
Exclusive
Exhaustive
Hypothesis sets
Inferential statistics
Null hypothesis
One-tailed
Power
Significance level
Truncated hypothesis set
Two-tailed
Type I error
Type II error
 α
 β
 H_0
 H_A