Weeks 5 & 6 Review

Cindy J. Pang

BIOSTAT 100A Summer Session C 2024

September 11, 2024

Errors in Hypothesis Testing

- Type I Error/α-Error/Consumer Risk

- Type II Error/β-Error/ Producer Risk

    - β depends on:
        - (1)

        - (2)

        - (3)

Two Sample Problems

- Goal of Two Sample Problems:
  - (1)
  - (2)

- Types
  - 1.
  - 2.
    - Unpaired is more likely to reject but why should we still use a paired test?

    - Situations where we do matched-pairs in clinical research:
      - 1.

      - 2.

Two-Sample Problems	Independent Groups		Dependent Groups (Matched Pairs)
	σ_1^2, σ_2^2 Known	σ_1^2, σ_2^2 Unknown	
Hypotheses			
Data			
Assumptions			
Test Statistic			
Confidence Interval			