

# Multiple

# Comparisons

## Agenda

- PS4
  - simulating CIs w/ design  $r_{bi}$
- Multiple Comparisons
  - Bonferroni Correction
  - Holm's Procedure

# PS4 Advice

① Understand the goal.

① Use `designrbi`

② Use `future.apply`

③ Start sim w/ no reps and iter

[slides]

# Types of Errors

Per Comparison error rate

Strong familywise Error Rate

# Bonferroni Correction (1936 Carlo Bonferroni)

Proof:

[slides]