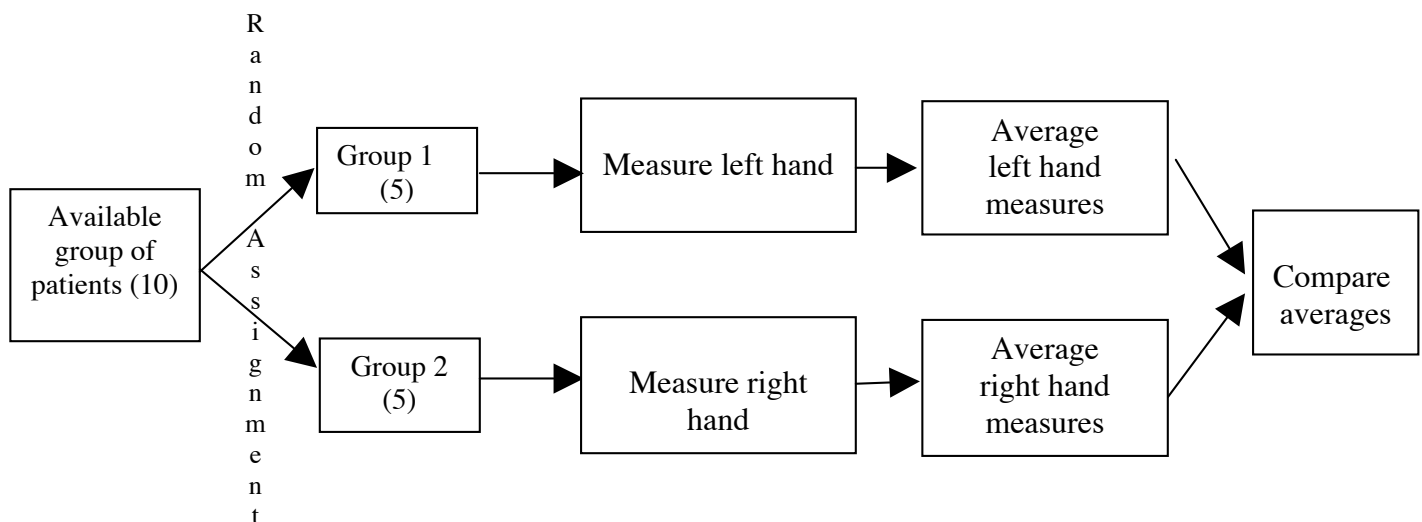


Sheet 611: Completely Randomized versus Matched Pairs Experiment

Comparing Hand Ability: Is the right hand generally better than the left in right-handed people? (Lefties could be included if we keep track of dominant vs non-dominant hands.) Do an experiment to measure the performance of the two hands. Examples: strength (squeezing a bathroom scale), agility (clicking on dots at <http://faculty.washington.edu/chudler/java/rldot.html>), writing (write the letter of your last name over and over on a square grid), or some other activity.

1. Diagram a *completely randomized experiment* to compare the strength of the right and left hands, using 10 right-handed people as subjects.
2. Diagram a *matched pairs experiment* to compare the strength of the right and left hands, using 10 right-handed people as subjects.
3. Which of the two designs is appropriate? Why.

Completely Randomized Experiment



Matched Pairs Experiment

