

Research Methods

Counterbalancing Assignment (*10 points*)

You want to conduct an experiment to test the effect of a new drug for treating children with attention deficit disorder. You have decided to test six different amounts of the new drug-5, 7, 9, 11, 13, and 15 mg. The parents of 40 children with attention deficit disorder have volunteered their child to participate in the study.

You know that using this procedure might result in either carryover or order effects, so you want to counterbalance the order of presentation of the six dosages. Construct the different counterbalanced order of treatment conditions using the incomplete counterbalancing technique in r markdown.