

SOLOMON FOUR GROUP DESIGN

A Pre-Test / Post-Test Design that Randomizes
Participants into Four Groups:

Pretest
Treatment
Post-Test

1

- Compared to group 2 to assess for treatment effect.
- Statistical analysis assesses change in pre and post test score for each individual.

Pretest
No Treatment
Post-Test

2

- Compared to group 1 to assess for treatment effect.
- Statistical analysis assesses change in pre and post test score for each individual.

No Pre-Test
Treatment
Post-test

3

- Compared to group 4 to assess for treatment effect.
- Statistical analysis assesses difference in post-test score between the two groups.
- Compared to group 1 to assess for pretest sensitization.

No Pre-Test
No Treatment
Post-Test

4

- Compared to group 3 to assess for treatment effect.
- Statistical analysis assesses difference in post-test score between the two groups.
- Compared to group 2 to assess for pretest sensitization.

ADVANTAGES

- Increases internal validity
- Simple to implement
- Easy to document methodology
- Assesses for pre-test sensitization
- Comparison of groups 1/2 and 3/4 can be combined using meta-analytic techniques for additional power.

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