Quiz Day 3

EGAP Latin America Hub Learning Days

09 August 2023

Question 1

I am conducting a study and need to send an informational email to exactly 100 participants, with the rest (the other 100) receiving a control email. The only information I have about these participants is their email addresses. Should I randomize using simple, complete, blocked, and clustered random assignment?

Question 2

		Cash	
		$X_1 = 0$, *nocash*	$X_1 = 1$, *cash*
Information	$X_2 = 0$, *Placebo*	A	C
	$X_2 = 1$, *Information*	B	D

I have the following factorial design. I want know what is the effect of:

1. Getting cash and information vs neither;
2. The effect of cash vs no cash;
3. Among people who didn't get cash, the effect of getting the information vs not

For each, what comparisons should I make between A B C and D?

Question 3

Compare two experiments, one of which uses block random assignment and one of which uses cluster random assignment. Which one is which?

a. In a district with 100 villages each with 100 people in them, I randomly assign 50 people per village to treatment and 50 to control.

b. I randomly assign 100 people per village to treatment and 0 to control or 100 people per village to control and 0 to treatment.

Question 4

Spillovers are a type of threat to internal validity of an experiment. Does this refer to:

a. The effect of participating in an experiment on others who are not participating in the experiment
b. The effect of a treatment on those in another treatment arm in the experiment
c. The effect of a treatment on participants in another experiment
d. The effect of a treatment on participants when they have left the experiment

Question 5

A researcher uses randomizr to assign treatment to half of the sample. Using some baseline demographic data she then assesses whether the randomization resulted in a balanced sample. She finds that the sample is not balanced on gender and decides to re-randomize treatment until all covariates are balanced.

- What is your response to this practice?