Bookmarks

- Module 1: The Basics of R and Introduction to the Course
- Entrance Survey
- Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions
- Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates
- Module 4: Joint, Marginal, and Conditional Distributions &

Module 12: Endogeneity, Instrumental Variables, and Experimental Design > Experimental Design > Sub-treatments and Sample Size - Quiz

Sub-treatments and Sample Size - Quiz

Bookmark this page

Question 1

0/1 point (graded)

What should your sample size ideally be when you have many sub-treatments? (Select all that apply)

- [ ] a. Sample size is irrelevant
- [ ] b. Large enough sample size to test treatment vs. control
- [x] c. Large enough sample size to test the effect of each sub-treatment separately with respect to the control
- [ ] d. Large enough sample size to test interactions

✖

Explanation

One needs more power to test the sub-treatments than one would need to simply do a treatment vs. control comparison, so ensuring that your sample size is large enough to test each separately compared to the control. Ideally, you can also power the experiment to compare all treatment groups

to each other (interactions).

Submit You have used 2 of 2 attempts

✖ Incorrect (0/1 point)

Question 2

1/1 point (graded)

In the Indonesia rice example, there is enough power to: (Select all that apply)

- [x] a. Test treatment vs. control
- [x] b. Test the effect of each sub-treatment
- [ ] c. Test interactions
- [ ] d. Test some interactions.

✔

Explanation

Professor Duflo mentioned they have enough power to test the effect of each sub-treatment. Since this requires more power than testing treatment vs. control, they will also have enough power to test treatment vs. control. Testing interactions requires more power and the experiment was not

designed to have sufficient power to do so.

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Discussion

Topic: Module 12 / Sub-treatments and Sample Size - Quiz

Show Discussion