SUTVA - Quiz

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Question 1

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Which of the following are required by the meaning of the Stable Unit Treatment Value Assumption (SUTVA)? (Select all that apply.)

- [x] a. The treatment assignment for each unit does not impact outcomes for other units
- [ ] b. The treatment assignment for each unit takes into consideration the outcomes for other units
- [x] c. Each unit is assigned just one treatment (even if there are several versions of treatment across individuals)
- [x] d. There is only one form of “treatment”

✖

Explanation

A and C are correct. The stable unit treatment value assumption requires that the treatment assignment for any given unit does not impact the outcomes for any other units. For example, if I take a pill, that has no impact on your decision to take a pill or whether you have a headache or not. The second part of the stable unit treatment value assumption is that each unit receives just one value of

the treatment. It could still be the case that there are several treatments, for example, in the case where you have a control group and three treatment arms, but SUTVA requires that each person be assigned to just one of those distinct treatment groups.

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Question 2

0/1 point (graded)

Which of the following examples might violate the Stable Unit Treatment Value Assumption (SUTVA)? (Select all that apply.)

- ☑ a. An experiment where the treatment is that some children are provided deworming medication, which could have some benefits that spill over to other children
- ☑ b. An experiment with a control group and three treatment arms
- ☑ c. An experiment where the treatment group is provided with information, which they share with others in their village who change their behavior in response
- ☑ d. An experiment where individuals are assigned to a treatment group, but then moved over to the control group midway for administrative reasons

✖

Use of Randomization and Nonparametric Regression
due Nov 21, 2016 05:00 IST

Module 8: Homework
due Nov 14, 2016 05:00 IST

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- Exit Survey

Explanation

A, C, and D would all violate SUTVA. In the case of A and C, the treatment assignment for some units impacts outcomes for other units. In the case of D, some of the units are assigned a combination of treatment and control assignment over time, which violates the requirement that individuals are assigned to just one treatment condition.

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Discussion

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Q2 - B

discussion posted 11 days ago by **Xavier_Arque**

Option B is way to open, I guess the text should clarify either you assign people to just one of those distinct treatment groups or not.

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1 response

Roman-Andres-Zarate **Staff**

9 days ago

I think that the question is fine given the content of the lecture, but we will include that all the treatments are mutually exclusive next times we run the course. Thanks for your feedback!

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