

MITx: 14.310x Data Analysis for Social Scientists

Heli



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SUTVA - Quiz

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Question 1

0/1 point (graded)

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

- 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
- c. Each unit is assigned just one treatment (even if there are several versions of treatment across individuals)
- ☑ 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

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Causality

due Nov 21, 2016 05:00 IST

Analyzing Randomized Experiments

due Nov 21, 2016 05:00 IST

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.

Submit

You have used 2 of 2 attempts

★ Incorrect (0/1 point)

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 Ø.

due Nov 21, 2016 05:00 IST

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

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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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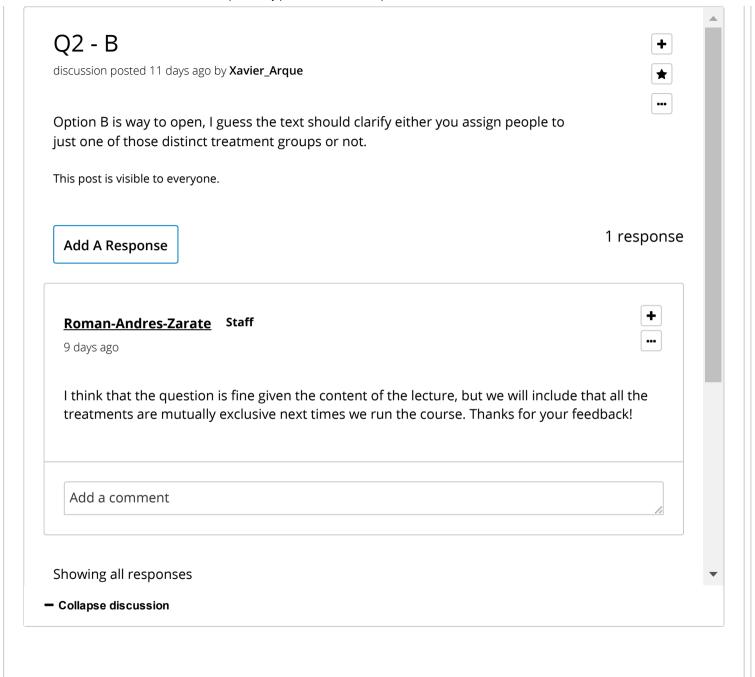
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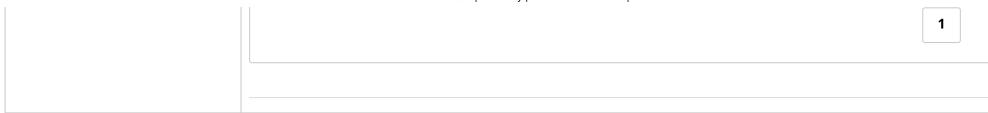
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