Quiz notes matching

08.05.21 12:

- (Mean) differences (Smd) can take place wio wing the outcome variable?
 - TRUE
- Q2) Optimal matching is less comp. demanding than greedy matching?
 - FALSE
- (23) A smaller value of the calliper would tend to lead to:
 - -> Smaller standardited differences (smd)
 because pairs w/ bad match (i.e. large
 difference would be dropped)
- Q4) Many-to-1-matching as opposed to pair-matching (1-to-1) would tend to lead to estimates of causal effects w/:
 - we end up with more to tail # samples
 When using many-to-1 matching.
- Q5) Method for assessing the impact of violations of the causal assumptions (esp. ignorability assumption) is:
 - sensitivity analysis
- Q6) Standardited differences (i.e. smd) is very sensitive to sample site n:

Note that
$$Sind = \frac{X_{freel} - X_{control}}{\sqrt{\frac{s_{freel}^2 + s_{control}^2}{2}}}$$

is independent of n!

- answer: FALSE.

Sind =
$$\frac{\overline{X}_{\text{treat}} - \overline{X}_{\text{control}}}{\text{probed std}} = \frac{\overline{X}_{\text{treat}} - \overline{X}_{\text{control}}}{\sqrt{\frac{S_{\text{tr}}^2 + S_{\text{con}}^2}{2}}}$$