

Quiz notes propensity score matching

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Q1) Prop. score is:

→ prob. of treatment given covariates

$$\pi = P(A=1|X)$$

Q2) Trimming the tails involves:

→ excluding subjects w/ extreme values of the propensity score

Q3) If the prop. score is exactly equal to 0 or 1 for some subjects, which causal assumption is then violated? :

→ positivity assumption

Q4) Prop. score matching involves the following steps in order:

- 1. Estimate propensity scores
- 2. Check propensity score overlap
- 3. Match on propensity score
- 4. Check covariate balance

Q5) If we use a caliper on the propensity score of 0.1, then:

→ then matches will never differ in the propensity score by more than 0.1