$$\begin{array}{c} P_{i} = P_{i} =$$

selection was

$$E(Y; | P; = 1) - E(Y; | D; = 0) = MET + Selection Bias$$

$$ATET = \overline{Y}_1 - \overline{Y}_0$$

$$\frac{\hat{y}_{i}}{\hat{\beta}_{i}} = \frac{\hat{y}_{i}}{y_{i}} - \frac{\hat{y}_{i}}{y_{o}} = \frac{\hat{y}_{i}}{p_{i}} - \frac{\hat{y}_{i}}{p_{i}}$$

$$\frac{\hat{\beta}_{i}}{\hat{\beta}_{i}} = \frac{\hat{y}_{i}}{y_{i}} - \frac{\hat{y}_{i}}{p_{i}} - \frac{\hat{y}_{i}}{p_{i}}$$

$$\frac{\hat{\beta}_{i}}{\hat{\beta}_{i}} = \frac{\hat{y}_{i}}{\hat{y}_{i}} - \frac{\hat{y}_{i}}{p_{i}}$$

$$\frac{\hat{\beta}_{i}}{\hat{\beta}_{i}} = \frac{\hat{y}_{i}}{p_{i}}$$

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$$\frac{\hat{\beta}_{i}}{\hat{\beta}_{i}} = \frac{\hat{\beta}_{i}}{\hat{\beta}_{i}}$$

$$\frac{\hat{\beta}_{i}}{\hat$$

$$\hat{\beta}_{0} = \hat{y} - \hat{\beta}_{1} \cdot \hat{D} = \sum_{P_{i}=0}^{Z} \hat{y}_{i}^{*} + \sum_{D_{i=1}}^{Z} \hat{y}_{i}^{*} - \sum_{D_{i}=0}^{Z} \hat{y}_{i$$

$$\hat{\beta}_{0} = \overline{y}_{0} \qquad \hat{\beta}_{1} = \overline{y}_{1} - \overline{y}_{0}$$

$$\mathcal{E}\chi.2 \quad V_{0n}\left(\hat{\beta}\right) = \frac{\delta^2}{\Sigma\left(D_i - \overline{D}\right)^2} = \overline{D} = \hat{\lambda} = \frac{N_1}{\kappa}$$

$$= \frac{6^{2}}{5(0;-d)^{2}} = \frac{6^{2}}{h_{1}(1-d)^{2}+h_{2}(d^{2})}$$

$$=\frac{6^2}{h \, d \left(1-d\right)^2 + h \left(1-d\right)^2} = \frac{6^2}{h \, d \left(1-d\right)}$$

DID:

DIV. dor treatment

DIV. dor treatment

P. V. dor

DID:

△ y; = B. + S. X; + Ei

Matching $ATET = E(y_i(1) - y_i(0) | D_i=1)$

Y, n - Treatment group y: (1) | D:=1

Yo, n - Control group natched: Y: (6) | P:=1

1) Simple matching $\Delta^{M} = \frac{1}{2} W_{\mu} V_{1,\mu} - V_{0,\mu}$

3) Propensity Score Matching $P(p_{i=1} \mid x_{i}^{(i)},, x_{i}^{(n)})$

logit/probt