

ITT: Randomize Eligibility

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$R = 1$:(Randomized in)

$R = 0$:(Randomized out)

For Two Outcome Model

$D = 1$:(You want 1)

$D = 0$:(You want 0)

$$\begin{aligned}
 & E(Y|R = 1) - E(Y|R = 0) \\
 = & \{E(Y_1|D = 1, R = 1) \Pr(D = 1|R = 1) \\
 & + E(Y_0|D = 0, R = 1) \Pr(D = 0|R = 1)\}
 \end{aligned}$$

People who sneak in

$$\begin{aligned}
 - & \{E(Y_1|D = 1, R = 0) \Pr(D = 1|R = 0) \\
 & + E(Y_0|D = 0, R = 0) \Pr(D = 0|R = 0) \\
 & + E(Y_0|D = 1, R = 0) \Pr(D = 1|R = 0)\}.
 \end{aligned}$$

What interesting economic question does this estimate?