Power vs env_outcome_ate_single (Environmental) by Arm

Design: community_level

Power

env_outcome_ate_single

ITT — — — TOT
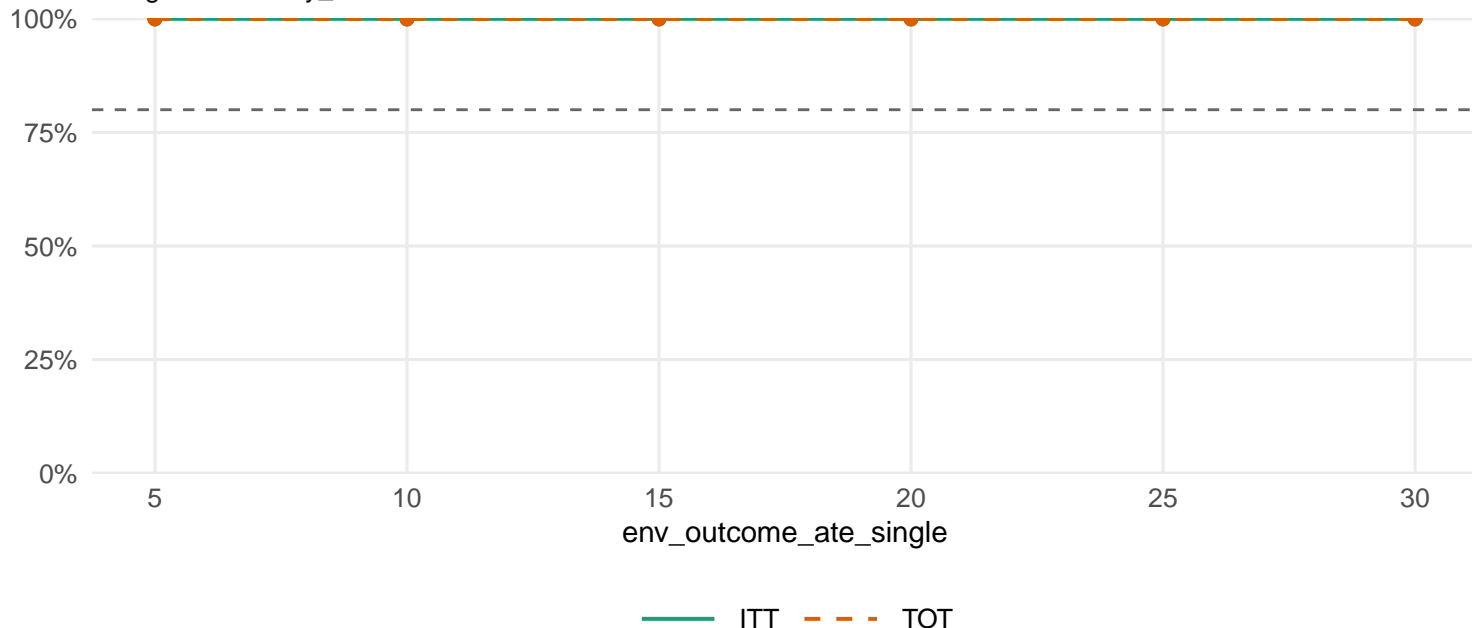
Arms: control, T1. Allocation: control=50%, T1=50%
Design: 130 communities; avg individuals=100 (sd=10).
Observations: Socio−economic T=3 at months [1, 6, 12]; Environmental T=6 at months [1, 2, 3, 4, 5, 6].
Stratified on year, NGO, and tribe with outcome distributions N(0, var: year=0.5, NGO=0.5, tribe=0.5).
Expected take−up (ITT vs. TOT): control=0%, T1=100%
Soc outcome: dist=negbin, theta=6.00, baseline=35, ICC=0.050, AR1 rho=0.20, AR1 var=0.50.
Env outcome: baseline mean=400, sd=200, ICC=0.030, AR1 rho=0.50, AR1 var=1.00.
Inference: alpha=5%, sims=300, seed=456, SE=Cluster−robust (HC1)