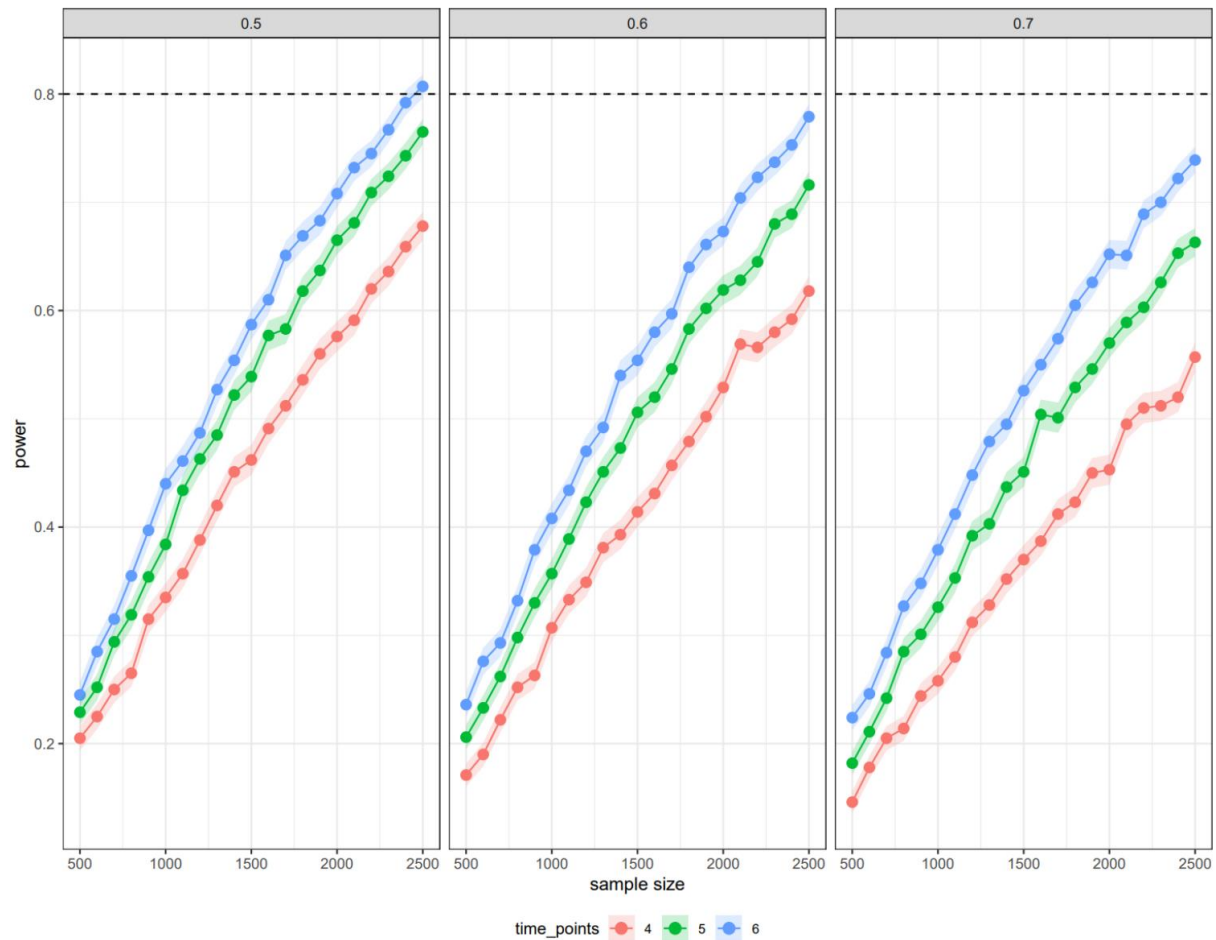


Supplementary Material

S1 Power Analysis



Note. The analysis was conducted with varying numbers of time points (4, 5, and 6) to evaluate power across different assessment schedules. The specified population parameters include autoregressive effects for interpersonal problems ($a_1 = 0.25$) and therapeutic alliance ($a_2 = 0.25$), cross-lagged effects from interpersonal problems to alliance ($c_1 = -0.06$) and alliance to interpersonal problems ($c_2 = -0.07$). The between-person intraclass correlation coefficients (ICCs) were set to 0.5, 0.6, and 0.7, with a random intercept correlation of -0.12 and a within-patient correlation of -0.08. The analysis used a refined sample size range (500 to 2500, in steps of 100) and 5000 replications for robustness. A seed value of 123456 was specified for replicability. For the current analysis, the power was estimate approximately 0.6.