

STUDY TITLE: Mind over Mood

R61 PHASE: Social Cognitive Training to Enhance the Efficacy of CBT for Depression in Youth:
A Developmental Approach

STUDY IRB NUMBER # 190077

PRINCIPAL INVESTIGATOR

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Statistical Analysis Plan

We will use the general linear model (i.e., MANCOVA) to test hypotheses. The between subjects factor will be *Condition* with two levels (CBT+SCT vs. CBT only) and the within-subjects factor will be Time with two levels (baseline, post-test). We will adopt a multivariate approach to repeated measures (as assumptions of compound symmetry are untenable). Dependent variables (DVs) will vary across analyses; child age and sex, will be covariates in all analyses.

Specific Aims. To test whether youth in CBT+SCT have better SC skills at post-treatment than youth in CBT only at post-treatment.

Hypothesis: We will test the effect of CBT+SCT on SC skills (target) using the *Faux Pau* task as the DV. We will first test the 2x2 Condition x Time interaction. We expect that a 2x2 partition of this interaction will be significant, reflecting the Condition effect from baseline to post-test.

Exploratory Hypothesis: To test the effect of CBT+SCT on depressive symptoms, the DV will be the

clinician-rated depression measure (CDRS). Analyses will be the same as described for the main hypothesis except that we will test the depression measure as the dependent variable.

Power. To estimate power, we assumed that autocorrelations among the repeated measures were .4 - .6. With N=42 (21 per cell), alpha = .05, and a medium effect size (e.g., a .40 SD Condition effect at T2), we will have approximately .82 power to detect the initial 2x2 Condition x Time interaction ($f_v = .32$). Assuming correlations of .3-.6 among the same measure over time, alpha = .05, and medium effect sizes we will have .85 power for the 2x2 Condition by Time interaction.