

**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.