

Data Analysis Cover Page

Study Title: Mindfulness-Based Stress Reduction to Improve Neuropsychological Functioning in Acquired Brain Injury

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Data Analytic Approach

Preliminary analyses examined potential class differences (i.e., MBSR, Brain Health) in participant demographics (i.e., sex, age, education). Variables that differed across groups were included as covariates when appropriate. For primary analyses, we examined measures collected at one timepoint (i.e., implementation, satisfaction), using a multivariate ANOVA (MANOVA) as an omnibus test for measures with multiple dependent variables. If post-hoc analyses were completed, Bonferroni adjusted p -values were applied. Pairwise comparisons were examined with independent t -tests for continuous variables and Chi-square analyses for binary variables. For outcome variables collected at multiple timepoints (i.e., cognitive functioning, health and well-being measures), linear mixed effects models (“lme4” package v. 1.1–21 in “R” v. 3.6.3) were used to examine each outcome. Class (MBSR, Brain Health) and time (pre-intervention, post-intervention, and six month follow-up) were entered as fixed effects, participants were entered as a random effect, and the outcome variable was entered as a dependent variable. Main effects of class and time, as well as the class x time interaction (reflecting intervention effects) were examined.