

Use of Repetitive Transcranial Magnetic Stimulation to Augment Hypnotic Analgesia

Statistical Analysis Plan

NCT02969707

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Data were collected and organized using the REDCap methodology, and analysis was performed in the SPSS v.26.0 environment. According to our preregistered plan, analyses were completed within the intention-to-treat principle, and reported P values are nominal. To test the change in HIP scores following SHIFT, pre- to post-SHIFT changes in HIP scores (Δ HIP) were calculated by subtracting the immediate post-spaced SHIFT score from the pre-spaced SHIFT score. Neither the pre- or post-spaced SHIFT HIP variables nor the Δ HIP scores met the criteria for the assumption of normality (all Shapiro-Wilk P values < 0.001), rendering the first step in our preregistered plan of testing our hypotheses using analysis of variance (ANOVA) inappropriate. As such, we used non-parametric tests; within-group pre/post-SHIFT changes in HIP scores were tested using a two-tailed Wilcoxon signed-rank test. Two-tailed Mann-Whitney U-tests were used for group comparisons of Δ HIP scores between the active and sham groups. Effect sizes for the non-parametric tests were calculated using Cohen's r statistic. The study blind was tested using the chi-squared test.