Effect Size Estimates

Study Identifier: Gladd & Knowitt 2005
Assessment Details: TFT versus CBT
Measurement Device: BDI

Mean Group 1: 22.5
Standard Deviation 1: 9.1
Subject Numbers 1: 22

Mean Group 2: 14
Standard Deviation 2: 8.9
Subject Numbers 2: 21

Standard deviation used to compute Cohen's d: 9.00056
Cohen's d effect size: 0.94439
Which lies between 0.41536 and 1.47341 with 90% confidence.

Cohen's d effect size with Hedges Adjustment: 0.927
Which lies between 0.39894 and 1.45507 with 90% confidence.

Hedges' Pooled Standard Deviation: 9.00299
Hedges' g effect size: 0.92675
Which lies between 0.39871 and 1.4548 with 90% confidence.

Statistical Significance Estimates

Total Number Of Subjects: 43
Mean Difference: 8.5
Standard Error Of The Difference: 2.74663
Degrees of Freedom: 41
t-test Statistic: 3.0947; 2 tailed p = 0.00354; 1 tailed p = 0.00177
z-test Statistic: 3.09634; 2 tailed p = 0.00196; 1 tailed p = 0.00098

A Priori Power Analysis

Effect Size Entered Into Equation: 0.94439

Number of subjects required PER GROUP:

One Tailed Analysis - Power = 0.8
95% Confidence: 14
99% Confidence: 23

One Tailed Analysis - Power = 0.9
95% Confidence: 20
99% Confidence: 30

Two Tailed Analysis - Power = 0.8
95% Confidence: 18
99% Confidence: 27

Two Tailed Analysis - Power = 0.9
95% Confidence: 24
99% Confidence: 34