Date : 20/11/2024

Title : The Effect of Robot-Assisted Walking Training on Motor Functions, Respiratory Parameters, and Functional Capacity in Cerebral Palsy

STATISTICAL ANALYSIS

The findings obtained from the study will be analyzed using SPSS 26.0 (Statistical Package for the Social Sciences).

The normality of the data will be assessed using the Shapiro–Wilk Test.

For normally distributed data, within-group pre- and post-treatment comparisons will be performed using the Paired Samples t-test, and between-group comparisons of post-treatment outcomes will be conducted using the Independent Samples t-test.

For non-normally distributed data, within-group pre- and post-treatment comparisons will be analyzed using the Wilcoxon Signed-Rank Test, and between-group differences in post-treatment data will be evaluated using the Mann–Whitney U Test.

For the evaluation parameters, the mean difference between pre-treatment and post-treatment values within each group will be calculated, and the results will be analyzed between groups.

The effect size (Cohen's d) of the applied treatment protocol will be calculated for each parameter by subtracting the pre-treatment value from the post-treatment value and dividing the result by the pre-treatment standard deviation.

In all analyses, $p < 0.05$ will be considered statistically significant.

Pallant J. SPSS Surviving Manual: a step by step guide t data analysis using IBM SPSS. Berkshire: Open University Press. Published online 2016.