

Statistical Analysis Plan (SAP)

Title: Statistical Analysis Plan for “The Effect of Experiential Learning-Based First-aid Training on Knowledge and Self-efficacy of Parents of Children with Intellectual Disabilities”

Objectives: To assess changes in first-aid knowledge, To assess changes in first-aid self-efficacy.

Analysis Populations:

Full Analysis Set (FAS): All randomized participants who completed pre- and post-tests.

Per Protocol (PP): Participants who attended all four training sessions (intervention group).

Statistical Methods:

Descriptive Statistics: Mean, standard deviation, frequency, and percentages for socio-demographic and baseline variables.

Baseline Comparisons: Chi-square test (categorical variables), independent samples t-test (continuous variables).

Primary Outcome Analysis:

Knowledge scores: Comparison of pre- and post-test scores within groups (paired t-test).

Between-group differences in change scores: Independent t-test.

Secondary Outcome Analysis:

Self-efficacy scores: Same method as knowledge scores.

Effect Size: Cohen’s d will be calculated to estimate the magnitude of the intervention effect.

Assumptions Check: Normality (skewness, kurtosis). Non-normal data will be analyzed with non-parametric equivalents (Wilcoxon signed-rank, Mann–Whitney U).

Significance Level: $p < 0.05$, two-tailed.

Software: SPSS Statistics v25, G*Power 3.1.9.7 for sample size