

STATISTICAL ANALYSIS PLAN

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NCT : Not yet assigned

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In order to determine the number of volunteers to be included in the study, the relevant literature was reviewed in detail and previous studies were taken as a basis (The relevant articles are attached to the file).

The sample size was calculated using the G*Power V.3.1.9.6 program. Considering a 95% confidence level ($1-\alpha$), 95% test power ($1-\beta$), and an effect size of $f = 0.369$, it was decided to conduct the study with a total of 132 cases, with 33 participants in each group.

G*Power Protocol

F tests - ANOVA: Fixed effects, omnibus, one-way

Analysis: A priori: Compute required sample size

Input:	Effect size f	= 0.3690822
	α err prob	= 0.05
	Power ($1-\beta$ err prob)	= 0.95
	Number of groups	= 4
Output:	Noncentrality parameter λ	= 17.9812605
	Critical F	= 2.6753873
	Numerator df	= 3
	Denominator df	= 128
	Total sample size	= 132
	Actual power	= 0.9531177