

Sample Size Estimation:

Sample size estimation was done by using **GPower software (version 3.0)**. Sample size was estimated for Analysis of variance and Means: Difference between independent means was chosen.

A minimum total sample size of **45 sites (15 in each group)** was found to be sufficient for an alpha of 0.05, power of 80%, 0.52 as effect size (assessed for difference in clinical attachment levels and bone fill among the three groups).

Proposed Statistical Analysis:

Data will be analysed using Statistical Package for Social Sciences (SPSS) version 21. Categorical variables (like gender) will be summarized as frequencies while continuous variables will be summarized as Mean & Standard deviation. Graphs will be prepared on Microsoft Excel. Continuous data will be tested for normality by using Shapiro Wilk test. If the data will achieve normality, then parametric tests of significance (one way ANOVA) will be used for inferential statistics. Else, the non-parametric tests (Kruskal Wallis test) will be used. The level of statistical significance will be set at 0.05.



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