

Statistical Analysis Plan

Study Title: Granulocyte Colony-Stimulating Factor Treatment in Women with Premature Ovarian Insufficiency: A Pilot Clinical Study of Biological Activity and Menstrual Resumption

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Statistical Analysis

All analyses were performed using IBM SPSS Statistics, Version 29.0 (IBM Corp., Armonk, NY). Continuous variables were tested for normality using the Shapiro-Wilk test. Normally distributed variables were reported as mean $\pm$ standard deviation. Repeated-measures analysis of variance (ANOVA) was used to assess longitudinal changes in FSH, AMH, and AFC across three time points: baseline, month 4, month 6, and month 12. Where the overall F-test was significant, Bonferroni-corrected pairwise comparisons were conducted as post hoc tests. Changes in menstruation status (yes/no) between baseline and month 4 were analyzed using McNemar's test. Missing data were handled via listwise deletion. Given the small sample size and exploratory nature of the study, the analysis was considered underpowered for confirmatory inference; results should be interpreted as hypothesis-generating. Additionally, one participant who demonstrated an exceptional clinical response (including successful oocyte retrieval) was described separately in the results. Statistical significance was defined as a two-tailed p -value < 0.05