<div align="center">**Cover Page**</div>

The Official Title: Effects of Preoperative Rehabilitation on Tendon Healing, Bone Mineral Density, and Cartilage After ACLR and Patellar Dislocation

NCT Number: 05924178

Date of the Document: 06/10/2025

<div align="center">**Statistical Analysis Plan**</div>

SPSS 21.0 statistical software was utilized for statistical analysis. When the test index was normal distribution, it was expressed as x±sd. If the detection indexes did not follow a normal distribution, they were described by the median (P25, P75). For normally distributed data, repeated measures analysis of variance was employed to assess changes across baseline, pre-ACLR, 3 months post-ACLR, 6 months post-ACLR, and 12 months post-ACLR, while the non-parametric Friedman test was used for non-normally distributed data. $P<0.05$ was considered statistically significant.