

Official Title
Effects of Mulligan Mobilization with movement
Versus Kinesiotaping and Placebo on knee
function and injury -related Outcomes in
Basketball Players: A Parallel -Group Randomized
Controlled Trial

NCT Number:

Date 10 December 2024

2. Study Protocol with Statistical Analysis Plan (SAP)

Statistical Analysis Plan (SAP)

- Descriptive statistics of anthropometric data of basketball players. Descriptive statistics will be presented as mean \pm standard deviation (SD) for continuous variables. Between-group comparisons of baseline characteristics will be performed using ANOVA or Kruskal-Wallis tests, depending on data distribution.
- Normality Check: Shapiro-Wilk Test. The normality of anthropometric variables and outcomes (KOS-ADLS, SAS, and OSTRC) will be assessed using the Shapiro-Wilk test. Variables that are not normally distributed will be analyzed using non-parametric tests."
- Homogeneity of Variance: Levene Test. Homogeneity of variance across groups will be assessed using one-way ANOVA with Levene's test or Welch's test, as appropriate. If assumptions of homogeneity are violated, adjustments or non-parametric alternatives will be used.
- Primary Analysis: Mixed ANOVA for repeated measures. Post-hoc Analysis: Pairwise comparisons with Cohen's d effect size. The primary outcome (KOS-ADLS, ADLS) will be analyzed using mixed ANOVAs to assess the effects of group (Mulligan, Kinesiotaping, Placebo) and time (Baseline, 1 hour post-treatment, 2 weeks). Post-hoc comparisons with Bonferroni correction will be performed where appropriate. Effect sizes will be reported using Cohen's d." The secondary SAS outcome and the tertiary OSTRC outcome will be analyzed in the same way as the primary outcome.
- Software: The software used for statistical analysis will be JASP (vers. 0.95.4.0).