A cover page

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Statistical Analysis Plan

Sample size was calculated using Power Analysis and Sample Size Software version 11.0. (PASS, NCSS Statistical Software, Kaysville, UT, USA). As for two correlations analysis, power of 0.80, α of 0.05, R0 (baseline correlation) of 0 and R1 (alternative correlation) of 0.5 were made, referred from the data of Koo et al.'s trial. The estimated lowest minimum sample size is 29. Taken into consideration image processing-based trials are under easy control, mid-term drop-out was expected to occur in very low chance. Allowing for a drop-out ratio of 5%, 30 patients were required. Two-sided statistical analyses were conducted using the Statistical Package for the Social Sciences, version 24 (SPSS Inc., Chicago, USA). The normality verification was performed using Kolmogorov-Smirnov. To remove linear effect derived from interstitial fluid (BEI) or limb swelling (SCDR), the four types of index defined above were compared to the BEI and SCDR using partial correlation analysis. If normal distribution was not verified, they were analyzed after log transformation. A small positive number was added before log transformation, if values were negative.