Statistical Analysis

NCT02283528

Unique Protocol ID:
IRB00076048

A Comparison of Stryker Hybrid Arch Bars Versus Erich Arch Bars for Maxillomandibular Fixation of Mandibular Fractures:
A Prospective Randomized Study

Principal Investigator
Gary F Bouloux MD, DDS, MDSc, FRACDS, FRACDS

November 23, 2018
A data collection sheet was used to record demographic, preoperative, operative and postoperative variables. Preoperative and operative variables were compared between the treatment groups using t-tests for age, and a combination of $\chi^2$ and Fisher’s exact tests for other variables. Arch-bar application times were compared among the preoperative and operative variables using Pearson correlation for age and a combination of t-tests and one-way ANOVA. Treatment groups versus time of arch-bar application and length of surgery were tested using t-tests. Multiple regression was used after covariates were determined using stepwise linear regression. All analysis was performed using the patients' original treatment assignment (intent-to-treat). All results were considered statistically significant if the p-values were less than 0.05.