Statistical Analysis

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

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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 χ^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.