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JBR Journal of Interdisciplinary Medicine and Dental Sciences

The effectiveness of piezoelectric surgery Vs Er: YAG laser for third molar surgery

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Biography

Hamid Reza Fallahi has completed his Master degree from Ahvaz Jundishapur University of Medical Sciences, Iran. He is dedicated in Oral & Maxillofacial Surgeon with a demonstrated history of working in the hospital & private OMFS clinical setting, providing high-level dental care. Administered anesthesia and perform cosmetic surgeries, such as face-lifts, blepharoplasty, and rhinoplasty.

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Background: Reduction in postoperative complications is one of the most important concerns in wisdom teeth surgery. The goal of our study was to compare postoperative complications of impacted third molar surgery using laser, piezoelectric, and conventional methods.

Methods: We designed the prospective double-blind clinical trial study. The data were obtained in terms of pain, trismus, swelling, ecchymosis, and patient's satisfaction and then analyzed using a paired t-test and Wilcoxon and McNemar's tests.

Results: The pain and swelling immediately after surgery were higher in the laser group. In the laser group but not significant. The amount of mouth opening after surgery was significantly lower in the laser group than in the piezosurgery group. The total duration of surgery was significantly longer in the laser group. The patient's satisfaction from surgery with piezoelectric surgery was more than that with laser although it was not significant.

Conclusion: we concluded that hard tissue laser surgery and piezosurgery are more efficient in reducing postoperative complications compared to conventional surgeries.

Keywords: Third molar, Wisdom tooth, Piezosurgery, Laser, Er: YAG

Citation: Hamid Reza Fallahi,The effectiveness of piezoelectric surgery Vs Er: YAG laser for third molar surgery, World Dental 2020, 6th World Congress on Dentistry and Dental Materials, August 26-27, 2020, 02