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**The clinical comparative evaluation of the effects of Er: YAG laser, piezo surgery and bur surgery used for osteotomy of the bone around the impacted third molars****Betrayed Gizem Celebioglu Genc***University of Cyprus, Turkey*

Impacted third molar surgery is the procedure most done in oral and maxillofacial surgery. The purpose of this study is to compare the postoperative pain, edema, trismus and patient satisfaction between Er: YAG laser surgery, piezo surgery device and conventional bur surgery that are used to extract impacted lower third molar. In our study, 30 patients with bilateral impacted lower third molars in Class 2, position B, vertical position according to the Pell and Gregory criteria were selected. Patient randomly divided into two groups. In all patients one side the bony cover around the tooth were removed by the conventional bur technique on the other side half of patient treated with the Er: YAG laser and others treated with piezo surgery. Postoperative 48th hours trismus value was seen the most high in laser group than in conventional bur surgery and least in piezosurgery group. Due to intraoperative and postoperative comfort, the patients who were treated with impacted lower third molar procedure, were statistically most satisfied with laser technique. Piezosurgery technique was also satisfied but it was not significant. In the conventional bur surgery, the operation time found shorter due to the relative cutting efficiency than laser group and piezosurgery group. Piezosurgery technique was faster when compared with laser technique. As a conclusion if the speed of hard tissue laser and piezoelectrical device were increase their capacity, they may be considered as a good alternative to conventional surgical bur in routine use.

**Biography**

Dr. Betrayed Gizem Celebioglu Genc was born in Lefkoşa, Cyprus. She received her dental degree in 2007 Hacettepe University Faculty of Dentistry and completed her Oral and Maxillofacial Surgery studies in 2011 at Ankara University Faculty of Dentistry in Ankara, Turkey. Since 2012 she works in Dr Burhan Nalbantoğlu State Hospital as an Oral and Maxillofacial surgeon and she also works at Cyprus University of Health and Social Sciences as an assistant professor doctor in a Department of Oral and Maxillofacial Surgery.