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Original Research Article

Comparison of Advantages and Disadvantages of Electrosurgery Techniques and the use of Scalpel in Intraoral Incisions of Patients under General Anesthesia

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ABSTRACT

Introduction: Due to the discrepancy between the results of previous studies and the lack of such a study in intraoral incisions, this study was performed to compare the advantages and disadvantages of electrosurgery techniques and the use of scalpel in intraoral incisions in patients under general anesthesia. **Material and Methods:** This is a cross-sectional descriptive study that was conducted in 2019 in Imam Reza Hospital (Tabriz University of Medical Sciences) with the participation of 40 patients (20 surgical patients with razors and 20 patients with electric catheters) candidates for oral surgery. The results of surgery were compared in two groups of patients. **Results:** There was no difference in wound dehiscence in each group after surgery. Both in the razor cutting group and in the electrocautery group; Only one case of wound dehiscence was observed, which in both cases resolved without special surgical or pharmacological intervention and only with regular washing. **Conclusion:** The present study showed that the scar tissue created by electrosurgery was significantly more than the scalpel technique, which can be attributed to the induced heat damage to adjacent tissues. The results of the present study showed that the use of a cutter compared to a scalpel significantly reduces the incision time.

Keywords: Electrosurgery, Intraoral Incisions, Disadvantages