Journal of Dentistry

OPEN ACCESS Freely available online

Short Communication

Comparison of intra-socket bupivacaine administration versus oral mefenamic acid capsule for postoperative pain management following removal of impacted mandibular third molars

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ABSTRACT

Surgical removal of impacted third molar teeth is one of the most common surgical procedure performed in oral and maxillofacial surgery. Postoperative pain is a common and predictable occurrence after maxillofacial surgery. This randomized double-blind clinical trial was conducted with a crossover design in which each patient served as his or her own control. Forty-six patients with similar bilateral impacted lower third molars were selected. In each patient, the intervention and control sides of the mandible were randomly determined at the end of surgery. If the removed tooth was in the intervention side, then the patient would receive bupivacaine and a placebo of mefenamic acid. If the impacted tooth was in the control side, then the patient would receive a mefenamic acid capsule and a placebo of bupivacaine. Pain severity was assessed using a visual analog scale. Data were analyzed using paired-sample t test and a P value less than .05 was considered statistically significant. Of 46 participants originally recruited, 43 were included in the present study. The mean postoperative pain score in patients who received bupivacaine was increased to a maximum 4 hours, with marked improvements after this time. The mean intensity of pain after administration of bupivacaine was lower than that of mefenamic acid capsules at different time points. Statistical analysis showed a relevant difference in pain intensity between the 2 study groups. The results of the present study showed that local administration of bupivacaine relieves postoperative pain after surgical removal of impacted third molar teeth.

Biography:

Ideh Talimkhani has completed her doctorate of general dentistry from Hamadan University of medical science at the age of 24. At the age of 31 she became specialist in oral and maxillofacial surgery from same university. Now she is assistant professor in medical university of Kurdistan This research is the thesis topic of her doctorate of general dentistry that was supervised by Mohammad reza Jamal pour and was accepted in journal of oral and maxillofacial surgery in July 2019.