

عنوان مقاله:

The Effect of Intravenous Infusion of Magnesium Sulfate During Bimaxillary Orthognathic Surgery on Post-operative Pain: A Clinical Trial

محل انتشار:

مجله علمی جراحی, دوره 3, شماره 1 (سال: 1395)

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نویسندگان:

Hamidreza Eftekharian - Department of Craniomaxillofacial Surgery, School, of Dentistry, Shiraz university of medical Sciences, Shiraz, Iran

Seyed AliAsghar Hosseini - Department of Craniomaxillofacial Surgery, School, of Dentistry, AND Health Policy Research Center, Shirza University of Medical Sciences, Shiraz, Iran

Seyed Taghi Heydari - Department of Craniomaxillofacial Surgery, School, of Dentistry, AND Shahid Chamran Hospital, Shiraz University of Medical Sciences, Shiraz, Iran

خلاصه مقاله:

Background: This prospective randomized controlled clinical study aimed to investigate the effect of magnesium sulfate (MgSO4) on pain management post orthognathic surgery. Methods: In this study, 52 patients undergoing orthognatic surgery were randomly allocated to receive MgSO4or saline intravenously. The intervention group (n = 26) received intravenous MgSO4 (30 mg/kg bolus for15 minutes immediately before anesthesia induction followed by 10 mg/kg/h dissolved in saline via pumpinfusion) and the second group (n = 26) received the placebo in the same bolus volume as a normal saline in a15 minute intravenous infusion which was continued until the end of the operation. A visual analog scale(VAS) was used to determine the intensity of pain. Invasive arterial blood pressure and valid and invalidanalgesic demand were also recorded. Side effects were recorded, as well. Results: This study was conducted on 52 patients, 26 per group. The results showed no statistically significant differences between the two groups with respect to demographics. During the post-operative period, thepatients in the control group showed larger analgesic requirement 7 (26.9%) compared to those in themagnesium group 4 (15.4%) and the difference was not statistically significant (P = 0.308). The post-operativeVAS scores evaluated serially from the recovery room also showed a significant difference between theintervention 3 (11.5%) and the control group 14 (53.8%) after the surgery (P = 0.001). However, no significant difference was found between the two groups regarding VAS scores in the surgical ward [7 (26.9%) vs. 8(30.8%) P = 0.760].Conclusions: Intra-operative administration of intravenous MgSO4 reduced opioid consumption for pain afterbimaxillary orthognathic operations. @ 2014 Tehran University of Medical Sciences. All rights reserved. Citation: Eftekharian HR, Hosseini SAA, Heydari ST. The Effect of Intravenous Infusion of MagnesiumSulfate During Bimaxillary Orthognathic Surgery on Post-operative Pain: A Clinical Trial. Acad J .Surg,2016; 3(1-2): 7-11

کلمات کلیدی:

Infusions; Intravenous; Magnesium sulfate; Orthognathic surgery; Pain; Post-operative; Pain management

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