

عنوان مقاله:

Effect of Nandrolone, Calcium and Vitamin C on Union of Fracture of the Tibia

محل انتشار:

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان، دوره 24، شماره 102 (سال: 1394)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Background and Objective: Delayed union and non union account for the most common complications of fractures of extremities in human. There are several factors influencing normal process of bone union among which nutrition is of extreme importance. The objective of this study was to assess the effect of nandrolone, calcium-D and vitamin C on the process of healing of fractures. **Materials and Methods:** ۱۳۹ male patients aged ۱۸-۵۰ years old with tibial and fibular shaft fractures treated surgically, were entered to this study and randomly assigned to ۴ groups. Patients in group ۱ received nandrolone decanoate, patients in group ۲ received calcium carbonate plus vitamin D_۳, patients in groups ۳ received vitamin C and group ۴ as the control group did not receive any treatment. The groups were compared based on radiographic and clinical criteria for fracture union. SPSS version ۲۲ was used for statistical analysis. Anova was incorporated for comparing groups in terms of their age along with Chi Square and Binary Logistic tests which were used for comparing union in groups. **Results:** In the first ۳ months following the surgery, patients in nandrolone group developed significantly better union compared to the control group, whereas there was no significant difference in calcium-D and vitamin C groups. **Conclusion:** Nandrolone in the first ۳ months after the surgery accelerates fracture union but calcium, vitamins D or C do not bring about any effect

کلمات کلیدی:

Keywords: Nandrolone, Calcium, Vitamin C, Fracture union

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