

عنوان مقاله:

Effect of Deltoid Tuberosity Index on the Outcome of Proximal Humeral Fracture Treated with a Locking Plate

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خلاصه مقاله:

Background: In the elderly, proximal humerus fractures are not unusual. The treatment of these injuries are often complicated. **Objectives:** This study aimed to evaluate the effect of deltoid tuberosity index on the outcome of proximal humeral fractures treated with a locking plate. **Methods:** One hundred consecutive patients with displaced fractures of the proximal humerus had open-reduction and internal fixation using a locking plate. The patients were divided into two main groups (low density group) $DTI < 1.4$ and $DTI > 1.4$ (normal density group) and at the end of the study, treatment and failure were assessed in the two groups. **Results:** In this study, 100 patients with proximal humeral fracture who were candidates for locking plating surgery were evaluated. The mean of DTI in all patients was 1.48 with a minimum

of ۱.۱۰ and a maximum of ۲.۲۰. Based on the Pearson correlation coefficient, with increasing age, the constant score decreased in the studied patients, which was statistically significant ($r=-0.216$, $p\text{-value} = 0.031$). Also, in patients with DTI less than ۱.۴ and more than ۱.۴, the Constant score was ۷۳.۰۲ and ۷۷.۸۸, respectively. This difference was not statistically significant ($p\text{-value}=0.054$). There was a statistically significant relationship between Constant Score, DTI and patients' gender ($p\text{-value}\leq 0.05$). While there was no statistically significant relationship between fracture type and constant score. Pearson correlation coefficient between DTI and age of patients was -0.30 , which decreased with increasing age of patients. This was statistically significant ($r=-0.30$, $p\text{-value}=0.003$). Conclusion: The results of this study show that the deltoid tuberosity index can be effective on proximal humeral fracture surgery treated with locking .plating

کلمات کلیدی:

Deltoid Tuberosity Index, Proximal Humerus Fractures, constant score

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