

البحث الخامس: بحث مشترك منشور

Arthroscopy-Assisted Surgery for Tibial Plateau Fractures

عنوان البحث:

الملخص الانجليزي :

Although tibial plateau fractures comprise only 1% of all fractures, displaced fractures and the broad spectrum of associated injuries can have severe consequences if not properly treated. The ultimate goals of tibial plateau fracture treatment are to re-establish joint stability, alignment and articular congruity while preserving full range of motion. Surgical treatment has gone through various phases, and arthroscopy-assisted minimally invasive surgery is the most attractive treatment option among surgical treatments. This study evaluated the outcome of arthroscopy-assisted surgery for treating tibial plateau fractures and associated soft tissue injuries within the knee.

Thirty two patients with tibial plateau fractures treated by arthroscopy-assisted reduction with internal fixation were enrolled in this prospective study. Twenty six patients completed the questionnaire and follow up. Mean age was 34.3 years (range, 19 to 58 years). The mean delay from injury to surgery was 7.3 days (range, 3 to 12 days). The mean follow-up period was 14 months (range, 10 to 26 months). The mean postoperative Rasmussen clinical score was 24.5 (range, 17 to 30) with 84.6% satisfactory clinical results, and the mean postoperative radiologic score was 15.4 (range, 9 to 18) with 92.3% satisfactory radiologic results. All 26 fractures were successfully united at a mean time of 11.5 weeks. Associated soft tissue injuries were treated simultaneously. No complications directly associated with arthroscopy were noted in any of the 26 patients. Arthroscopic-assisted operation for tibial plateau fractures allows accurate intra-articular fracture reduction with diagnosis and treatment of associated soft-tissue injuries, which is a safe and effective procedure.