

Limited Open Reduction and Percutaneous Screw Fixation of Displaced Intra-Articular Fracture of Calcaneus: Review of 48 Fractures

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Objective: To evaluate the result of treating displaced intra-articular fracture of calcaneus using minimal open reduction and percutaneous screw fixation.

Setting: Orthopedic Department, Salmaniya Medical Complex (SMC).

Design: Retrospective study.

Method: A review of 50 patients who had percutaneous screw fixation for displaced intra-articular fracture of calcaneus was done. Soeur and Remy modification of Essex Lopresti for the assessment of the degree of comminution was used. Forty-four patients were evaluated for an average 2.5 years (1 to 4 year) after surgery. The outcome was assessed using the functional hind foot score described by Paley et al and their radiological criteria.

Result: Satisfactory results were obtained in 79% of displaced intra-articular fracture of calcaneus, grade mild to moderate comminution. Only two patients with superficial infection were encountered.

Conclusion: In this study, operable cases of displaced intra-articular fracture of calcaneus, mild to moderate comminution were treated adequately and effectively using percutaneous screw fixation. Percutaneous screw fixation of the displaced intra-articular fracture of the calcaneus is an effective, safe, and reproducible method of treatment.

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