



## The Importance of Medial Calcar in Proximal Humerus Fractures

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### Clinical Image

48-years-old female patient was evaluated for Neer type 2 varus impacted fracture, after a traffic accident. She also had an intra-abdominal bleeding, therefore, S, she was operated immediately by general surgery. The patient was followed up in the post-op intensive care unit. During this period, the patient was followed up with a Velpeau bandage. The initial collo-diaphyseal angle of the fractured humerus was 90.3 degrees. Considering the instability of the patient, a non-op, velpeau bandage treatment was planned. The patient was re-called to the outpatient clinic after three weeks. In the post-trauma 3<sup>rd</sup> week, collo-diaphyseal angle was measured as 80.6 degrees. Further reduction lost was observed and surgical treatment was decided due to increased varus impaction. After open reduction with respect to lateral Wall of the shaft of the humerus, the head was valgised and a 2 cm × 1.5 cm medial bone defect was observed medially. A tricortical bone graft was removed from the iliac crest and impacted medially. The fracture then fixed with a PHILOS plate. The postoperative collo-diaphyseal angle has measures as 124.8 degrees which was normal, on post-op radiographs. In fractures without medial calcar continuity, more attention should be paid in terms of reduction loss and close follow-up is needed (Figure 1).

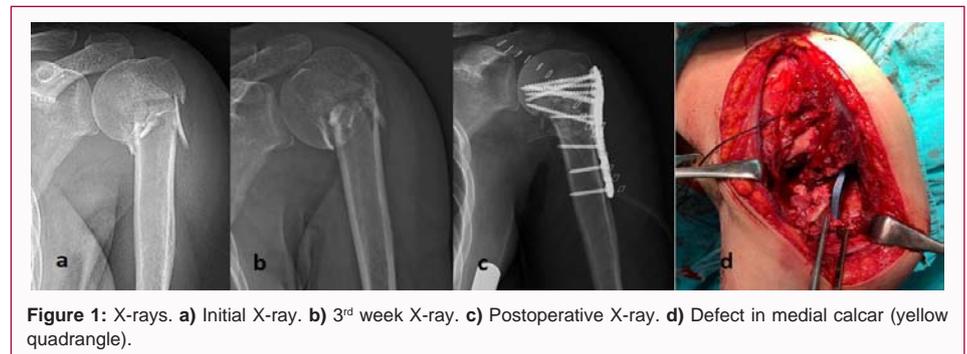


Figure 1: X-rays. a) Initial X-ray. b) 3<sup>rd</sup> week X-ray. c) Postoperative X-ray. d) Defect in medial calcar (yellow quadrangle).

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