

Revision Surgery In Inferior Shoulder Dislocation With Greater Tubercle Avulsion, A Case Report

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INTRODUCTION

This is a case of 46 years old man with who had alleged motor vehicle accident and sustained left shoulder pain. On examination the shoulder was tender, swollen with restricted range of movement. Radiograph examination showed left anterior inferior shoulder dislocation with avulsion fracture of greater tubercle left humerus (Figure1). Left shoulder was reduced immediately at emergency department by Milch method. Patient was then plan surgery.

MATERIALS & METHOD

Patient was positioned on beach chair position under general anaesthesia. Transdeltoid approach was used during the first surgery. Open reduction and screw fixation was done. Check x ray showed the avulsed fragment was displaced (figure 2). On day 2 post operatively patient underwent revision surgery. Initial incision was extended and fracture site was identified. Ethibond suture was used as an anchor to pull the avulsed fragment, screw fixation was done and the fixation was augmented with mini plate. The Ethibond suture which was initially holding the fragment was anchored over the plate.

RESULTS

Post operatively patient was immobilized with arm sling. At 2 weeks patient was started with pendulum exercised. During follow up patient was satisfied with the ability to return to daily activity and no recurrence shoulder dislocation or impingement documented.



Figure 1

Figure 2



Figure 3

DISCUSSION

Open reduction and stable fixation of the greater tubercle along with rotator cuff augmentation when present, allows for early passive motion of the joint, and yields excellent final results

CONCLUSION

Good clinical assessment and proper surgical technique with stable fixation plays an important role in determining the final outcome in treating greater tubercle avulsion of humerus.

REFERENCES

1. Dimakopoulos P, Panagopoulos A, Kasimatis G, Syggelos SA, Lambiris E. Anterior traumatic shoulder dislocation associated with displaced greater tuberosity fracture: the necessity of operative treatment. *J Orthop Trauma* 2007;21:104-12