

A COMPLEX HIP INJURY WITH BUTTONHOLE EFFECT - A CHALLENGING REDUCTION DILEMMA

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Introduction: A complex hip fracture defines as fractures involving the proximal femur with frequent association of the acetabulum wall fracture. The management is often challenging especially when it associated with fail reduction. We report a case of complex hip injury with buttonhole effect.

Discussion: A 53 years old man admitted to our hospital with diagnosis of traumatic left hip fracture. Xray and CT pelvis showed fractures of femoral neck, intertronschanteric and posterior column of left acetabulum (Figure 1 and Figure 2). Patient was scheduled for intramedullary nailing of proximal femur and acetabulum reconstruction in two staged surgeries. Initially, patient underwent intramedullary nailing of proximal femur. However reduction was unable to achieve by closed method. Hence we proceeded with open reduction of the hip joint and acetabulum via Kocher-Langenbeck approach. Upon entering hip joint, noted femoral head button hole through hip capsule and posterior column of acetabulum. Posterior column of acetabulum was reduced with femoral head traction followed by fixation of acetabulum with two recon plates. Hip capsule and muscle repaired for hip stability. Intramedullary nailing with helical blade done for proximal femur fracture. Postoperative x-ray showed stable reduction (Figure 3). Patient was discharged home with wheelchair. Follow up x-ray showed fracture union and no avascular necrosis of femoral head.

Conclusion: A complex hip fracture with associating acetabular fracture is a complex orthopedic injury that requires proper surgical planning and meticulous soft tissue and fracture manipulation. The treatment is always challenging and there is no clear cut guideline for operative techniques.