

## **RADIAL HEAD DISLOCATION WITH SUBTLE ULNAR PLASTIC DEFORMITY IN CHILDREN TREATED WITH OSTEOTOMY AND CAST**

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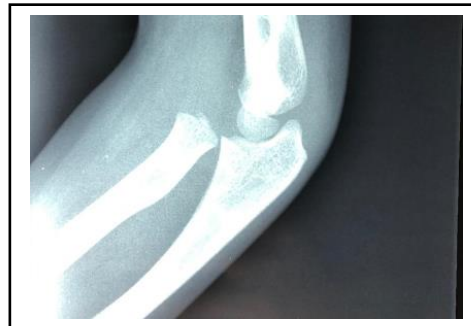
### **INTRODUCTION:**

Radial head dislocation with ulnar plastic deformation can easily be detected if one carefully evaluates the radiographs of an injured elbow, taking into account the radiocapitulum line and the ulnar bow. However, delay in diagnosing traumatic radial head dislocations, in the absence of a concurrent ulnar fracture, is common. It is difficult to reduce a radial head dislocation with ulnar plastic deformation by closed manipulation. We reported a case of traumatic radial head dislocation with subtle ulnar plastic deformation.

### **REPORT:**

A 9-years-old boy presented with complaint of left elbow pain post alleged fall. He was presented to casualty on day 4 of trauma. Examination, swelling at lateral aspect of left elbow with tenderness at radial head however ulnar bone no tenderness. Limited movement of left elbow due to pain. Left elbow x-ray showed left radial head dislocation to the anteroradially (Figure 1). Closed manual reduction was attempted trice however unable to reduce. Then x-ray of bilateral radius/ ulna were done (Figure 2) and noted subtle ulna bowing at proximal third of left ulna. This patient underwent operation the next day. Done osteotomy proximal third left ulna and closed manual reduction left radial head. Left radial head successfully reduced after osteotomy of left ulna. Left radiocapitulum joint stable at all angle post reduction. Post-operative, full length cast of left upper limb was applied(Figure 3). Cast of left upper limb was removed 3weeks post operatively and regained full range of motion left elbow on 6weeks post-operative.

**Figure 1:**



**Figure 2:**



**Figure 3:**



### **CONCLUSION:**

Radial head dislocation with ulnar plastic deformation easily missed if not evaluated properly. Osteotomy of proximal third ulna and cast can reduced the radial head and give good function post-operatively.

### **REFERENCES:**

1.S Sano et al. J Shoulder Elbow Surg Sano et al 771 Volume 17, Number 5