

## Pediatric Radial Neck Fracture: Metaizeau technique

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### INTRODUCTION:

Radial neck fracture in pediatrics is very common and account for 5-10% of pediatric elbow fractures with peak incidence occur in between 5-10 years of age. There are various technique for reduction of radial neck fracture in paediatric age.

### REPORT:

We present a case of 11 years old boy who had alleged fall while playing on monkey bar whereby he had fall on outstretched hand. X-ray revealed fracture right radial neck O'Brien classification type 3. Closed reduction was attempted at emergency department however unable to achieve acceptable reduction. Patient was admitted to the ward and underwent closed reduction with intramedullary K-wiring over right radial neck under general anesthesia.

Intra operatively fracture reduced using manual traction and varus force over elbow. Then instead of using elastic nail, long K wire with diameter size 2 cm was inserted using Metaizeau technique. Another K wire was used proximally and act as joystick to reduced fracture fragment. Reduction was check under image intensifying guidance and able to achieve alignment and reduction of radial neck. Patient was then put on above elbow fiberglass and discharge with follow up.

K wire was removed after 5 weeks post operatively when clinically and radiological findings showed union. Patient was then referred to physiotherapy for aggressive range of motion elbow. During follow up after 3 months showed improved range of motion over right elbow.



**Figure 1:** Preoperative X-ray AP and lateral view right elbow showed displaced radial head fracture



**Figure 2:** Postoperative 2 weeks X-ray AP and lateral view

### CONCLUSION:

The Metaizeau technique has been found to be effective in stabilizing the reduction of radial neck fractures in children

### REFERENCES:

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2. Yallapragada, R. and Maripuri, S. (2020). Radial neck fractures in children: a surgical tip using the metaizeau technique to improve stability of the reduction. *Journal of Orthopaedics*