

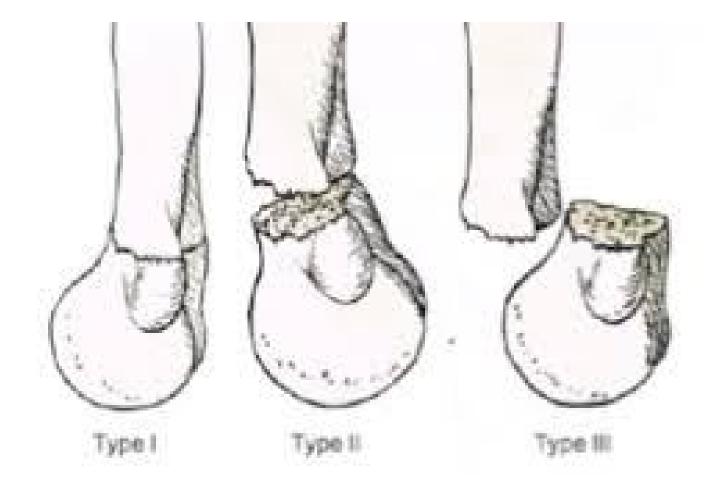


Dr. Sameer Desai

Paediatric Orthopaedic Surgeon

KEM, Sahyadri Hospital, Ruby Hall, Jehangir Hospital Baramati-Last Saturday of every month

Gartland's classification

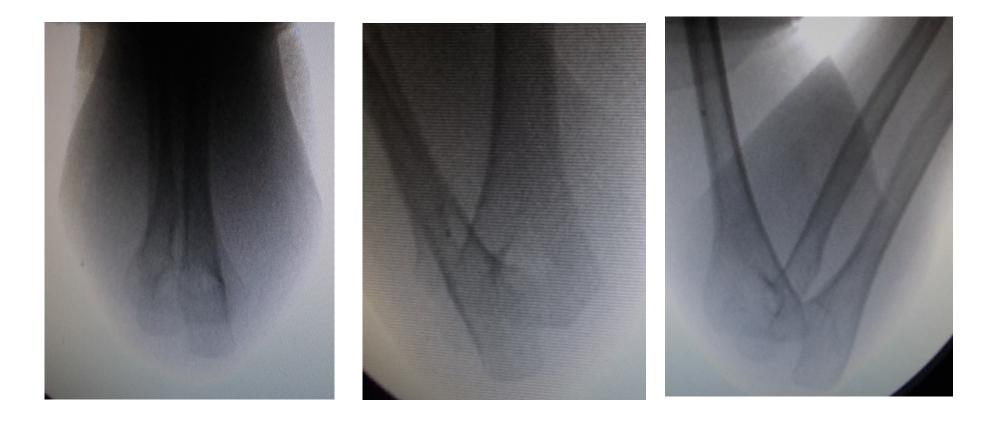


Management of Type1 and stable Type2

Closed reduction



Check stability in Rotation



Slab and strapping



Fish Tail Sign



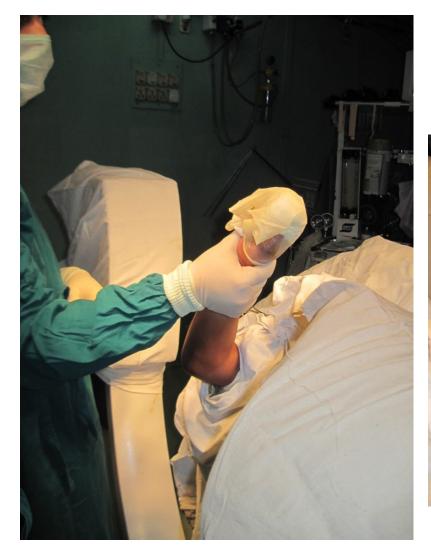


Unstable fractures- How I fix it

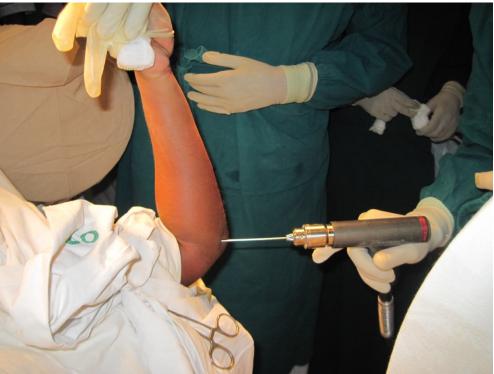




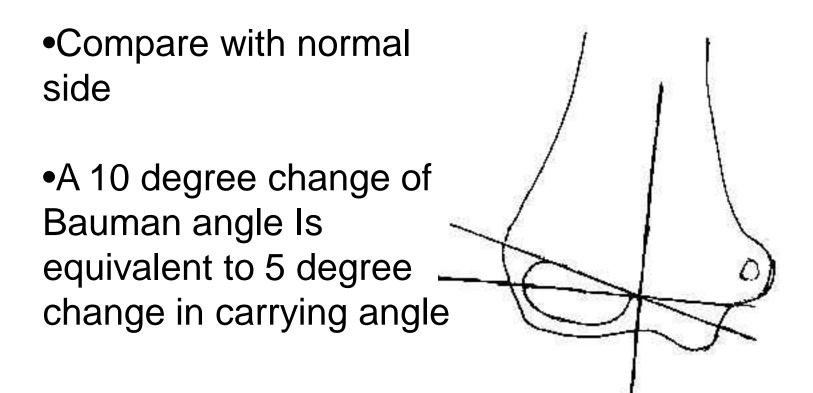
K wire fixation



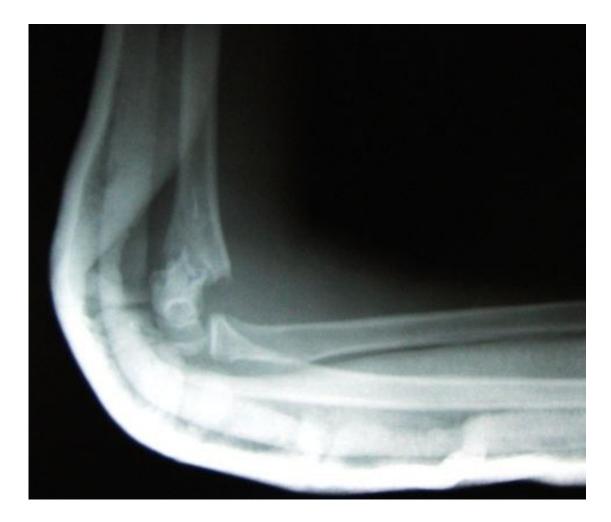
Insert all K wires in lateral view



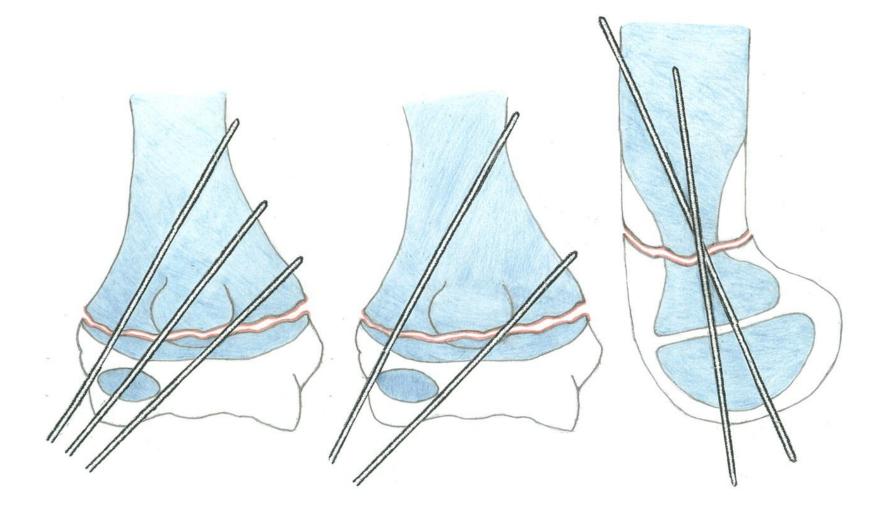
Baumans Angle



Fish Tail Sign and Crescent Sign



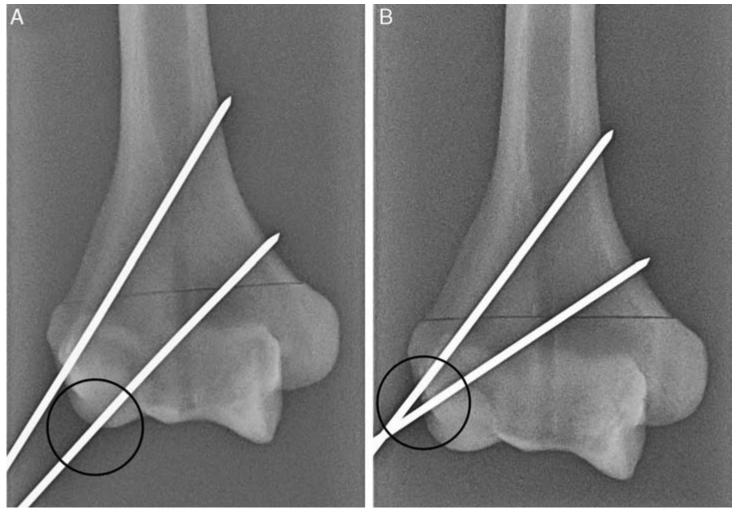
Pin Configuration



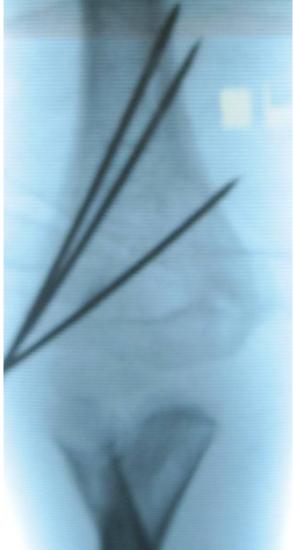
Pin configuration

Starting point Within cartilagenous anlage

Starting point Extra articular

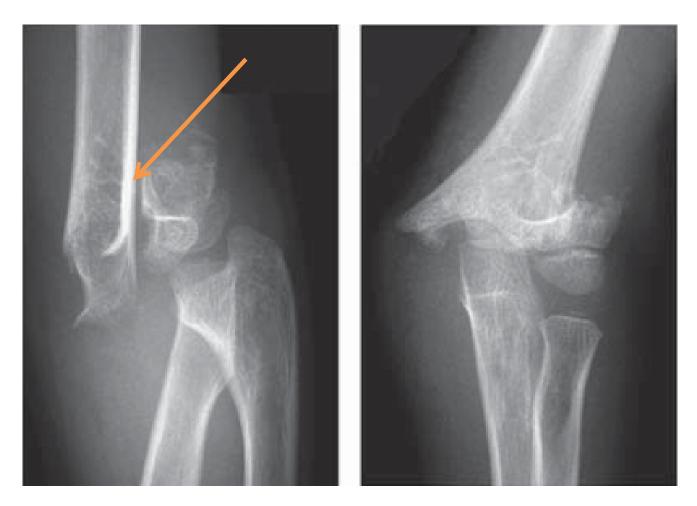


Wire through olecrenon fossa-4 point fixation



Tips for irredicible fracture

Joystick method



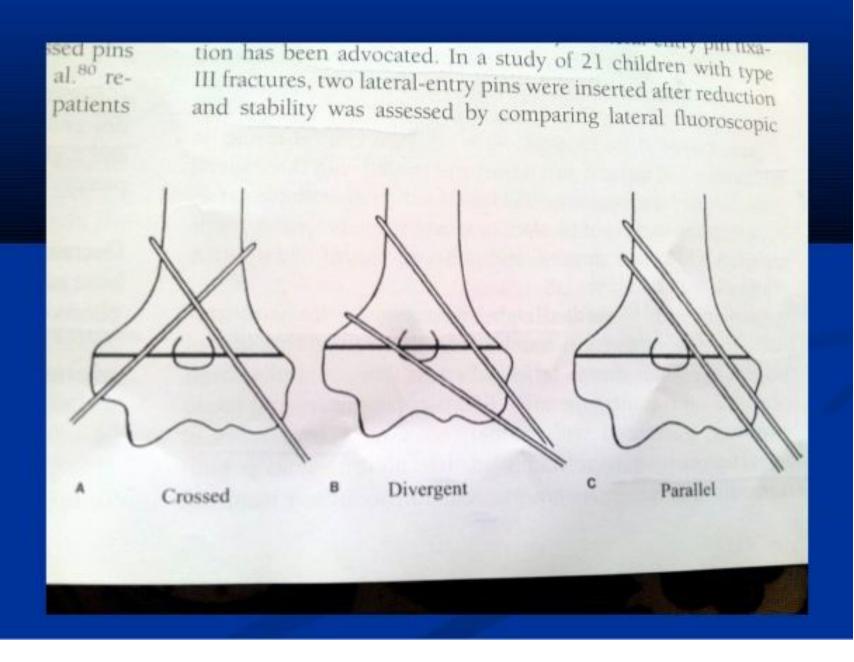
Anterior Joystick- Dr. Viraj Shingade

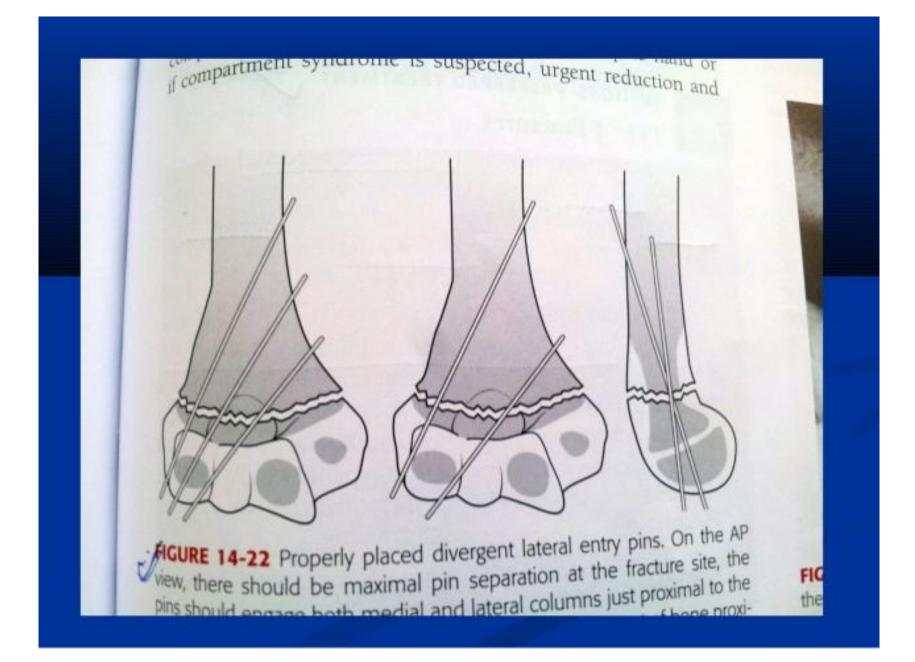
Anterior entry point



Suction canulla







Unstable Fractures

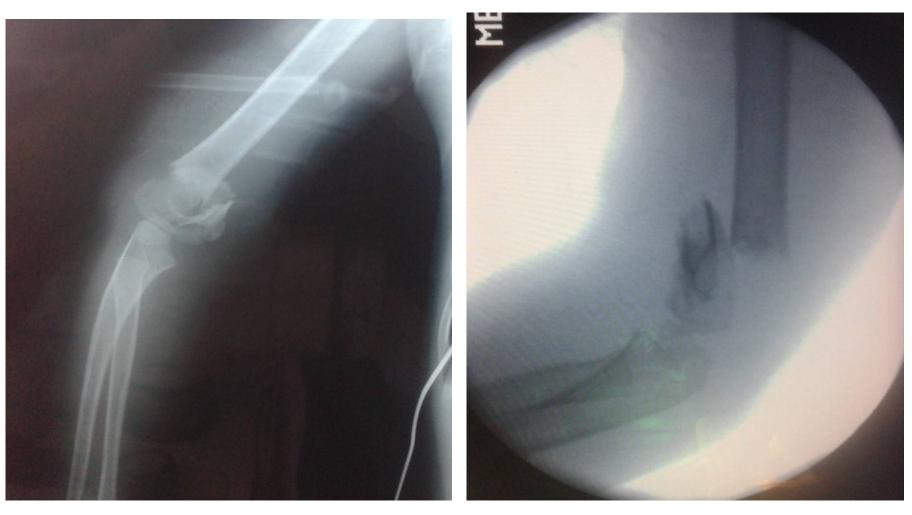
Oblique Fracture

High sagittal fracture



Supracondylar fracture

Flexion



Technique of close reduction and percutaneous pinning



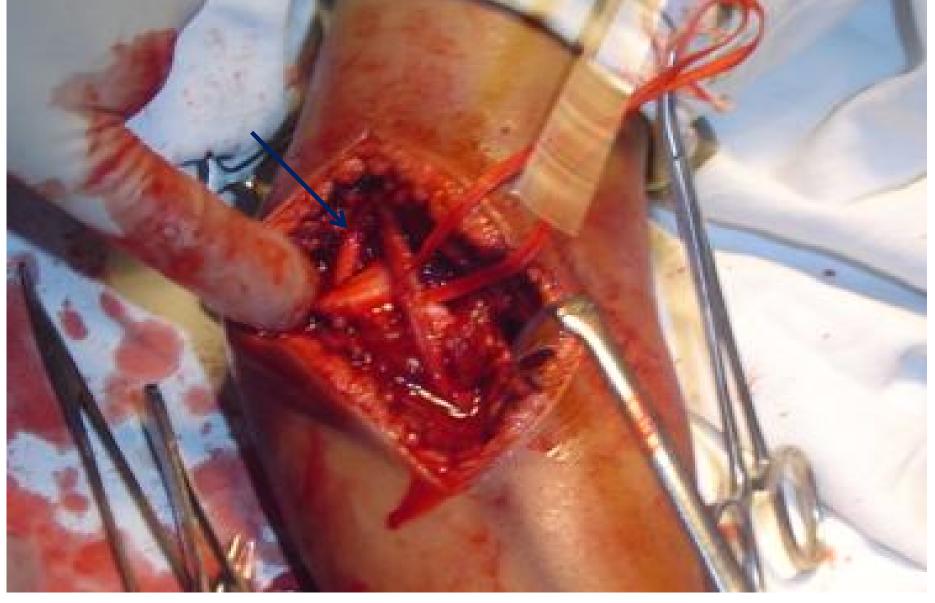
- Pinning is generally required for unstable type II and III flexion supracondylar fractures.
- Pinning should be performed after closed reduction with the elbow in mild flexion (usually at 30 degrees) or full extension, holding the elbow in reduced position

Pink Pulseless hand with median nerve injury

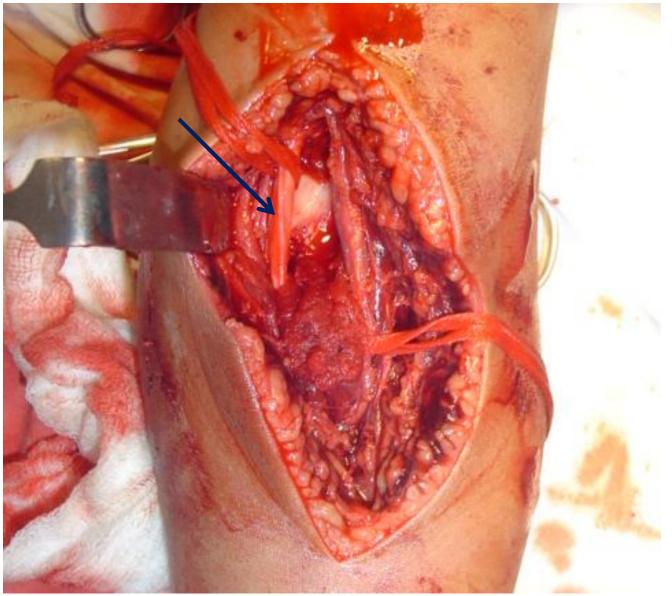




Posterior displaced median nerve



Medain nerve after release



Conclusion of our study

- Type 3 supracondylar fractures without neurovascular injury- closed reduction and 3 lateral k wires
- Type 3 supracondylar fractures with brachial artery injuryopen reduction with exploration of median nerve and brachial artery and 2 lateral and 1 medial K wire insertion
- Pre operative accurate assessment of nerve injury may be difficult because of pain and lack of co operation
- 4 cases had posterior displacement of median nerve. A closed reduction would have caused median nerve palsy
- A higher incidence of median nerve palsy in most of the series could be because of median nerve being entrapped during reduction maneuver

Conclusion

- Availability of vascular surgeons has made it easier for exploration of nerve and vessels and their repair
- It is best left to the discretion of the surgeon whether to closely observe the child for 48 hrs after closed reduction of a pink pulseless hand
- Or to sleep peacefully after you have done a vascular repair and removed the entrapment of the median nerve

Thank you