14+11 or fall snowboarding





Proximal Humerus Fractures

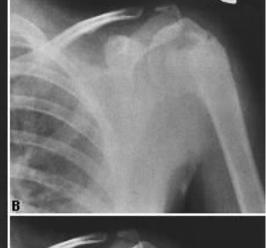
- Vast remodeling potential
- Anatomic reduction unnecessary if > 2y of growth remaining
- Residual deformity in adolescents can lead to impingement during overhead activities
- No evidence based criteria are available to establish a threshold ORIF in a child with open growth plates



Neer – Horowitz Classification Proximal Humeral Physeal Fractures

- Grade I- < 5 mm
- Grade II < 1/3 shaft width
- Grade III <= 2/3 shaft width
- Grade IV > 2/3 shaft width
- -Proximal fragment sits in flexion, abduction and external rotation due to cuff
- -Distal fragment is shortened and in adduction due to deltoid and pectoralis









Proximal Humerus Fractures

- If remodeling potential is inadequate Neer type III/IV fracture in a child > 11 the advantages of fixation must be considered
- Biceps entrapment with ORIF
- Pins
 - threaded
 - bent
 - buried
- Flexible Nails



14+11 or fall snowboarding





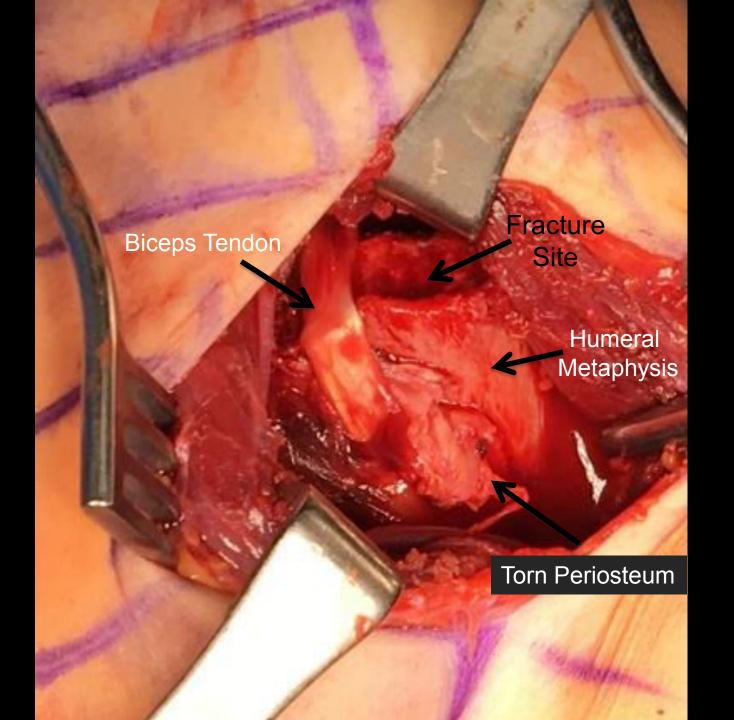


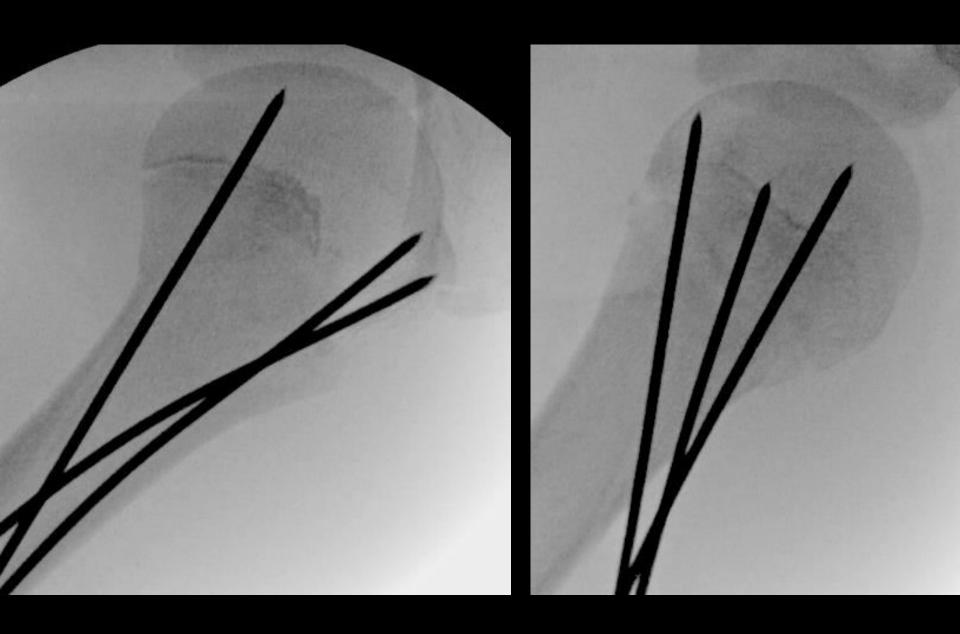
Displaced proximal humerus fracture



3 D CT Scan showing fracture displacement







Fixated fracture with 3 buried smooth pins





Healed fracture following pin removal



Healed fracture following pin removal