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REVIEWING THE PAEDIATRIC ELBOW X-RAY

ARE THE FAT PADS **NORMAL?**



Check the fat pad lateral projection: ds on the

- A displaced anterior fat pad (sail sign) is abnormal
- A visible posterior fat pad is always abnormal
- 3. Not all joint effusions are associated with fractures.
- An effusion often suggests that a significant injury has occured. This is irrespective of if a fracture can be seen or not

IS THE ANTERIOR HUMERAL LINE NORMAL?



Check the humeral line on the lateral projection:

- 1. A line traced along the anterior cortex of the humerus should have at least
- 2. If less than one third of the capitellum lies anterior to this line, there is a strong probability of a supracondylar fracture with the distal fragment (including the capitellum) displaced posteriorly.

IS THE RADIOCAPITELLAR LINE NORMAL?



Check the ra pitellar line on the lateral projection:

- A line drawn along the longituding If it does not pass through the capitellum: a radial head dislocation is likely.
- The normal radius frequently shows a bend or slight angulation in the region of its tuberosity. Draw the RC line along the long axis of the proximal 2-3 cm of the radius. Not along the long central axis of the shaft of the radius.

OSSIFICATION CENTRES

ARE THE OSSIFICATION CENTRES NORMAL?











AP Lateral: CRITOL Sequence

The order in which the ossification centres appear...

From birth - 12 years old

- C = Capitellum (1 year*)
- R = Radial Head (3 years*)
- = Internal epicondyle (5 years*)
- = Trochlea (7 vears*)
- = Olecranon (9 years*)
- = Lateral Epicondyle (11 years*)

*Approx. age you'd expect them to appear

KEY POINTS TO REMEMBER:

The order is more important than the ages. I always comes before T.

If you see the ossified T before the

then I has more than likely been avulsed

TYPES OF INJURIES: COMMON & RARE

COMMON TYPES OF INJURIES





Avulsion of the Medial



Pulled Elbow

RARE, BUT IMPORTANT!!



Isolated Dislocation of the Radial Head



(fracture of middle 1/3rd of ulna with slight











