## Ulnar Osteotomy Views

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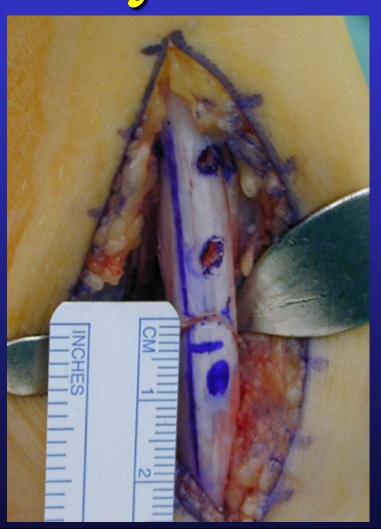
#### Reason for Xray????

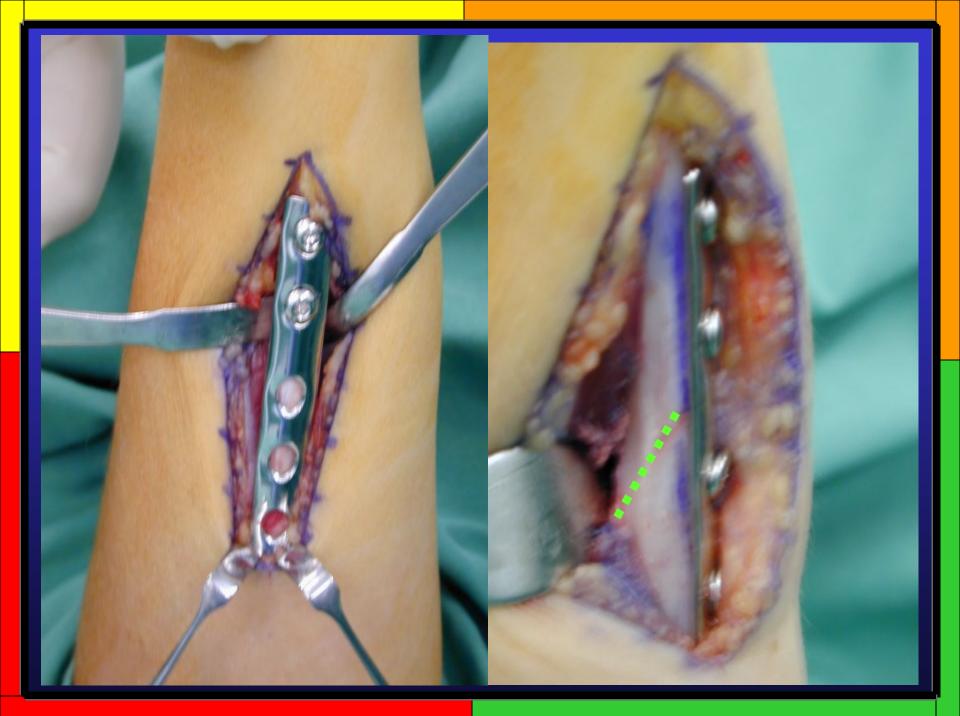
- 1. Alignment of the Osteotomy
- 2. Assess Osteotomy Union

- The PROBLEM!!
  - The Radius gets in the way!
  - The Ulna doesn't move with normal forearm Xrays

#### "Ulna Osteotomy View"







#### Xray Beam

"Fracture"

#### Xray Beam

"No Fracture"

# Xray Beam Plate

#### What didn't change?



Supination

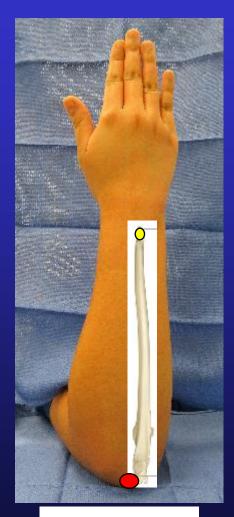


Neutral

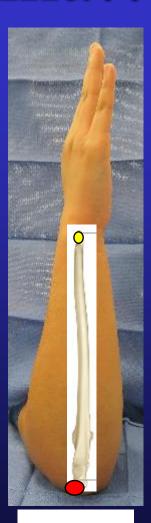


Pronation

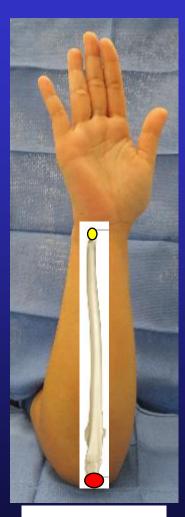
#### Ulna!!!!



Supination



Neutral



Pronation

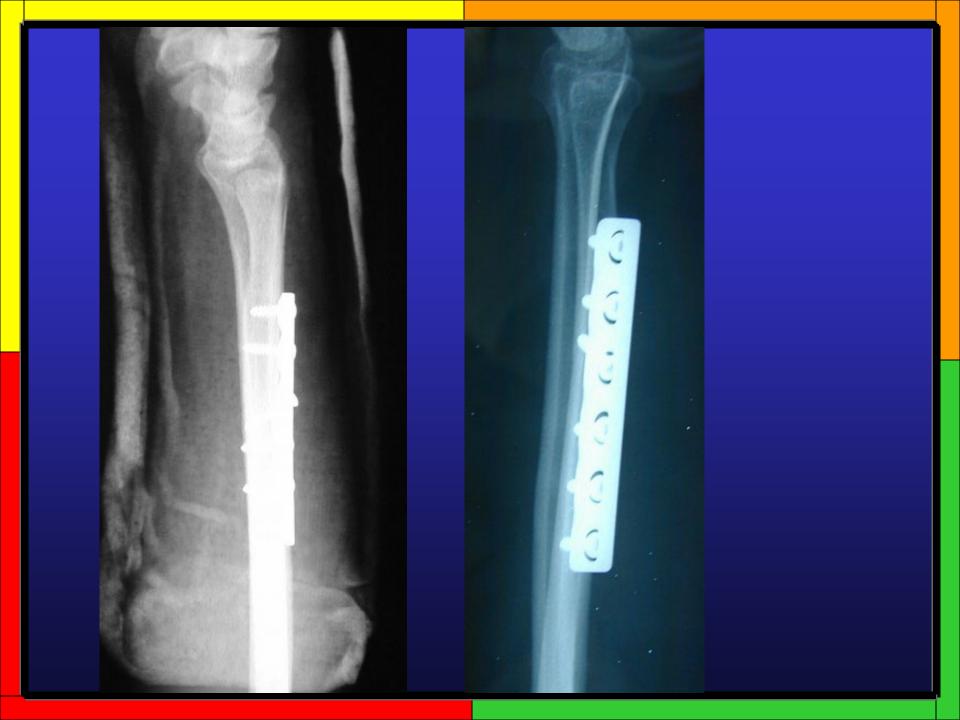
#### "Ulnar Osteotomy Xray"

- Purpose of the Xray
  - Check Alignment
  - Assess post op Ulnar variance ( x 1<sup>st</sup> post op visit)
  - Assess Osteotomy union

- Reflect on How the following Xrays taken
- What is the Problem??











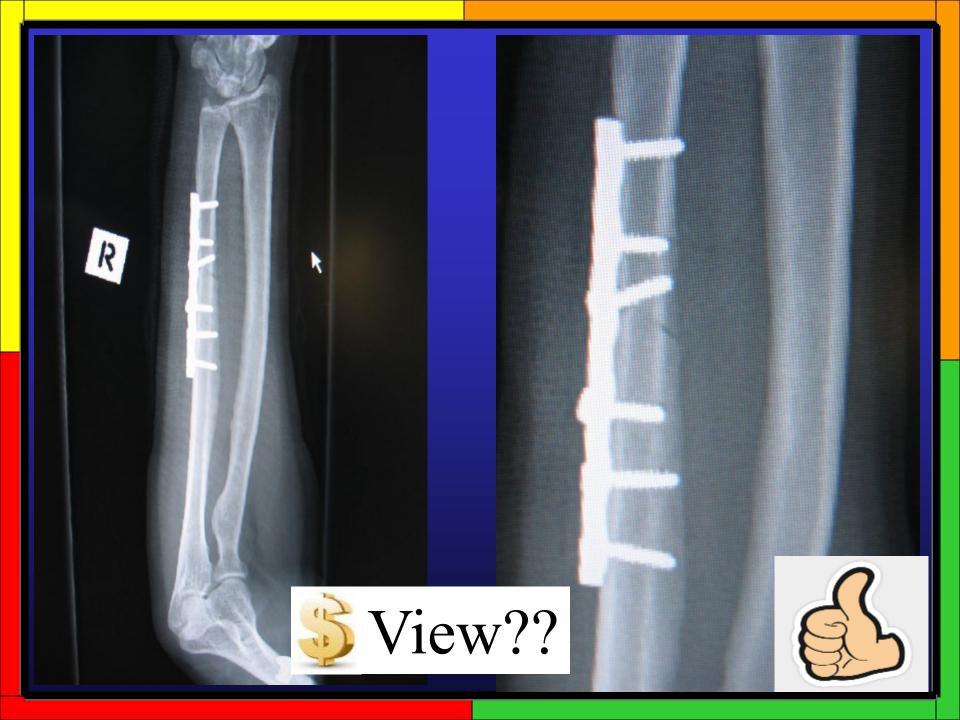












#### What Next??

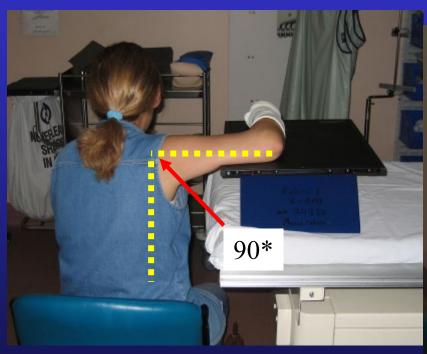


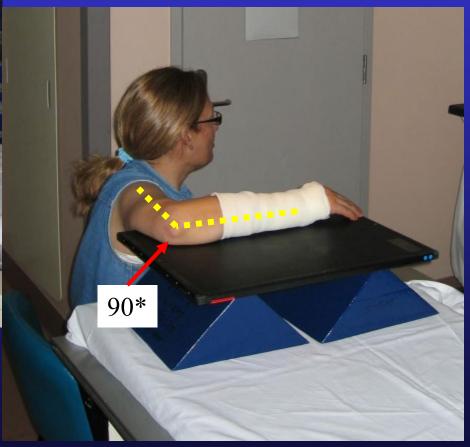
#### What Next??

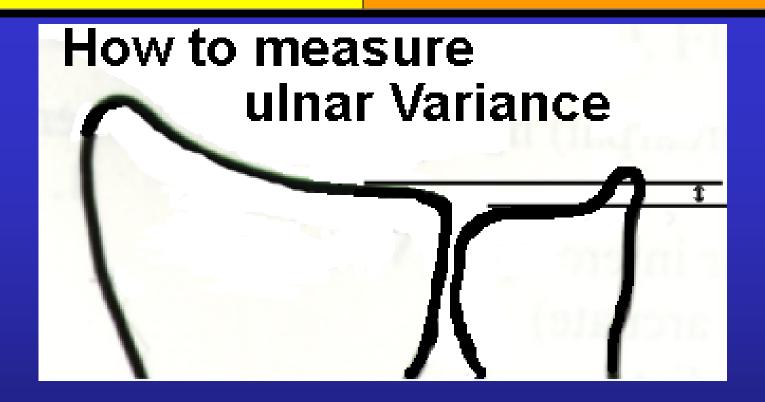


• Remind the patient how the Xray was taken!!

#### 90:90 Position







- if Radius longer than ulnar this is called Ulnar Minus (ie "2mm Ulnar minus")
- if Ulnar longer than Radius this is called Ulnar Plus



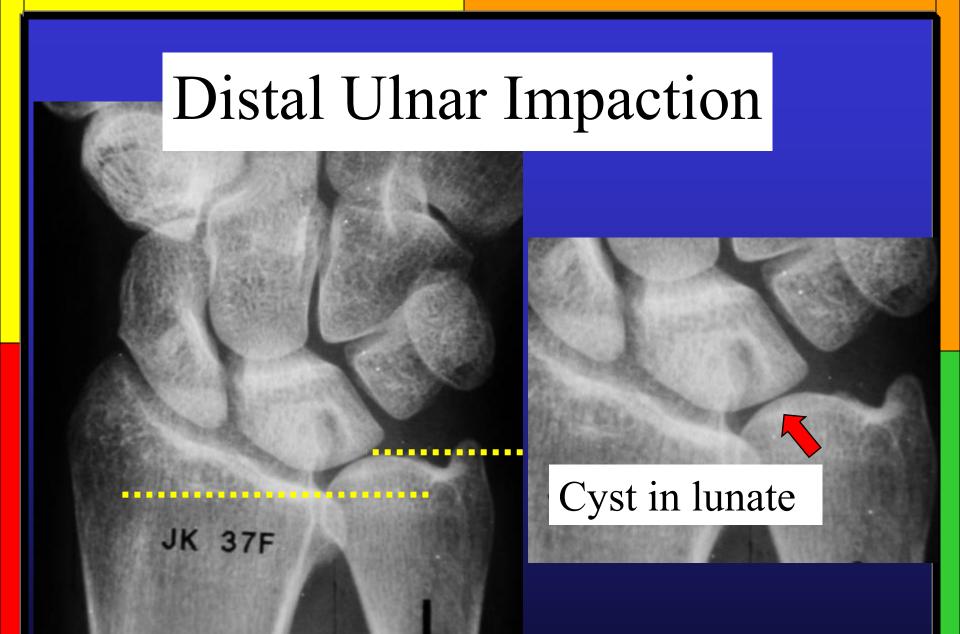
UlnarVariance

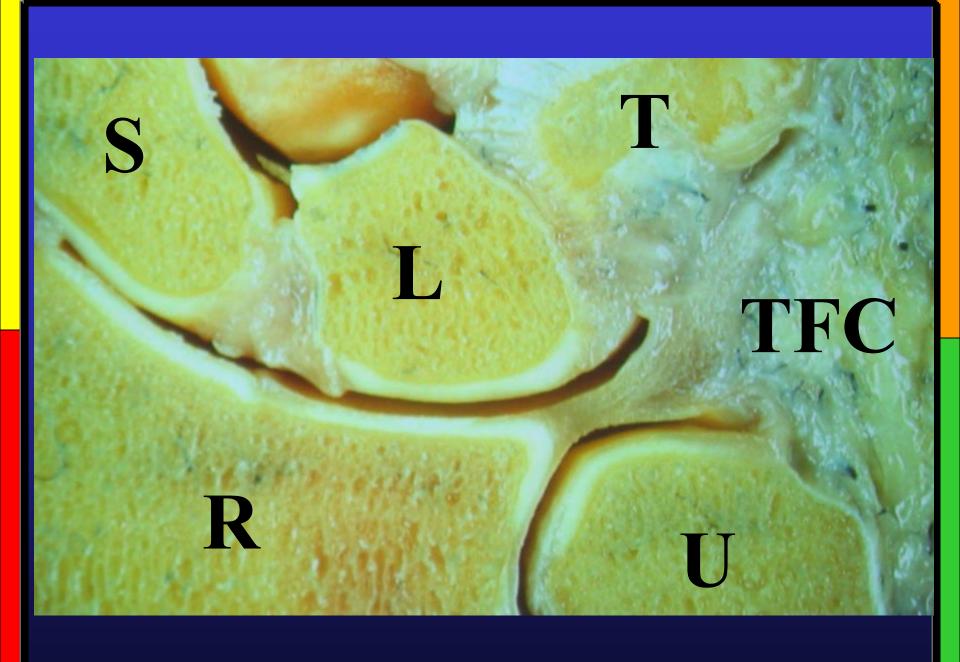


#### Ulna Variance

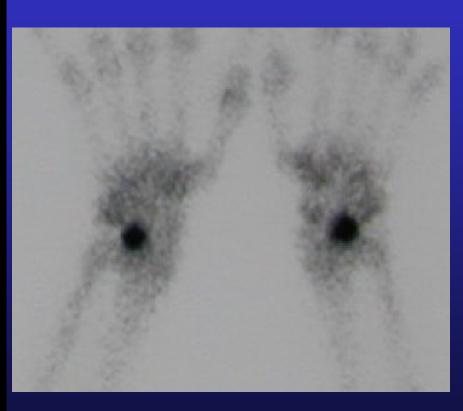
"Neutral"

60% population

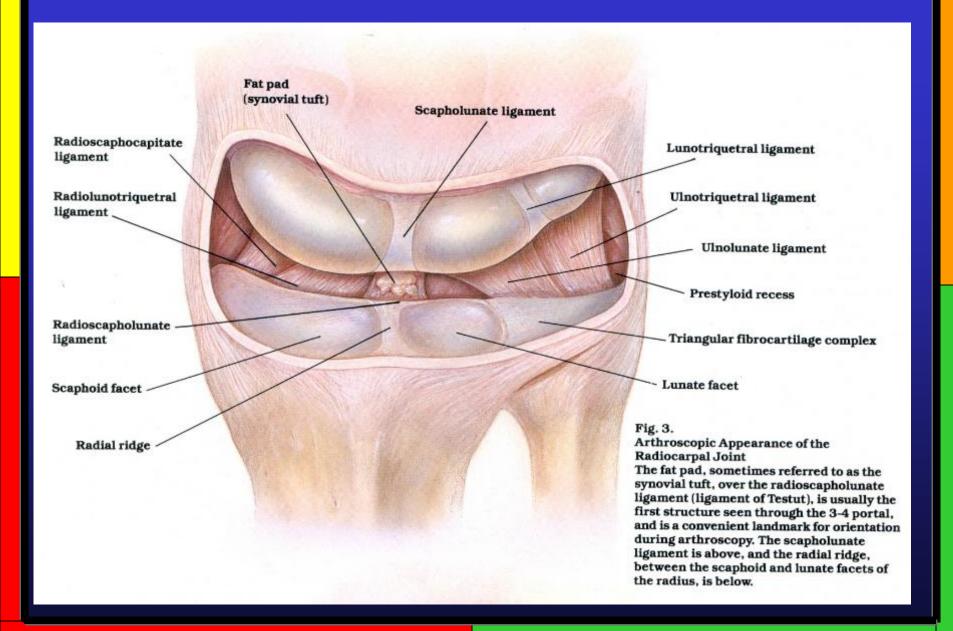




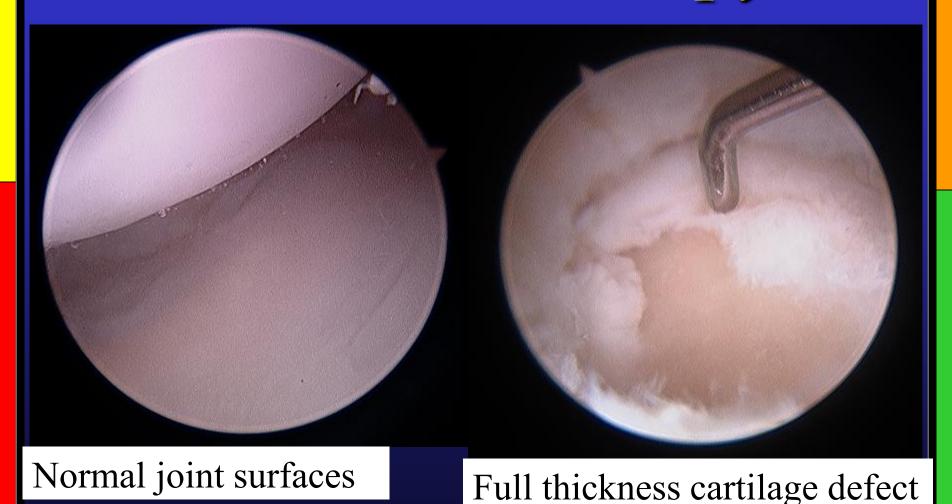
#### Distal Ulna impaction

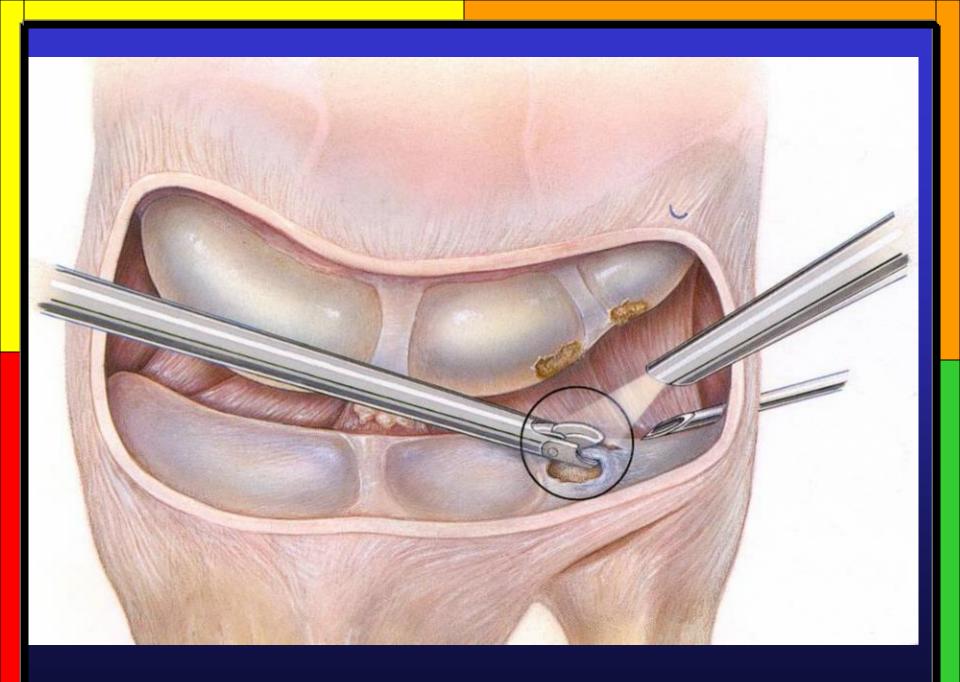






#### Wrist Arthroscopy





### Distal Ulnar Impaction Lunate JK 37F **TFC** Ulna head

#### Same wrist!!



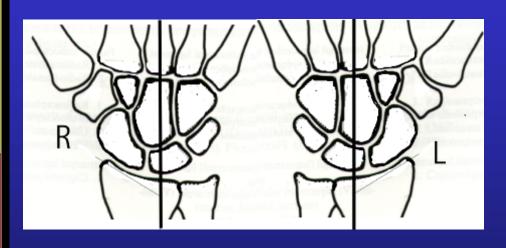


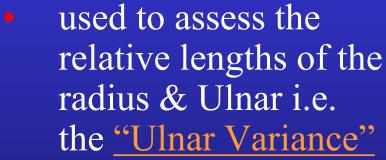
#### Same wrist!!





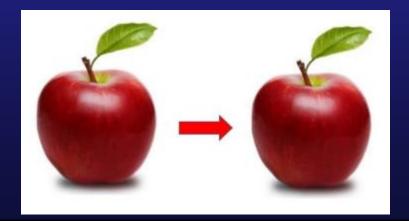
#### "90/90 Views"







- Shoulder at 90\*
- elbow at 90\*
- forearm in neutral rotation



#### Force across wrist

