



# Glenoid & Scapula Fxs

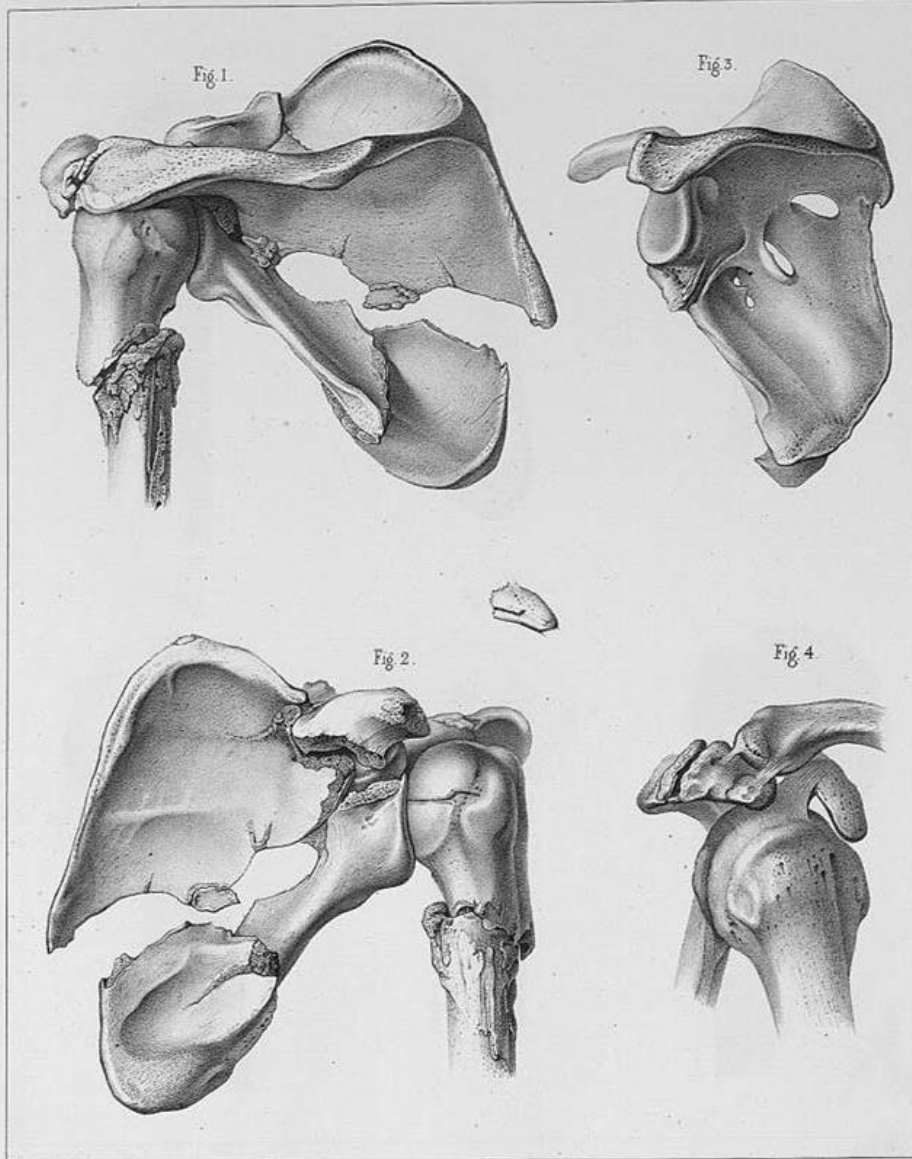


**Utku KANDEMIR, MD**

Professor

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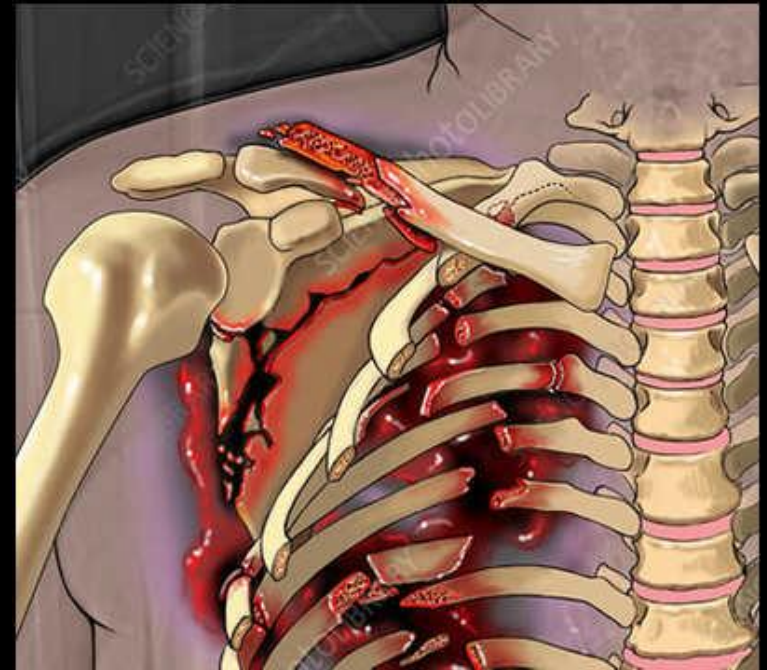




Delshays del et lith.

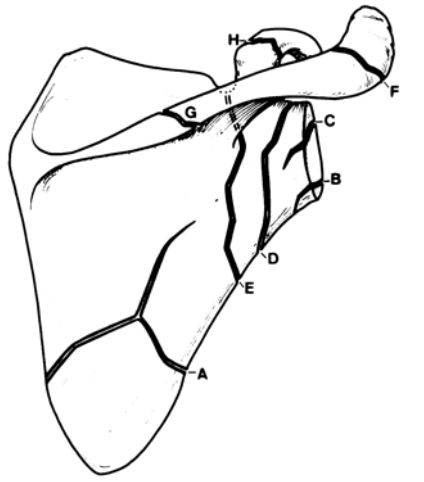
Imp. Lith. de Becquet

*Fractures de l'Omoplate et du Col de l'Humérus.*

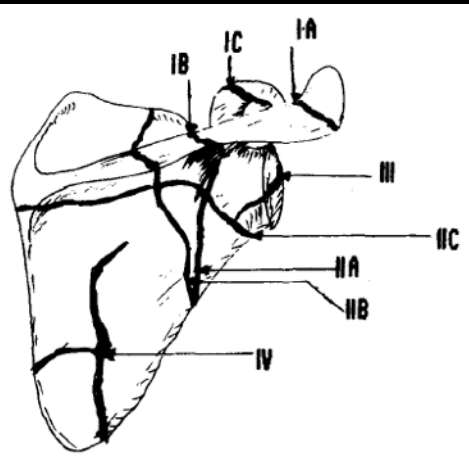


Malgaigne. Fractures. 1855

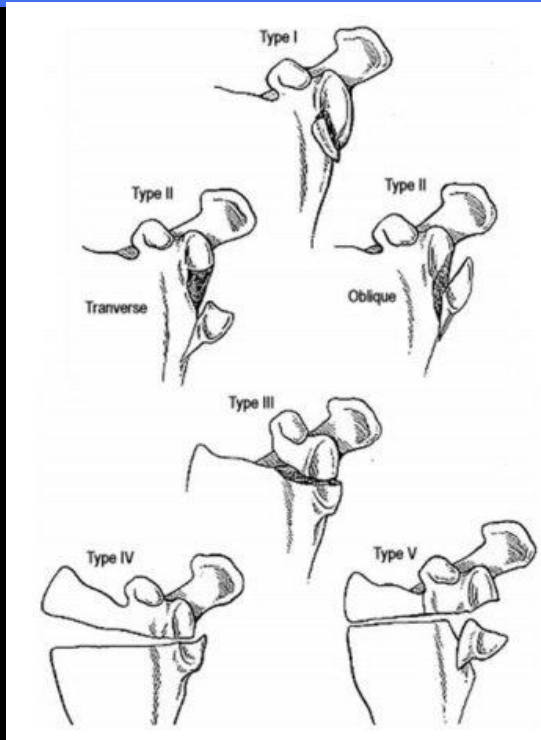
# Scapula Fractures



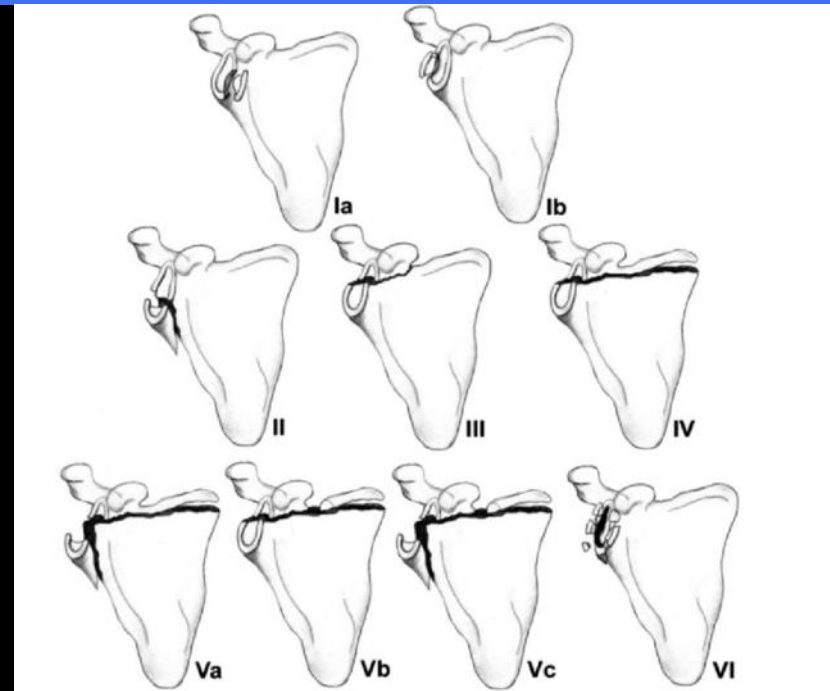
Hardegger



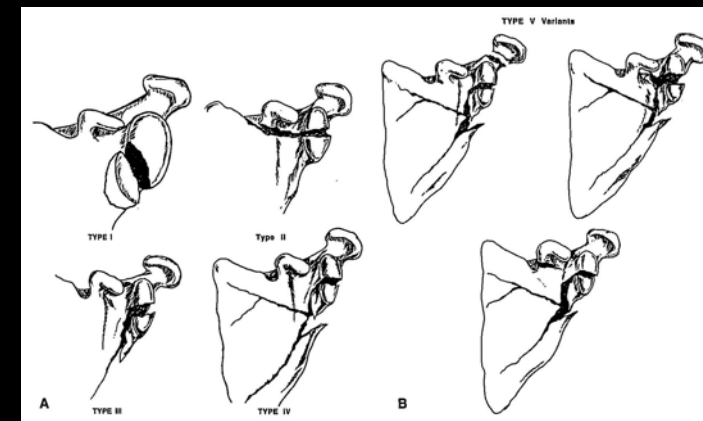
Ada & Miller



Ideberg



Goss



Mayo



# Indications

## □ GLENOID:

- Instability
- Articular step-off >3-4mm

- Glenopolar angle <22°

## □ BODY:

- Lateral Border Offset >2cm
- Body Angulation >45°
- Clavicle & Scapula Displacement >1cm



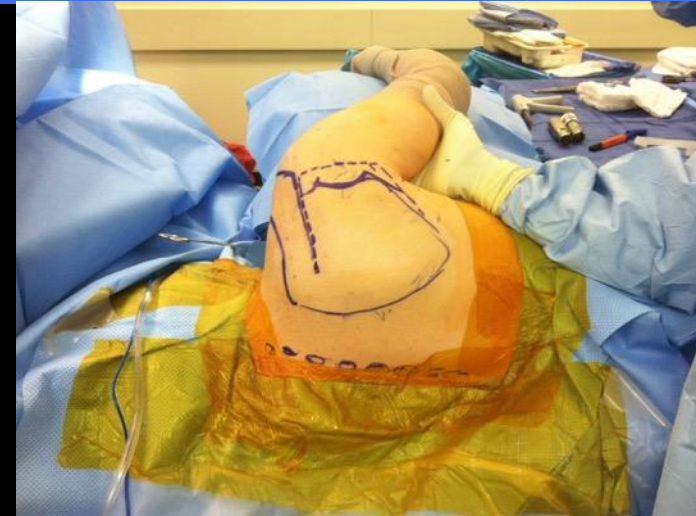
# Surgical Approaches

## □ ANTERIOR

- Deltopectoral

## □ POSTERIOR

- Judet (Extensile)
- Modified Judet
- Limited /MIS



Judet R. Acta Ortho Belgica 1964

# Surgical Approaches: POSITION

## □ ANTERIOR

- Beach chair

- Supine

## □ POSTERIOR

- Lateral decubitus

- Prone



# Posterior Approach

Utku Kandemir, MD ©

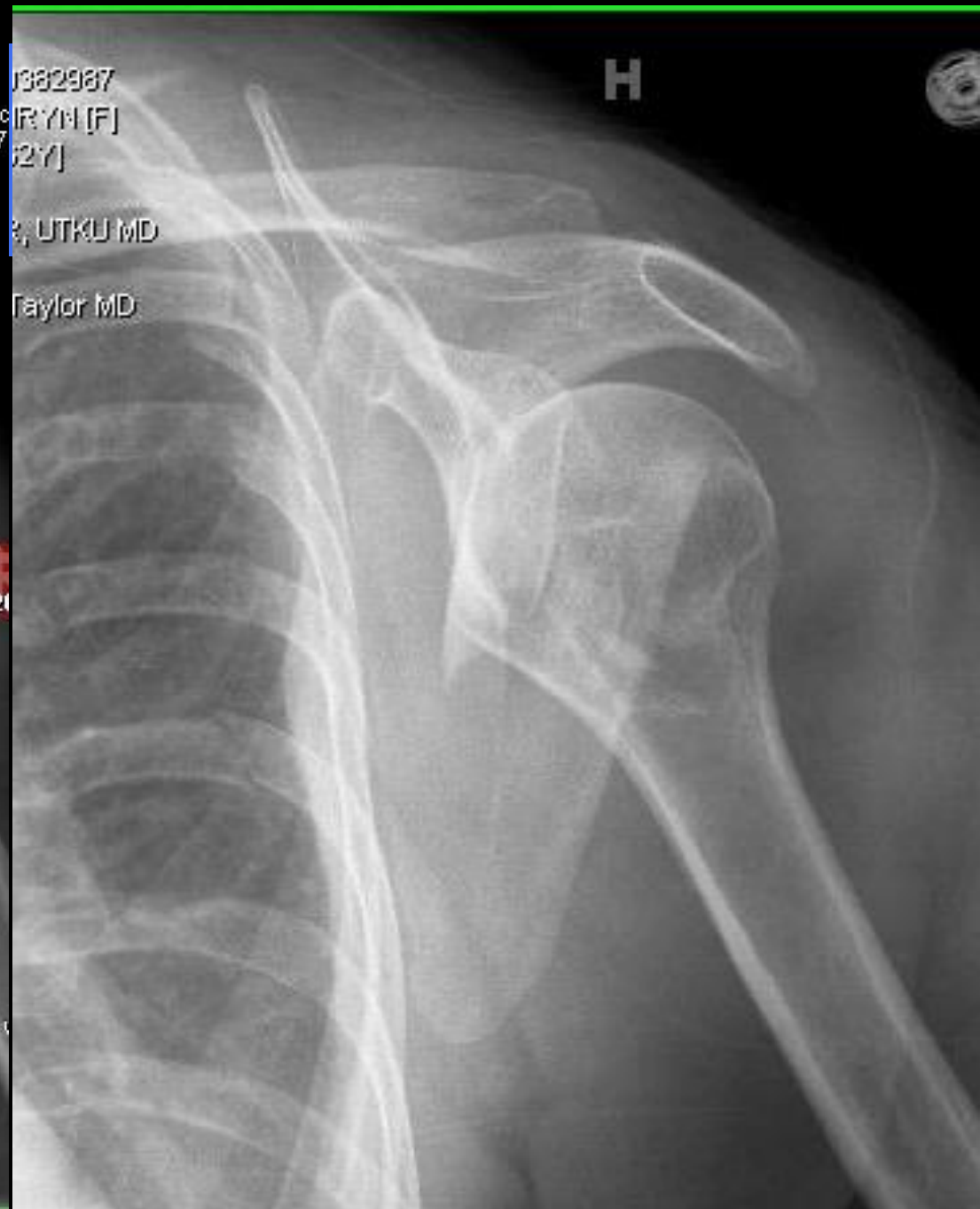
## **Scapula : Posterior Approach**

**Utku Kandemir, MD**

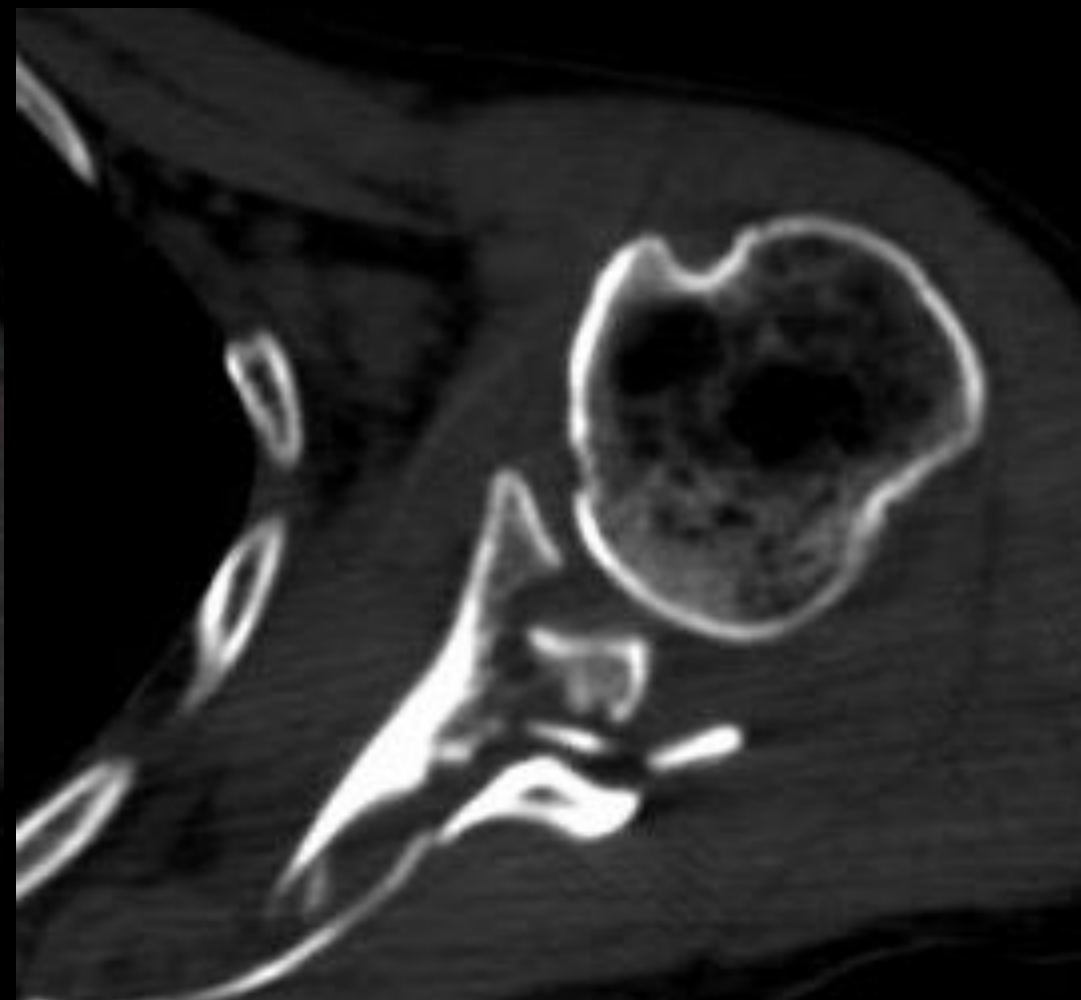
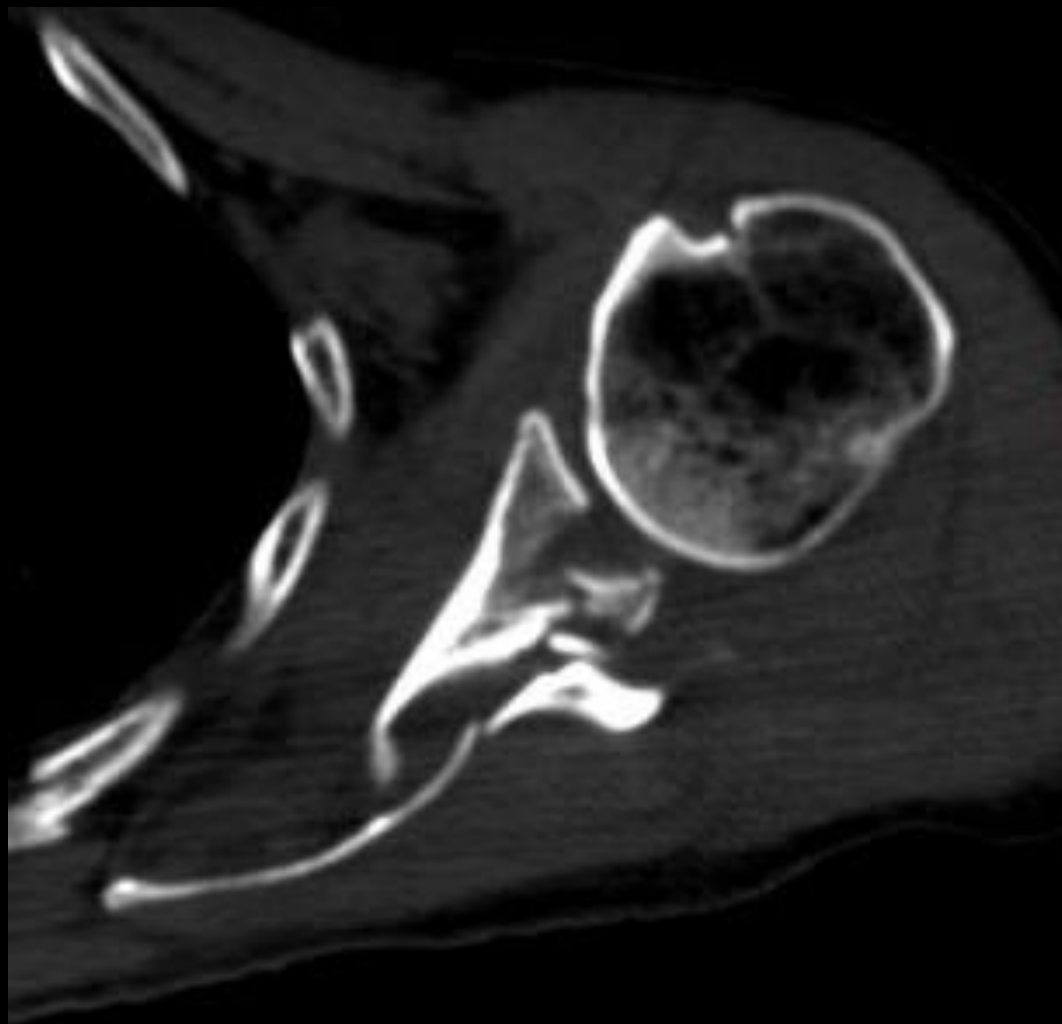
# KB

- 62 y/o female, RHD
- s/p MVA
- Pelvis fracture
- Left shoulder fracture dislocation - reduced
- Referred 3 weeks postinjury





62 yo

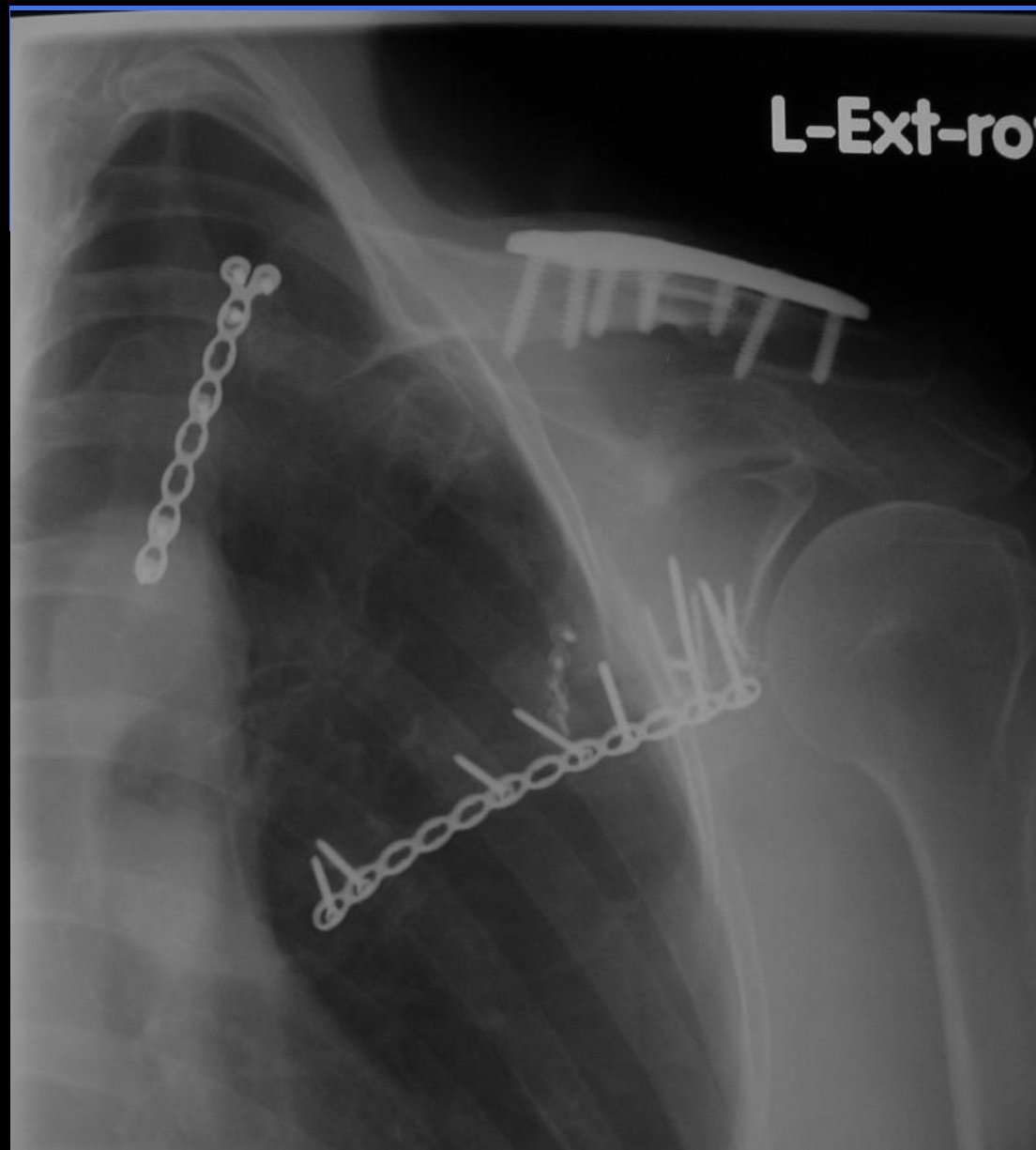


for MD



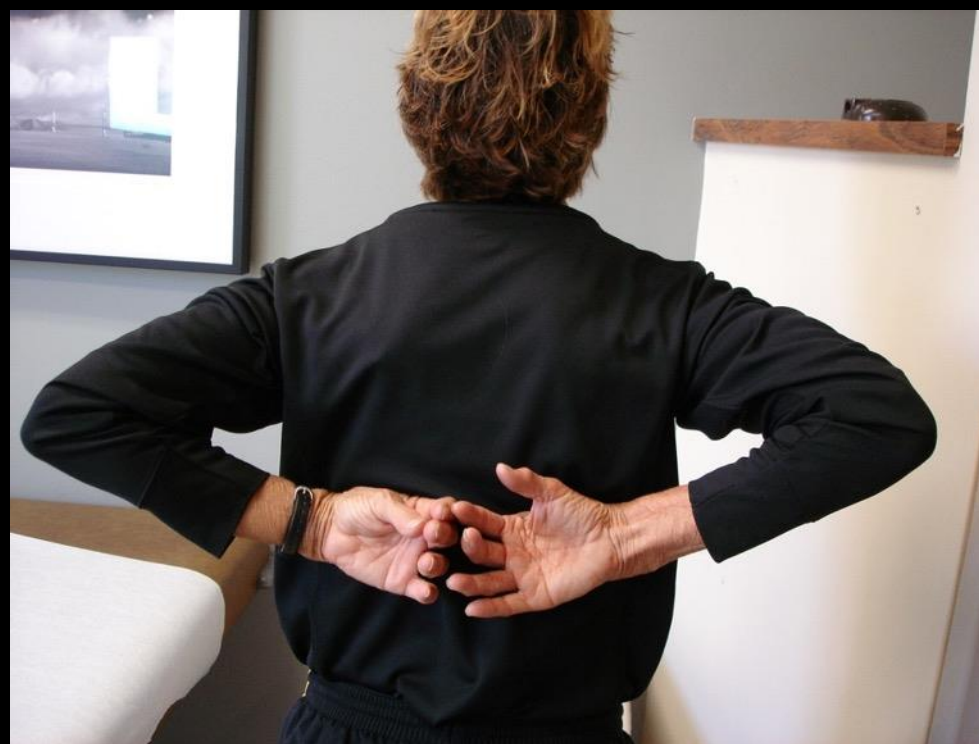
L-Ext-rot

R





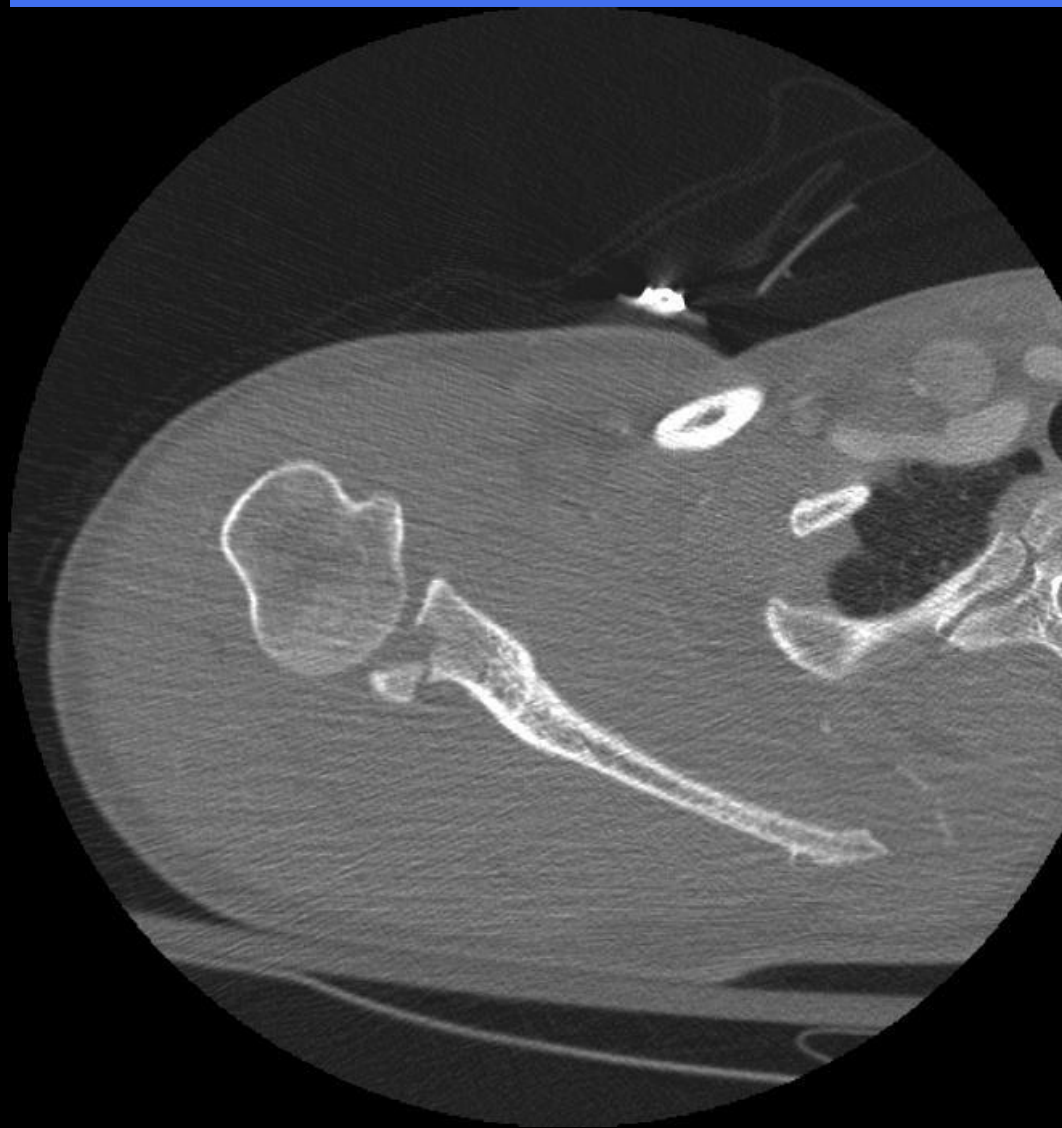
4.5 months postop



# IM

- 30 y/o, hairstylist, RHD
- s/p MCA
- c/o R shoulder pain, isolated injury
- Distally NV WNL







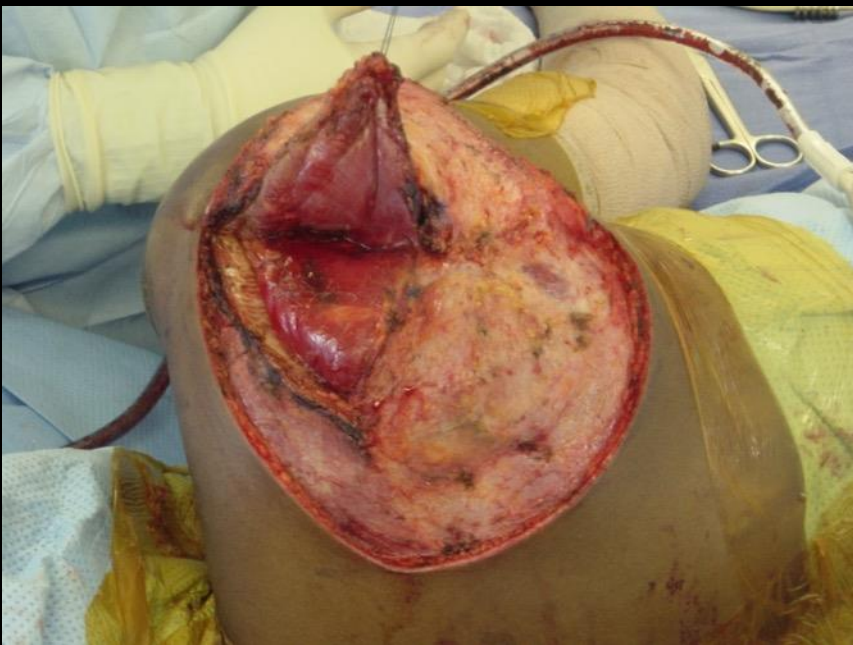
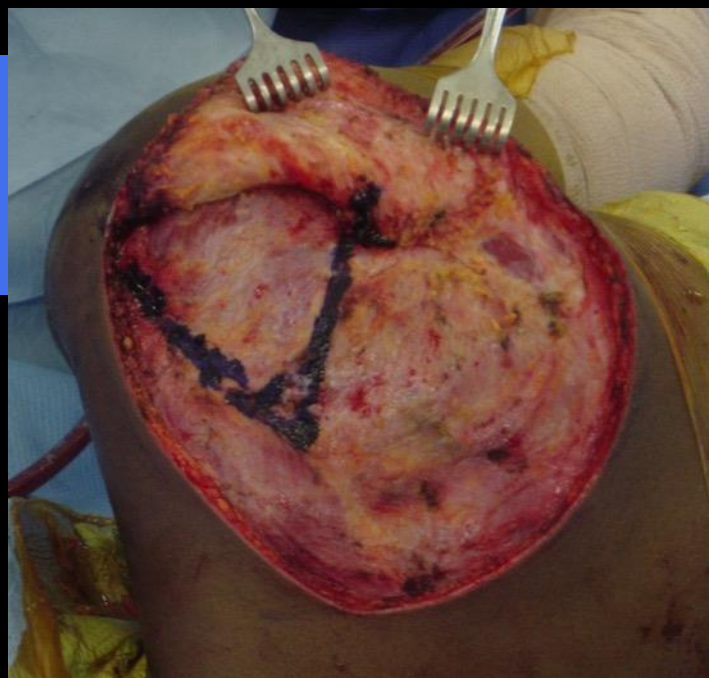
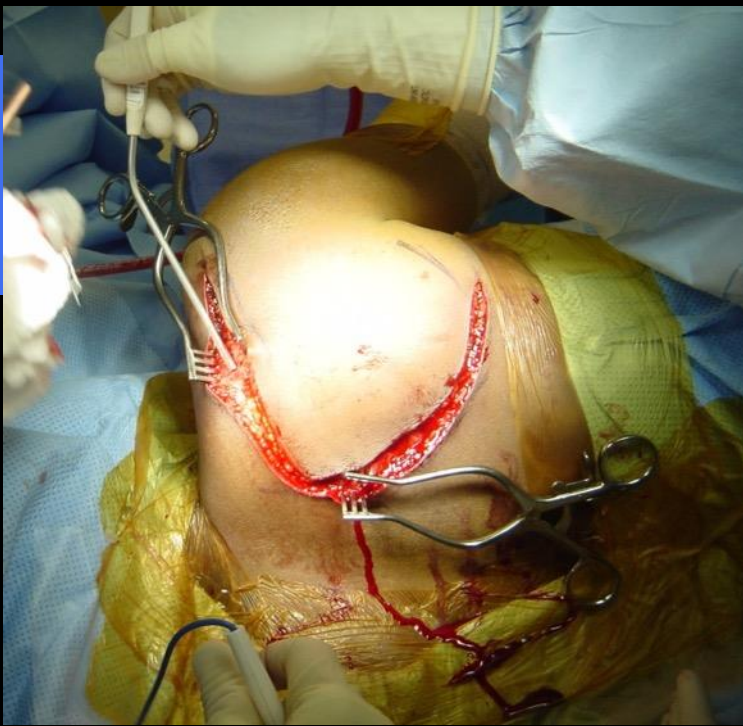
Nb View

Rotati

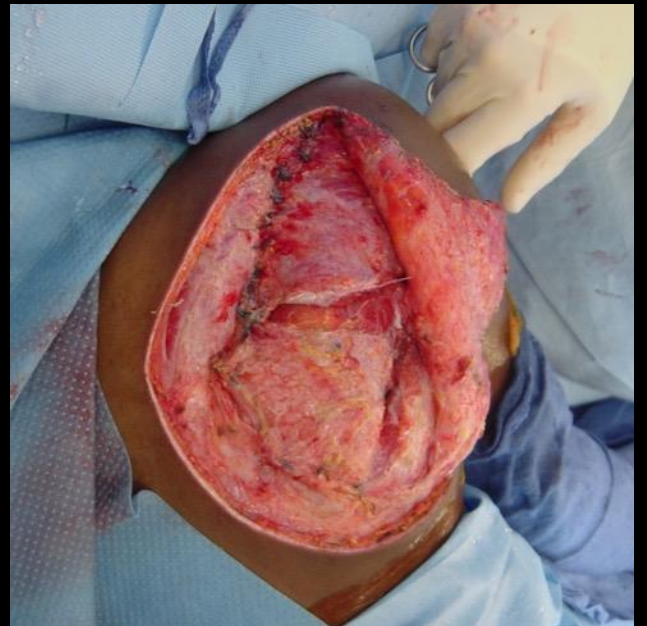
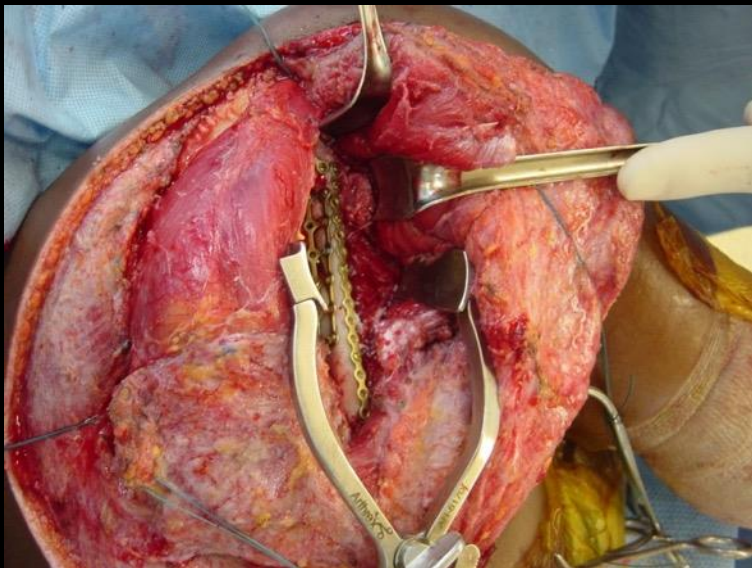
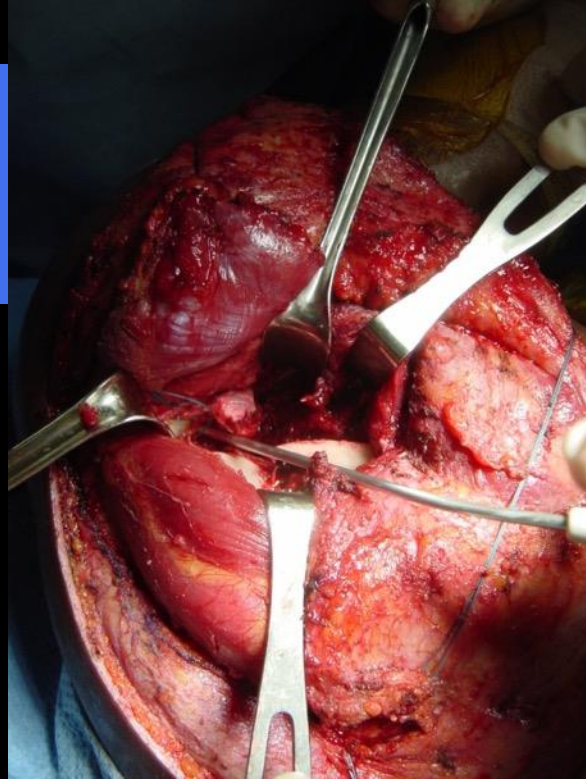






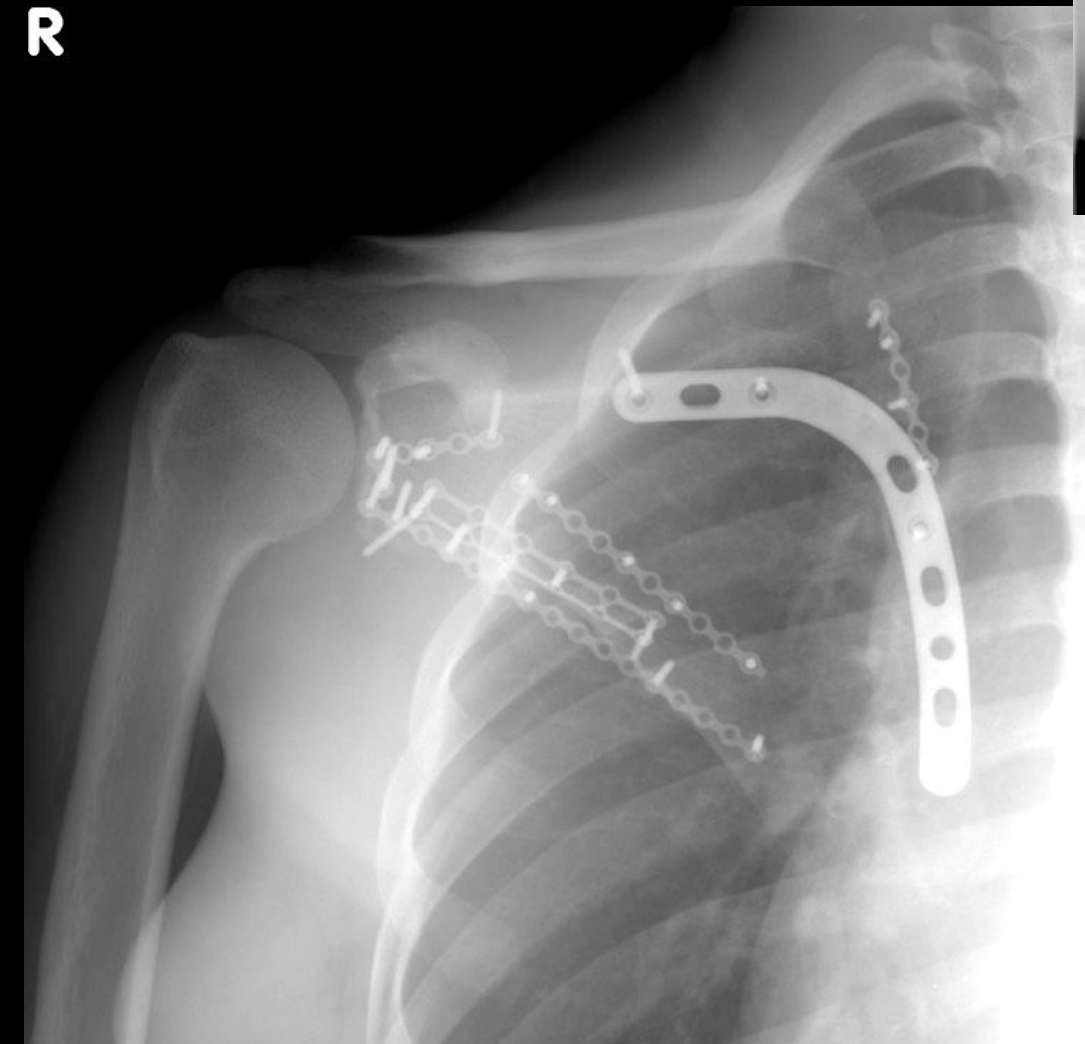








R





# 3 months follow up



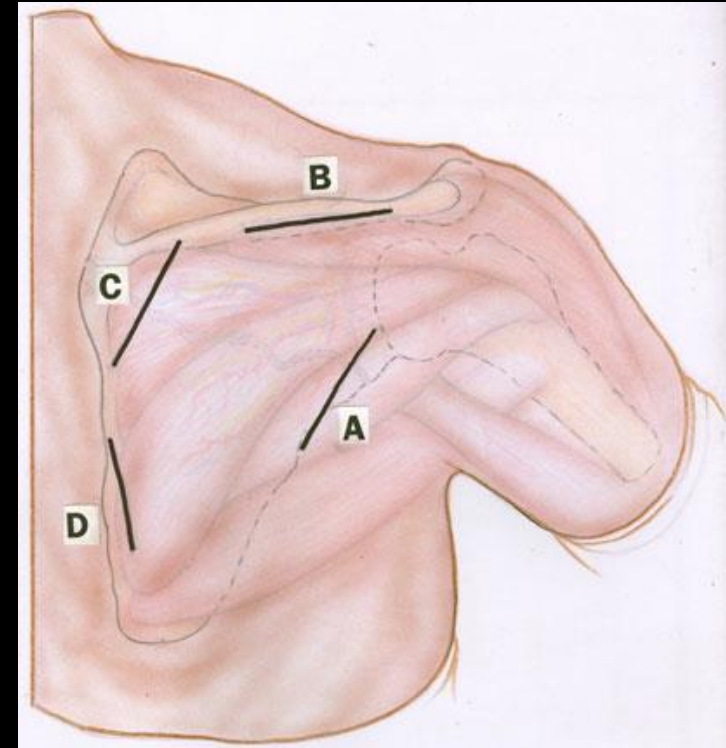


# 3 months follow up



# Limited Approach: Indications

- ❑ Scapular body, Simple fracture patterns
- ❑ Within a week of injury
- ❑ Posterior glenoid



# Limited Approach: Advantages

- Minimize
  - subcutaneous flaps
  - Disruption of post musculature
- No need of post deltoid detachment
- Less scar (skin, deeper layers)
- Early rehab/ Quicker recovery



# Limited Posterior Approach



42 y/o, coast guard, s/p MCA

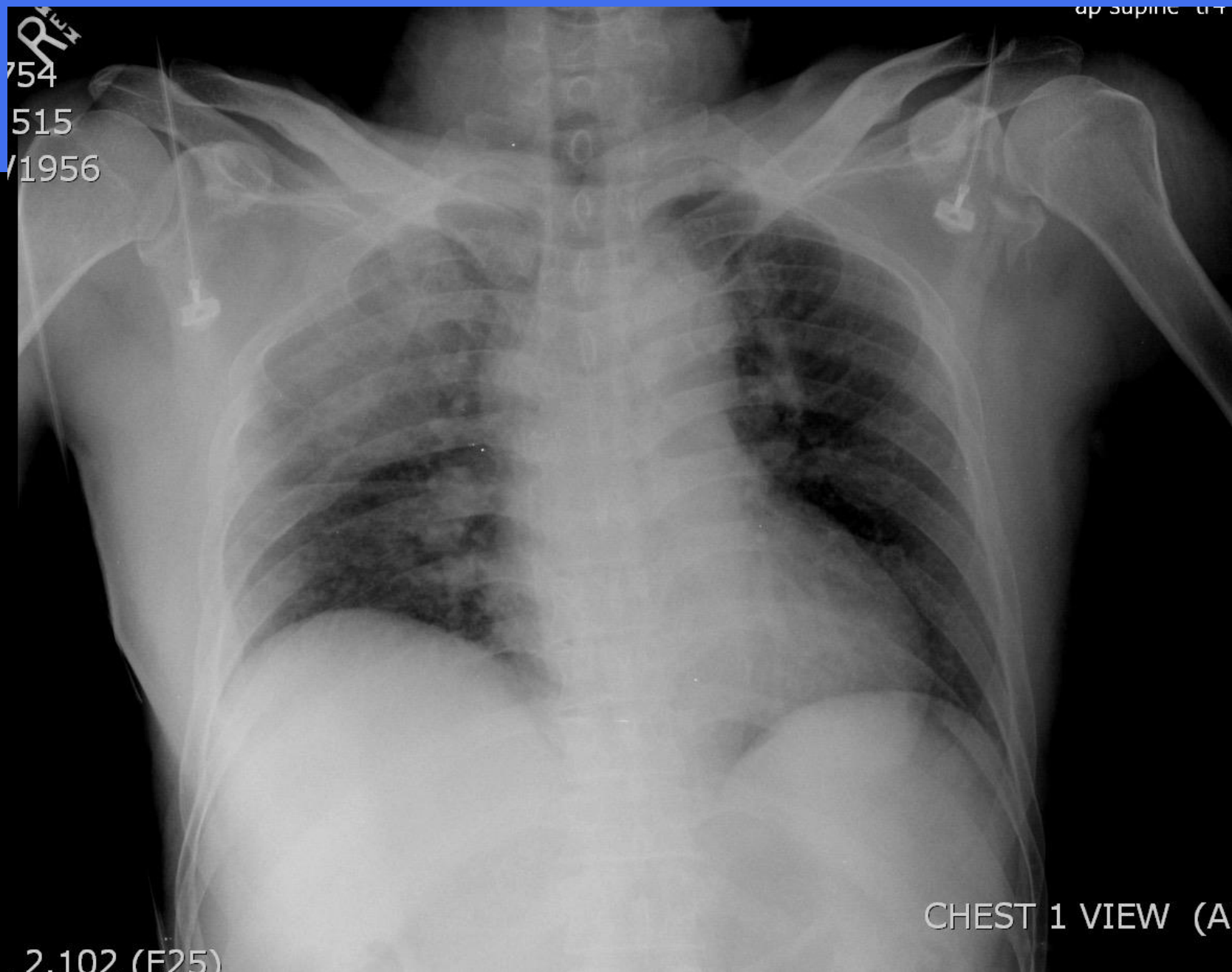


# Deltopectoral Approach

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# PY

- ▣ 56 y/o male
- ▣ s/p fall of scaffolding @work
- ▣ Multiply injured: c-spine, pelvis, left shoulder



ap supine 04

754  
515  
1956

CHEST 1 VIEW (AI

2.102 (E25)



754  
778  
/1956

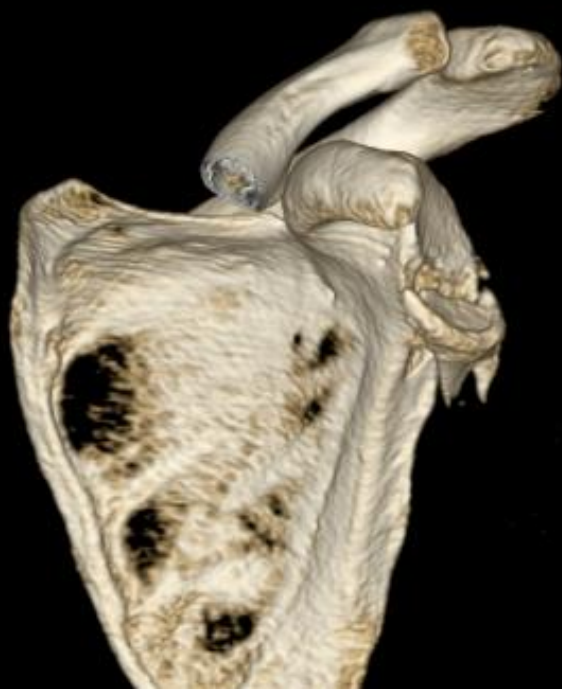




Nb Views: 4

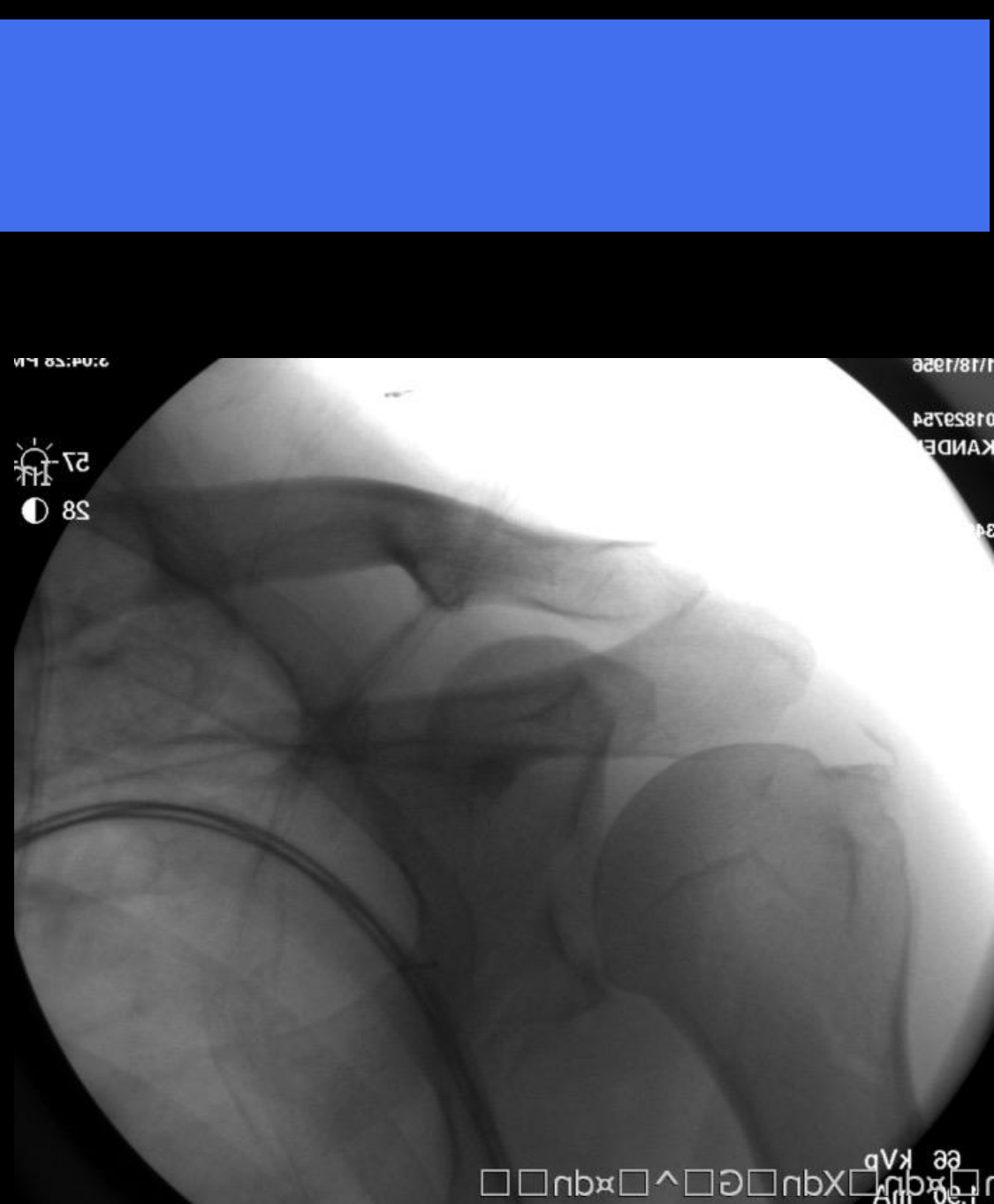
Rotation: 7

THD/+



19.4mm/4  
dspl













# Take Home Messages

- ▣ Analyze fracture pattern
  - Anterior vs. Post Approach
- ▣ When Post
  - Limited vs. Modified Judet
- ▣ Attention
  - Suprascapular NV Bundle
  - Axillary nerve





# THANK YOU



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