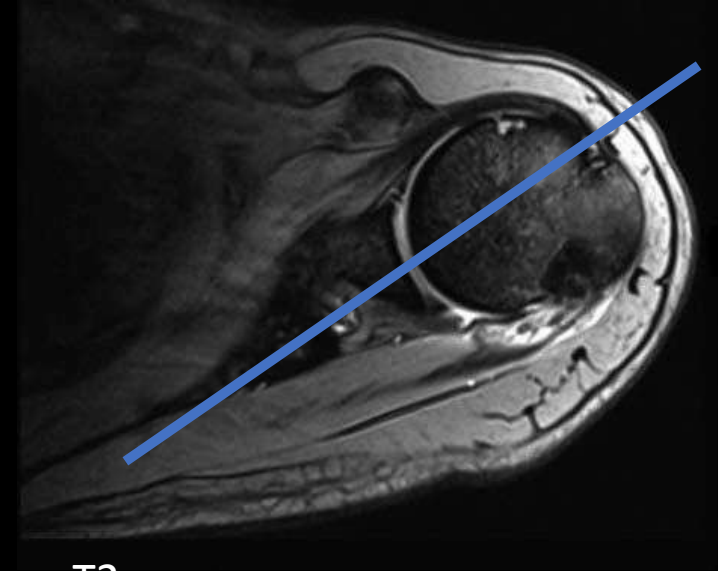


MRI SHOULDER- ANATOMY AND COMMON PATHOLOGIES

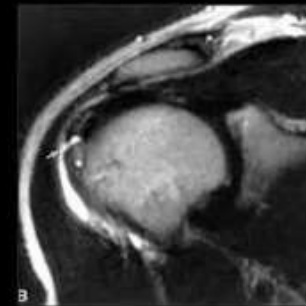
Dr. Zainab Vora

Examination protocol

- Axial scout
- Axial T1 gradient
- Coronal oblique T1, T2, STIR
- Sagittal oblique T2



T2

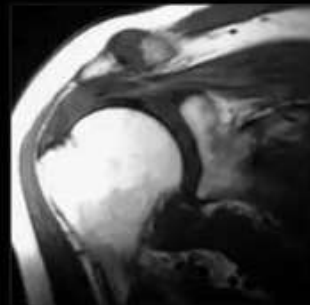
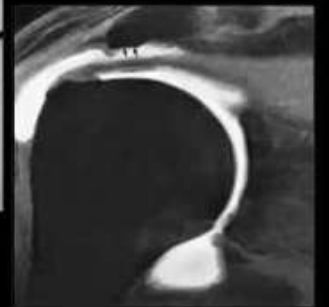


T1

Gradient

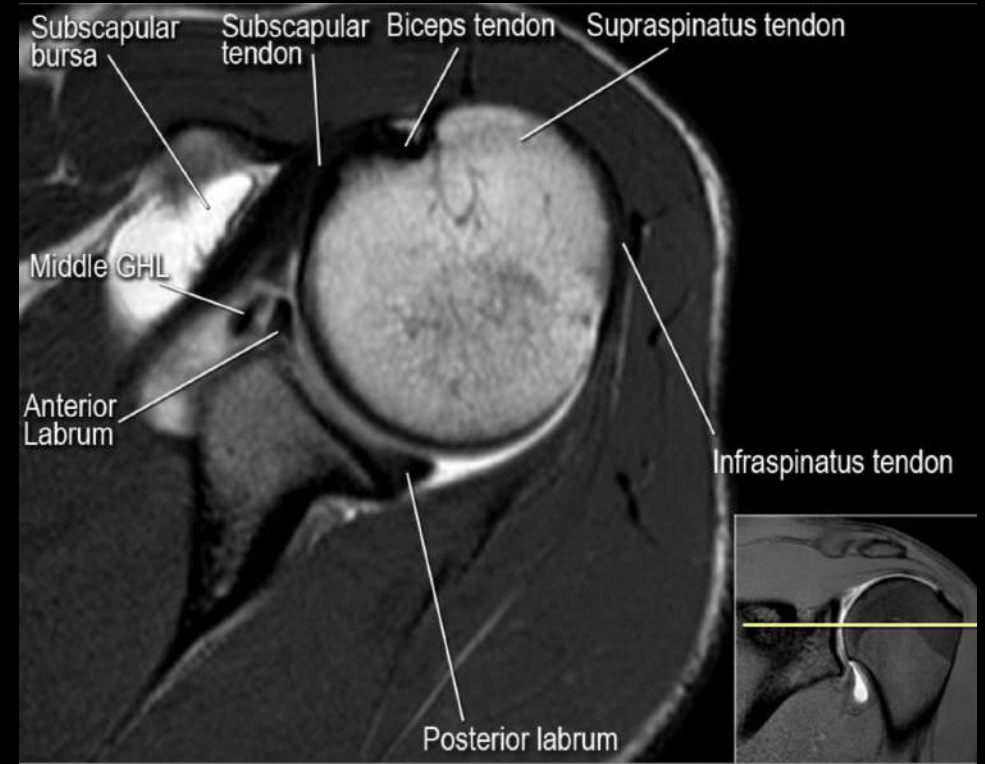


STIR



T1, T2 hypointense

- Cortical bone
- Glenoid labrum
- Tendons-rotator cuff
- Ligaments
- Calcification



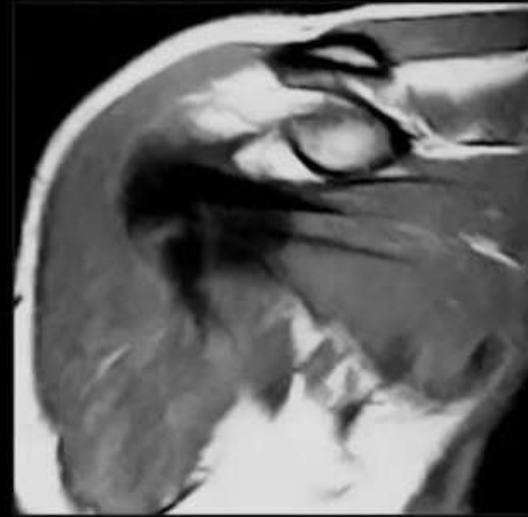
Coronal Checklist

- TENDONS: Supraspinatus, Infraspinatus
- LIGAMENTS: IGHL
- LABRUM: Superior, inferior
- BURSA: Subacromial
- Bones: AC joint

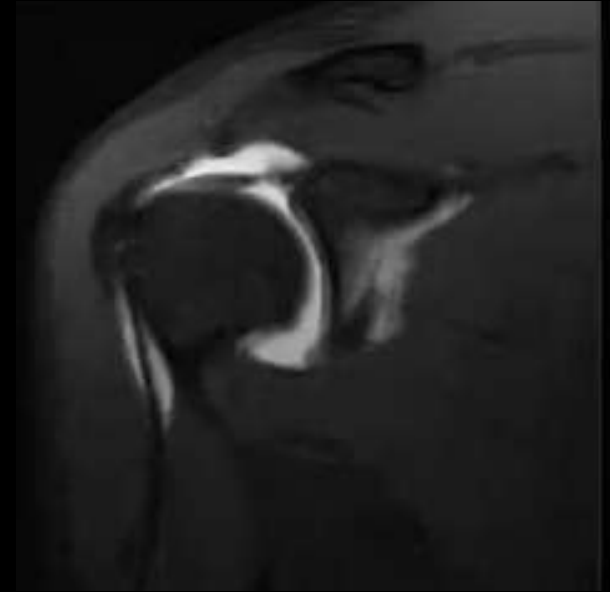
Supraspinatus tendon



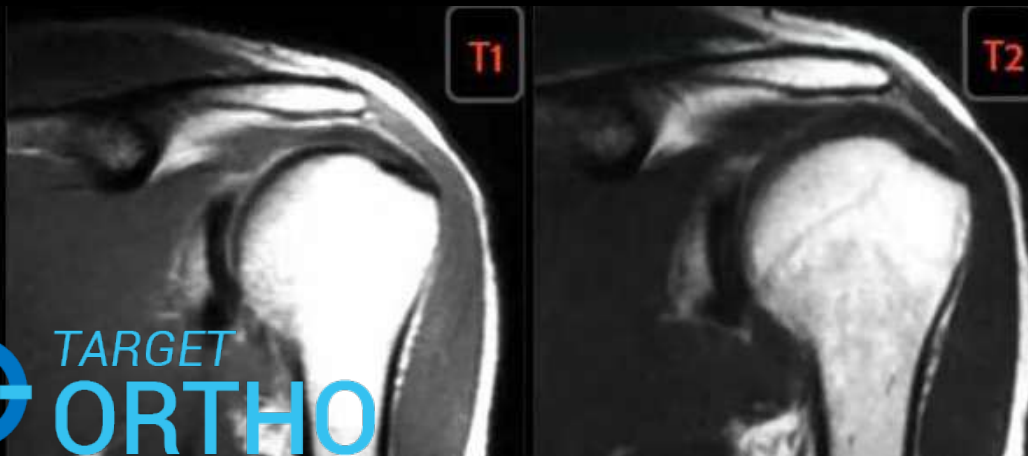
Subscapularis



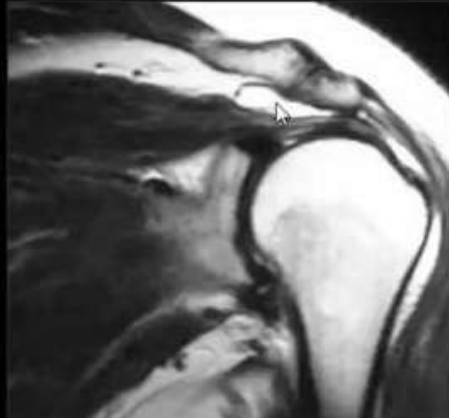
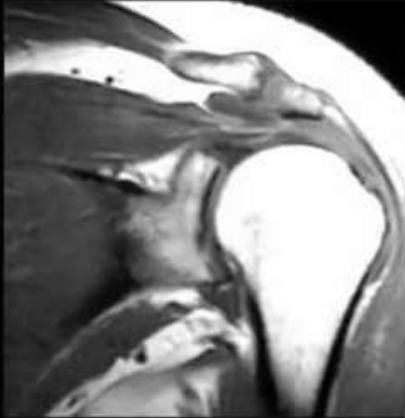
Long head of biceps: MRA



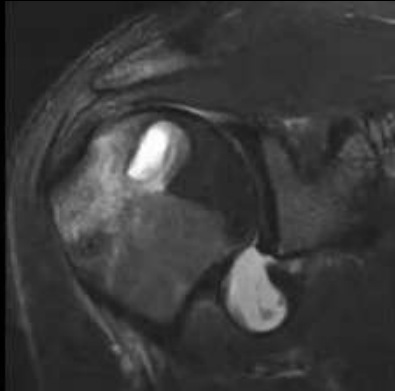
Infraspinatus tendon



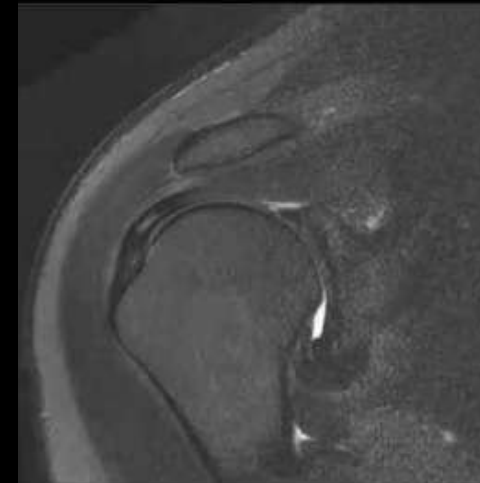
Subacromial bursitis



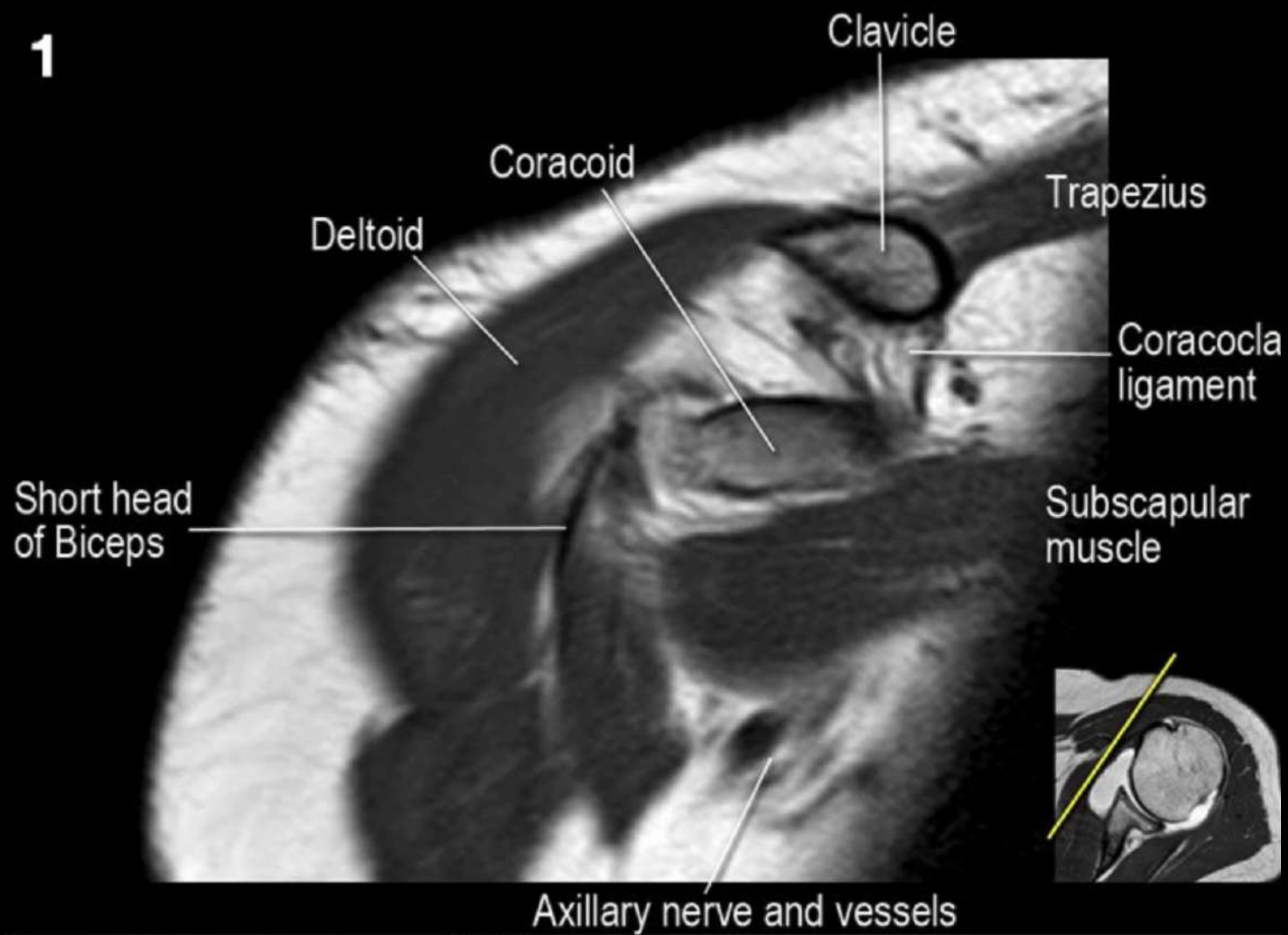
IGHL



Adhesive capsulitis

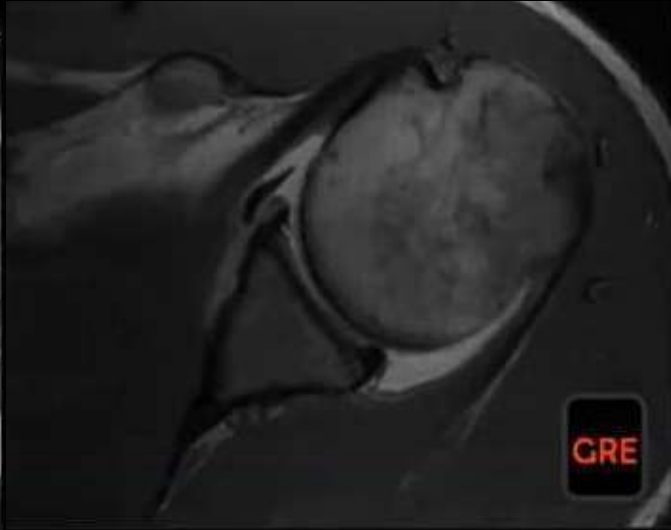
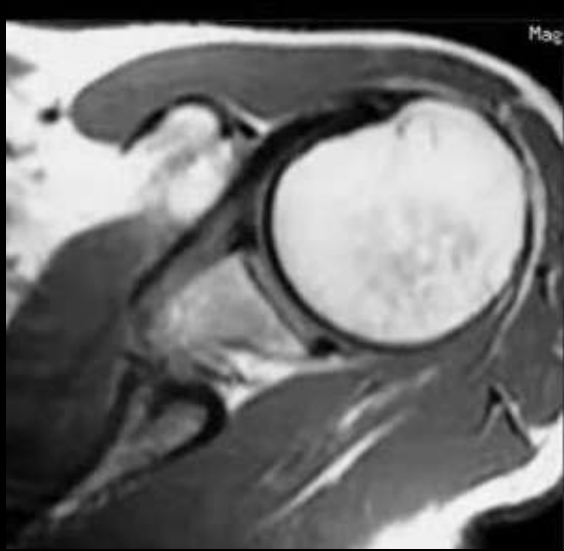


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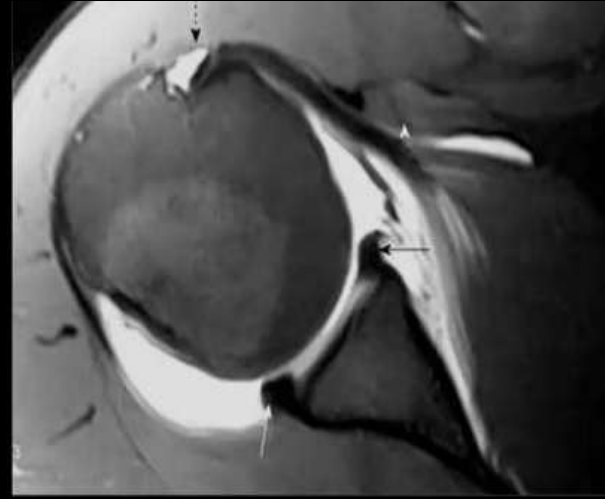


Axial Checklist

- TENDONS: Subscapularis, Infraspinatus, LH biceps
- LIGAMENTS: MGHL
- LABRUM: Ant, Posterior
- BURSA: Subscapularis
- Bones: Humeral head (Hill Sachs)

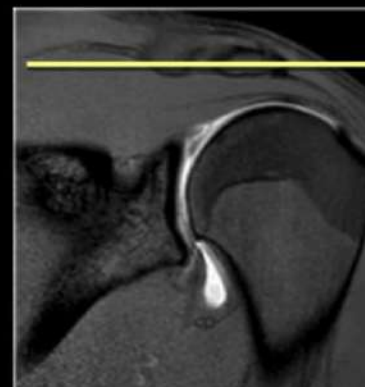
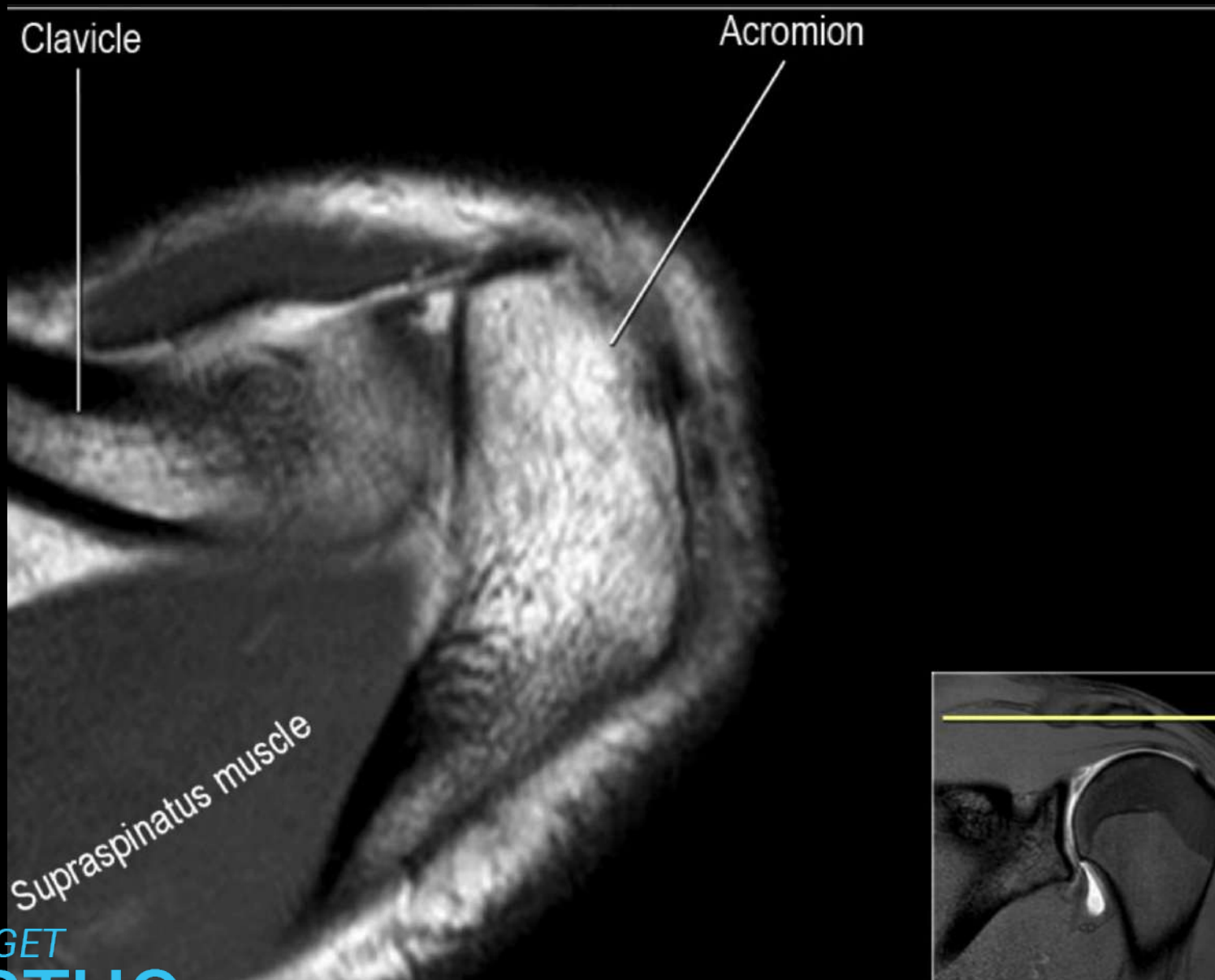


MGHL: MRA



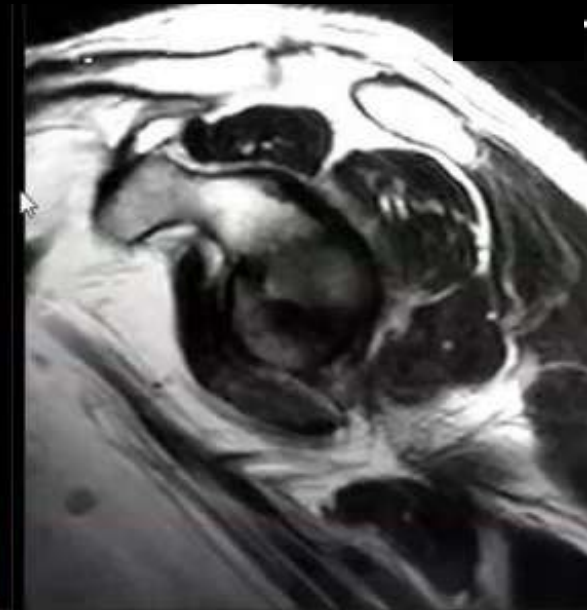
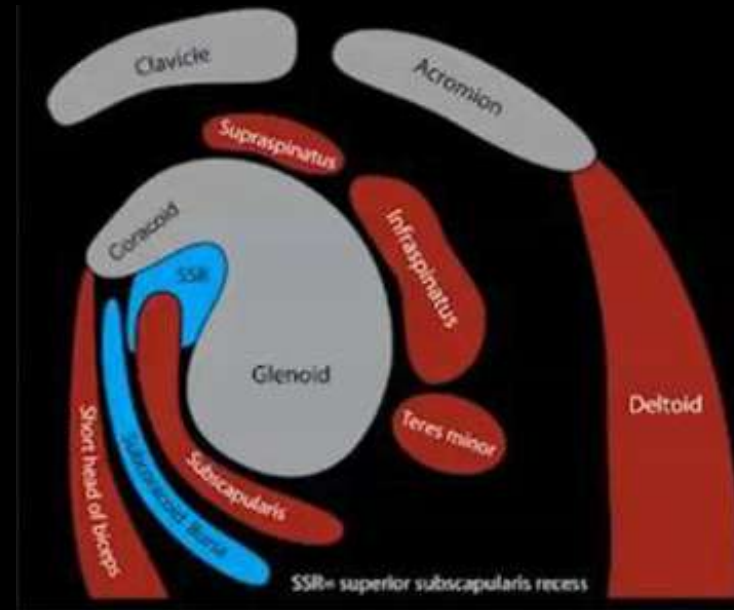
Hill-Sach's





Sagittal Checklist

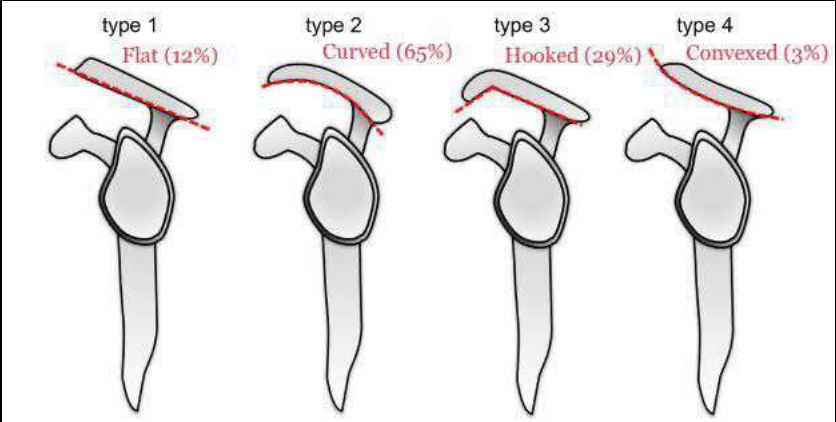
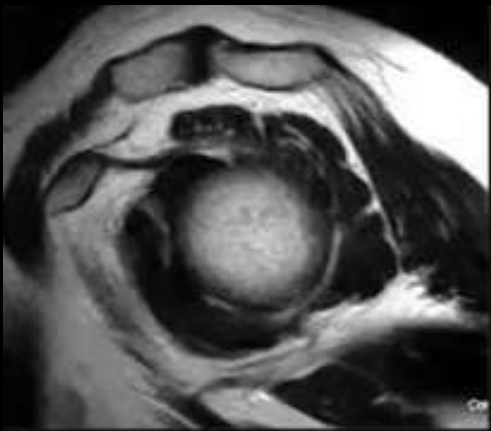
- LIGAMENTS: SGHL, Coracohumeral, Coracoclavicular ligaments
- BURSA: Subcoracoid bursa
- Bones: Acromion shapes



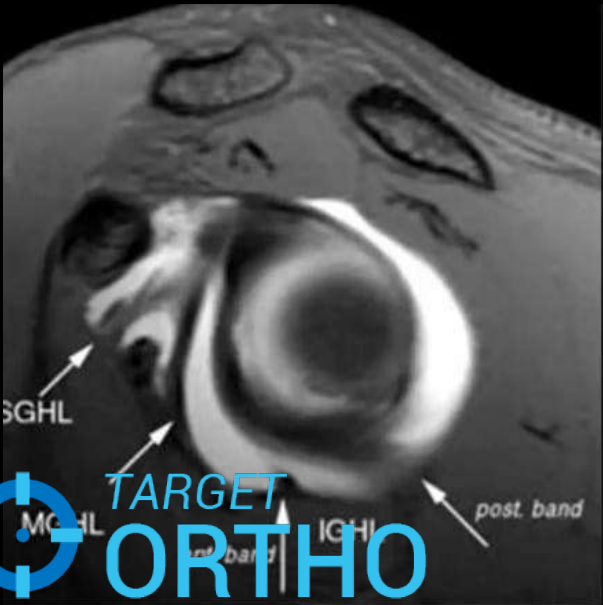
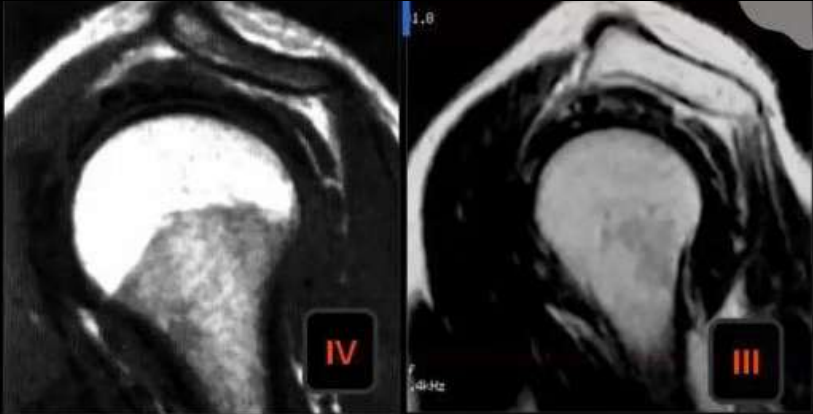
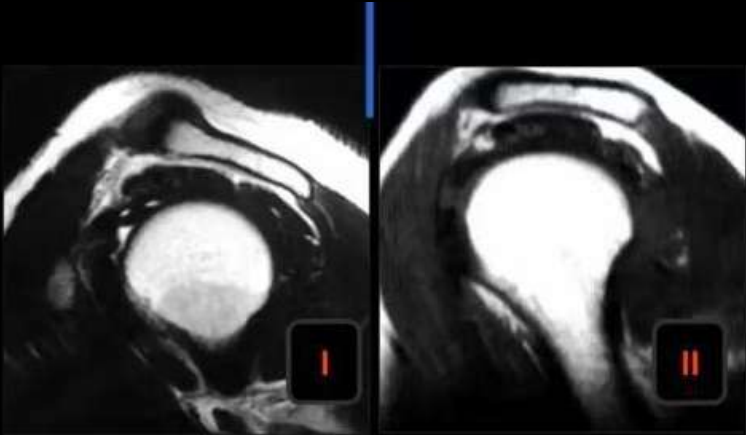
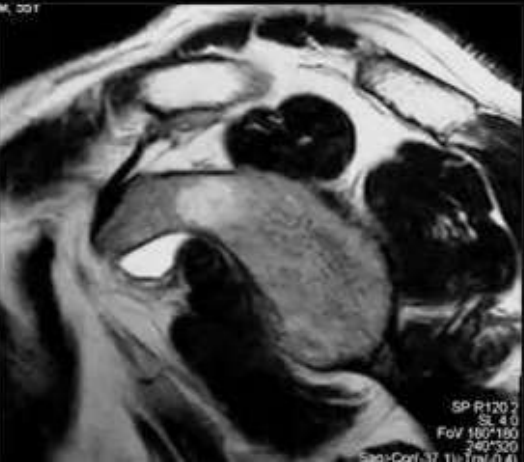
GHL on sagittal MRA

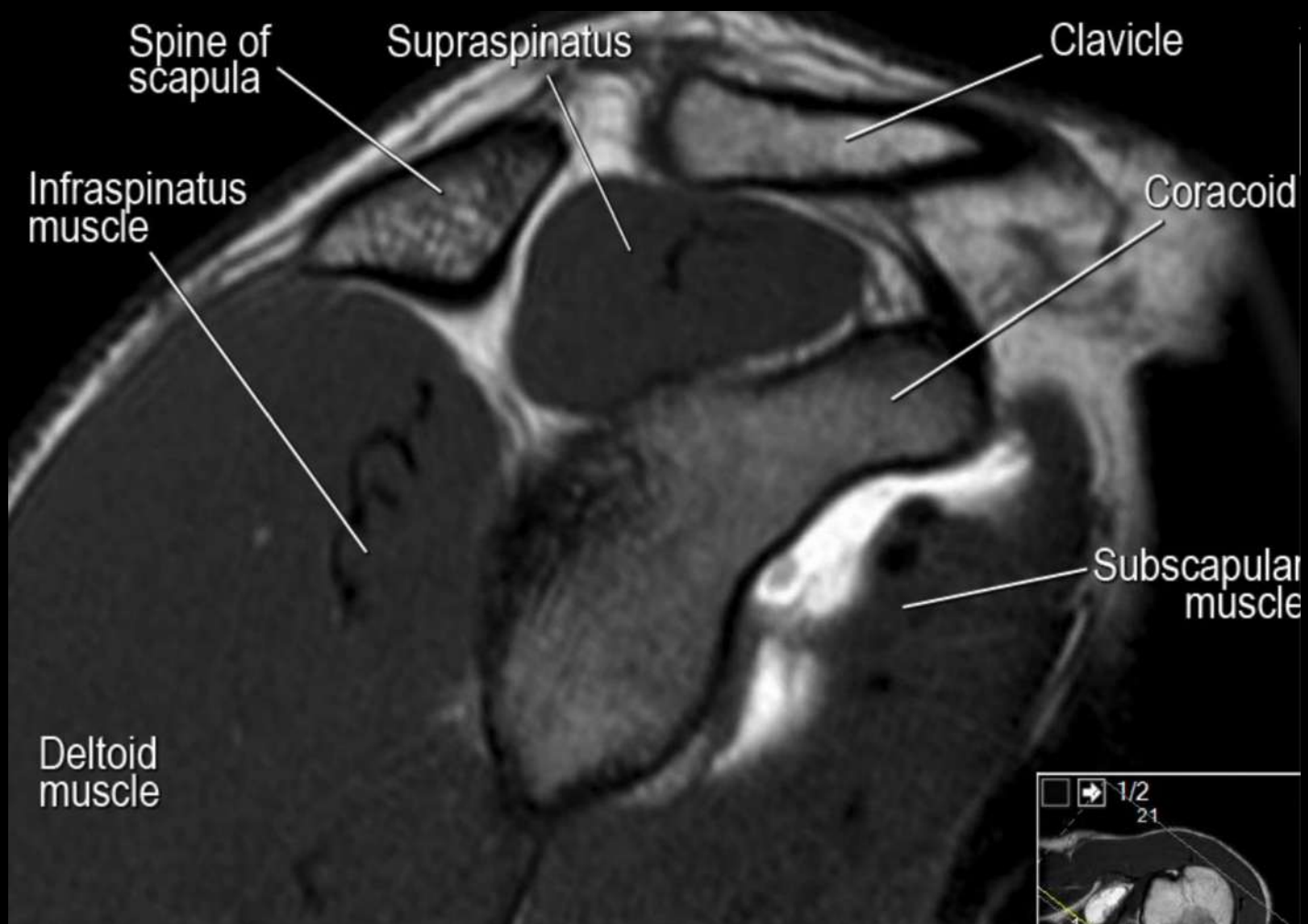


Coracohumeral Ligament

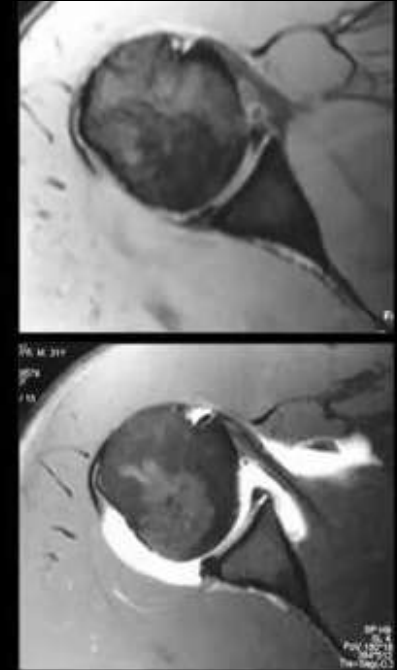
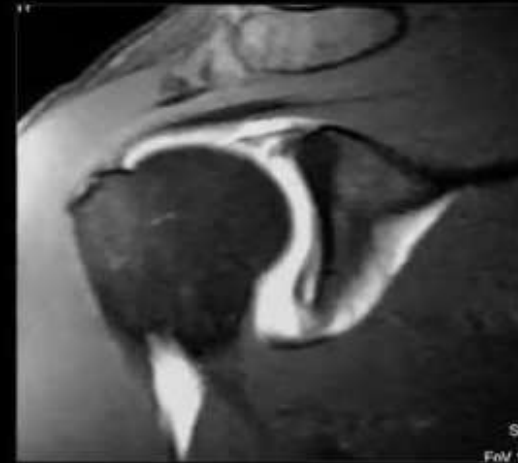


Coracoclavicular Ligament
Subcoracoid bursa





MR arthrography



Rotator cuff tears-Partial

Etiology of Rotator cuff tears

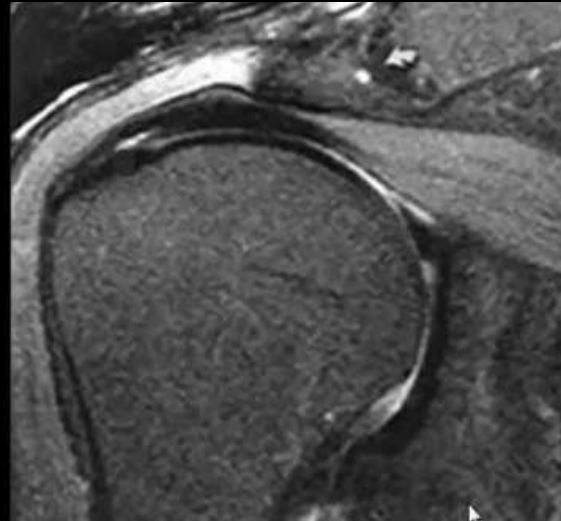
Traumatic

- Acute
- Chronic repetitive trauma in overhead activity

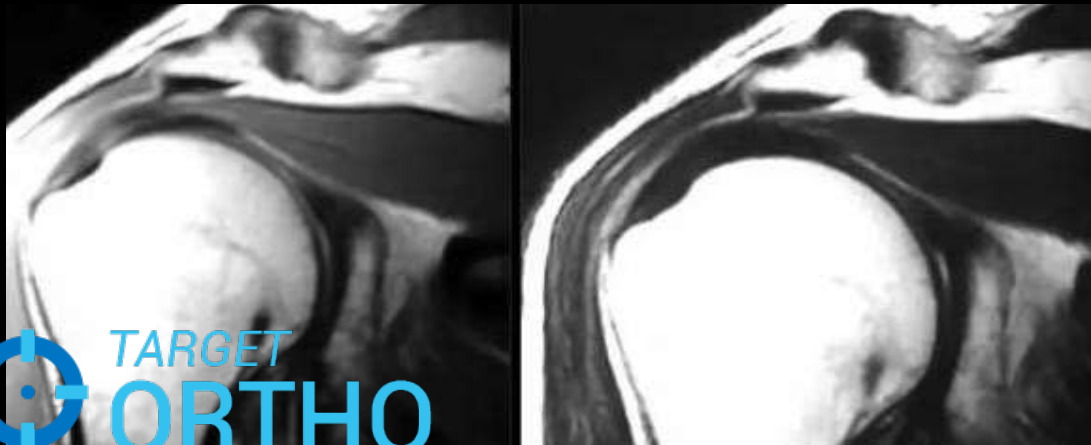
Degenerative

- Subacromial impingement
 - Type III hooked type acromion
 - Spur formation undersurface of AC joint

Partial tears



Magic angle phenomenon



Complete tear

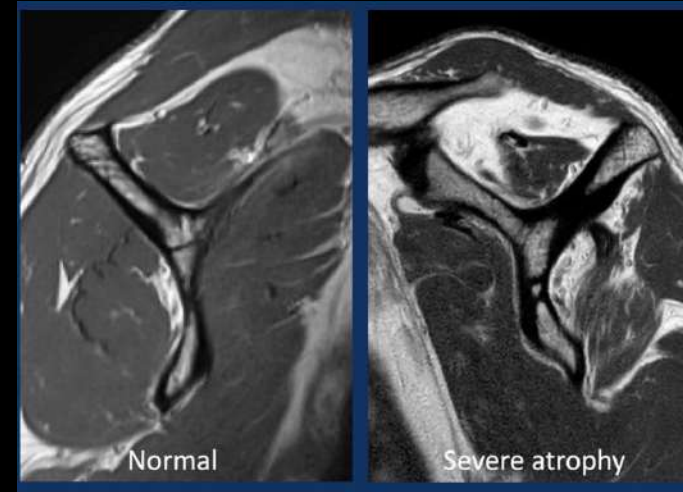


Rotator cuff tears

PASTA lesion



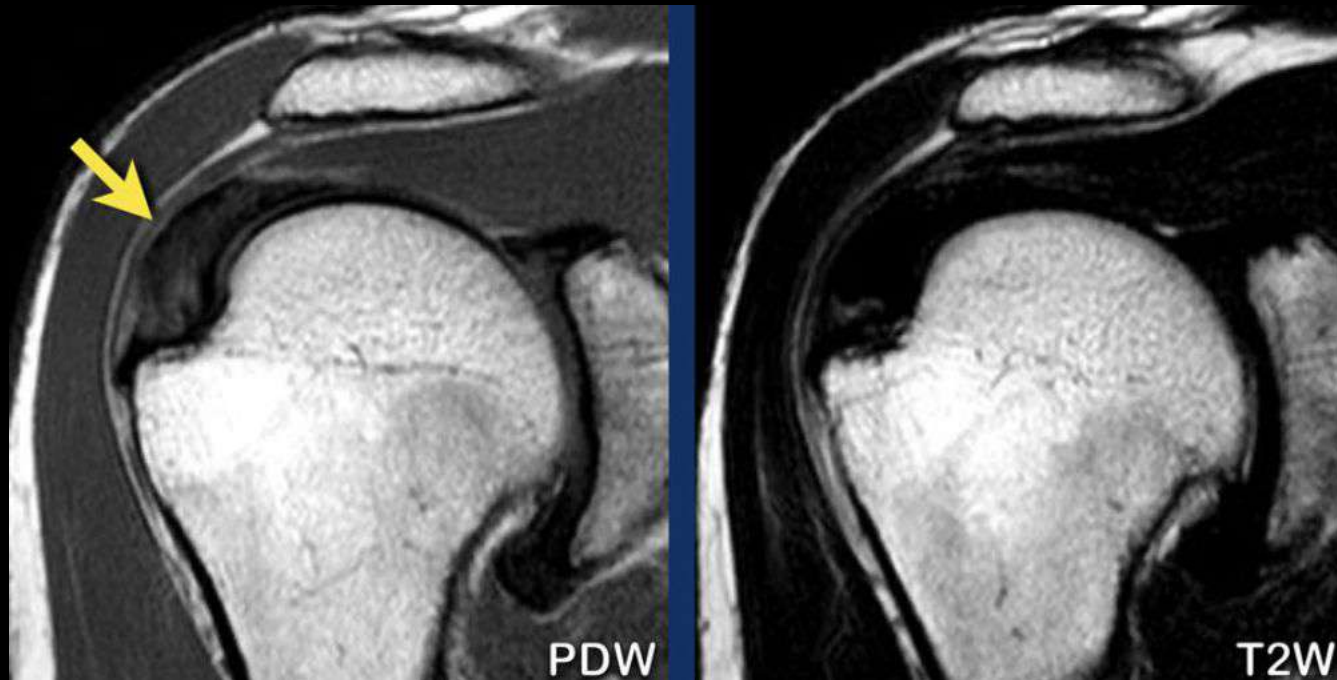
Muscle atrophy



Subscapularis tear



Tendinopathy



Impingement syndrome

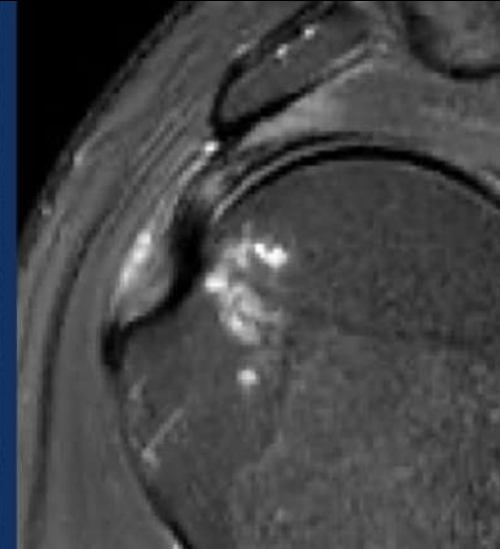
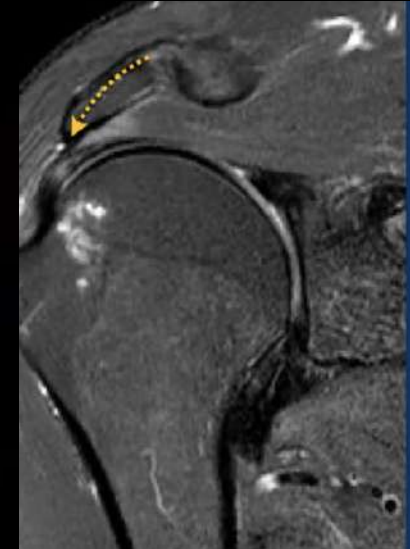
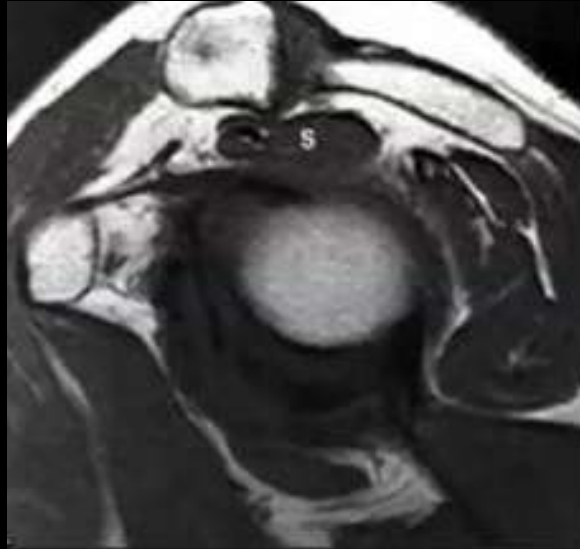
Checklist Impingement



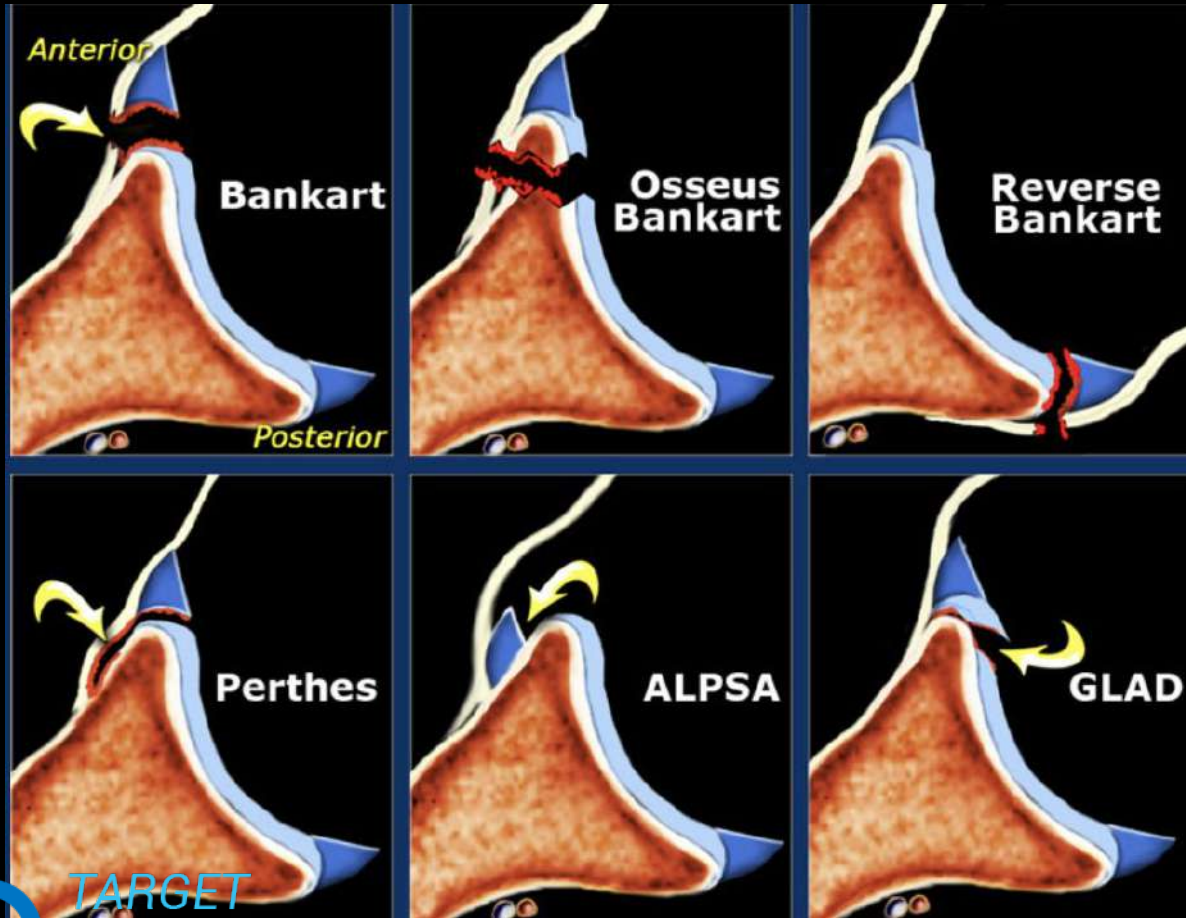
Narrowed subacromial space

Acromion - configuration type 3
- down-slope
- os acromiale

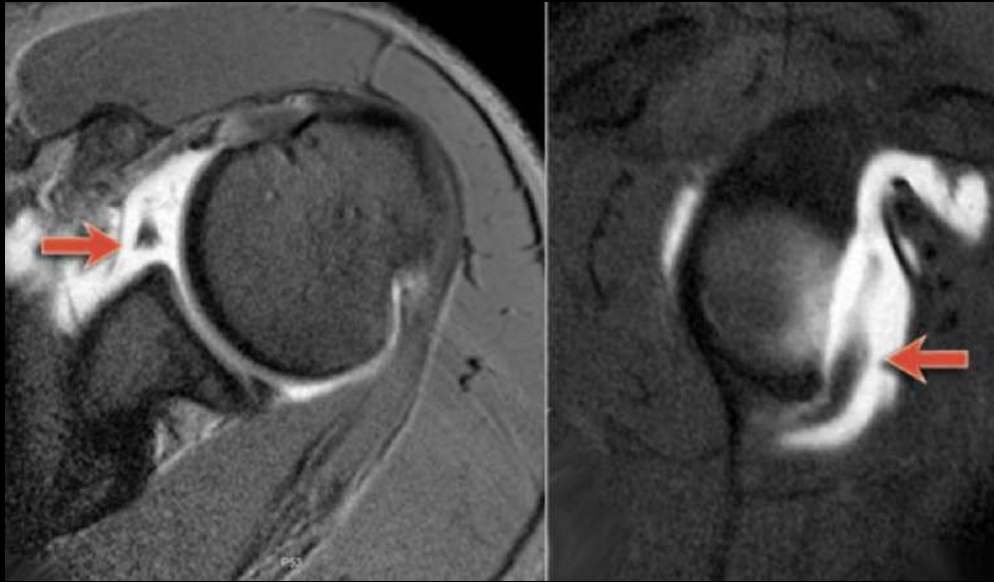
AC osteoarthritis



Labral lesions

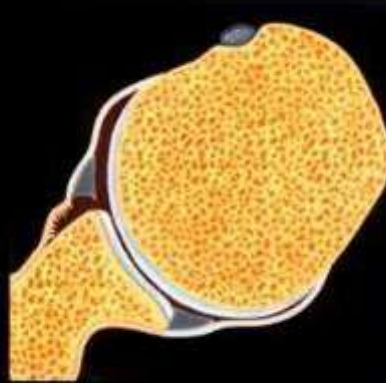
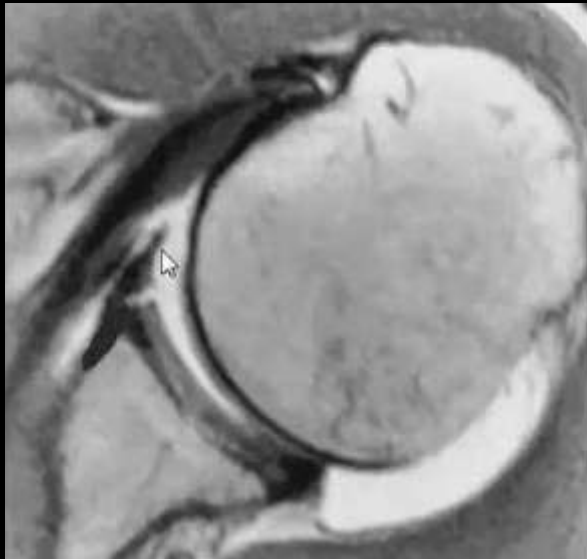


Bankart lesion



Perthes lesion

Scapular periosteum intact



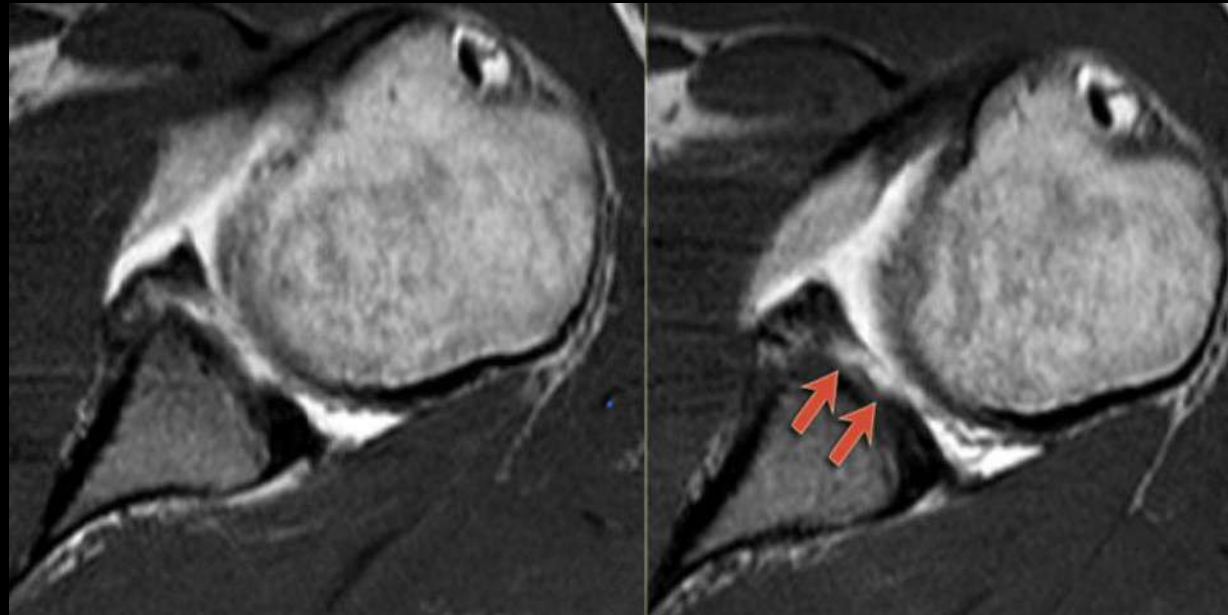
ALPSA:

Anterior Labroligamentous Periosteal Sleeve Avulsion



GLAD

Glenolabral articular disruption



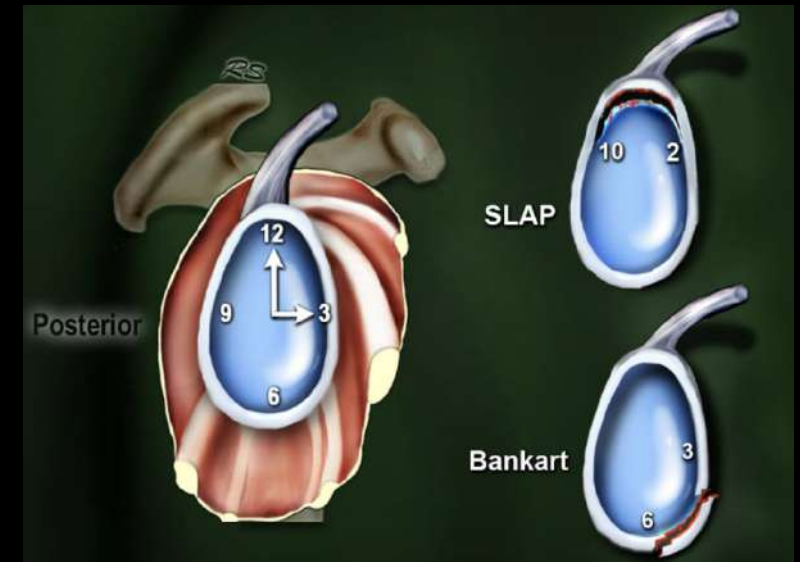
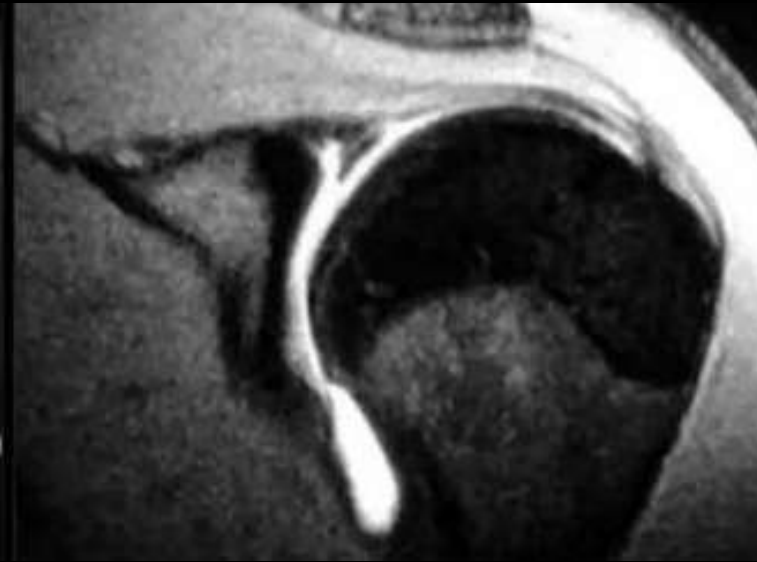
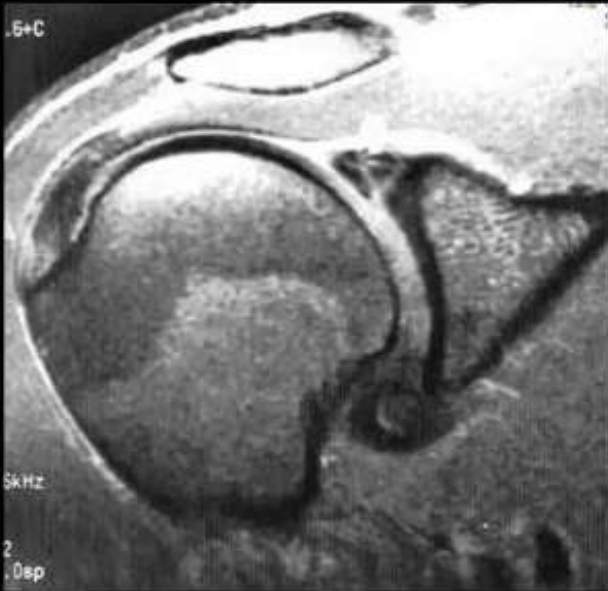
HAGL

Humeral avulsion of IGHL



SLAP

Superior Labrum anterior to posterior



Buford complex

