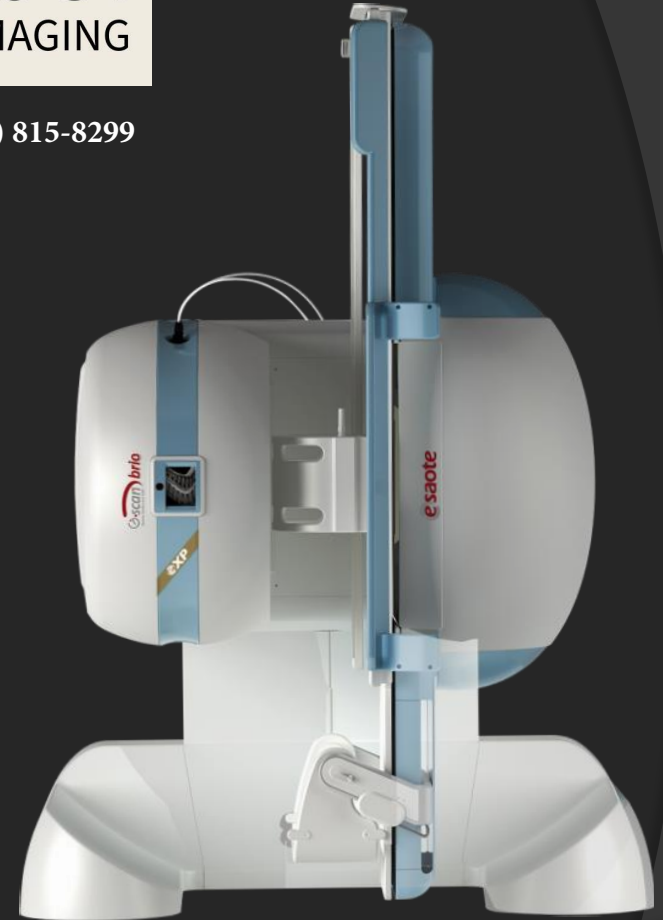


CLINICAL CASES



P: (623) 815-8200

F: (623) 815-8299



More detail, better accuracy, greater confidence

The **G-scan Brio** is a revolutionary MRI approach for all musculoskeletal applications, which allows you to increase your diagnostic accuracy and confidence. The open and tilting design is the new and innovative way of doing MRI in which the position of the patient becomes an integral part of the outcome of the examination.



Adds weight to your diagnosis

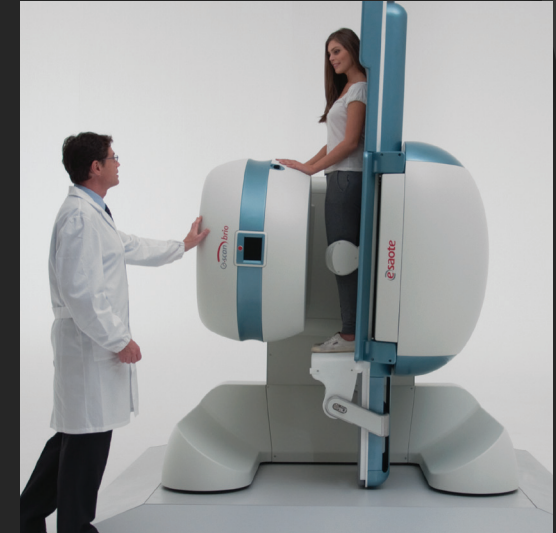


Weight-bearing exam of the spine

Many symptoms and pathologies occur or are emphasized when the patient is in the weight-bearing position. Conventional MRI may not demonstrate the pathology related to particular symptoms whereas the **G-scan Brio** gives you a new point of view so you can accurately diagnose MSK pathologies which are affected by the weight-bearing position.

G-scan Brio, the law of gravity

With the **G-scan Brio** you can gain a more complete understanding of the joint under examination. The forces of gravity generate bio-mechanical changes in the human anatomy, so MR imaging in the natural standing position allows you to obtain extra details which would not normally be seen.



Weight-bearing exam of the knee

Smooth and simple positioning

Fast Positioning

The excellent ergonomics and unique features of **G-scan Brio** bring benefits for the operator as well as the patient:

- Easy patient positioning with optimized patient be
- Easy bed extraction by operato
- Real time MR image
- Only one fixed position for placing coil
- High level of comfort during examinatio



Reveals what supine MRI misses

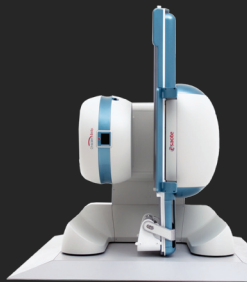
Images courtesy:

Department of Radiology, University of L'Aquila, Italy Villa Donatello clinic, Florence, Italy

Parker Instituttet, Frederiksberg Hospital, Denmark



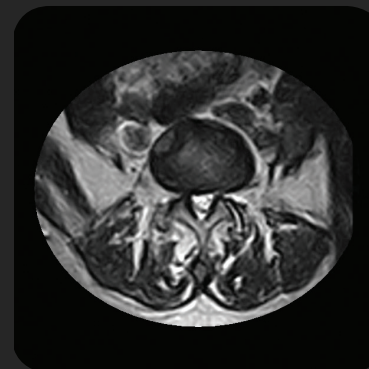
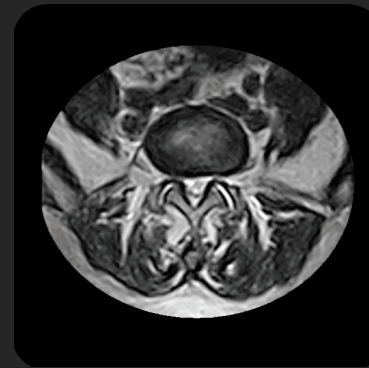
**G-scan Brio
supine**



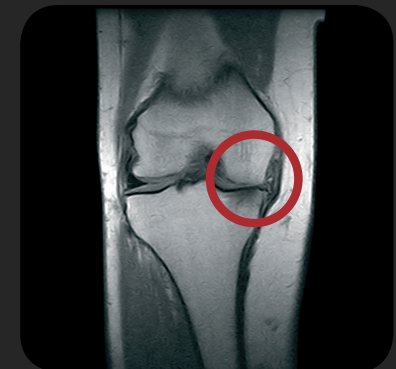
**G-scan Brio
weight-bearing**



Spine (FSE T2, 4mm)
C-spine in weight-bearing flexion, evident ligament instability at level of C4-C5



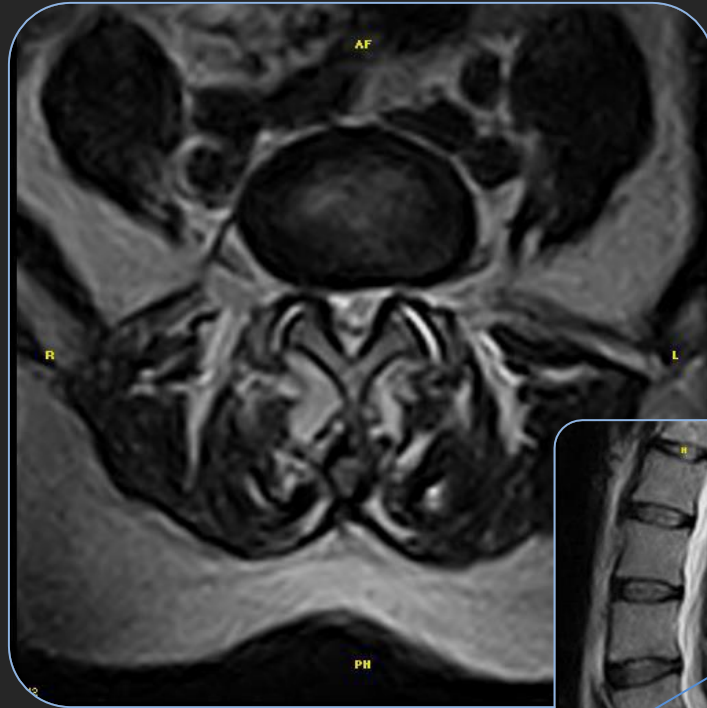
Lumbar Spine (Transverse FSE T2) Articular facet instability highlighted in weight-bearing, while supine exam only shows arthrosis



Knee (Coronal SE T1)
In weight-bearing the actual damage to the cartilage of the medial compartment is clear and the origin of the bone edema is well identified. The lesion to the medial collateral ligament is visible only in weight-bearing

L-Spine: Facet Joint Instability (WB)

 **Supine**

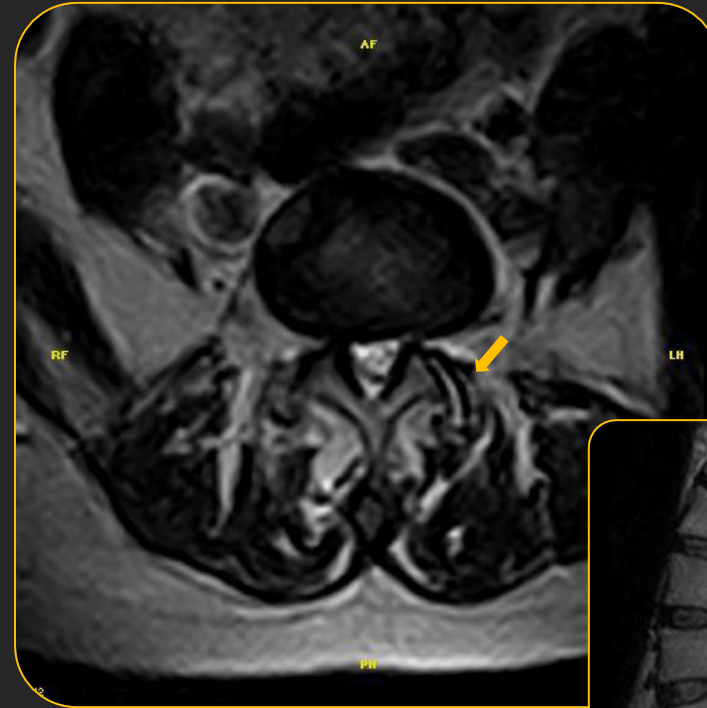


FSE T2 – Axial

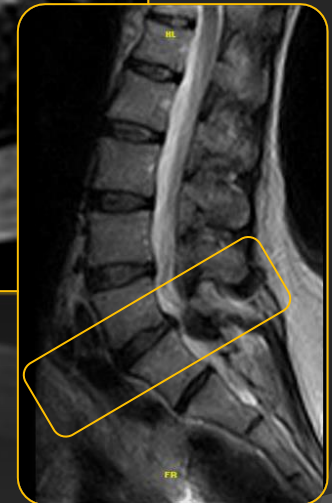


FSE T2 – Sagittal

 **Weight Bearing**



FSE T2 – Axial



FSE T2 – Sagittal

L-Spine WB

Spondylolisthesis

Protrusion/ Extrusion



FSE T2 – Sagittal

 **Supine**



FSE T2 – Sagittal

 **Weight Bearing**



Supine



Weight Bearing



FSE T2 – Sagittal

L-Spine WB: Scoliosis Anthrolisthesis



FSE T2 – Sagittal

 **Supine**



FSE T2 – Sagittal

 **Weight Bearing**



 **Supine**

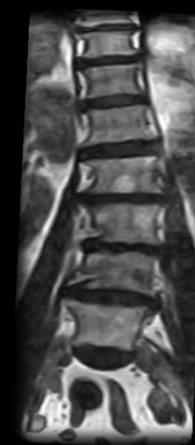
 **Weight Bearing**



MPR



 **Supine**



 **Weight Bearing**

L-Spine: Disc Degeneration (Modic I)



SE T1 - Sagittal



FSE T2 - Sagittal

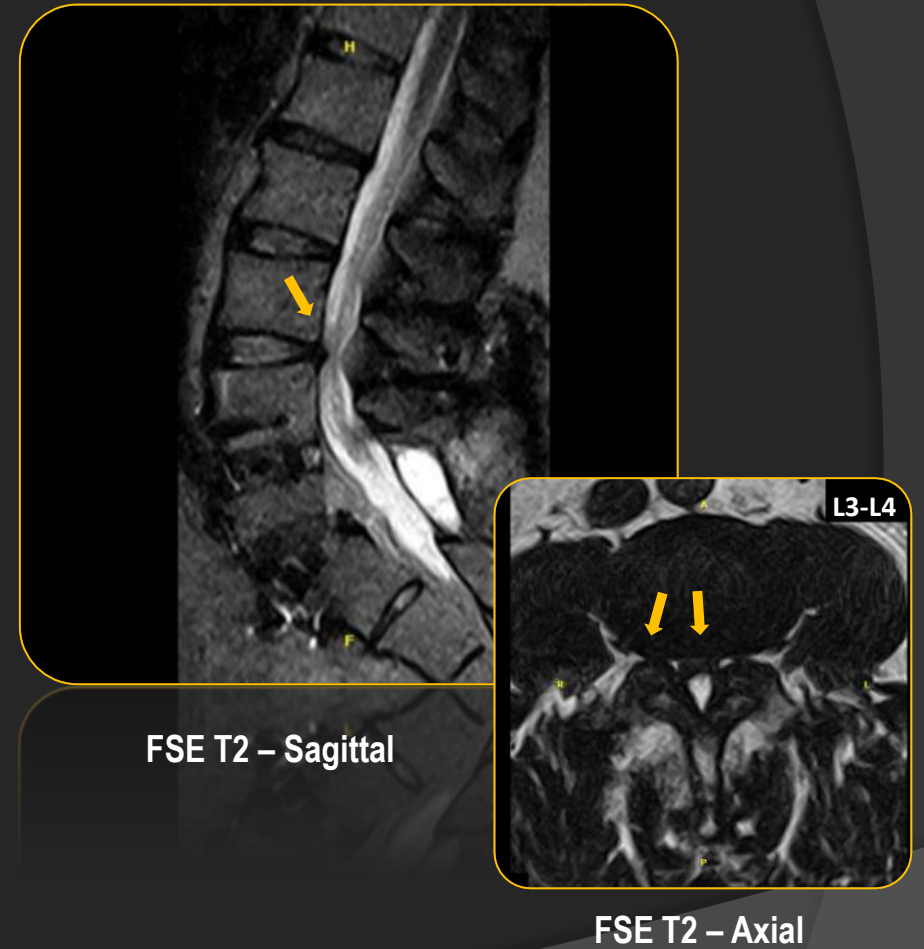


L-Spine: Post-Surgery (WB)

 **Supine**



 **Weight Bearing**



L-Spine: Spondylolisthesis



FSE T2 - Sagittal



FSTIR - Sagittal



3D HYCE ISO - Axial

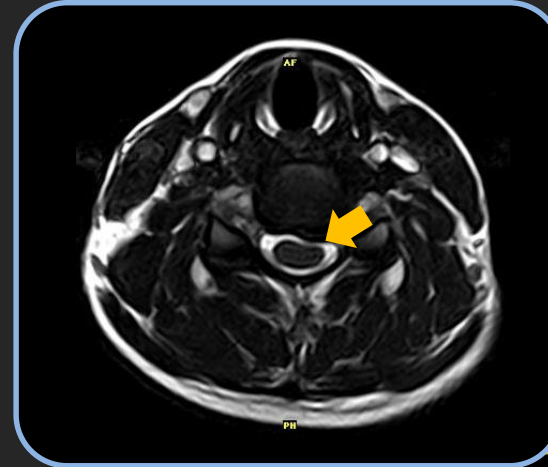
C-Spine WB: Protrusion



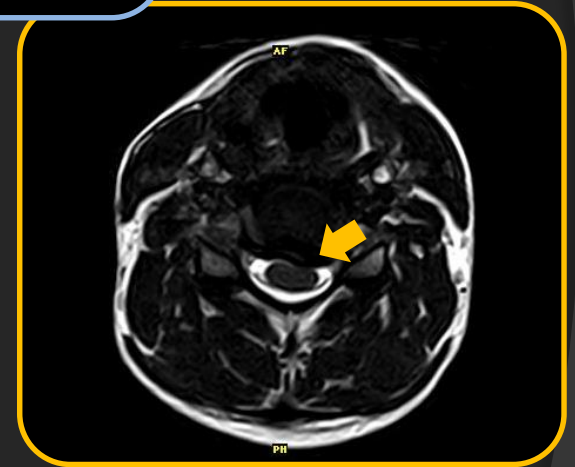
FSE T2 – Sagittal



FSE T2 – Sagittal



 **Supine**
3D HYCE - Axial

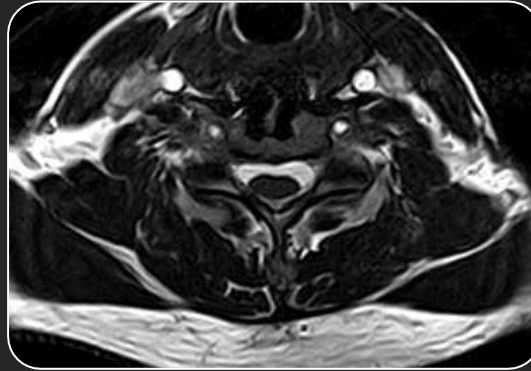


 **Weight Bearing**
3D HYCE - Axial

C-Spine: Postsurgical Fixation (MAR)



FSE T2 - Sagittal

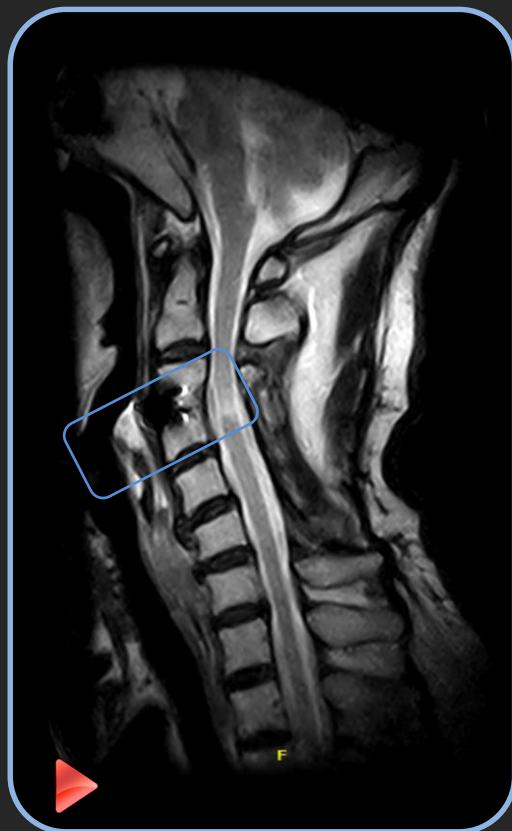


3D HYCE ISO - Axial

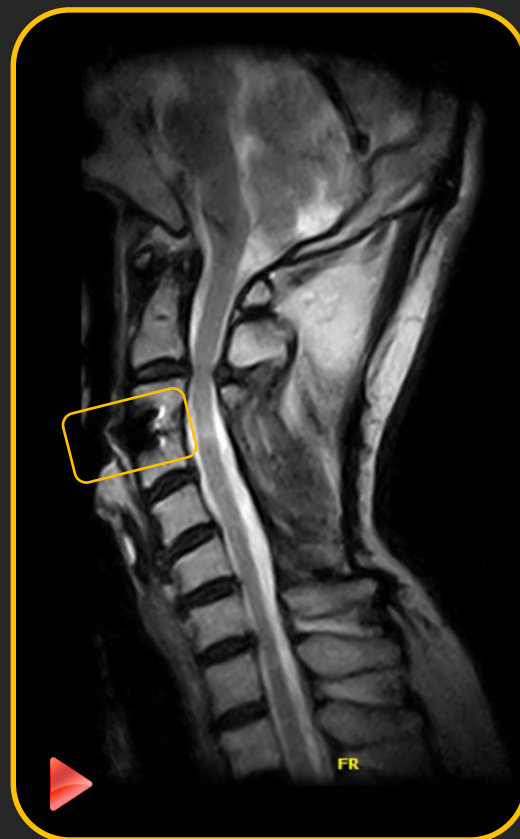


SE T1 - Sagittal

C-Spine WB: MAR



FSE T2 – Sagittal



FSE T2 – Sagittal



L-Spine: Obese Patient (XL Coil)



FSE T2 - Sagittal

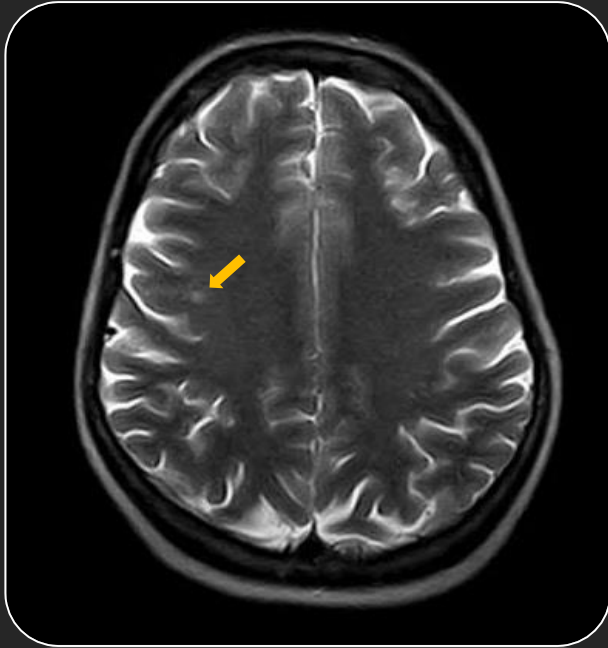


SE T1 - Sagittal

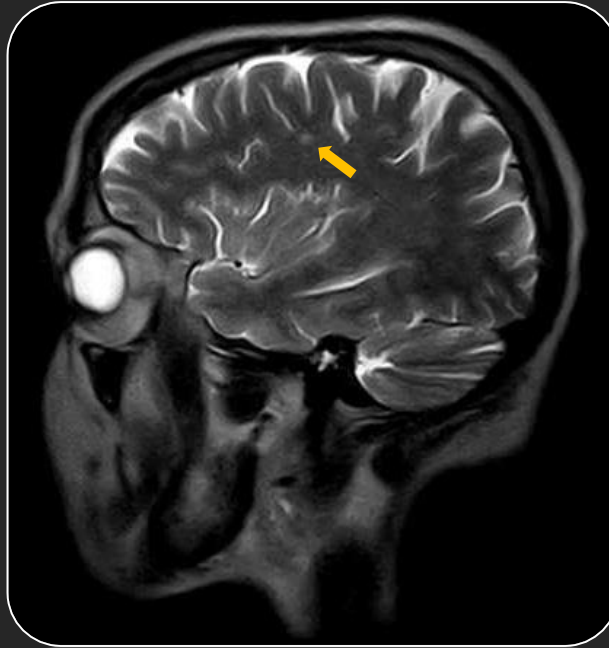


3D HYCE MPR - Axial

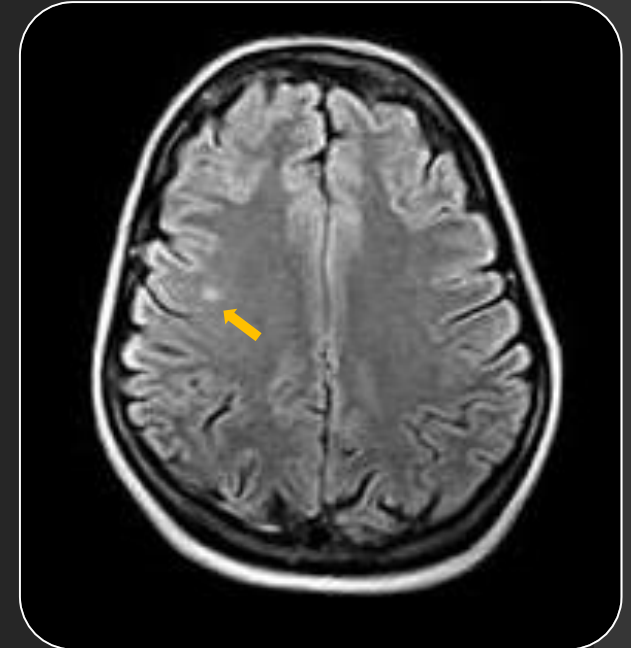
Brain: Lacunar Ischemic



FSE T2 – Axial



FSE T2 – Sagittal

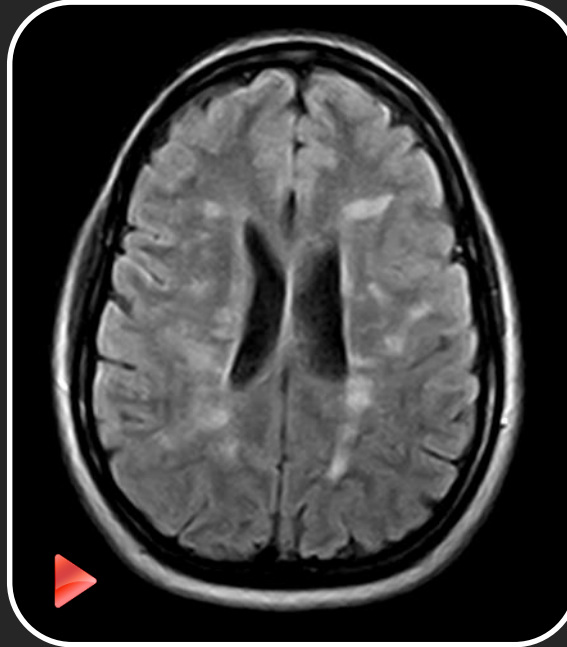


FLAIR - Axial

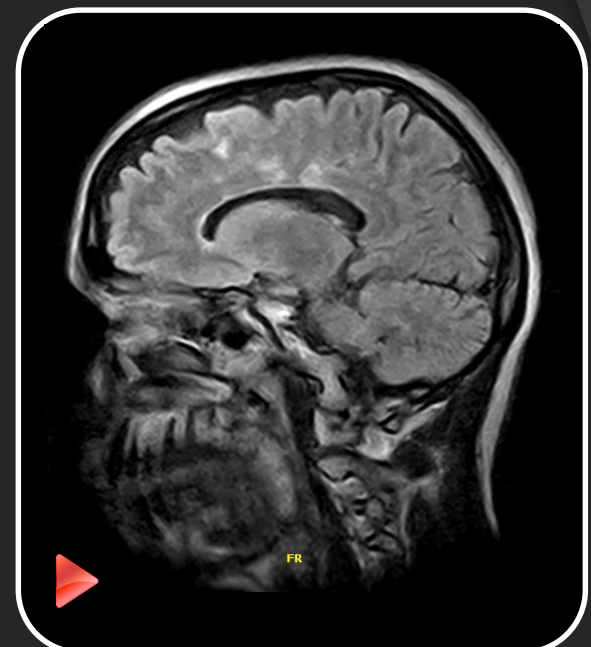
Brain: Multiple Sclerosis



FSE T2 – Axial

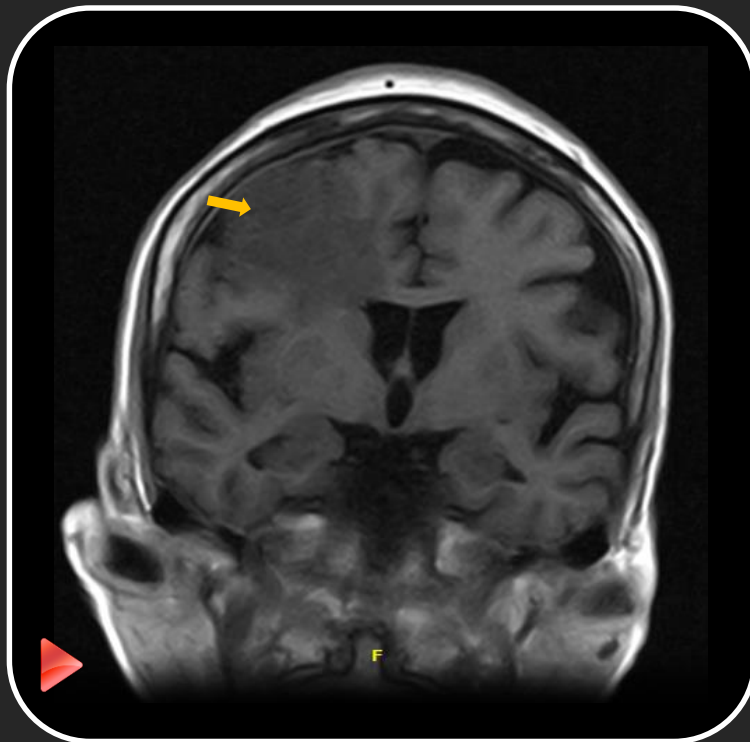


FAST FLAIR - Axial

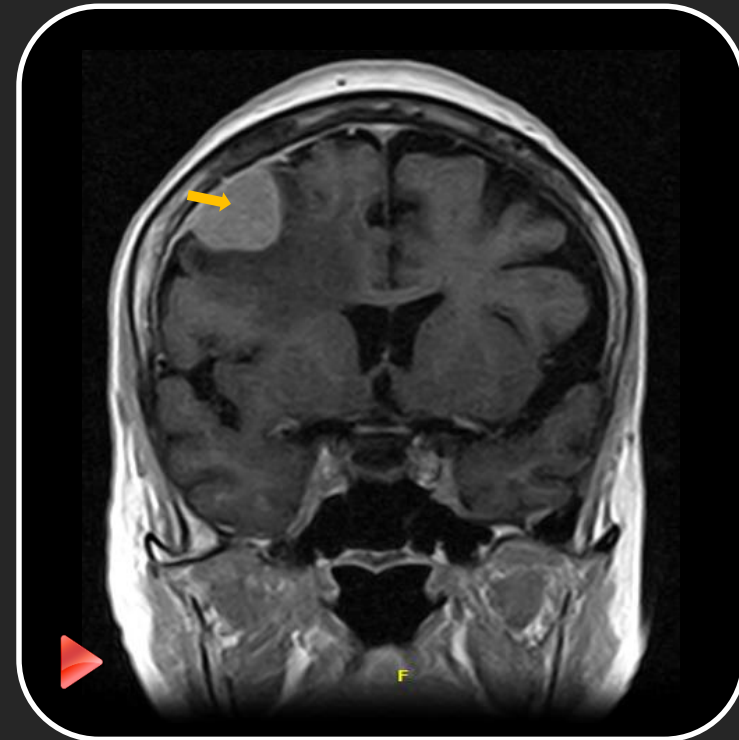


FAST FLAIR - Sagittal

Brain: Meningioma



3D SST1 – Coronal
Pre Contrast



3D SST1 – Coronal
Post Contrast

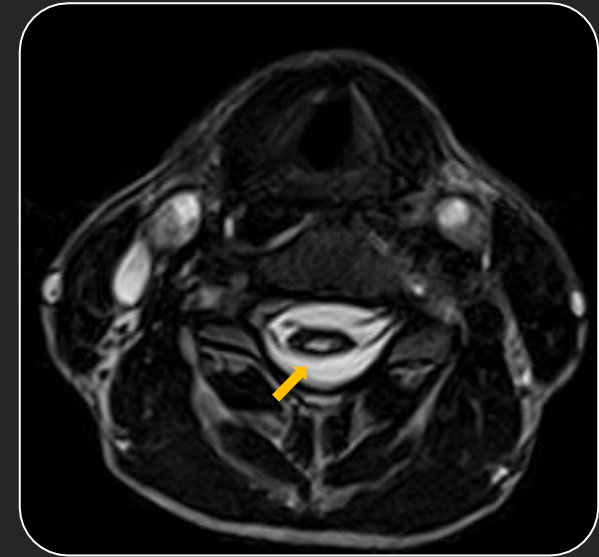
C-Spine: Arnold Chiari + Syringomyelia



FSE T2 - Sagittal



SE T1 - Sagittal

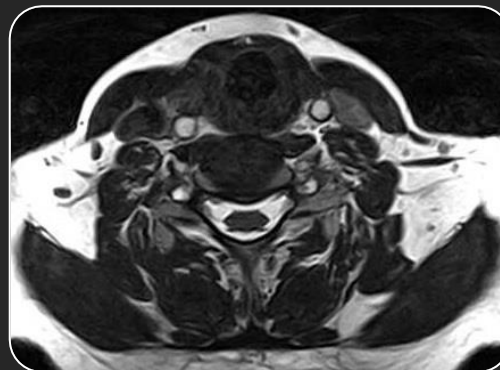


3D HYCE ISO - Axial

C-Spine: Bulging Disc



FSE T2 - Sagittal



3D HYCE ISO - Axial



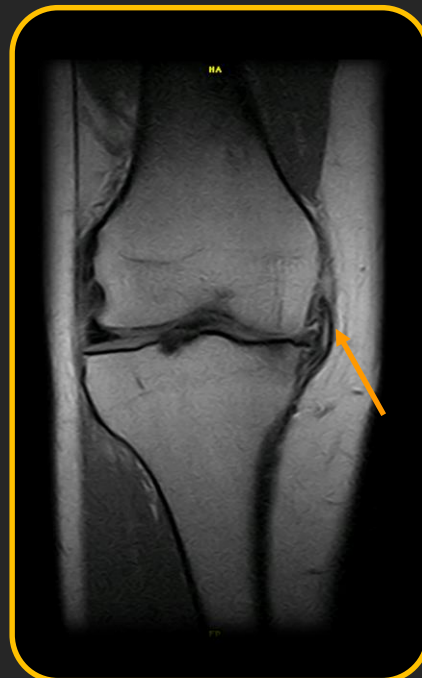
SE T1 - Sagittal

Knee WB

Overloading and Ligament Laxity



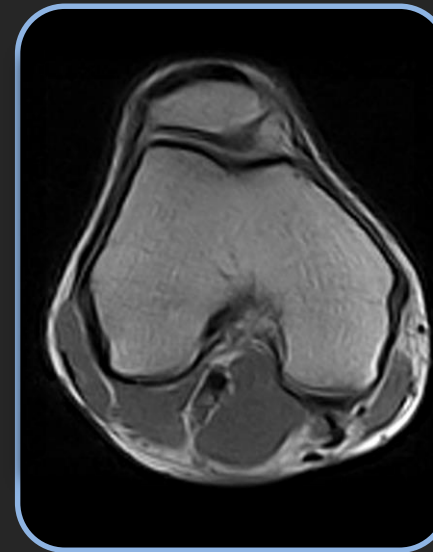
SE T2 – Sagittal



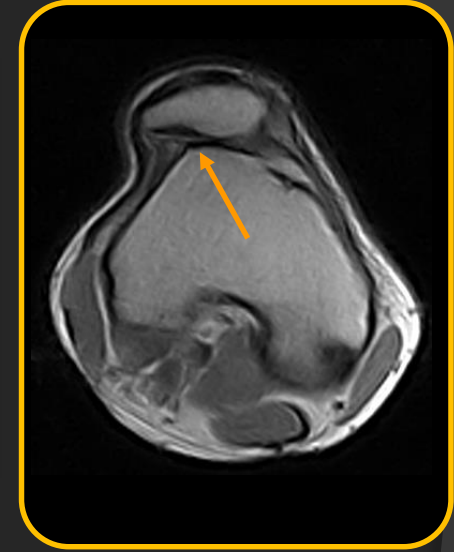
SE T1 – Sagittal



WB Patella Shift



SE T1 – Axial



SE T1 – Axial



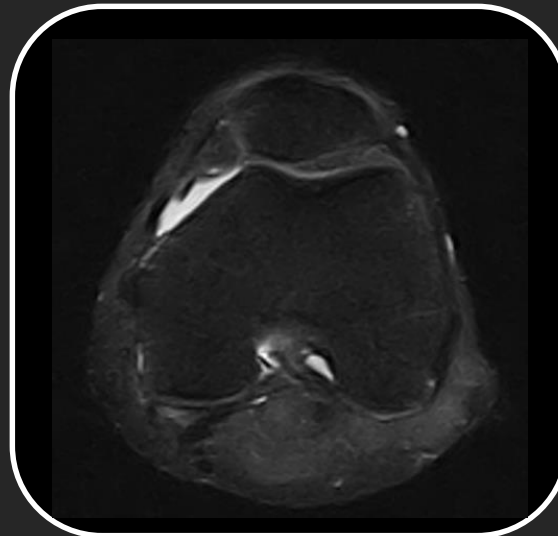
Knee: Cyst LCA & Meniscus Damage



FSE PD- Sagittal



FSE T2 - Axial

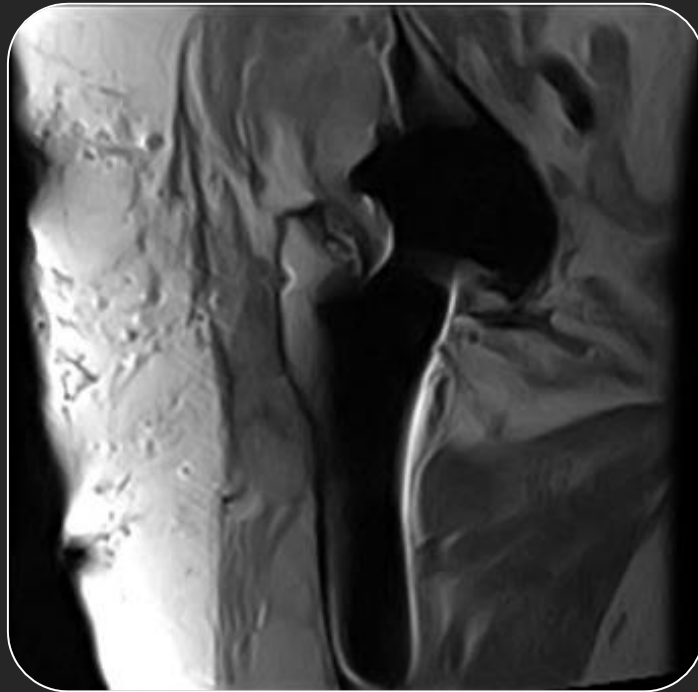


FSTIR - Axial

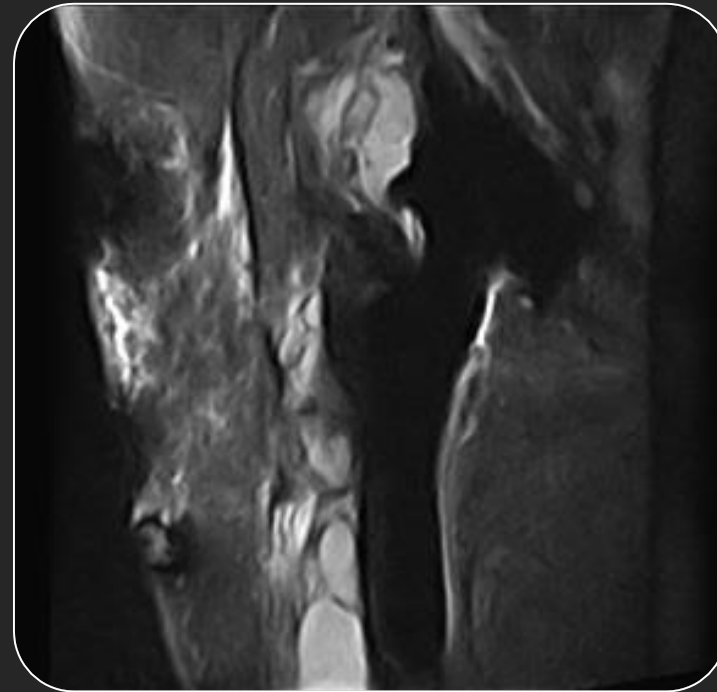


FSE T2- Sagittal

Hip: Replacement Prosthesis w/ MAR

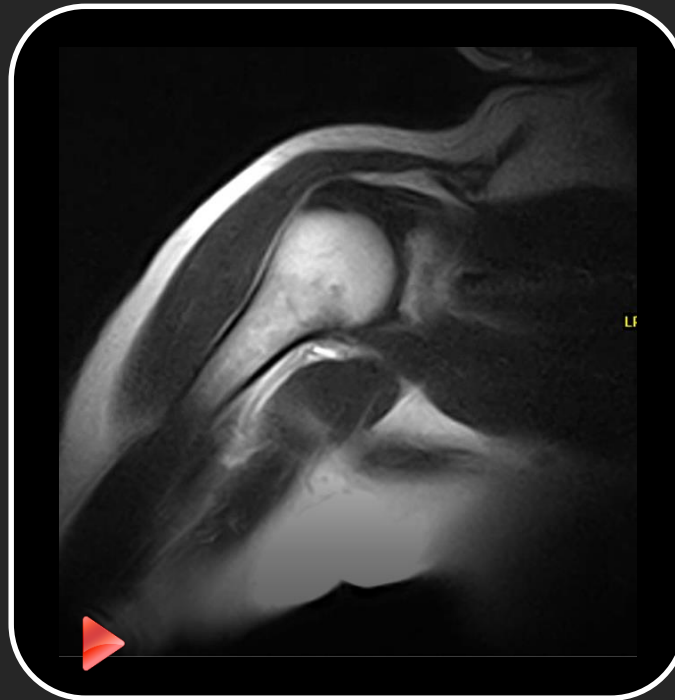


SE T1 (MAR) - Coronal



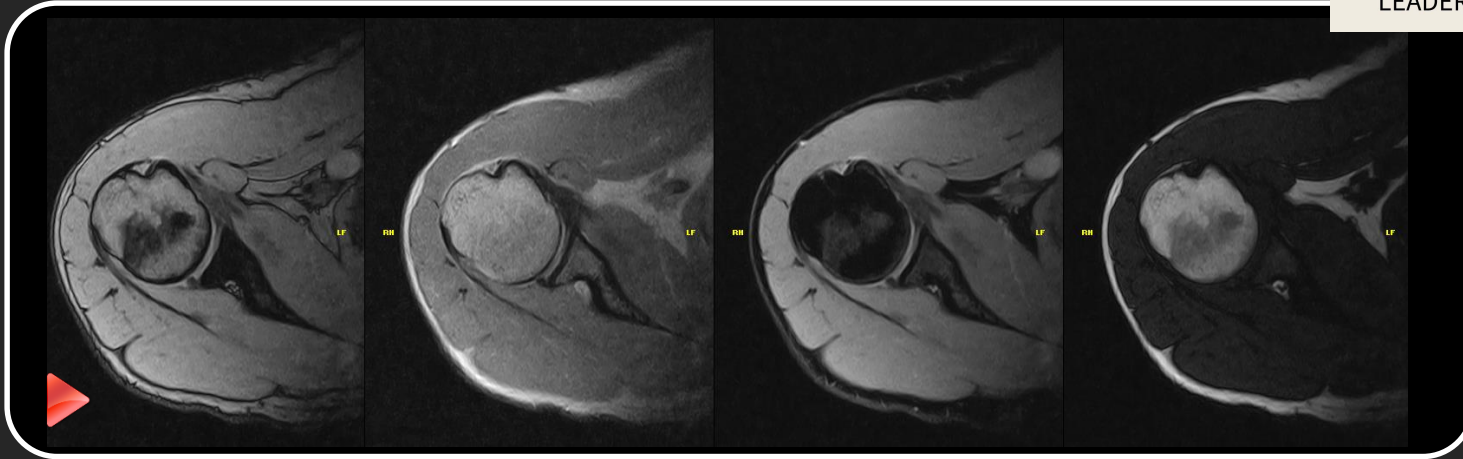
FSTIR (MAR) - Coronal

True Motion: Shoulder

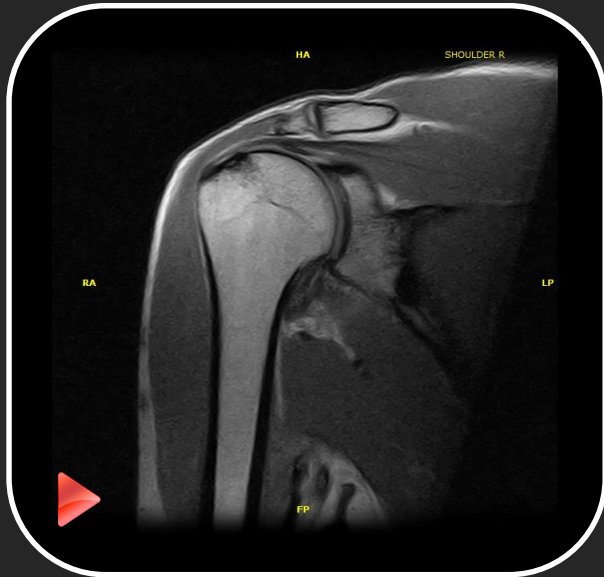


2D HYCE S - Coronal

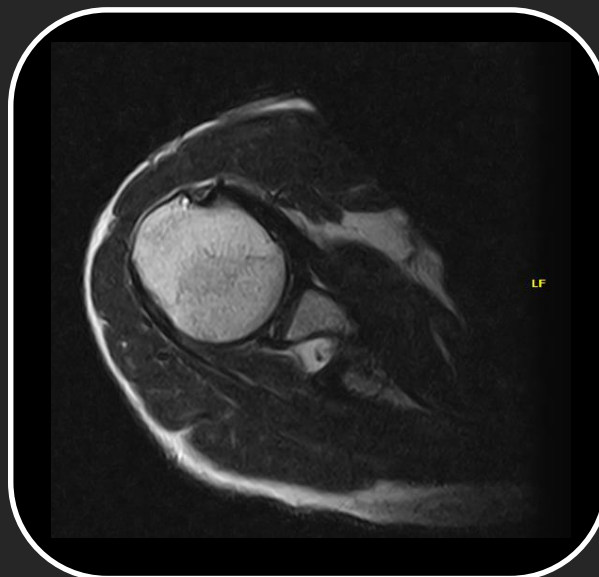
Shoulder: Impingement



X-Bone T2 (Fat Suppression Echo) - Axial



SE T1- Coronal



FSE T2 - Axial



SE T1- Sagittal

Shoulder: Bankart Lesion + Hill Sachs (CM)



3D SHARC (CM) – Coronal



3D SHARC (CM) - Sagittal



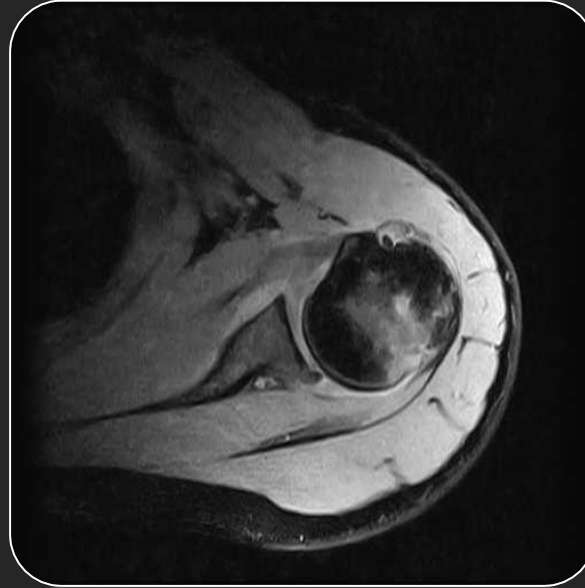
3D SHARC (CM) - Axial

Shoulder:

Greater Trochanter Fracture



FSE PD - Coronal



X-Bone T2 (Fat Suppression Echo) - Axial

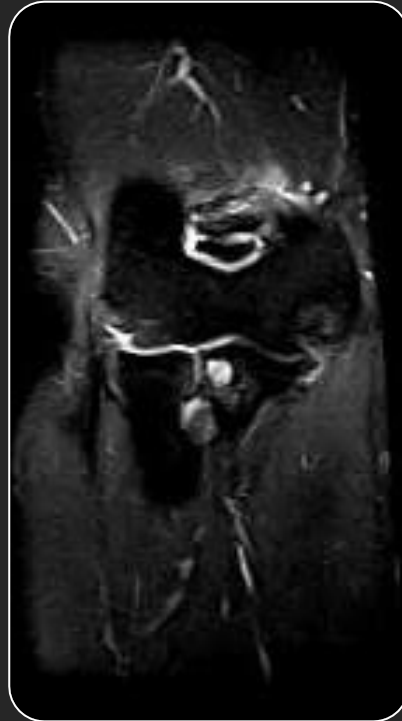


FSTIR - Coronal

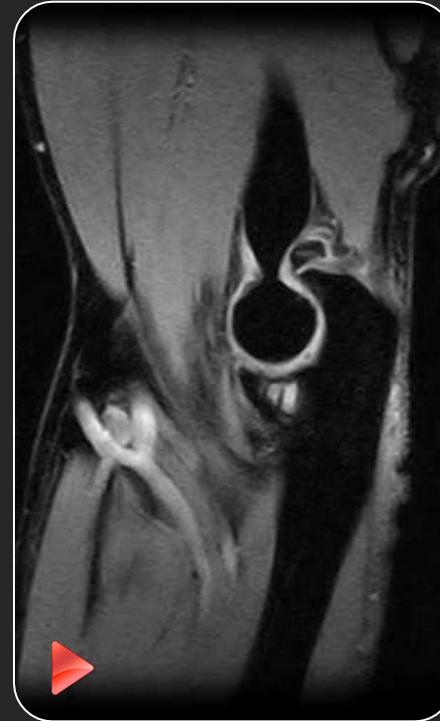
Elbow: Old Fracture



GE T2 - Sagittal



FSTIR - Coronal



X-Bone T2 (Fat Suppression Echo)
- Sagittal



FSE T2 - Axial

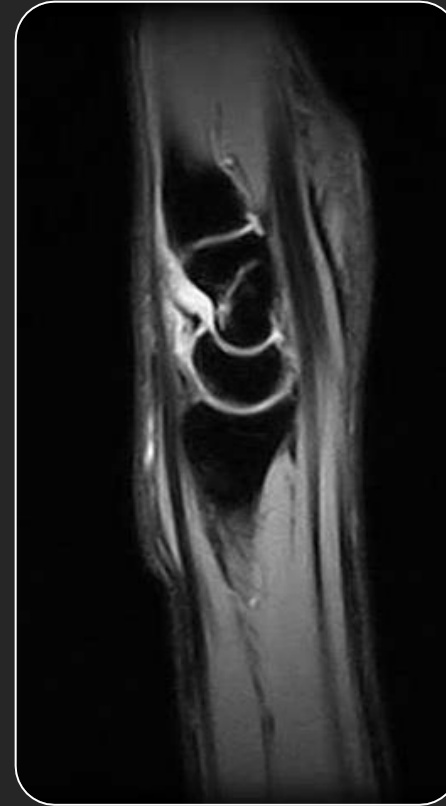
Wrist: Capitate Fracture



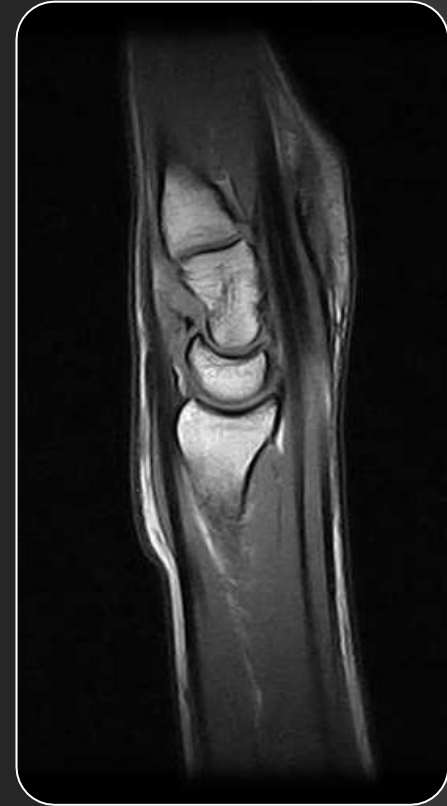
GE STIR - Coronal



3D SHARC ISO - Coronal



X-Bone T2 (Fat Suppression Echo)
- Sagittal

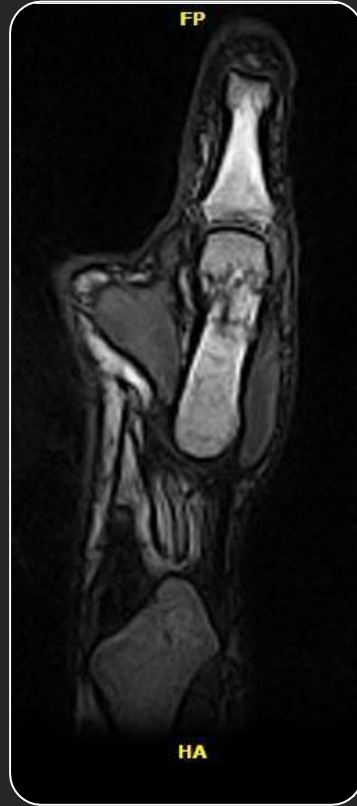


SE T1 - Sagittal

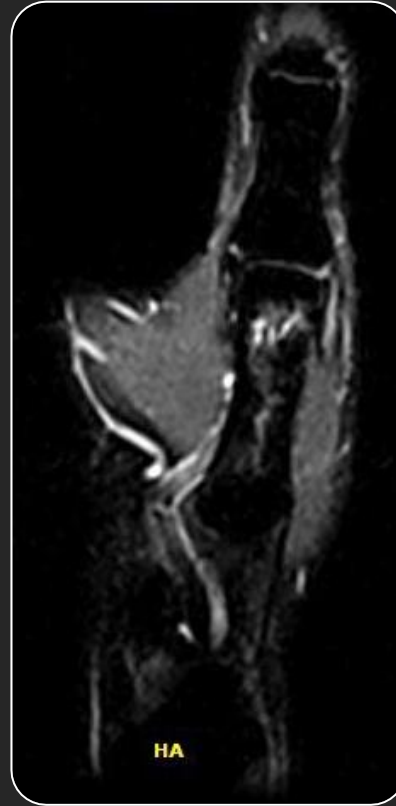
Hand: Phalangeal Fracture



3D SHARC - Coronal



3D SST1 - Coronal

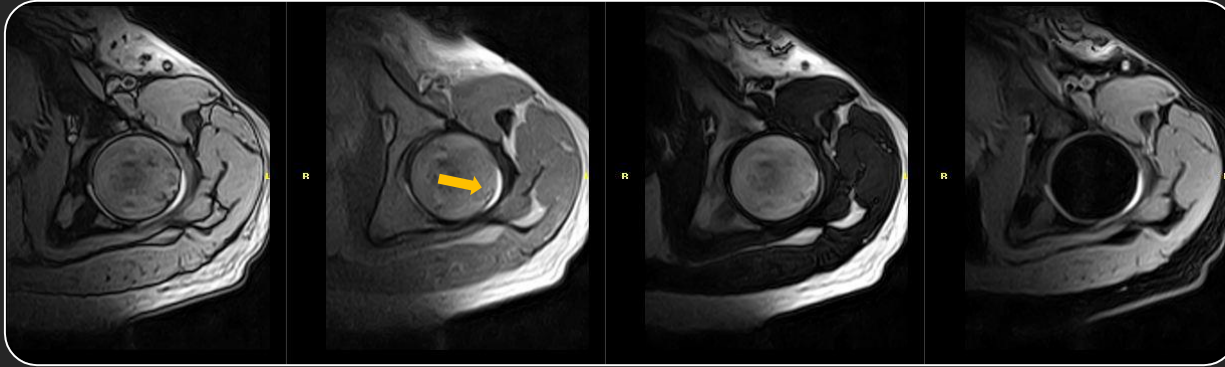


STIR - Coronal



FSE T2 - Axial

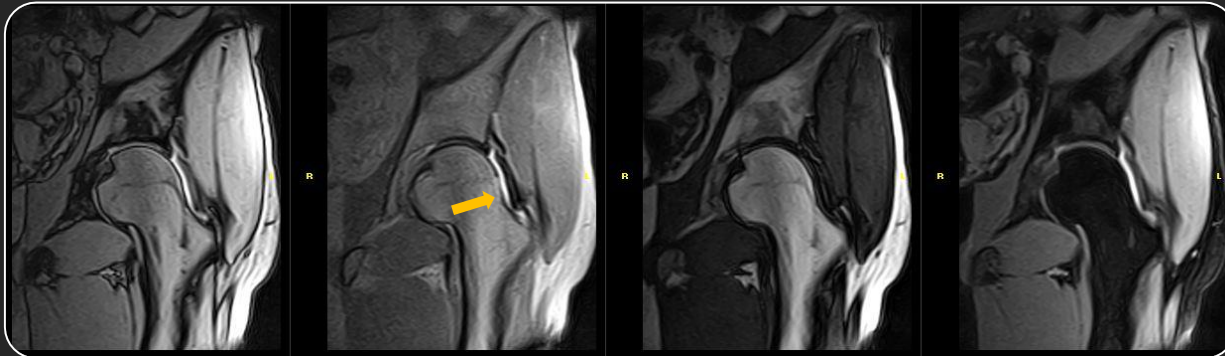
Hip: Labrum Lesion (CM)



X-Bone T2 - Axial



SE T1 (CM) - Axial

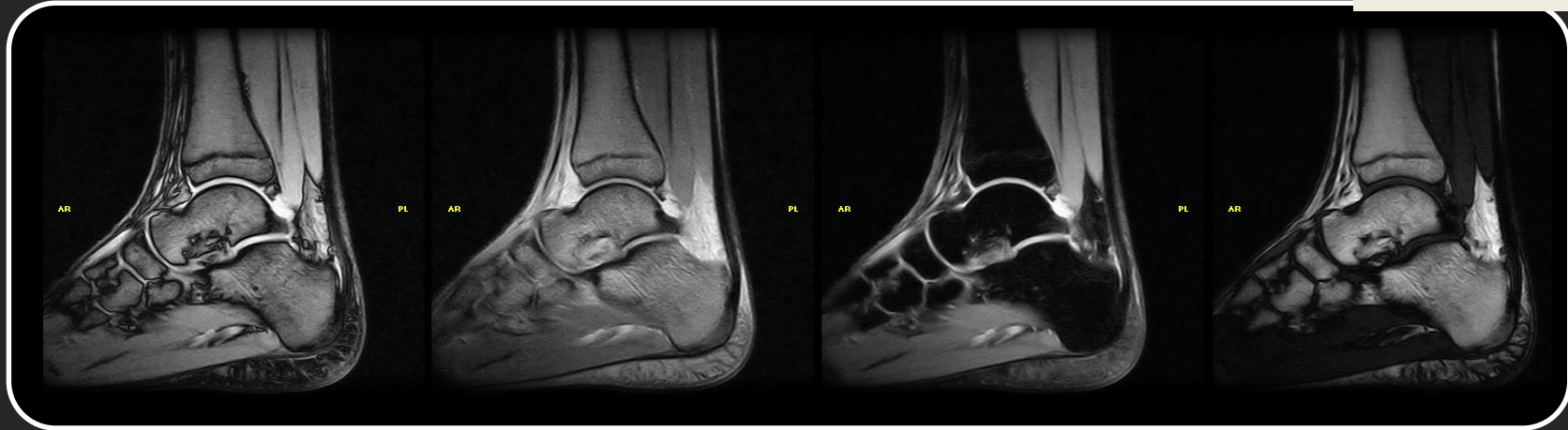


X-Bone T2 - Coronal



SE T1 (CM) - Coronal

Ankle: Healthy



XBONE T2 - Sagittal

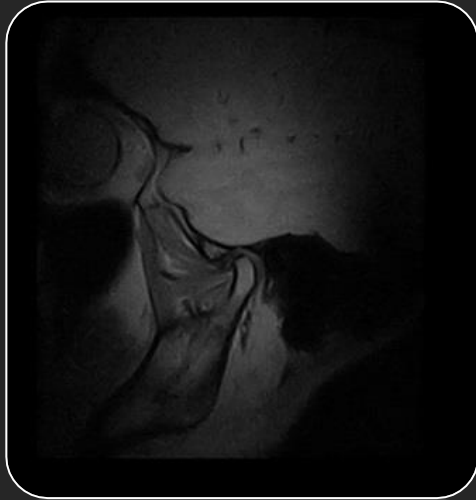


GE T2 – Sagittal

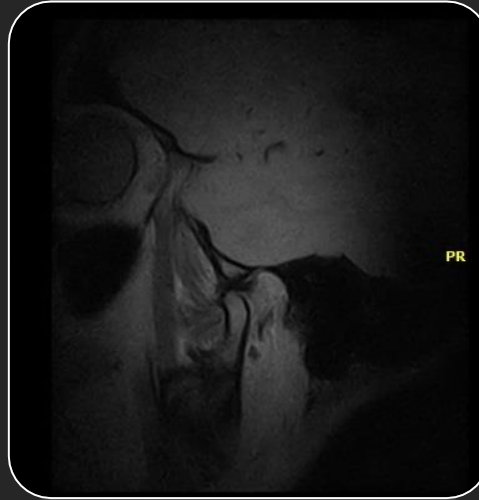


SE T1 - Coronal

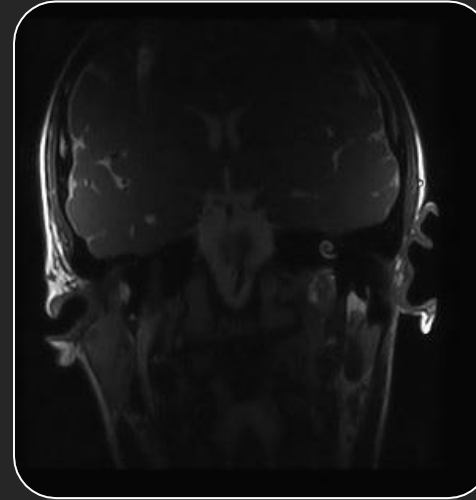
TMJ: Open&Closed Mouth



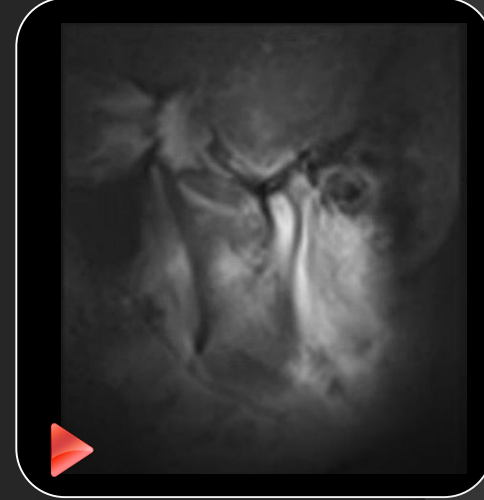
FSE PD – Closed
Mouth



FSE PD – Open Mouth



3D HYCE - Coronal



True Motion