ARTHROGRAM & TMJ (TEMPOROMANDIBULAR JOINTS) 4-1-25

Include in Study notes: Date of injury? previous surgery?

SHOULDER ARTHROGRAM **Images**

1. 3 Pl loc
2. Cor T1 cl fat sat OBLIQUE
3. Sag T2 cl fat sat OBLIQUE
4. Cor T2 cl fat sat OBLIQUE
5. Ax PD cl fat sat OBLIQUE
6. Ax T1 no fat STRAIGHT
   --50 years old and Over--
7. Obl Sag T1
   --Under 50 years Old--
7. ABER 3 pl loc Arm over head
8. ABER Sag T1 cl fat sat
   **Set up off of Coronal Loc

►If patient is unable to raise arm,copy GRx of Ax PDfat and have patient externally rotate arm

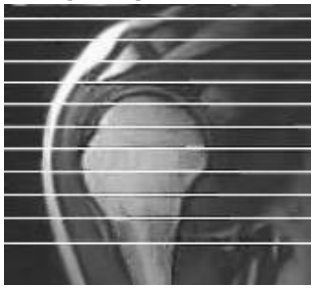
7. Ax PD cl fat sat OBLIQUE

OBLIQUE CORONAL

OBLIQUE SAGITTAL

OBLIQUE AXIAL

STRAIGHT AXIAL



ABER

HIP ARTHROGRAM (3T less than 50, 1.5T 50 or older) **Images**

1. 3 Pl loc 1.5T OK if Patient not 3T Compatible
2. Ax cal scan
3. Cor T1 cl fat sat 4/0.4 20 FOV
4. Cor T2 cl fat sat 4/0.4 20 FOV
5. Sag PD cl fat sat 4/0.4 18 FOV
6. **OBLIQUE** Ax T1 cl fat 4/0.4 18 FOV GRx on cor, parallel to fem neck
7. Ax T1 no fat sat 4/0.4 18 FOV Axial through lesser trochanter
8. Ax T2 cl fat sat 4/0.4 18 FOV Axial through lesser trochanter
9. Sag 3d SPGR IDEAL
   ►**Reformat:** Water series into 1.5 mm in all 3 planes
   ►**ALI:** Water series & reformats
   ►**ALI_SOURCE:** Remaining source images

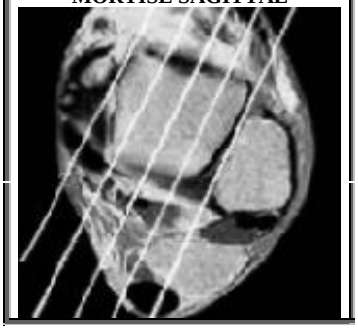
KNEE ARTHROGRAM

1. 3 Pl loc
2. Ax T2 cl fat sat--4 slices above patella through tib/fib joint
3. Cor T1 cl fat sat --Popliteal Artery through patella
4. Sag PD--Include all bone through ligaments
5. Sag T2 cl fat sat
6. Sag T1 cl fat sat

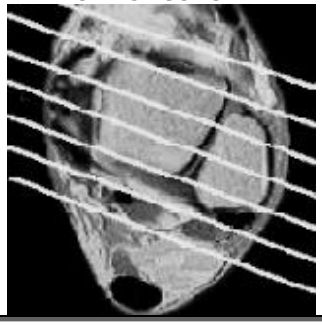
ANKLE ARTHROGRAM

1. 3 Pl loc **Images**
2. Ax T1 cl fat sat 3/1 14 FOV
   Cover 5 slices above ankle join through the entire calcaneus.
3. Sag FSTIR MORTISE 3/0.5 14 FOV
4. Sag T1 cl fat sat MORTISE 3/0.5 14 FOV
5. Cor T1 cl fat sat MORTISE 3/0.5 14 FOV
6. Cor PD no fat sat MORTISE 3/0.5 **16** FOV
7. Cor 3D GRE MORTISE 1.5/ 28 loc 14 FOV

MORTISE SAGITTAL



MORTISE CORONAL



ELBOW ARTHROGRAM

1. 3 Pl loc
2. Ax T1 cl fat sat
   ►Axial to humerus, GRx on coronal from 3 pl loc
3. Ax T2 cl fat sat
   ►Axial to humerus, GRx on coronal from 3 pl loc
4. Sag T1
   ►Sagittal to distal humerus on an axial image
5. Cor T1 cl fat sat
   ►Cor (parallel) to distal humerus on an axial image
6. Cor PD cl fat sat
7. ►Cor (parallel) to distal humerus on an axial image

COIL:
8Ch or 16 ch Knee coil, 16 ch Wrap

Position: Prone, arm over head. Arm should be supine.

WRIST ARTHROGRAM ((3T less than 50, 1.5T 50 or older)

1. 3 Pl loc Midline
2. 3T & Artist (e-mail megan if scanned at 1.5T)

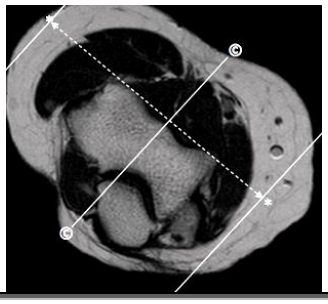
Cor PD Cube Fat (60 slices) 1/0 14 FOV **do not decrease # of slices. It will decrease SNR

3. Ax T1 cl fat sat 3/0.5 10 FOV
4. Ax T2 cl fat sat 3/0.5 10 FOV
5. Cor T1 cl fat sat 2/0.2 10 FOV
6. Cor T2 cl fat sat 2/0.2 10 FOV
7. Sag T1 **no fat sat** 3/0.5 10 FOV

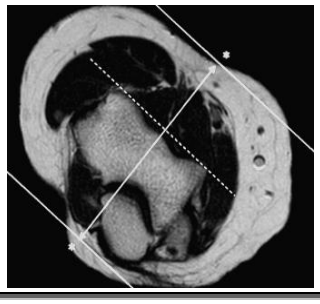
**IF at 1.5T run 8. Cor T1 SPGR fat 3d 1.2/0 10 FOV

COIL:
HD Wrist if avail
Opt: Small 16ch Flex
if not 3T compatible:
Dedicated Wrist, 16 ch Flex coil. **Position: Prone, arm over head**

SAGITTAL PLANE



CORONAL PLANE



TMJ: TEMPOROMANDIBULAR JOINTS (UH, RP @ 1SP ONLY)

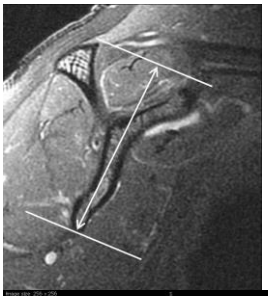
1. 3 Pl Loc
2. Ax CAL **IMAGES**
3. Ax T1 Quick localizer
   CLOSED JAW
   ►**Coronal: PARALLEL to condyles**
4. LEFT Cor T1 **OBL** 3/0.2 9 slices
5. RIGHT Cor T1 **OBL** 3/0.2 9 slices
   ►**Sagittal: MEDIAL Obl 20°-30° off Sagittal plane**
6. LEFT & RIGHT: Sag PD **OBL** 3/0.2 9 slices
7. LEFT & RIGHT: Sag T2 fat **OBL** 3/0.2 9 slices
   OPEN JAW **Note how many mm the patient is able to open their mouth in study notes. RP1: mm are on the back of the TMJ tool. TMJ bites: each step is 4mm
8. LEFT & RIGHT: Sag PD **OBL** 3/0.2 9 slices

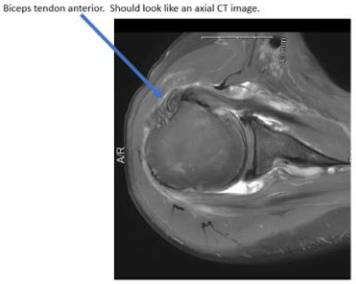
TMJ Bites in back left cabinet next to breast biospy supplies

Coil: 8HRBRN

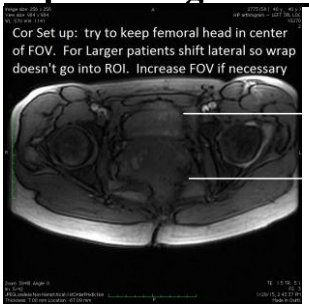
Shoulder Arthogram Set Up:

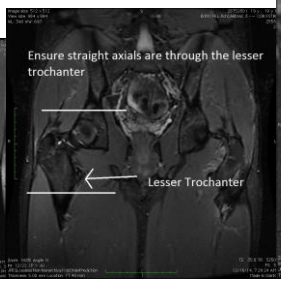
Once the axial is rotated, please double check that the glenoid/scapula is oriented in the same direction on both the Sag and Cor as above.





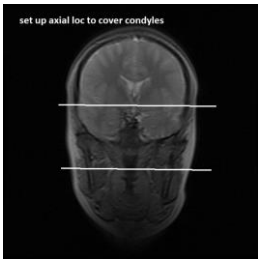
Hip Arthrogram Set up:

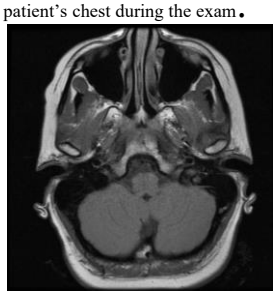




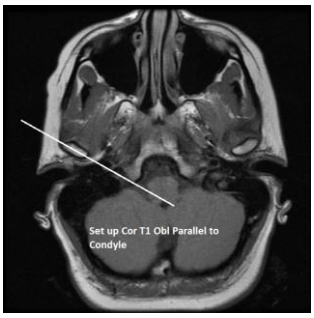
TMJ Set Up: **Artist scanners, use Medium MP**

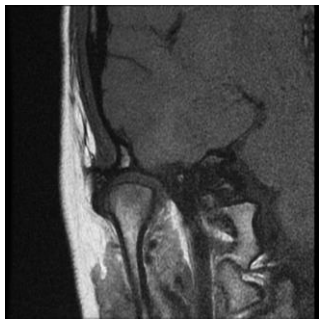
SMC--Prior to test have patient open TMJ device to their max comfort. Have resting on patient's chest during the exam.





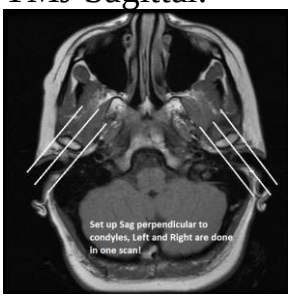
TMJ Coronal:

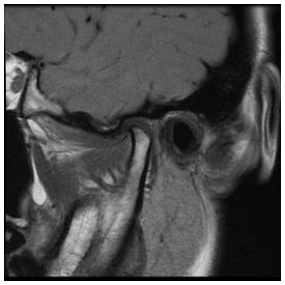


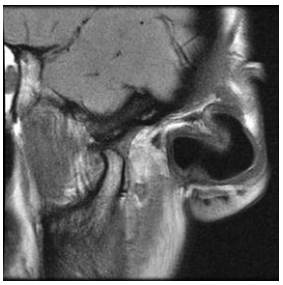


Have patient open the TMJ device. Instruct them to not move their head.

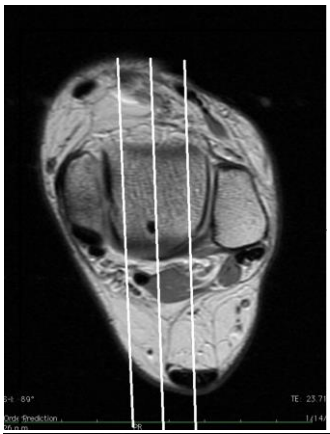
TMJ Sagittal:







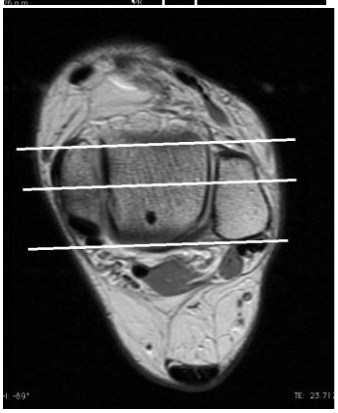
Ankle Arthrogram:



Mortise Sagittal

Angle parallel to the talus bone (will also end up being parallel to the calcaneus.)

Cover skin to skin



Mortise Coronal:
Angle Perpendicular to the talus bone (Will also end up being perpendicular to the calcaneus)

Cover entire calcaneus to metatarsals