

ARTHROGRAM & TMJ (TEMPOROMANDIBULAR JOINTS)

6-19-19

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
 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 PD fat and have patient externally rotate arm
7. Ax PD cl fat sat OBLIQUE

OBLIQUE CORONAL



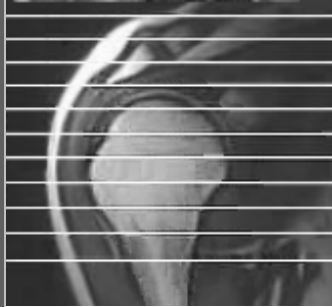
OBLIQUE SAGITTAL



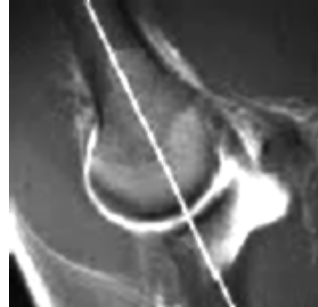
OBLIQUE AXIAL



STRAIGHT AXIAL



ABER



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.

HIP ARTHROGRAM (3T) **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

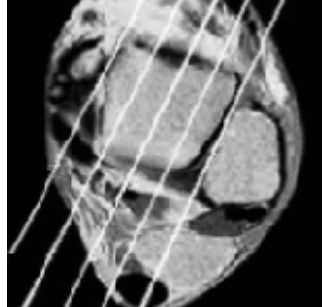
KNEE ARTHROGRAM

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

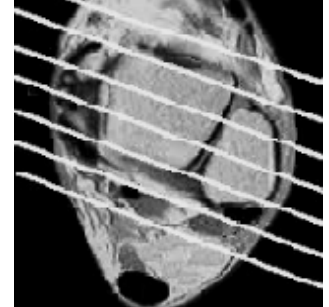
ANKLE ARTHROGRAM

1. 3 Pl loc **Images**
2. Ax T1 cl fat sat 3/1 14 FOV
 - Cover 5 slices above ankle joint 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



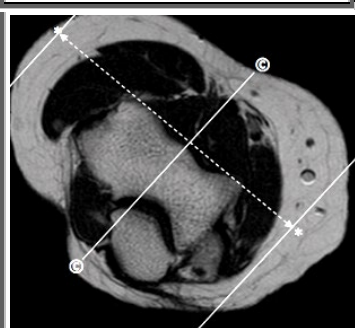
WRIST ARTHROGRAM (3T)

1. 3 Pl loc Midline
2. 3T only--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**
- **FOV might be larger at CSC due to coils available****

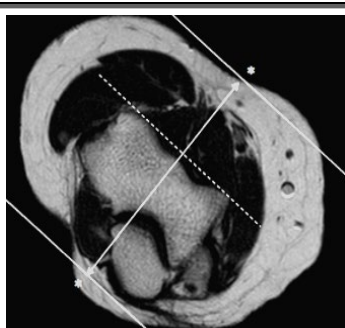
COIL:

HD Wrist if avail
 Opt: 16ch Flex
if not 3T compatible:
 Dedicated Wrist (4ch at RP1) 8 or 16 ch
 Knee, 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**
8. LEFT & RIGHT: Sag PD OBL 3/0.2 9 slices

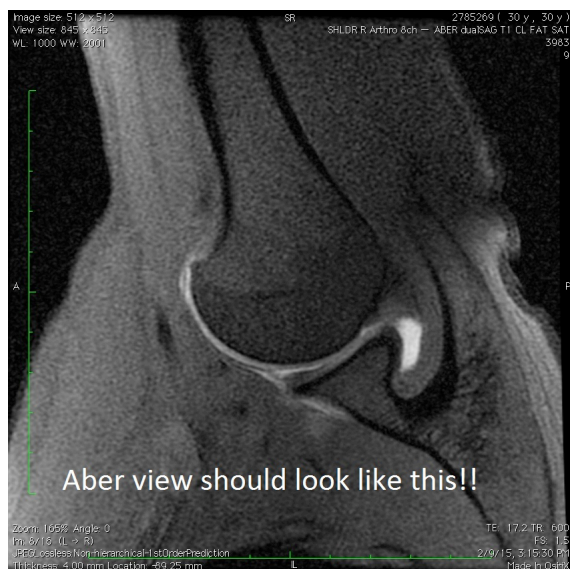
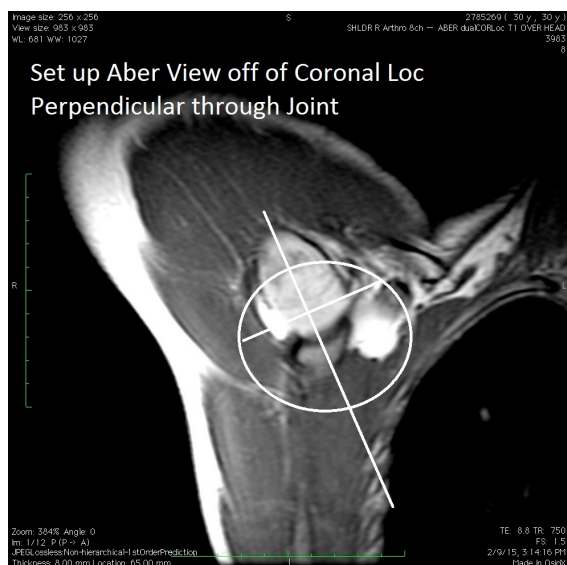
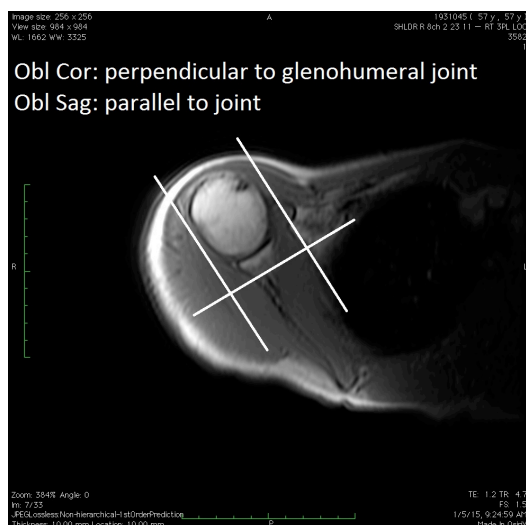
Coil:

8HRBRN

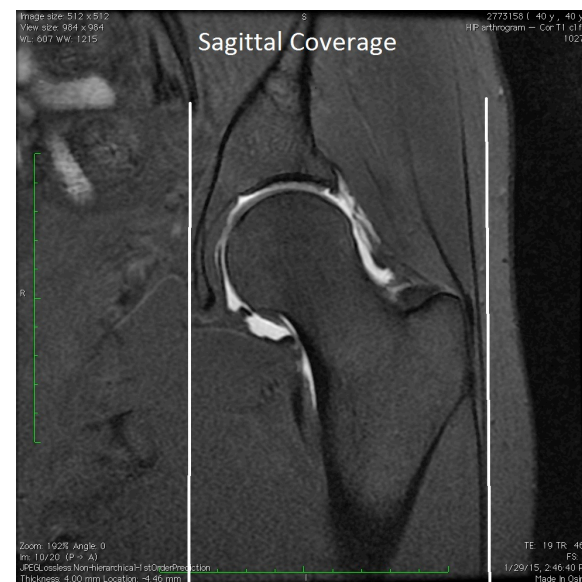
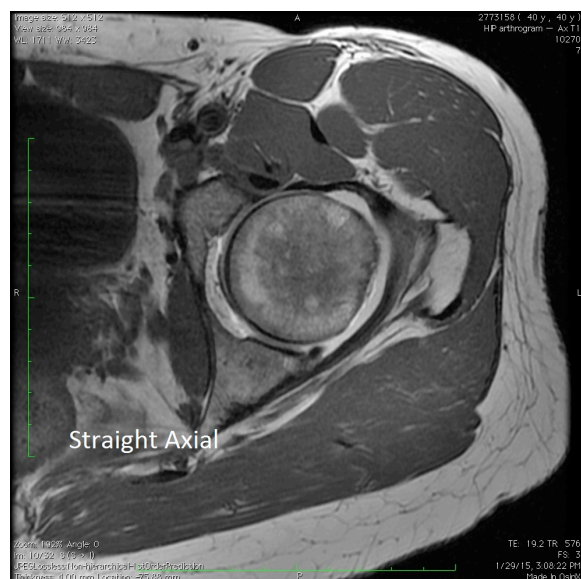
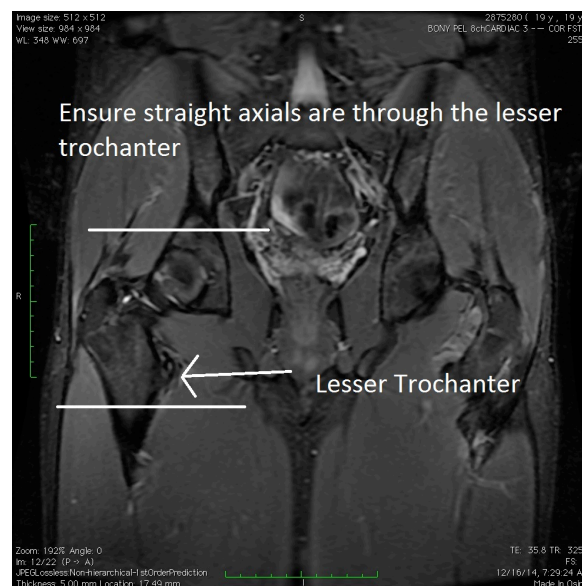
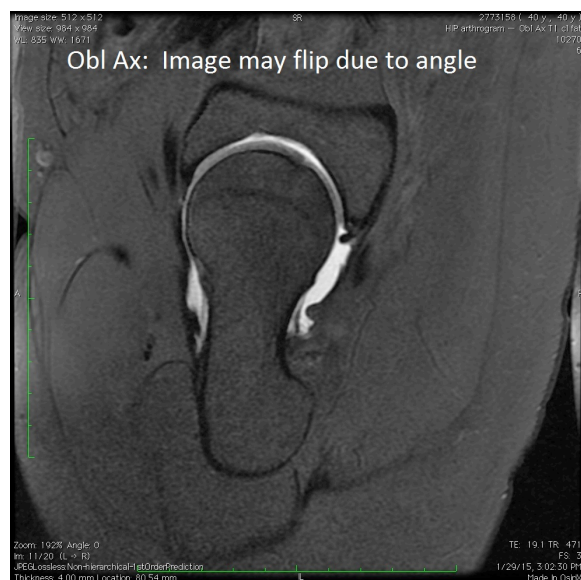
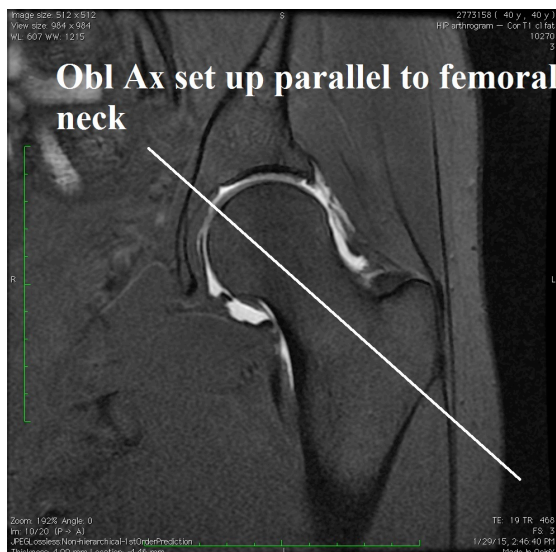
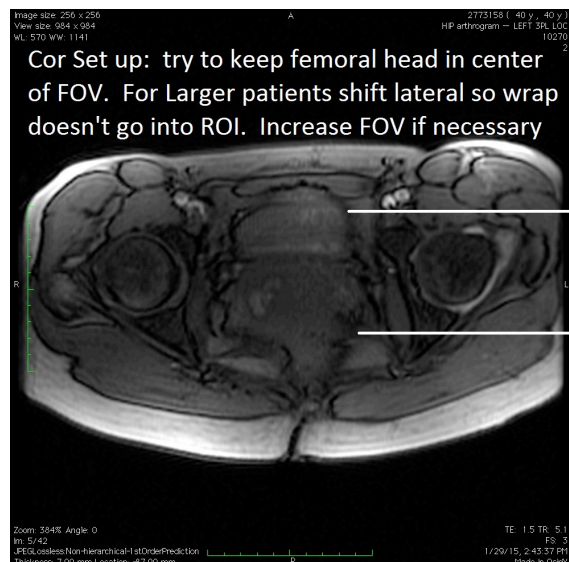
TMJ Bites in back left cabinet next to breast biopsy supplies



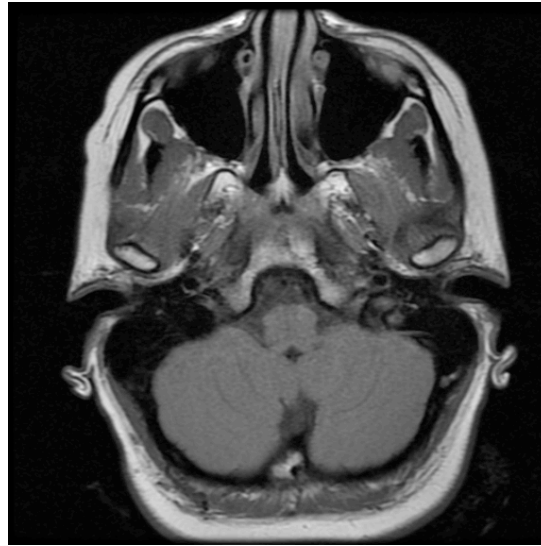
Shoulder Arthrogram Set Up:



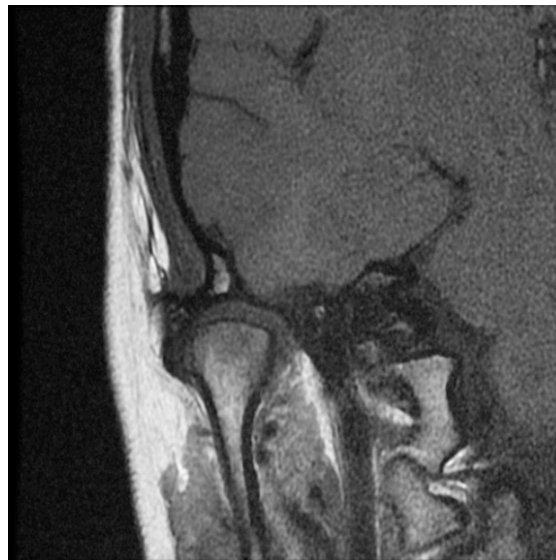
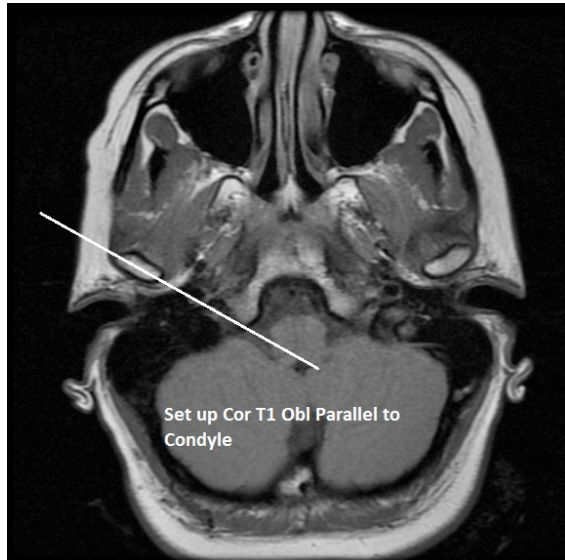
Hip Arthrogram Set up:



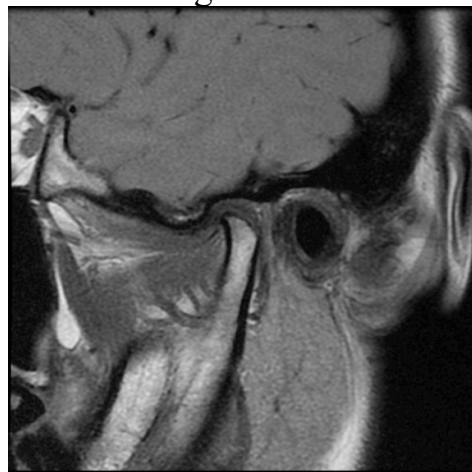
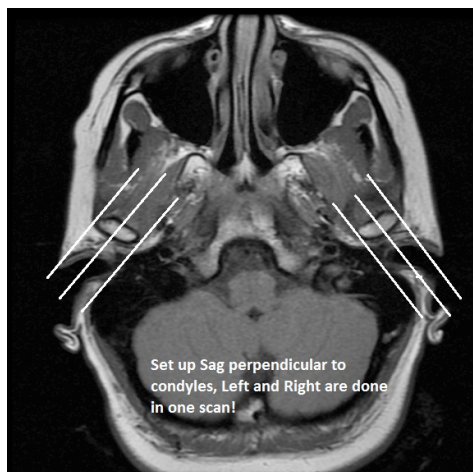
TMJ Set Up: Prior to test have patient open TMJ device to their max comfort. Have resting on patient's chest during the exam.



TMJ Coronal:



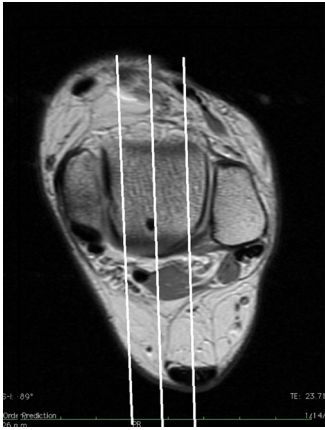
TMJ Sagittal:



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



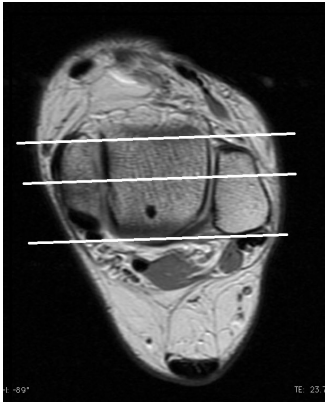
Ankle Arthrogram:



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