Scott Johnson MS RT (R)(MR)

Positioning

- Spine Coil
- Side of interest down
- Wedge under sternum
- Pull side up forelimb caudally
- Pull side down forelimb cranially until humerus is roughly perpendicular to sternum
 - The idea is to get the forelimb in a relatively neutral position
- *****PALPATE SHOULDER JOINT****
- *****NOTE WHICH COILS THE JOINT IS OVER****
- 34 or 345 etc etc

First steps before scanning

- 1. Register patient
- 2. Adjust patient position to be either Left or Right decubitus, depending on side of interest
- 3. Open first scout image
- 4. Change spine coil selection to match the coils you noted inside the room
- 5. APPLY ALL
- 6. When in doubt, choose more coils

Second scout

- 1. Open scout
- 2. Maximize image
- 3. Click on 'report cursor'
- 4. Scroll through your images to find the shoulder joint on a transverse or a dorsal
- 5. Place cursor within the shoulder joint
- 6. Record the coordinates
 - a. Something like L30 P10 S20 etc
 - b. Will be different every patient
- 7. Input these coordinates with letters into the corresponding start/end points
- 8. Save, prep, scan

Dorsal Scout:

Axial Scout:

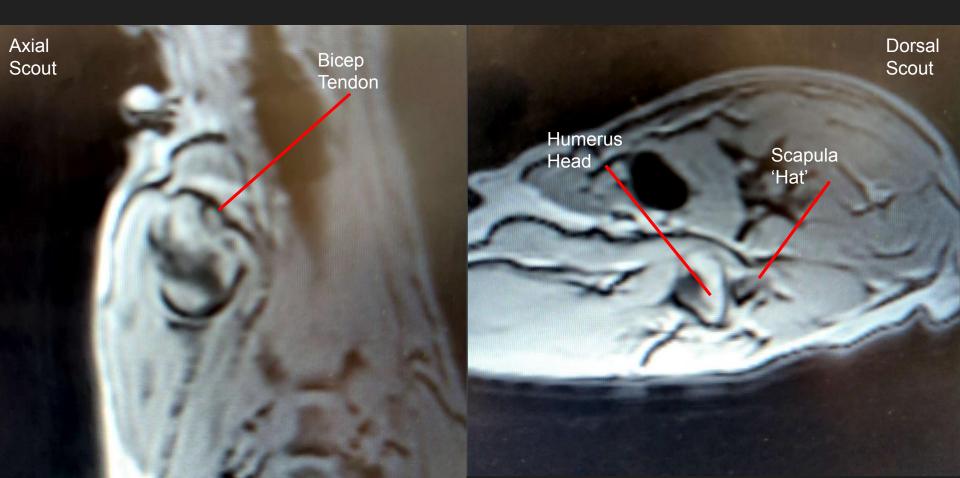
Looks like

dorsal spine

 Looks like axial spine



What to look for on second scout



Planning Sag PD Loc

- 1. Click on the center of the joint to drop your slice
- Use the blue circle to rotate slice so it cuts through the middle of the head and the 'hat'
- 3. Drag the square to add slices to cover from blue line to red line
- 4. Adjust TR to fit all slices in



What to look for on Sag PD Loc

- Click on the center of the joint to drop your slice
- 2. Use the blue circle to rotate slice so it cuts through the middle of the head and the 'hat'
- 3. Drag the square to add slices to cover from blue line to red line
- 4. Adjust TR to fit all slices in



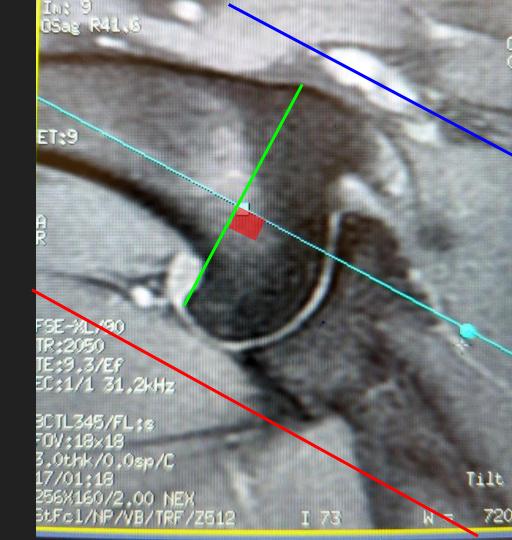
Planning axial on Sag PD Loc

- 1. Scroll through slices on Sag PD Loc
- 2. Locate a slice kind of mid joint where you can see the supraspinatus tendon
 - a. The tendon is usually bright, and will attach to the cranial bump on the humeral head
- Click in the middle of the humeral head, use blue circles to rotate slice to that it is perpendicular to the tendon over the joint
- 4. Image a 90 degree angle between the tendon and your slice (red box)
- 5. Angle will vary with forelimb position and patient anatomy
- 6. Drag square to add slices, cover from blue line to red line. Adjust TR

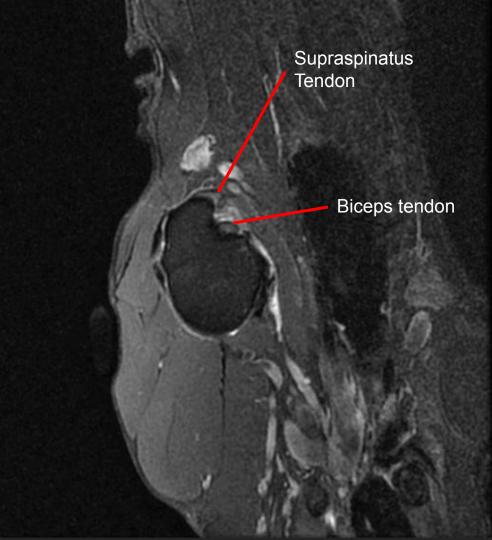


Planning Dorsal on Sag PD Loc

- 1. Scroll to a middle slice in the joint
- 2. Click in the middle on the joint to drop slices
- 3. Imagine a line connecting the cranial humerus bump and the tip of the caudal bump on the humerus (green line)
- 4. Use the blue circles to rotate your slice to be perpendicular to the imagined line (green)
- 5. Use square to add slices to cover from blue line to red line
- 6. Adjust TR



What to look for on Axial images



What to look for on Dorsal images

