

MRT des Schultergelenkes

MRT der Schulter nach relevantem Schultertrauma außer Luxation

Dr. Jonas Müller-Hübenthal

15. Ärztetreffen

Praxis im KölnTriangle

15. Ärztetreffen

6. November 2013

MRT der Schulter – mehr als Impingement

- Untersuchungstechnik
 - Spule
 - Sequenzen
 - Indirekte und direkte Arthrographie
- MR-Anatomie
 - Rotatorenmanschette
 - Labrum, SLAP und Glenohumerale Ligamente
 - LBS und Pulley
 - Gelenkraum

Anatomie - Ansicht von ventral und lateral

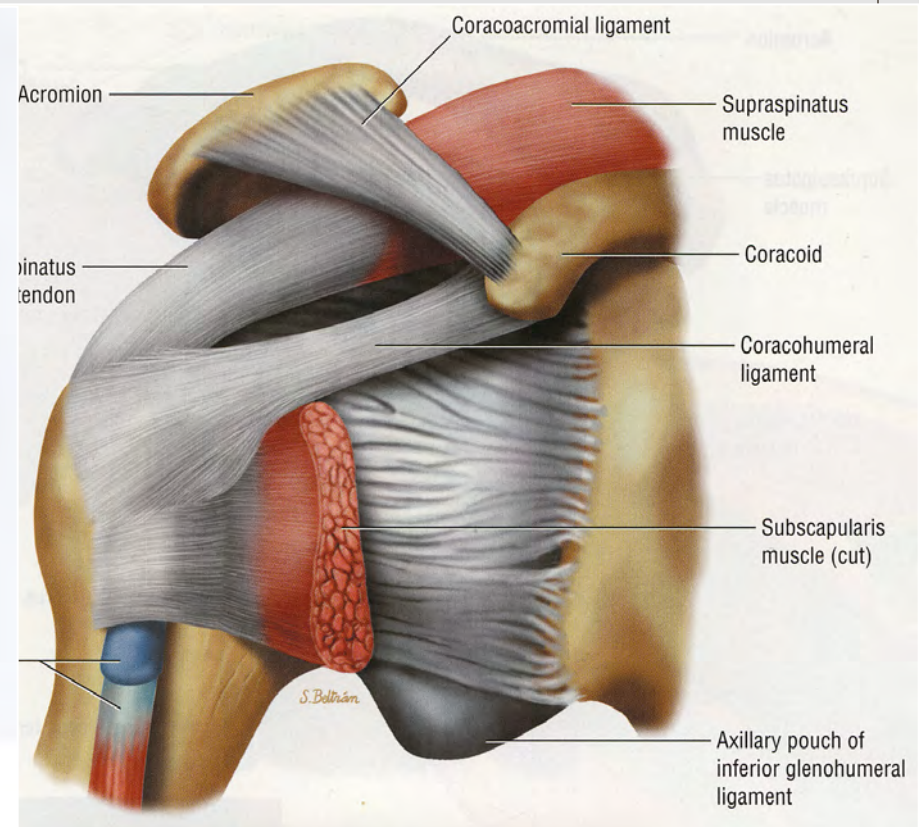
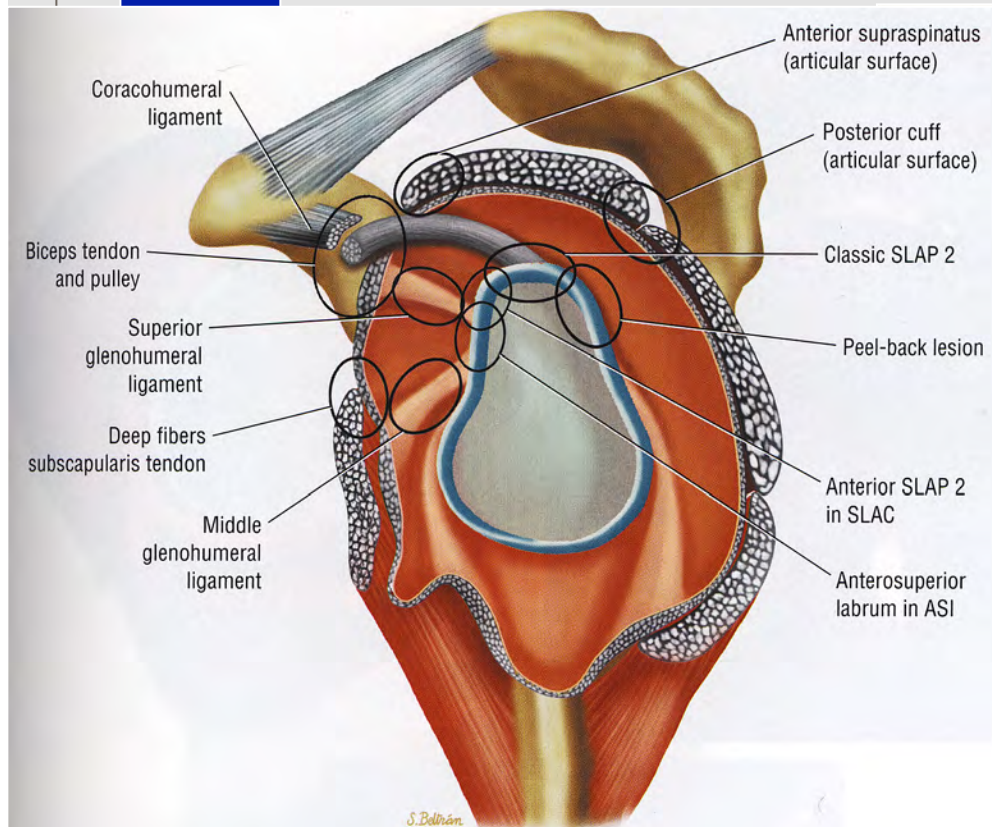


Abb. aus Stoller: MRI in Orthop. 3. Aufl.

15. Ärztefortbildung

PRAXIS im KÖLN TRIANGLE

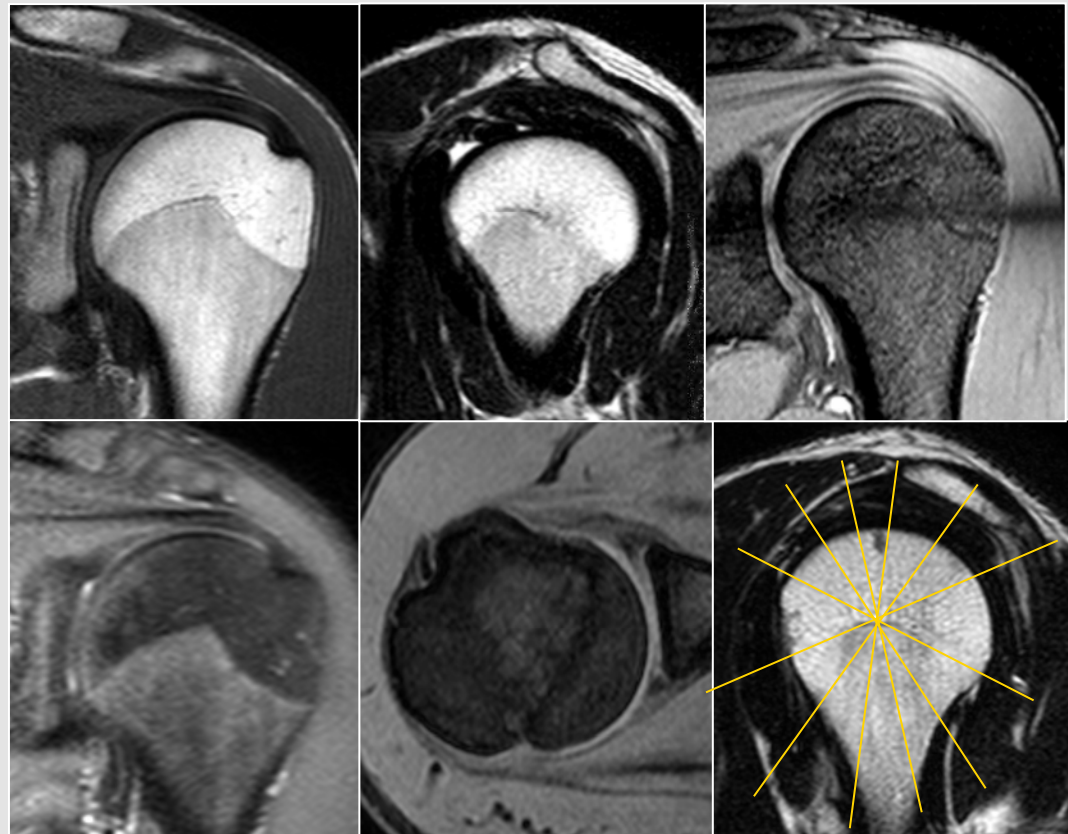
6. November 2013

Untersuchungstechnik - Spulentechnik

- Einfache Loop Spule
- Sense Flex M-Spule
- 8-Kanal-Schulterspule
- Sense Faktor 2: Verkürzung der Untersuchungszeit auf die Hälfte

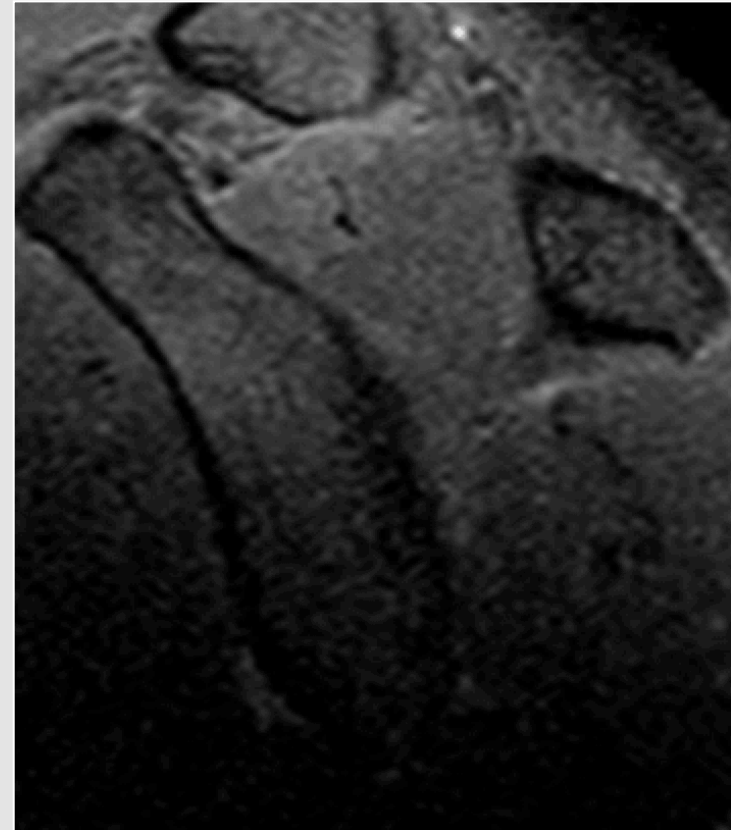
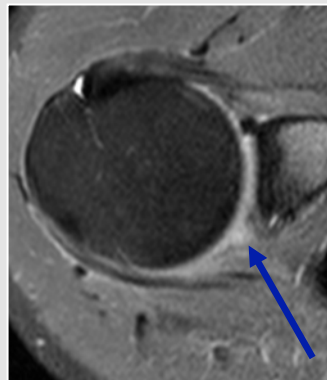
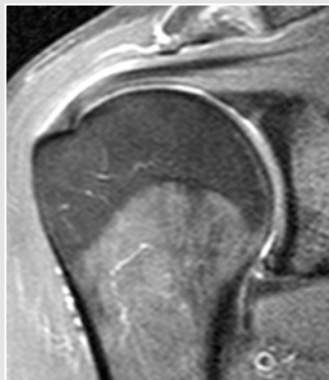
Untersuchungstechnik - Sequenzen

- Paracor T1
- Paracor PD SPIR
- Parasag T2
- Ax 3D WATS
- Radiale T2 FFE



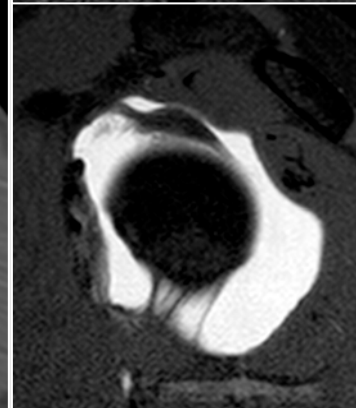
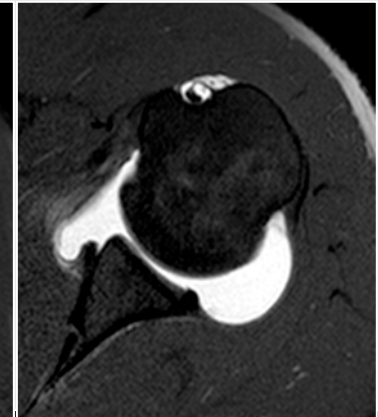
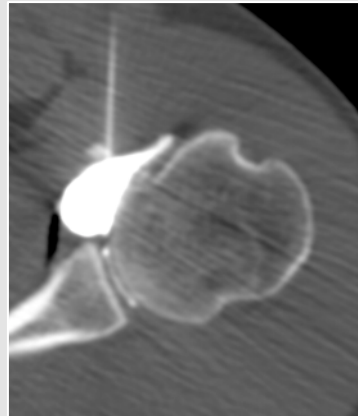
Untersuchungstechnik: Indirekte MR-Arthrographie

- Intravenöse KM-Injektion
- Durchbewegen über 15 min
- T1 SPIR-Sequenzen axial, paracor und parasag.

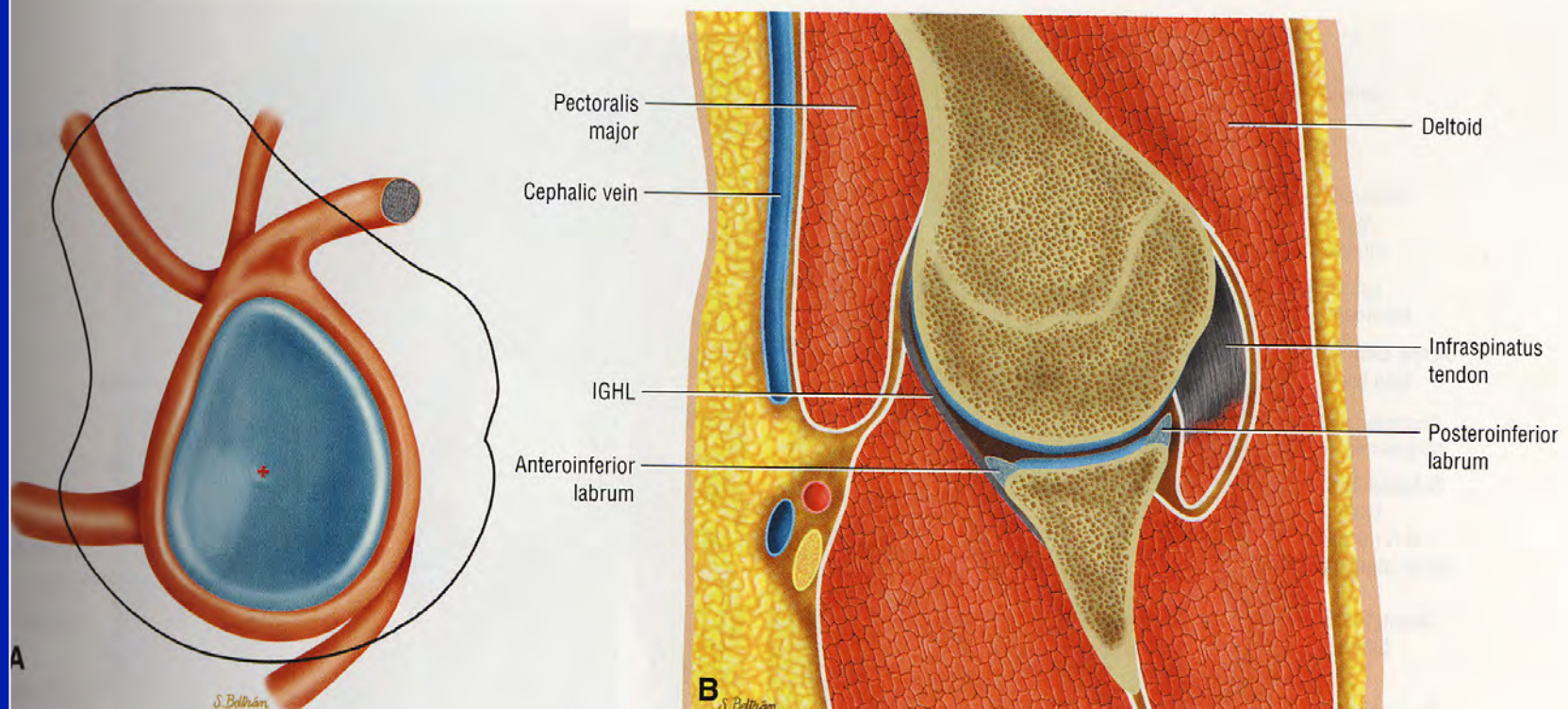


Direkte CT-gestützte MR-Arthrographie

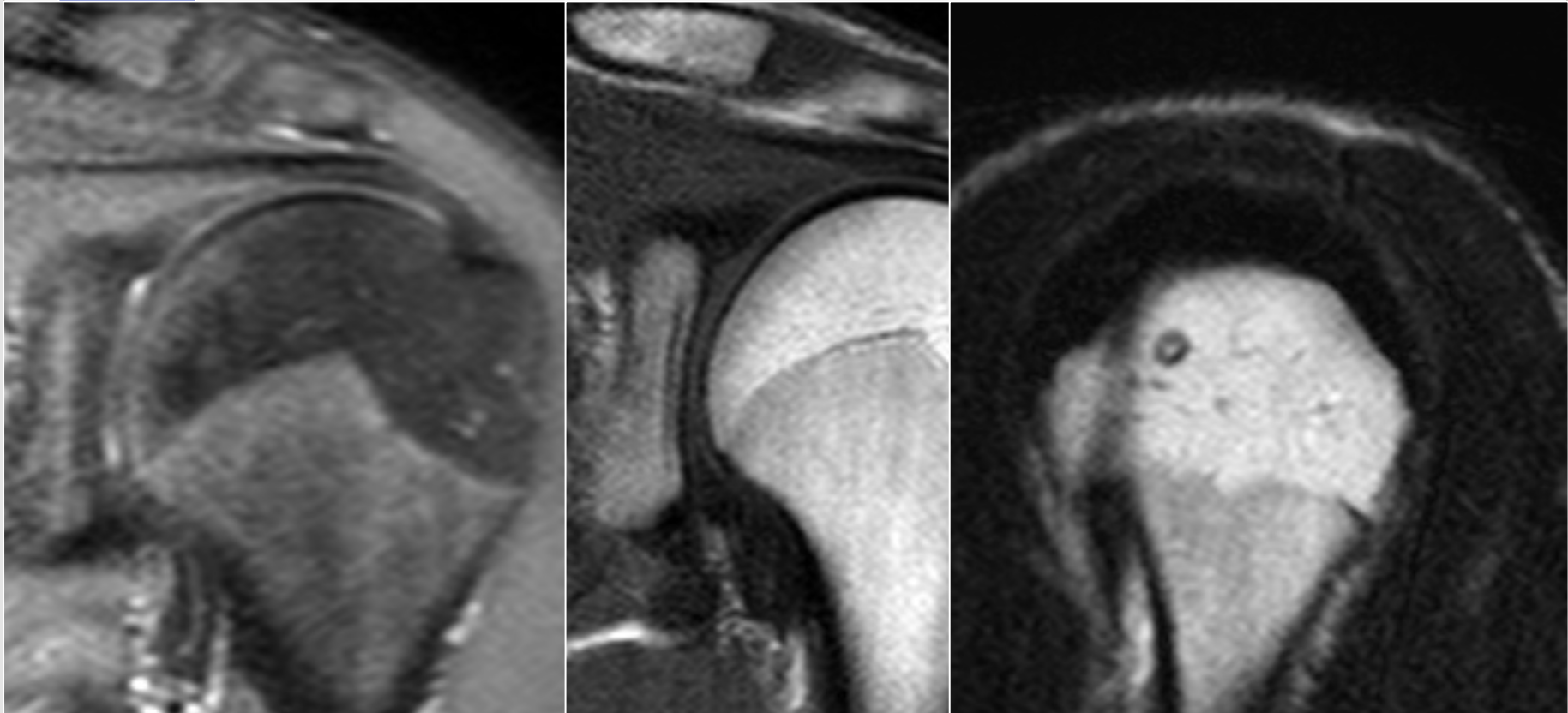
- CT-gestützte Punktion (analog PRT)
- Injektion von 15 ml Artirem ® und ggf. Luft
- Spiral-CT
- 3 Eb. T1 SPIR
- Sag T2



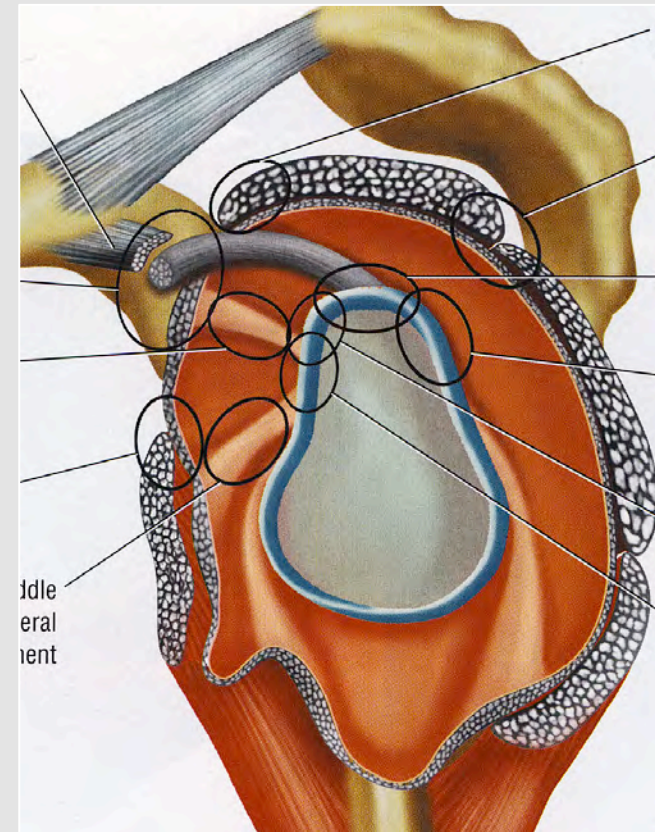
ABER-Position



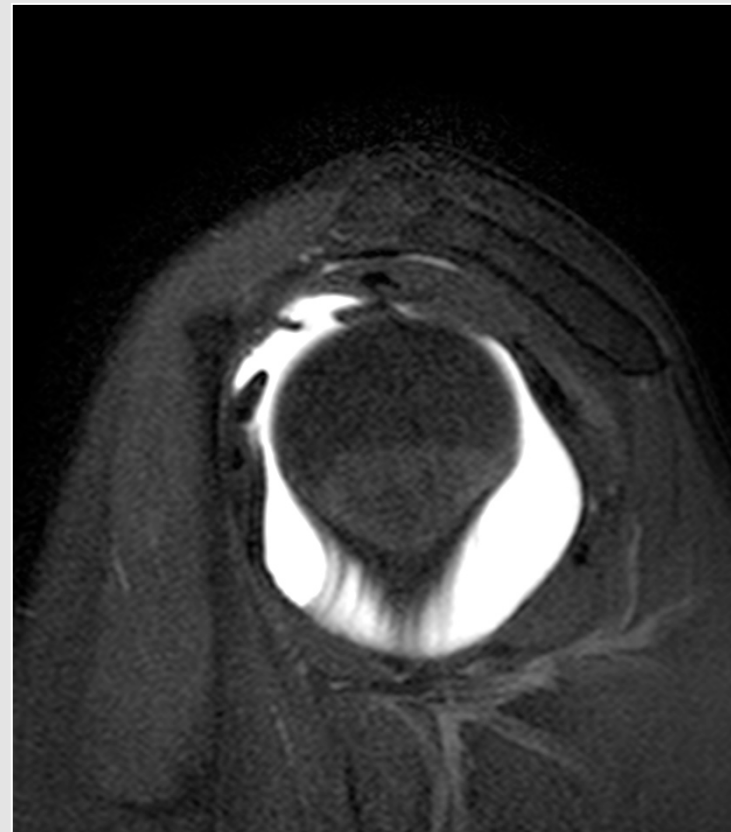
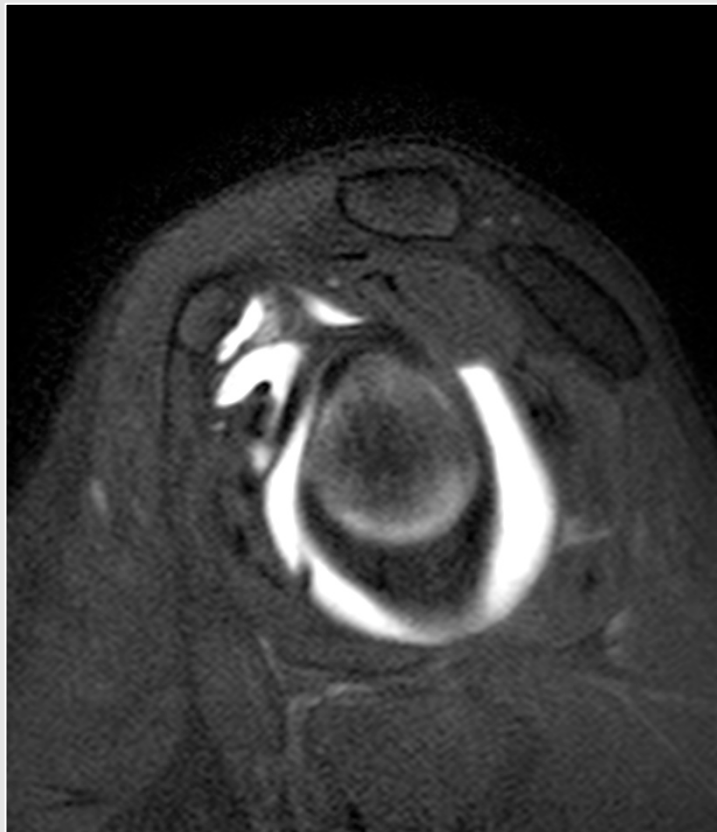
MR-Anatomie: Unauffällige Supraspinatussehne



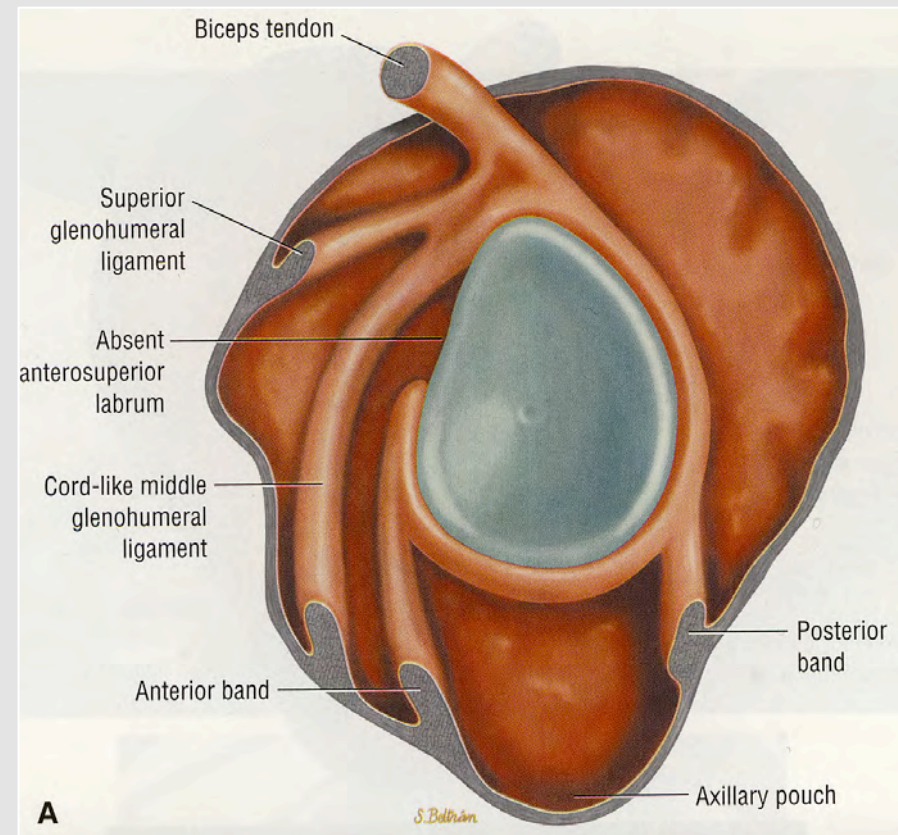
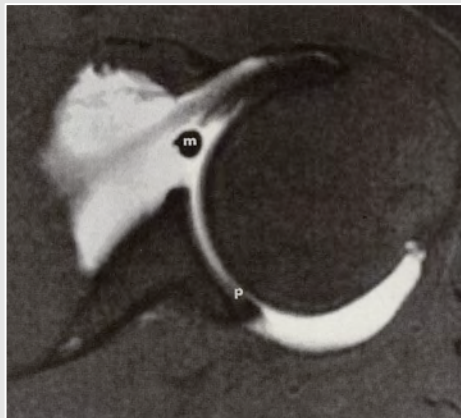
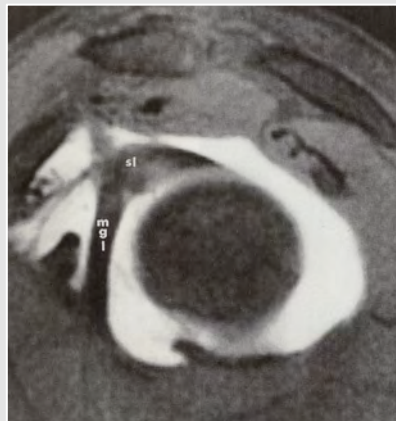
MR-Anatomie: Glenohumerale Ligamente



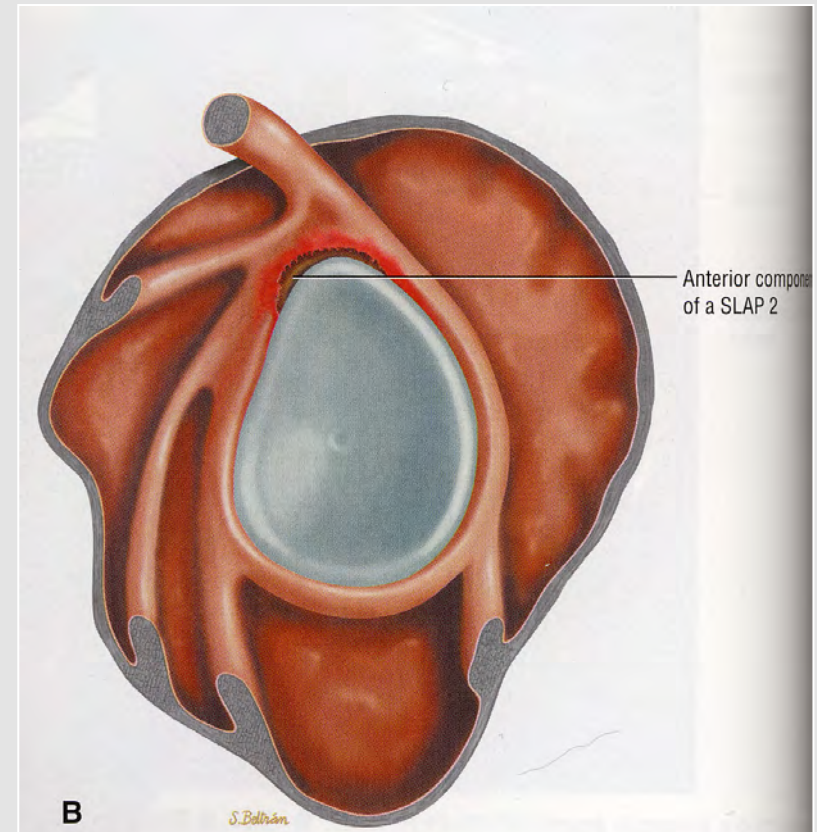
MR-Anatomie: glenohumerale Ligamente



MR-Anatomie: Buford Complex



MR-Anatomie: superior Labrum

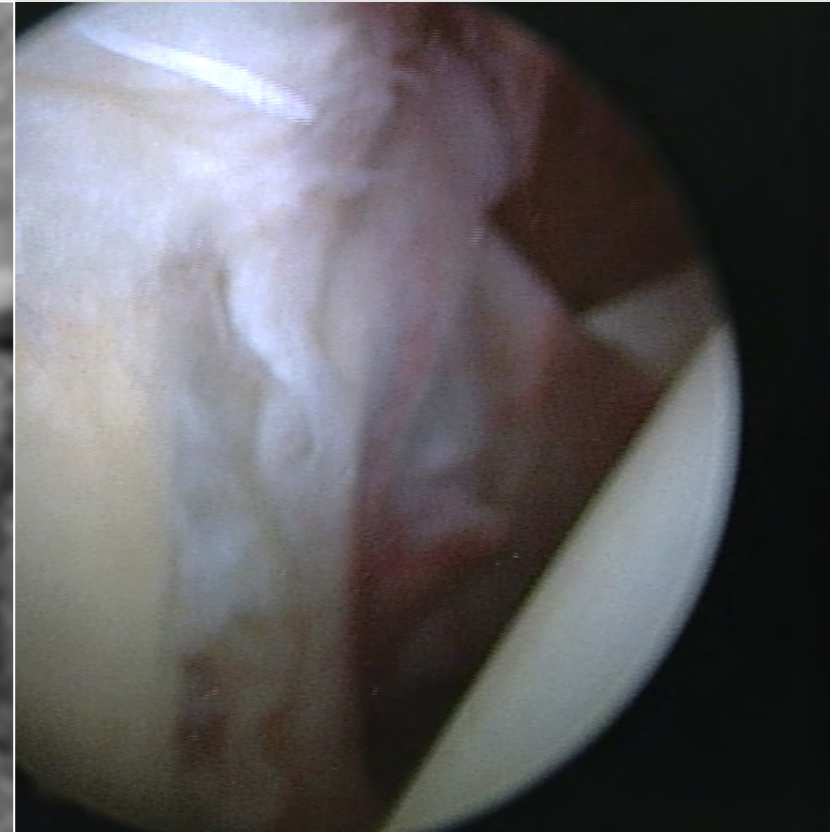
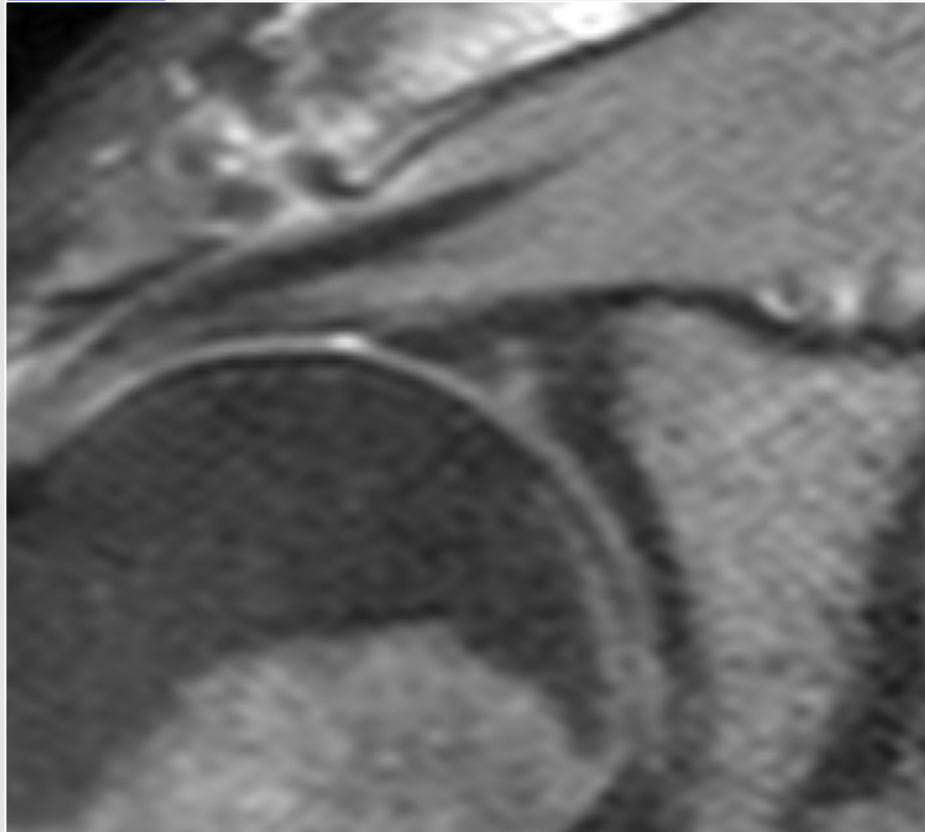


15. Ärztefortbildung

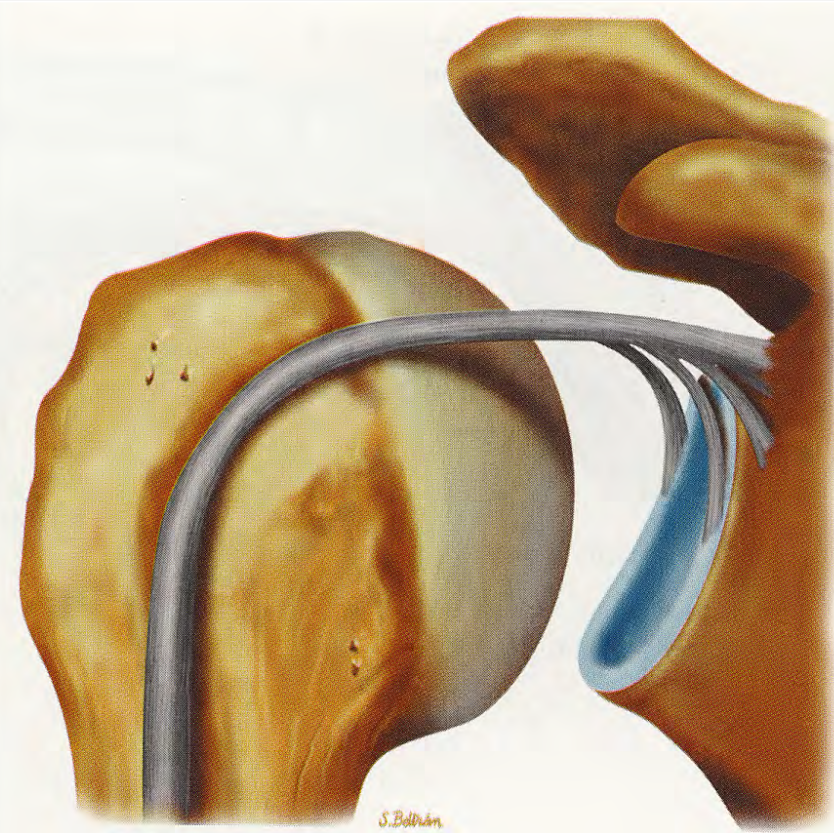
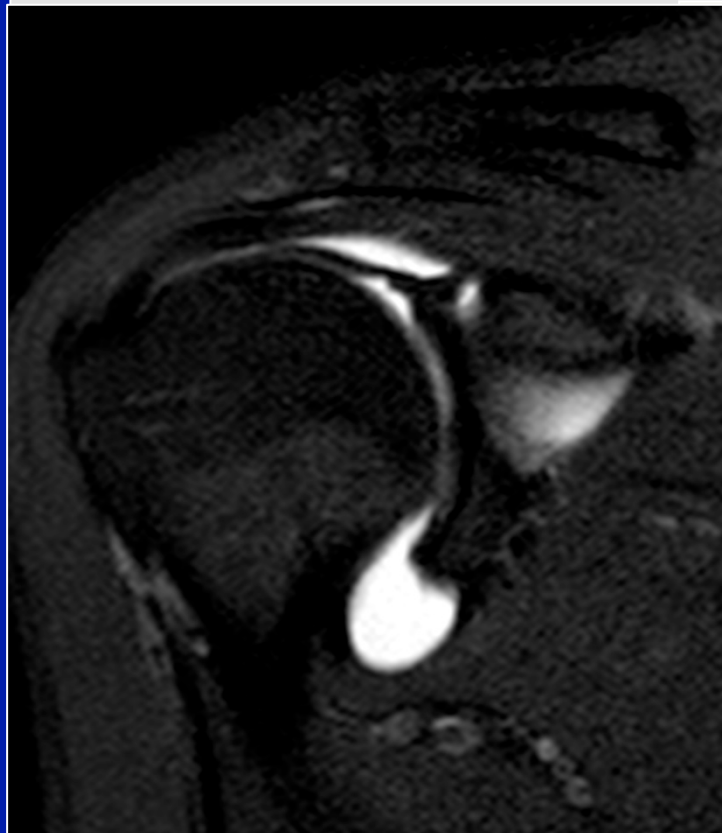
PRAXIS im KÖLN TRIANGLE

6. November 2013

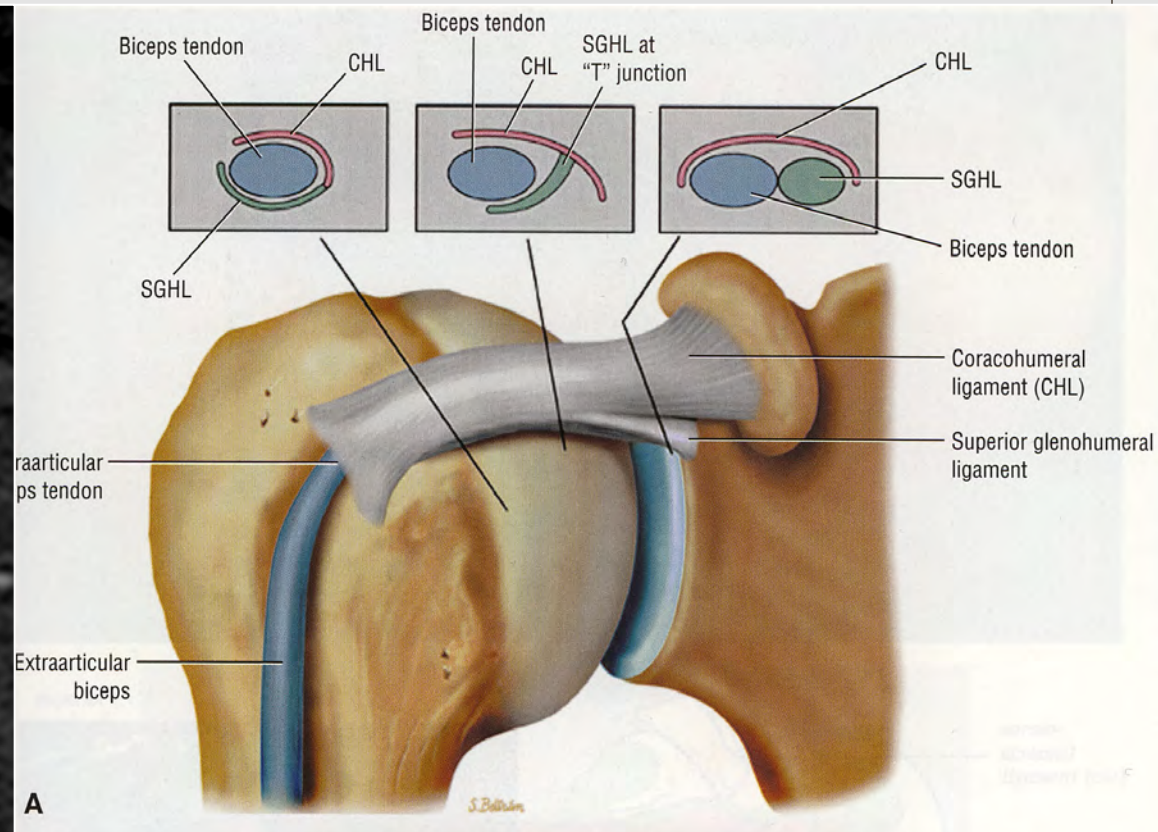
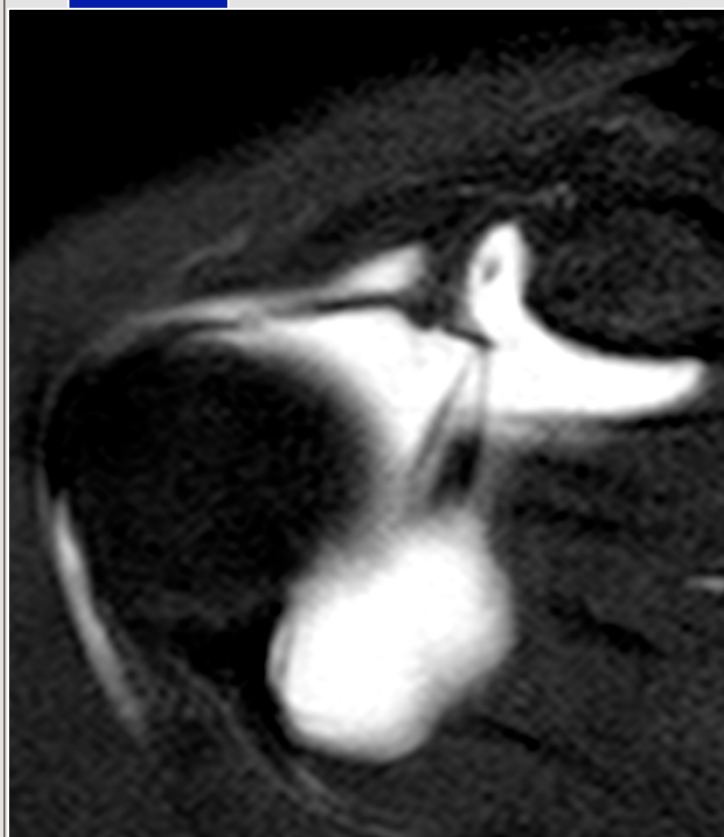
B., T., 30j, m.: SLAP I



MR-Anatomie: Bizepssehnenankerkomplex



MR-Anatomie: SGHL

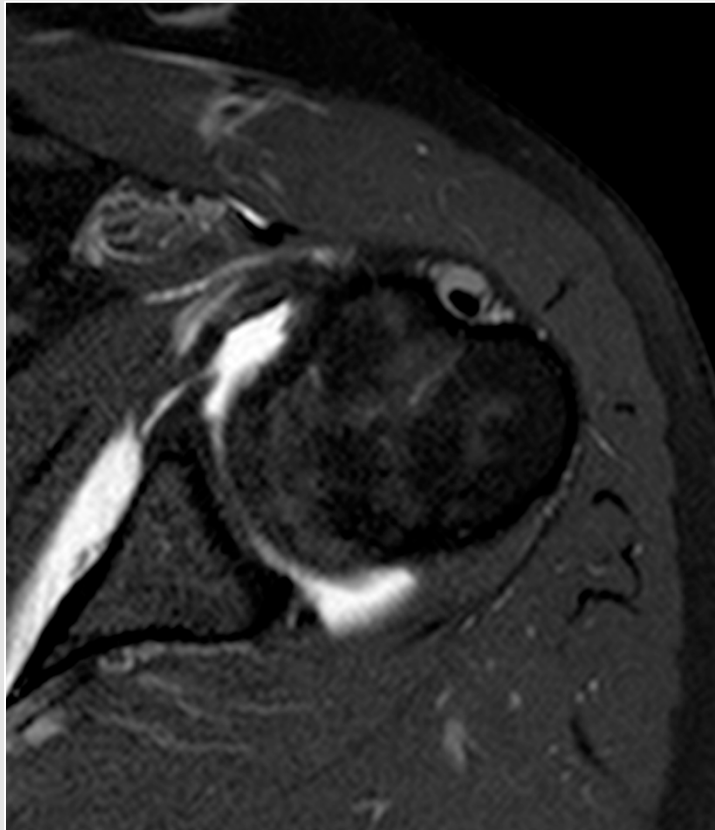


15. Ärztefortbildung

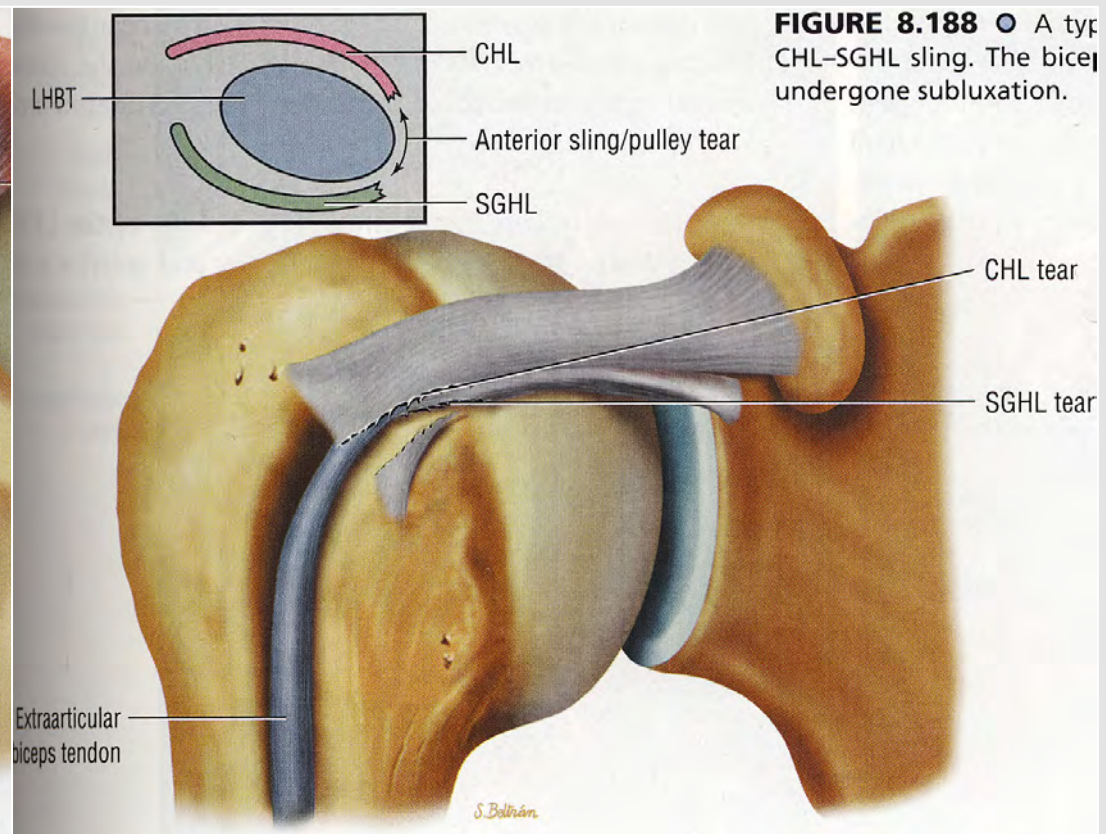
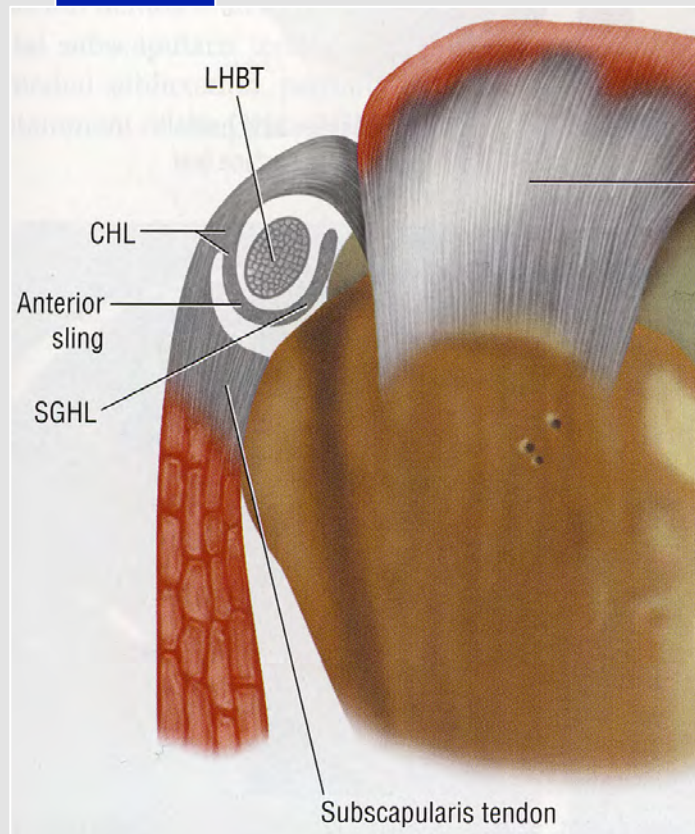
PRAXIS im KÖLN TRIANGLE

6. November 2013

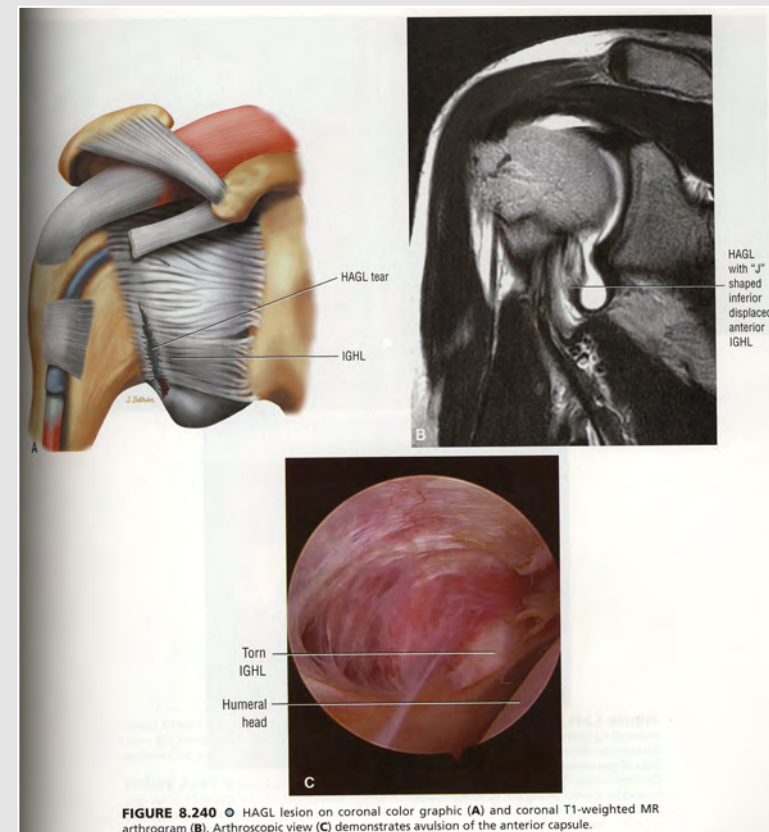
MR-Anatomie: Lig. glenohumerale superius



Lig. glenohumerale superius



HAGL

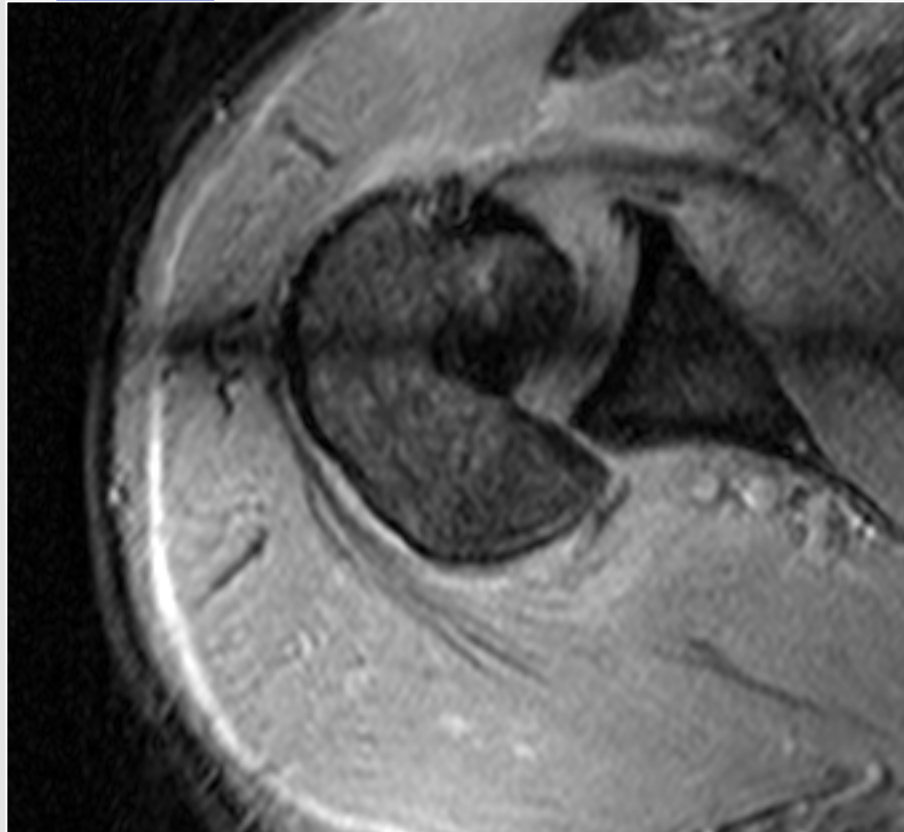


15. Ärztefortbildung

PRAXIS im KÖLN TRIANGLE

6. November 2013

Schulterluxation



Herzlichen Dank für die Aufmerksamkeit!



Subacromiales Impingement - Kaskade

- Subacromiale Enge / Akromionfehlform
- Insertionstendopathie
- Bursitis subacromialis/subdeltoidea
- Tendinosis calcarea
- Partialruptur gelenk- oder bursaseitig
- Komplettruptur
- Komplettruptur mit Retraktion und Humeruskopfglatze
- Humeruskopfhochstand & subacr. Schliffsklerose