Secret shoulder secrets Dominik Meyer 2014





Head of the prostheses better too big or too small?

In case of stiffness: smaller (loosening of capsule)

In case of hyperlaxity / instability or strong correction of a glenoid retro/anteversion: bigger (stuffing)

In case of doubt: smaller







12. Sept.

Combination head / glenoid:

good: small head / big glenoid bad: big head / small glenoid

because of loosening of the glenoid







Retrotorsion of the head (i.e. torsion of humerus)?

normal:

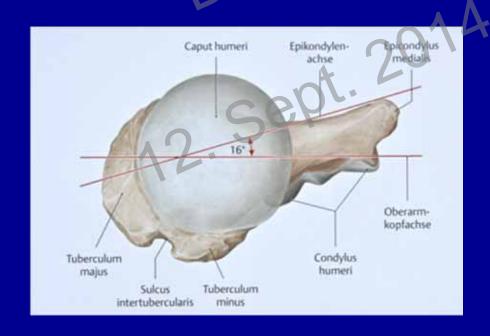
18-25 °, 45-74 ° (average approx 60 °)

Anatomical Prosthesis:

20°

Inverse Prosthesis

approx. 0°







Orientation of inverse prosthesis:

If antetorsion: difficult to reduce,

posterior impingement

If retrotorsion: risk of dislocation

Position of dislocation: Internal rotation, adduction or abduction









Flexion movement:





If glenoid in anteversion: antetorsion of the shaft

If glenoid in retroversion: retrotorsion of the shaft







Shaft too long, cannot reduce inverse prosthesis:

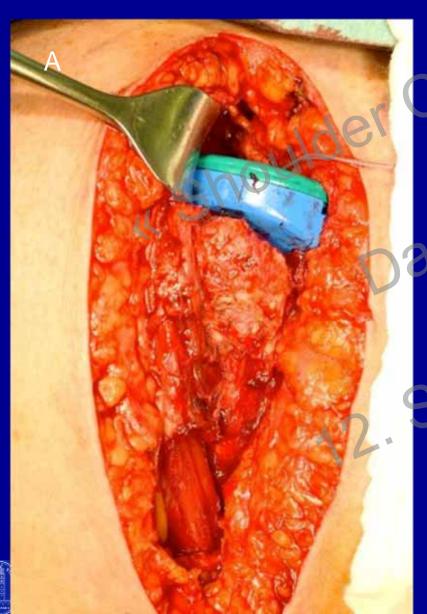
- 1. Use smallest inlay possible
- 2. Relax patient
- 3. you may consider metaphyseal component with no offset or correct for torsion (if stable)
- 4. If still in trouble:

Consider distraction clamp (from rotator cuff repair or arthrodesis distractor).

Danger of later acromion fracture (!)



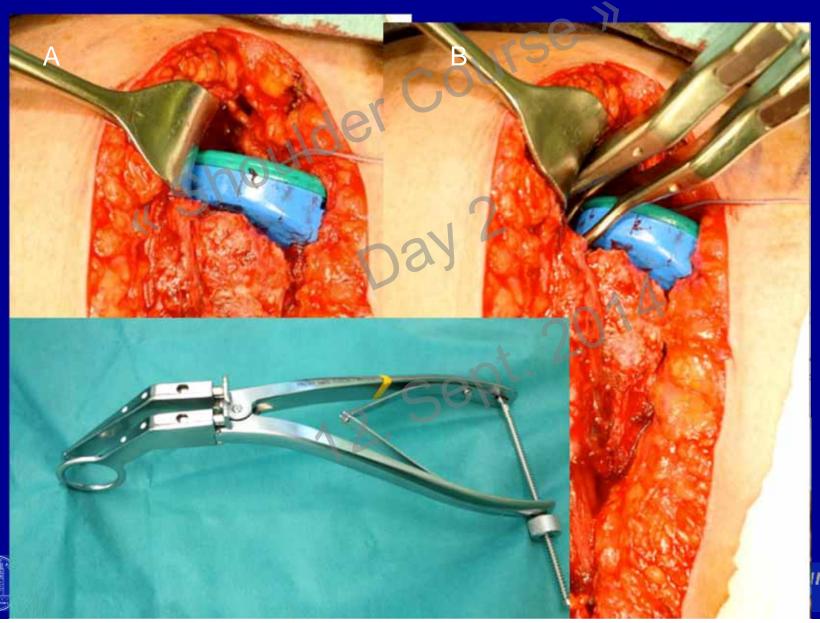




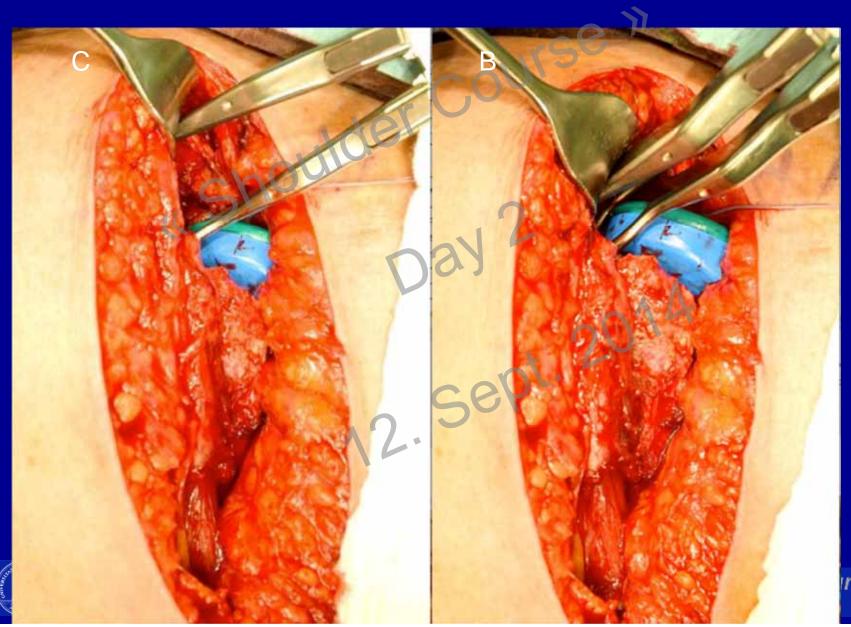
Course

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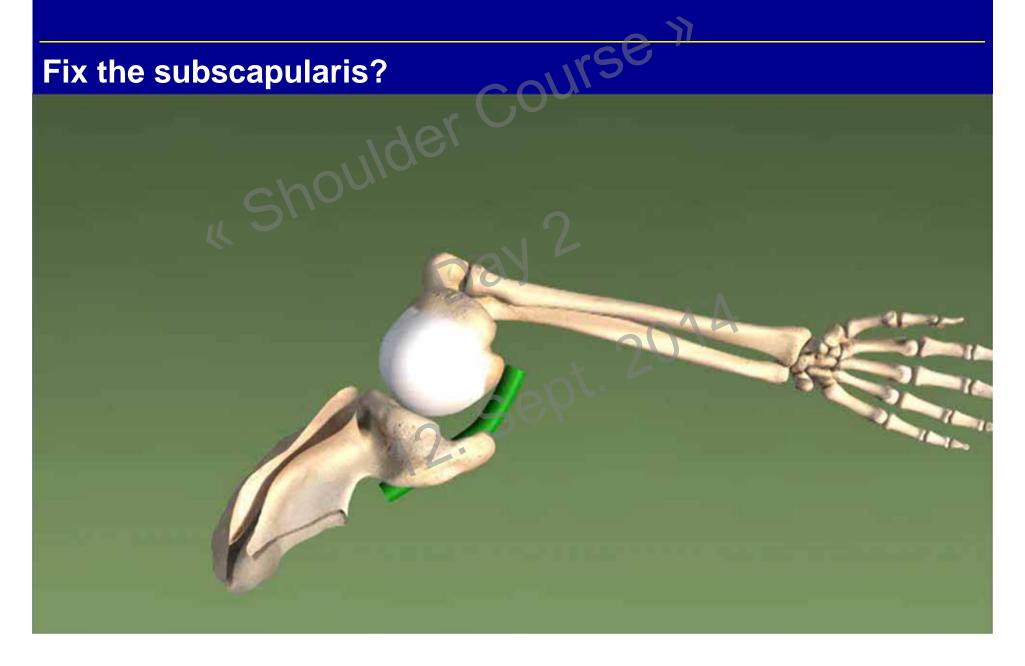


Course

Sept. 2014

...and how to take it out?



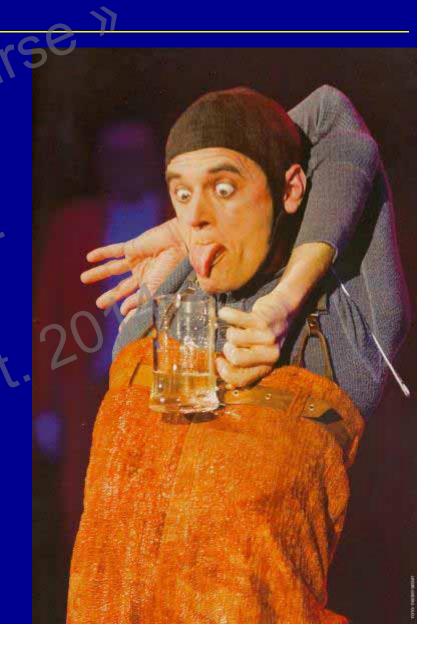


INSTABILITY

If there is an unstable hyperlax patient:

Do not correct laxity, only the defect causing instability

Otherwise, you may create osteoarthritis





INSTABILITY

Stabilization: open versus arthroscopic bony versus soft tissue

-> repair the pathology
In case of doubt: bony more reliable than soft tissue





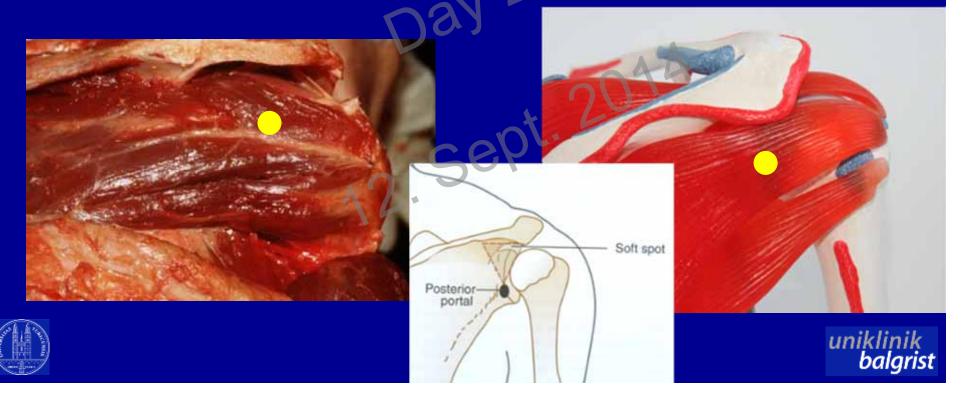
Portals:

posterior:

"soft spot" 2cm medial, 2cm inferior:

Can be easier in IR, more medial, better piercing of muscle.

look for the acromion and feel the head



2cm medial, 2cm inferior of acromion



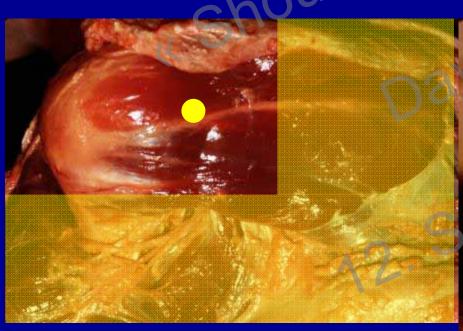
more lateral:

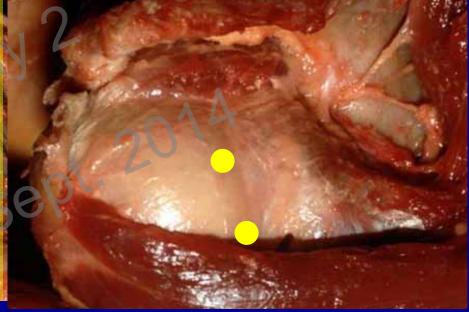
problems with posterior cuff, problem to pierce the cuff, less mobility **but**: better for subacromial, easier to find the bursa





Where is it safe to place the posterior portal?

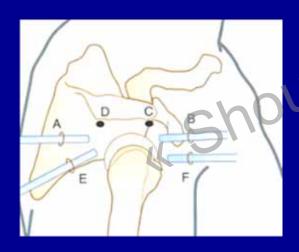






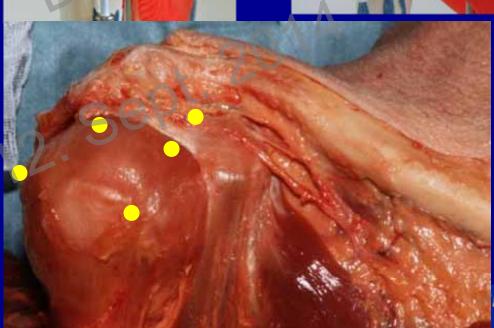


Portals anterior and lateral:





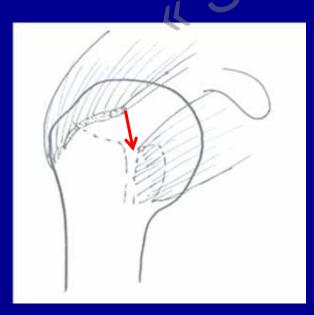


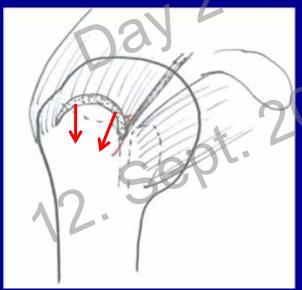


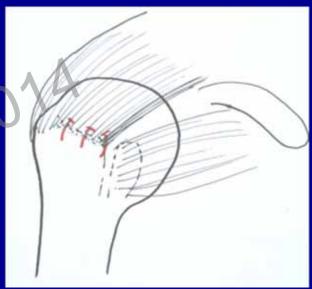


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Assure that the anterior edge can be brought back to the subscapularis



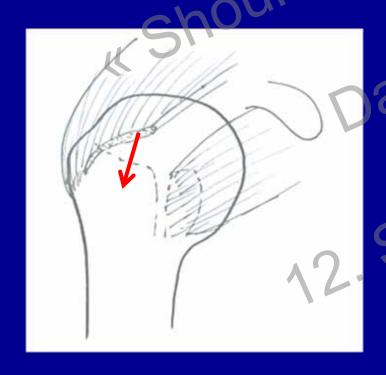


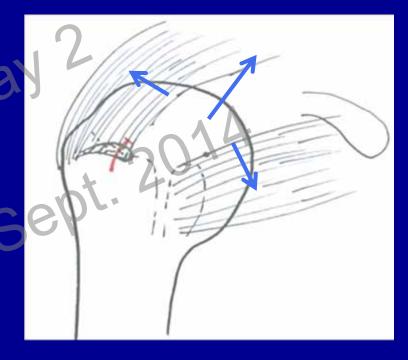






If closing the interval is not possible, partial repair may be an option, but there is a risk that the head pushes through the buttonhole









If you cannot bring the cuff to the footprint after extensive release:

- 1. consider debridement particularly if there was good function
- 2. consider partial repair try to bring the posterior to the anterior edge 3. consider augmentation of the cuff difficult, expensive
- 4. consider medialization of the cuff has maximal 1.5cm





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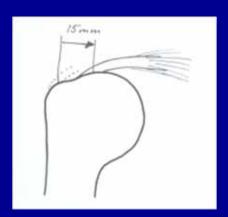




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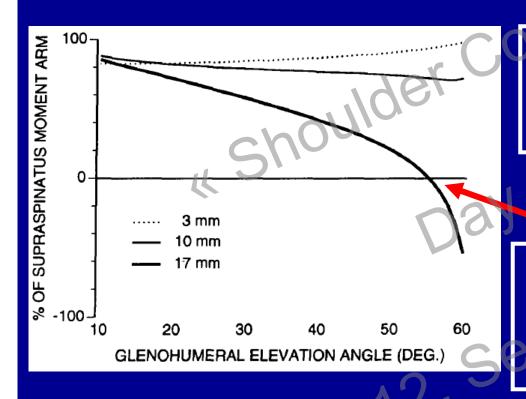








SSP MEDIALIZATION – MOMENT ARM



No significant changes with 3 and 10 mm medialization

17mm medialization:

Moment arm: 0 mm at 57 ° (tendon restricts elevation)

Liu J, JBJS 80-A: 853, 1998





Pseudoparalysis is treated with rotator cuff repair

but

eation for ????
Sept. 2014 Pseudoparalysis is a contraindication for rotator cuff repair





1. Painful pseudoparalysis?

If yes, inject with 10cc Lidocain and see. Exclude stiffness.

2. When painfree:

Bad for cuff repair:

Dynamic anterosuperior subluxation

Cranialization <7mm

Patient cannot hold the arm at 90° abduction.

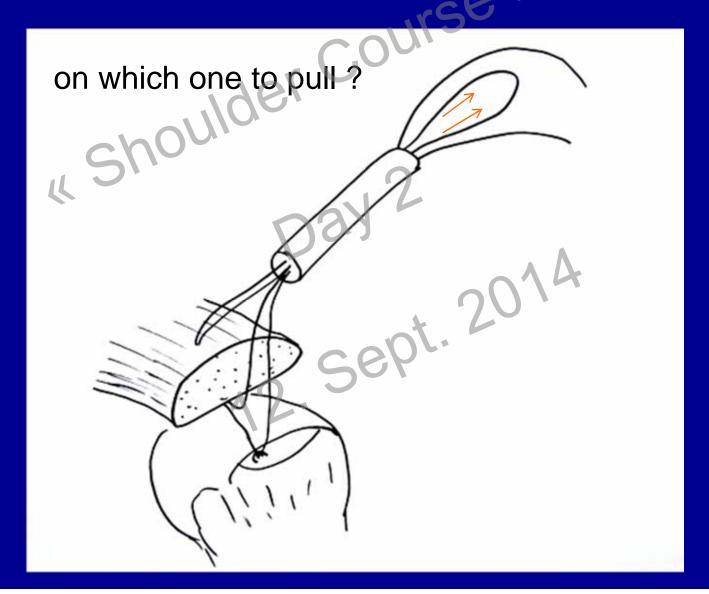
Chronic situation

Good for cuff repair:

Patient can hold the arm in 90 ° abduction (moderate)

Patient can bring the arm to 90 ° abduction **Acute injury**, previous good function

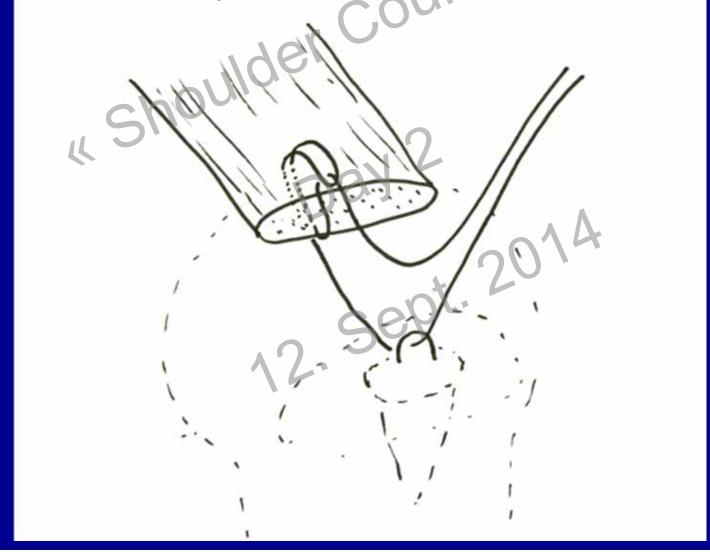








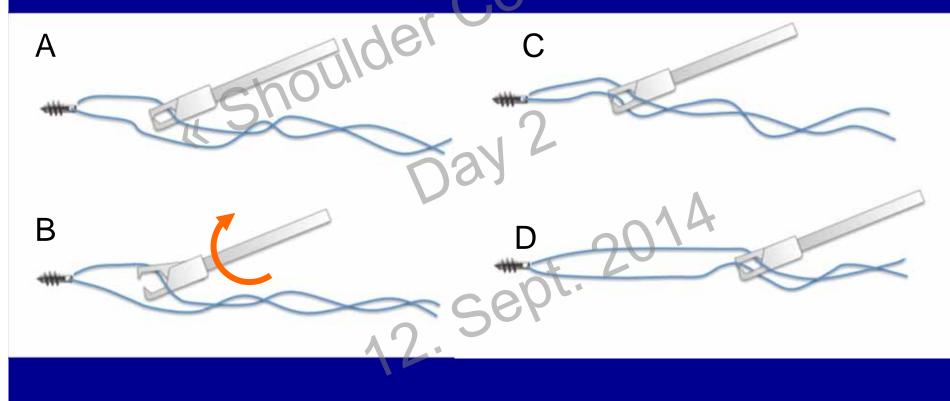
which one as post? mobile vs non-mobile suture







untangling of sutures:







untangling of sutures:

