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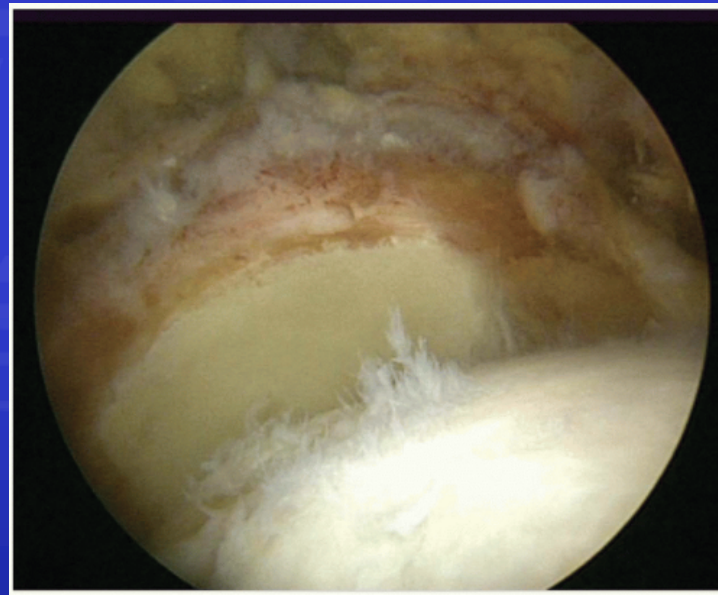


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The Management of Difficult Rotator Cuff Tears



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Natural History of Rotator Cuff Tears

- » Tear Progression
- » Tendon Degeneration
- » Fatty Atrophy
- » Fixed Retraction
- » Rotator Cuff Arthropathy



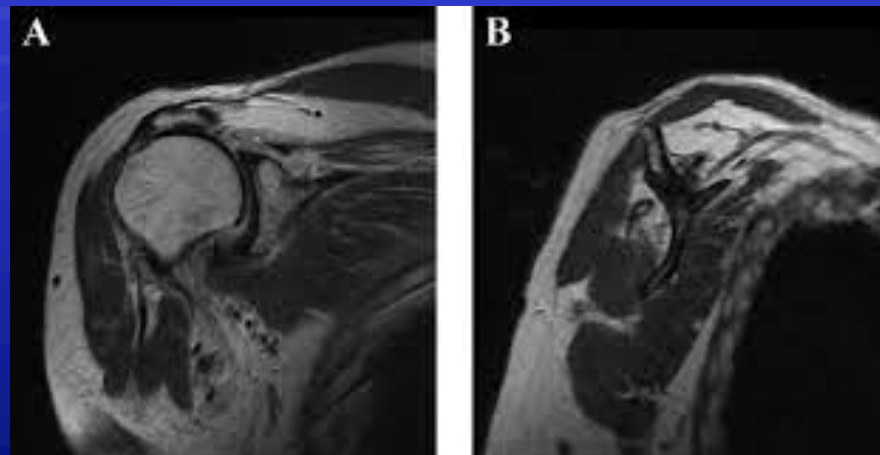
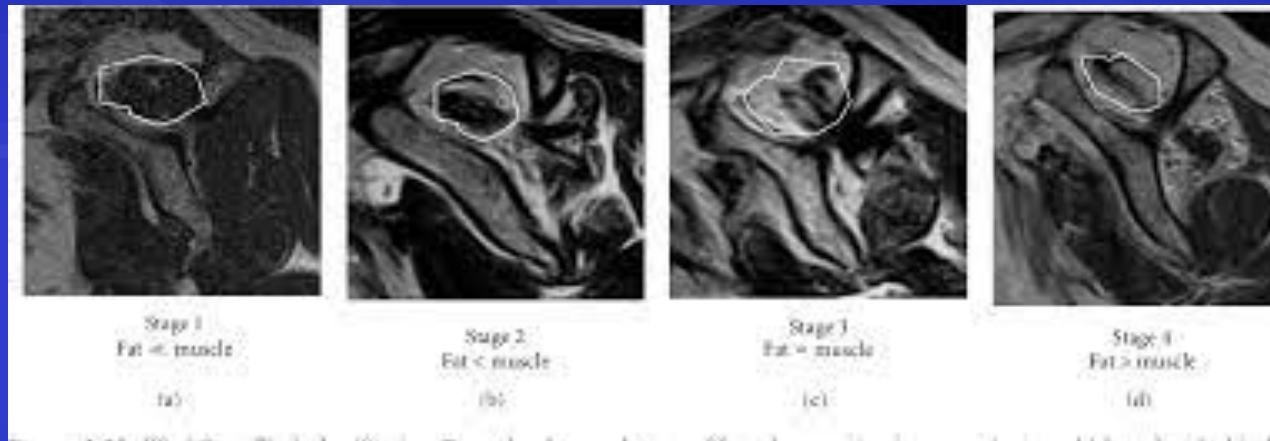
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FATTY ATROPHY

» Goutallier Classification



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Factors Affecting Cuff repairability

- » Time to surgery - Major Factor
- » Size of tear (only in relation to time)
- » Fixed retraction
- » Tendon Quality
- » Fatty Atrophy
- » Adhesive Capsulitis



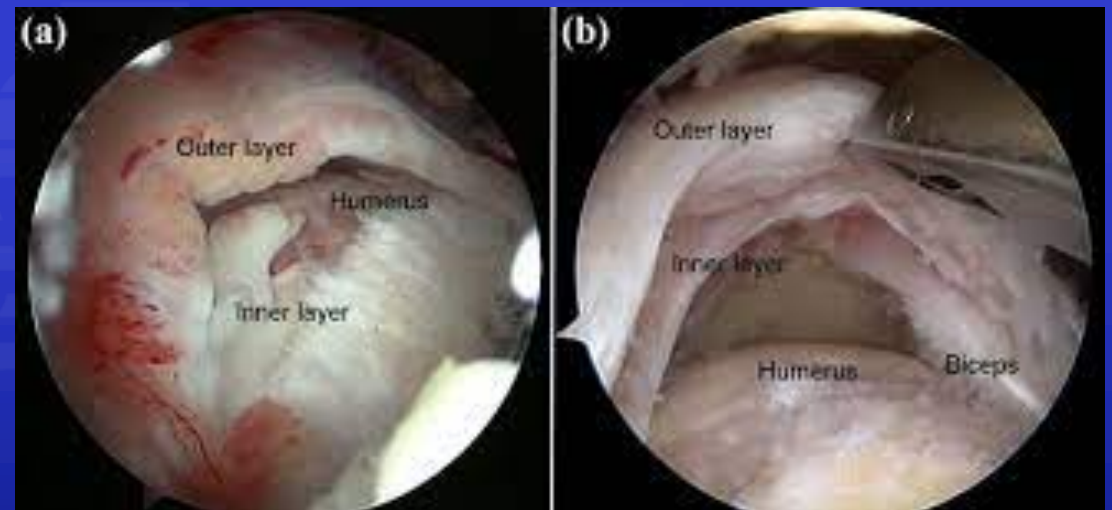
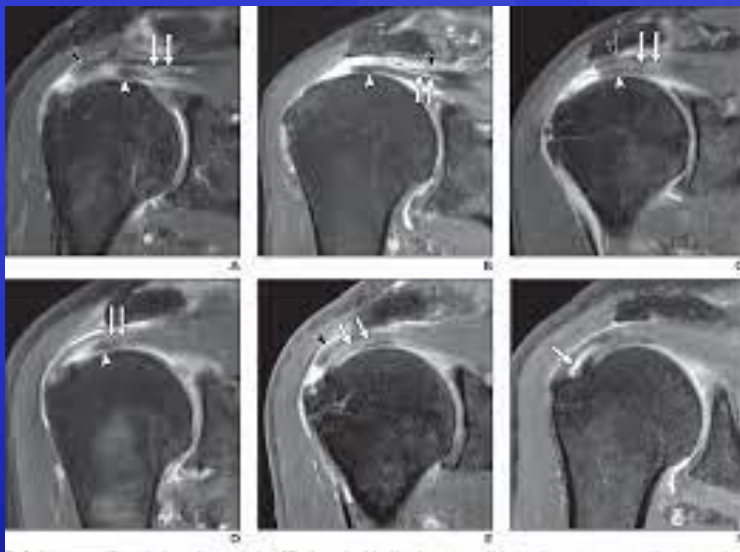
Factors Affecting Healing

- » Age - controversial
- » Time to Surgery
- » Tendon Biological Healing Potential
- » Smoking
- » Corticosteroid Injection
- » General Health - DM, Hyperlipidaemia
- » Surgical Technique - Avoid Tension of Repair



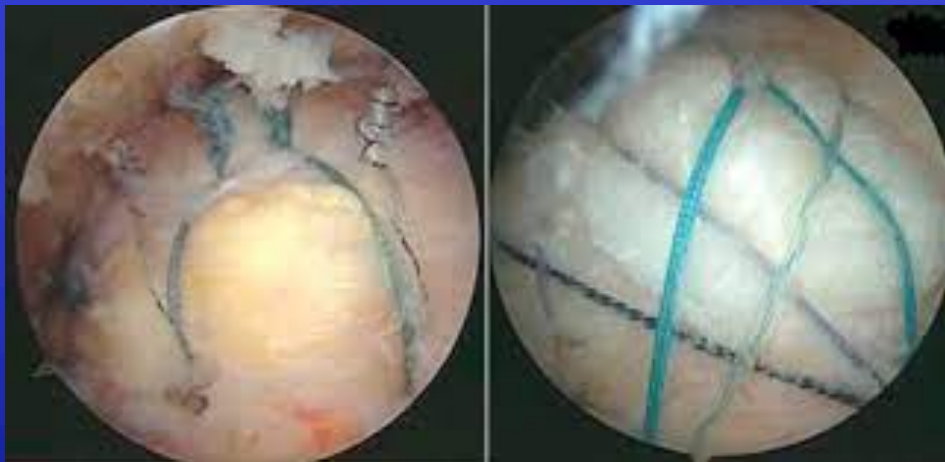
Surgical Technique

» Tear Pattern Identification and Anatomic Repair



Surgical Technique

- » Single vs Double Row
- » Long Head of Biceps



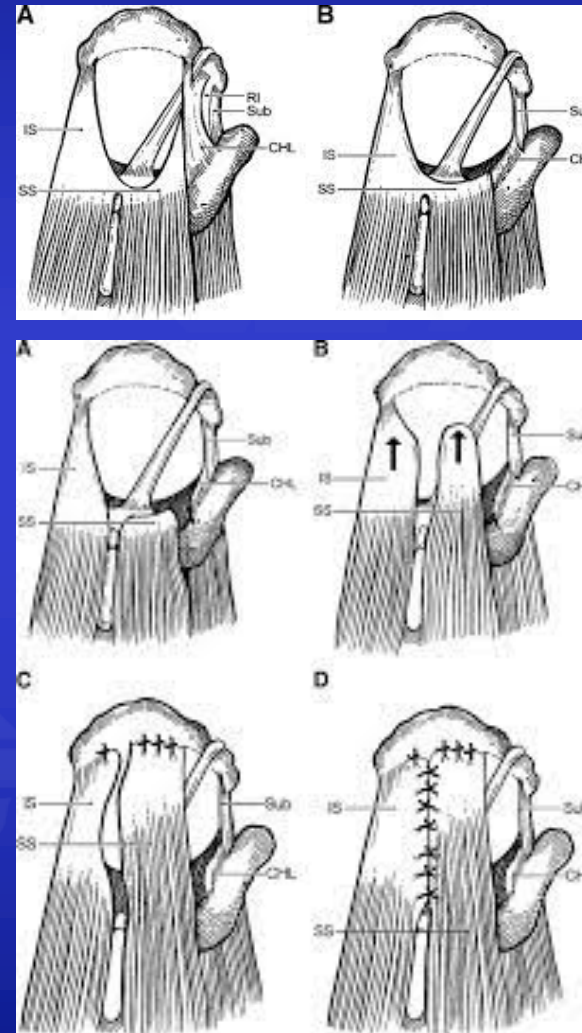
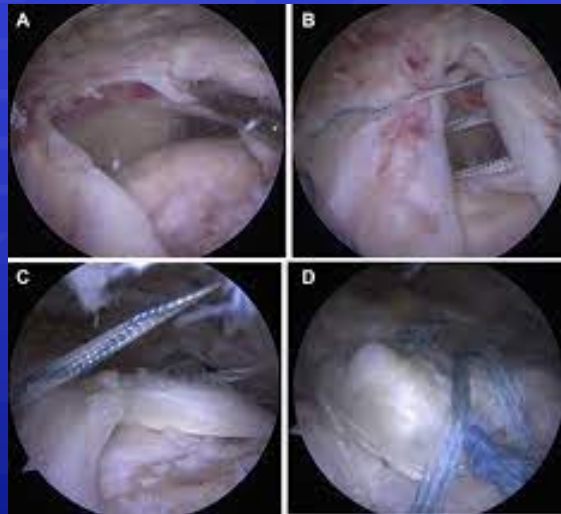
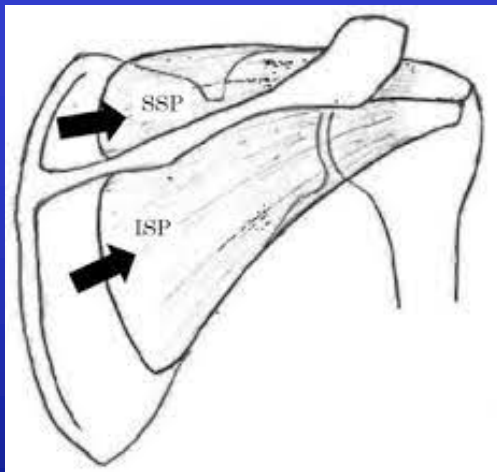
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Surgical Technique

- » Interval Slides
- » Muscle Advancement
- » Marginal Convergence



Risk Factors For Repair Failure

- » All the Above
- » Compliance - Patient
- » - Therapist



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Failure Rates

- » Failure Rates 5 % - >50% depending on the above
- » Massive retracted cuff tears requiring interval slides and revision rotator cuff repairs can be as high as 50%



Improving Outcomes

- » Supplementation with Human Allograft either as a Patch to reinforce a repair or as Superior Capsular Reconstruction increases success rates to around 75%



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Allograft Patch

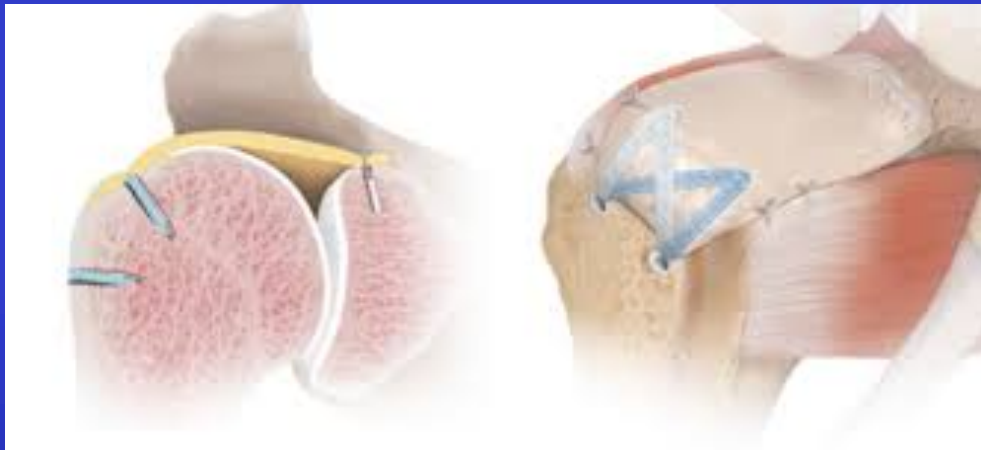


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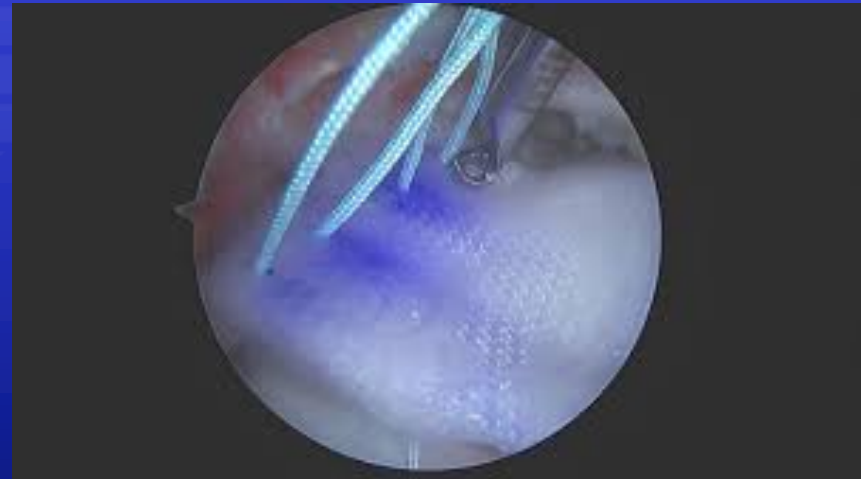
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Superior Capsular Reconstruction



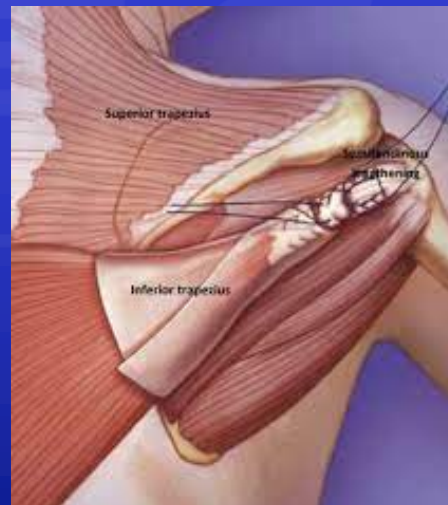
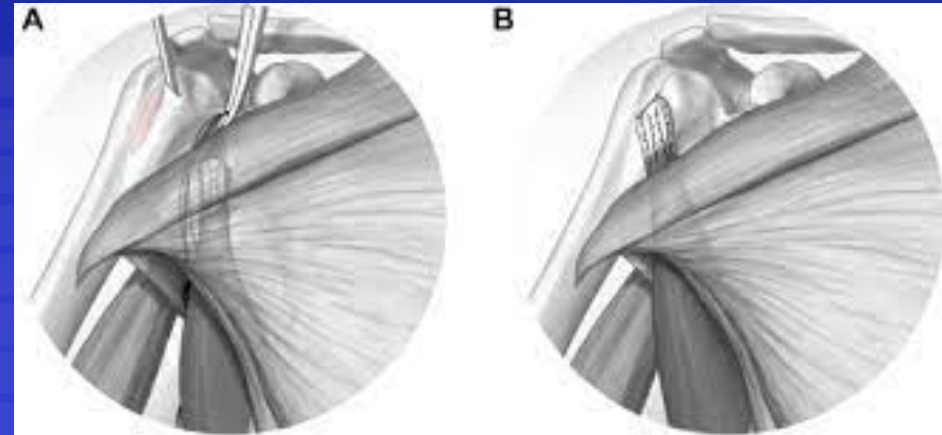
Improving Outcomes

- » Supplementation with biological Agents- PDGF, PRP, Fibrin, Bone Marrow aspirate , Tenocytes
- » Regeneten Patch
- » BioRez - Bio Brace



Tendon Transfer

- » Latissimus Dorsi
- » Lower Trapezius
- » Pectoralis Major



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Reverse Total Shoulder Replacement



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Thank You



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