

Case Presentation Bulk Osteochondral Taekwondo Instructor

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Head

Ochsner Sports Medicine Institute - **OSMI**
Professor University of Queensland

Disclosure Statement

Vericel Consultant

Zimmer Consultant

Musculoskeletal Transplant Foundation (MTF)

Board of Directors

Fellowship Support

Smith and Nephew

Arthrex

Depuy/Synthes - Mitek

History

- 40 y.o. 5th Degree Black Belt
- VAS 7/10
- PAIN / SWELLING RIGHT KNEE
- PRIOR LEFT KNEE ACLR 80'S
- HEIGHT 5' 10"
- **WEIGHT 260 LBS**
- ROM
 - LEFT : 3 – 130 DEGREES
 - RIGHT: 5 -130 DEGREES
- + PATELLA GRIND
- MILD TILT SUBLUXATION

Preoperative PA WB Views

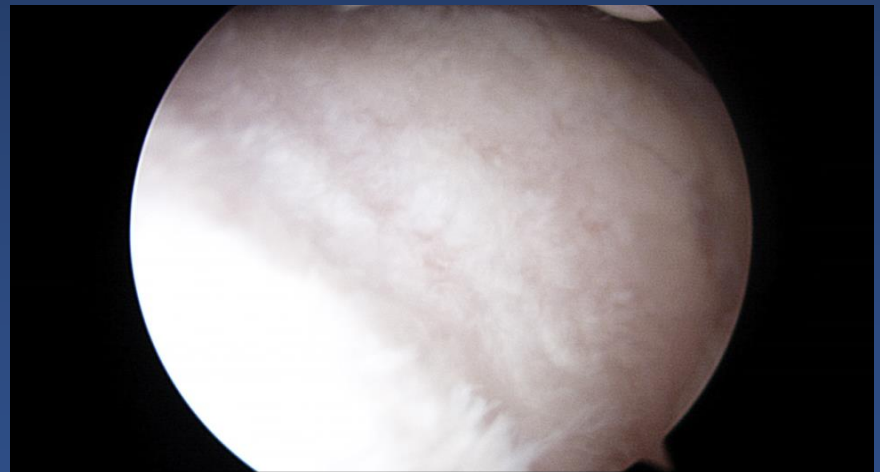
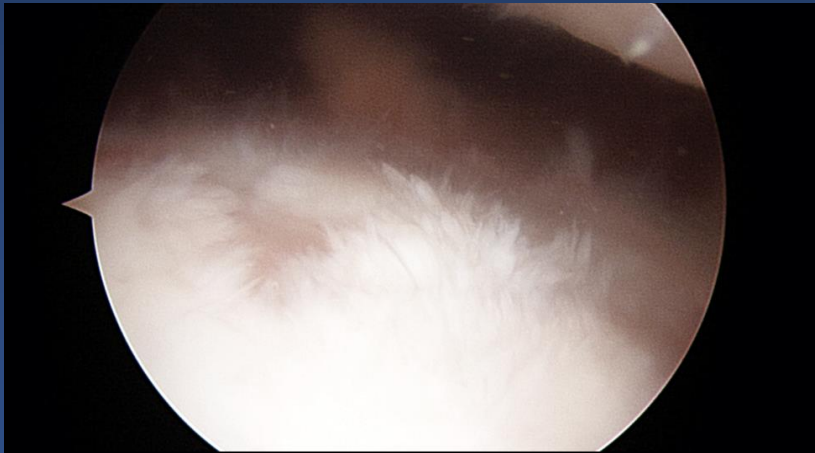
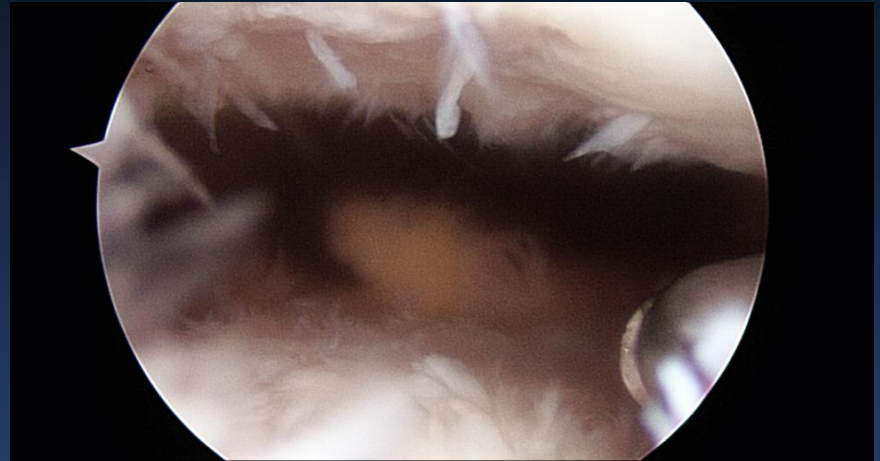
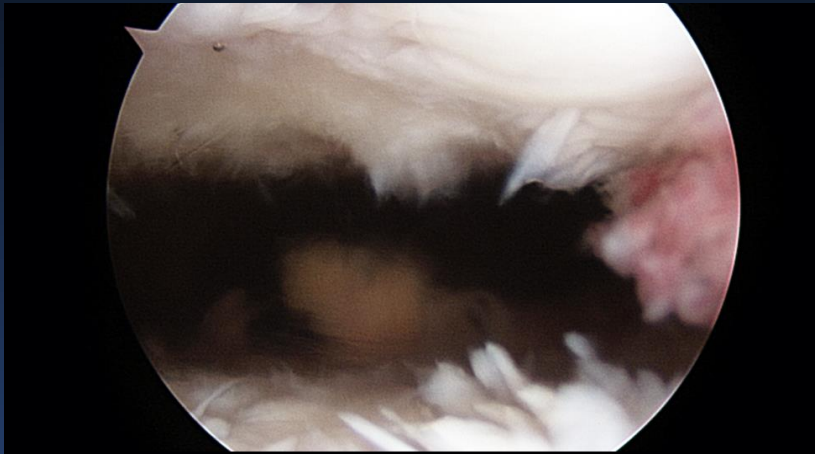
Lateral View



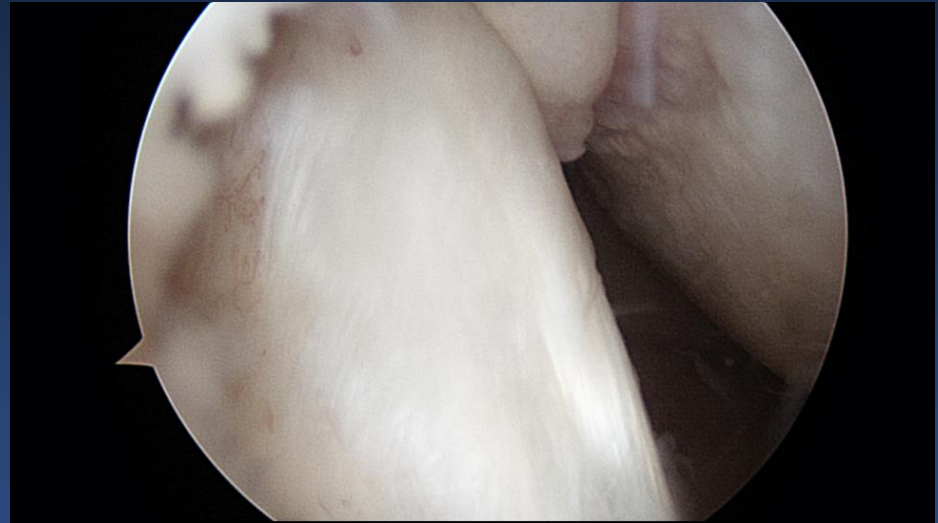
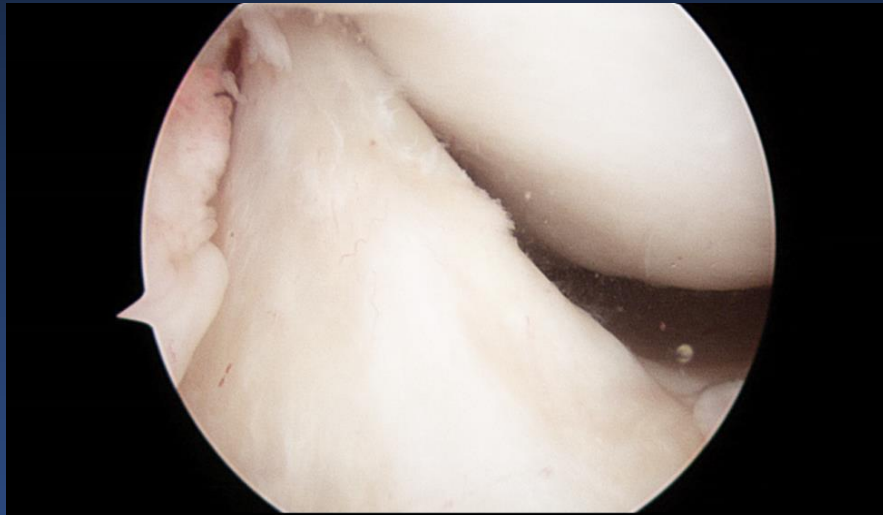
Long Leg Radiographs Preoperative



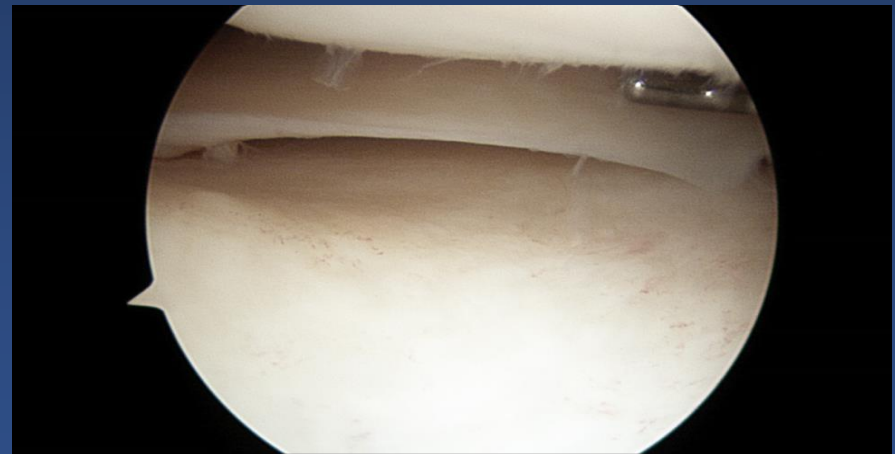
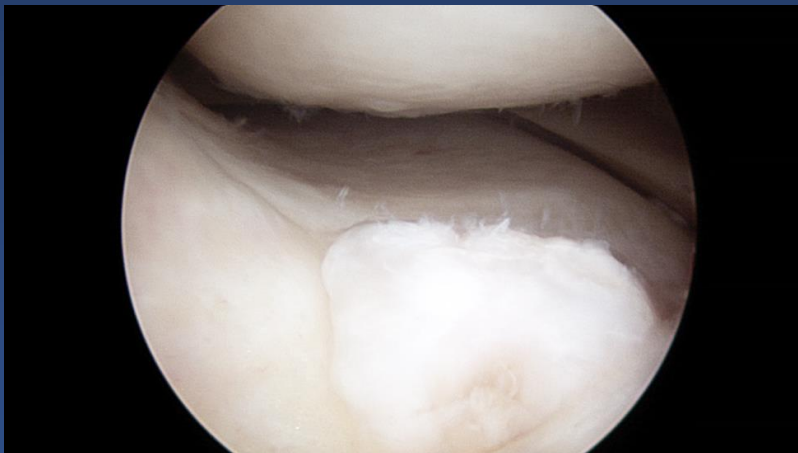
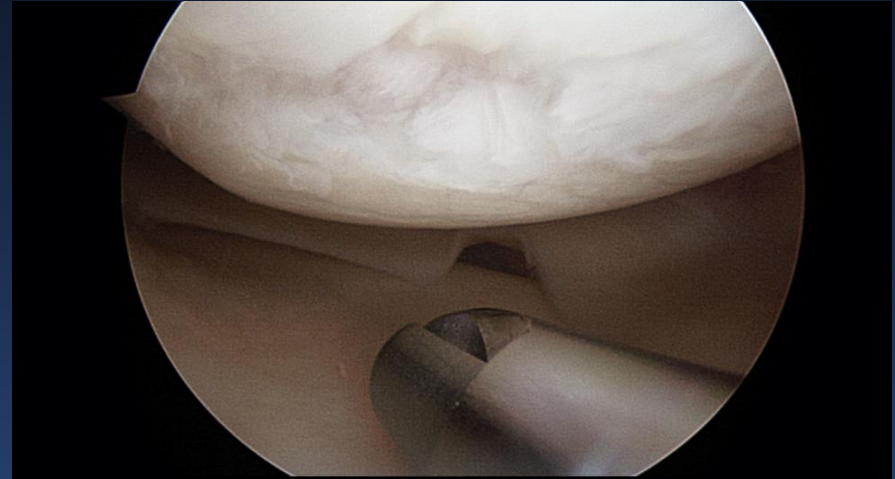
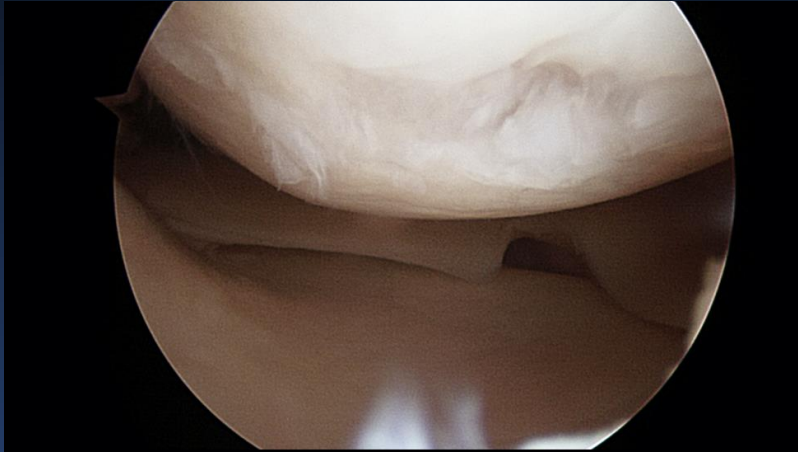
Patellofemoral Joint



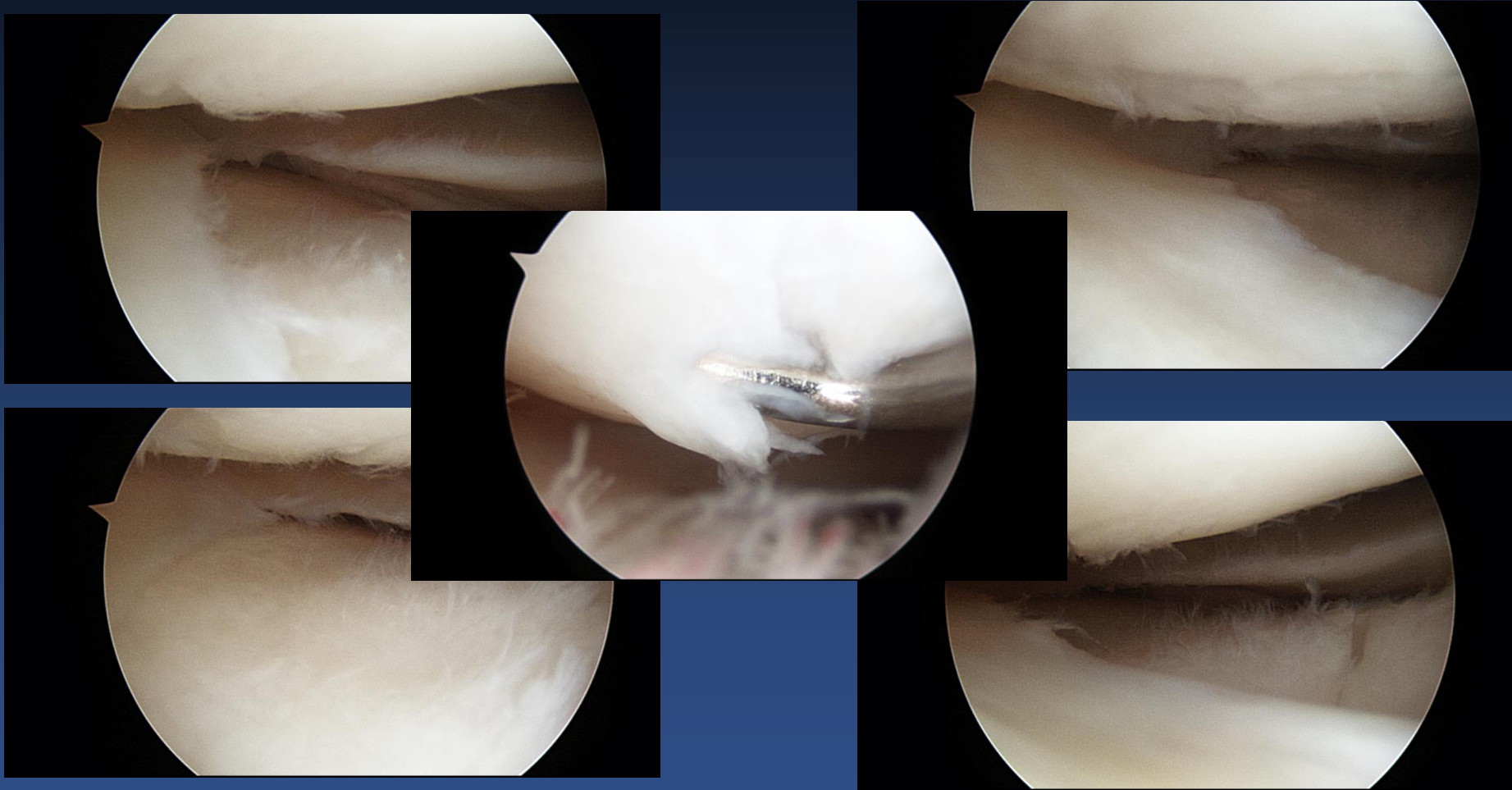
Intact ACL



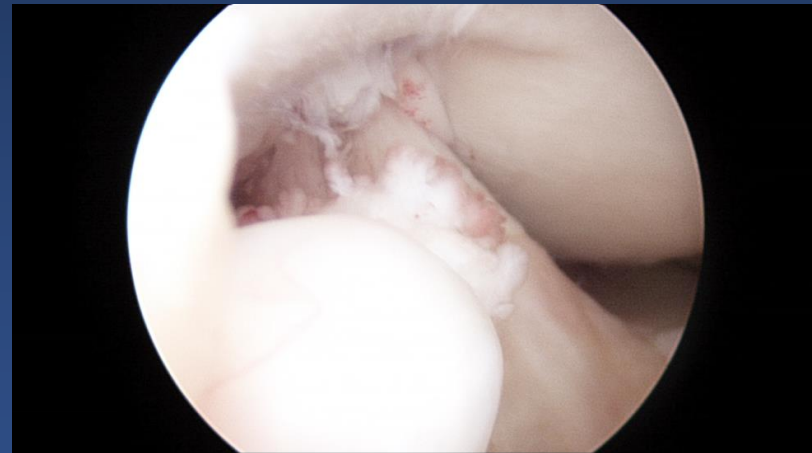
Medial Compartment



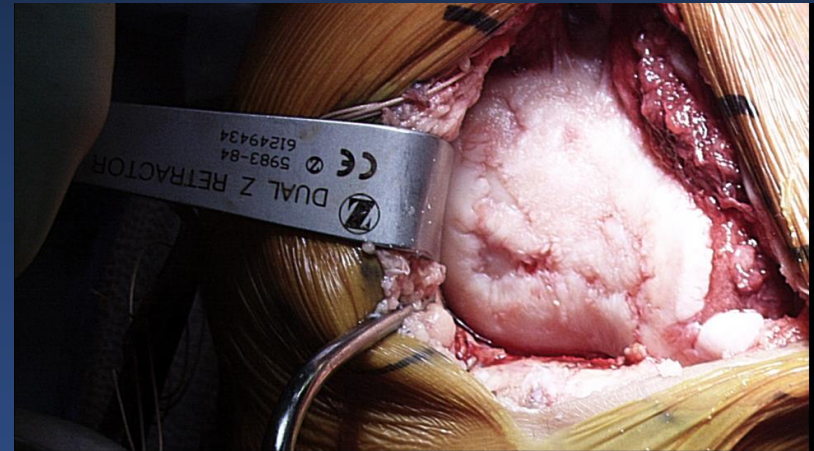
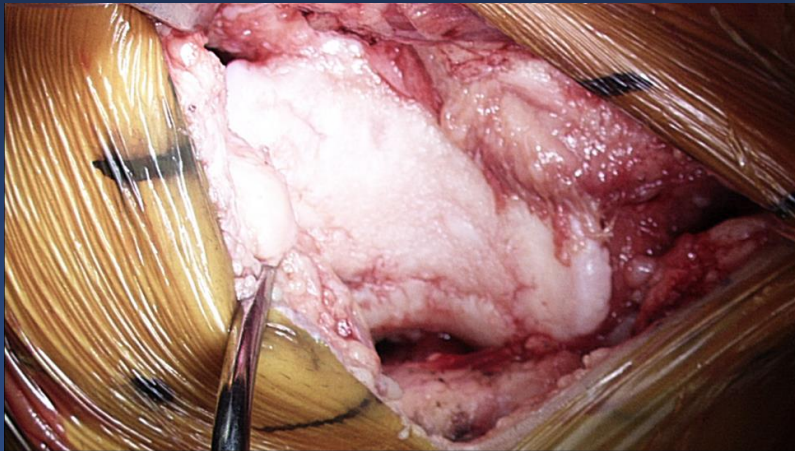
Lateral Compartment



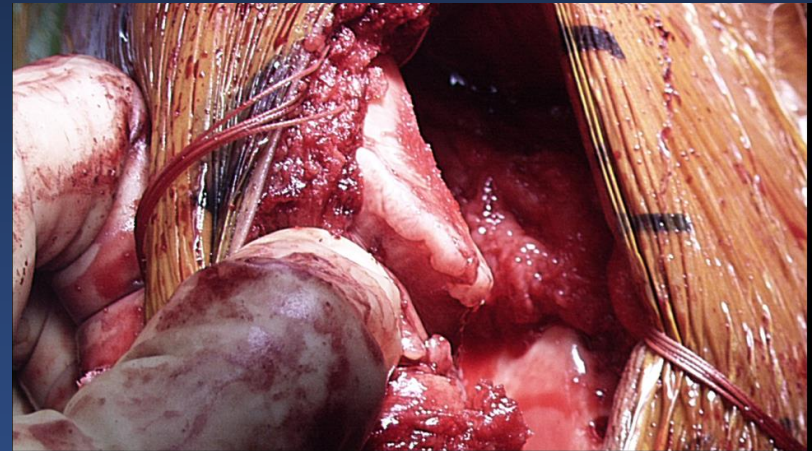
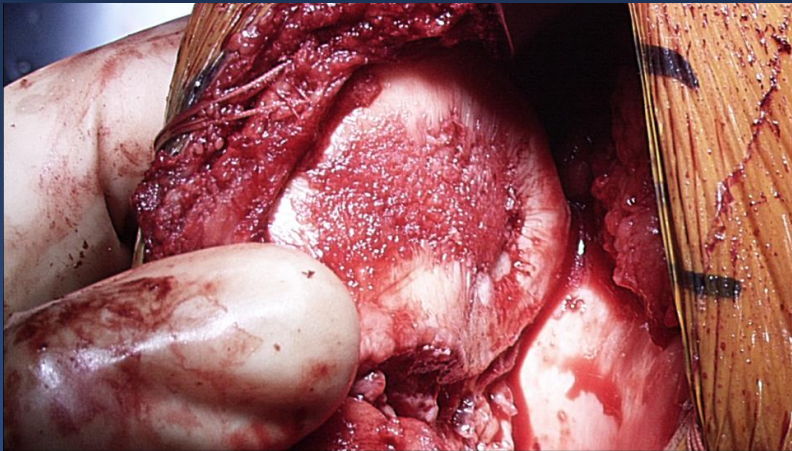
Loose Body Removal



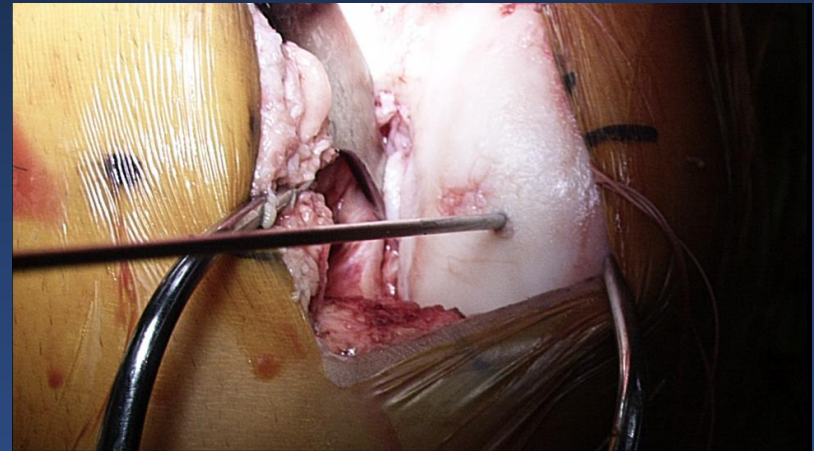
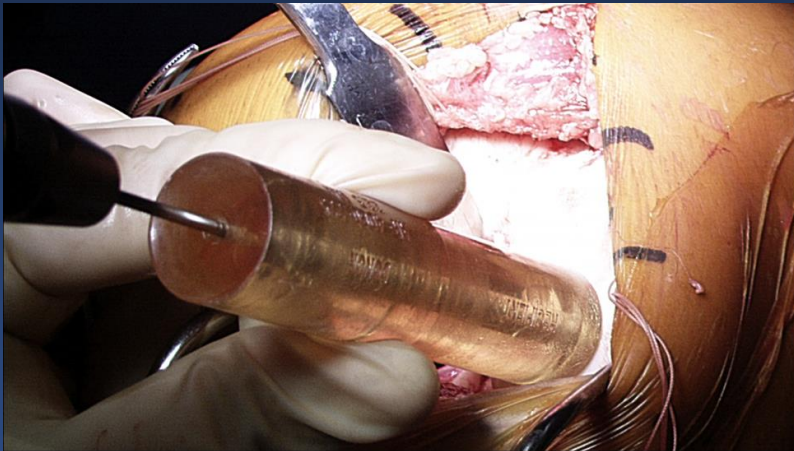
Large Trochlear Grade 4A Lesion



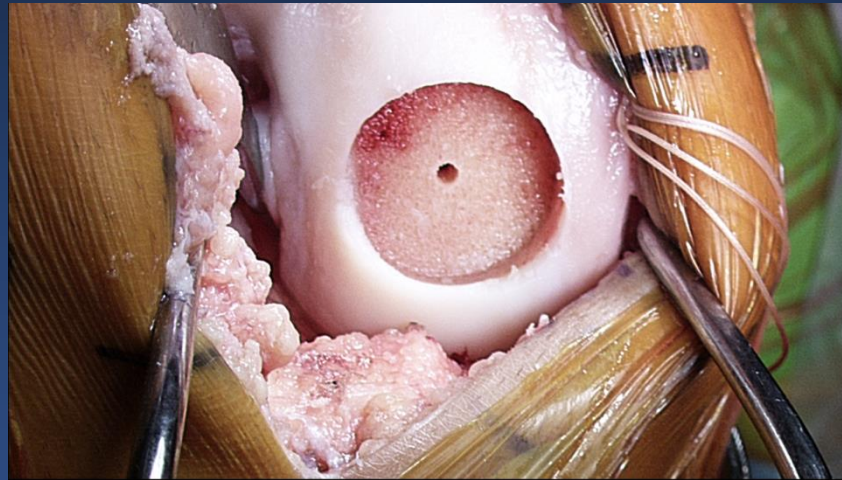
Patellar Grade 2 Lesion



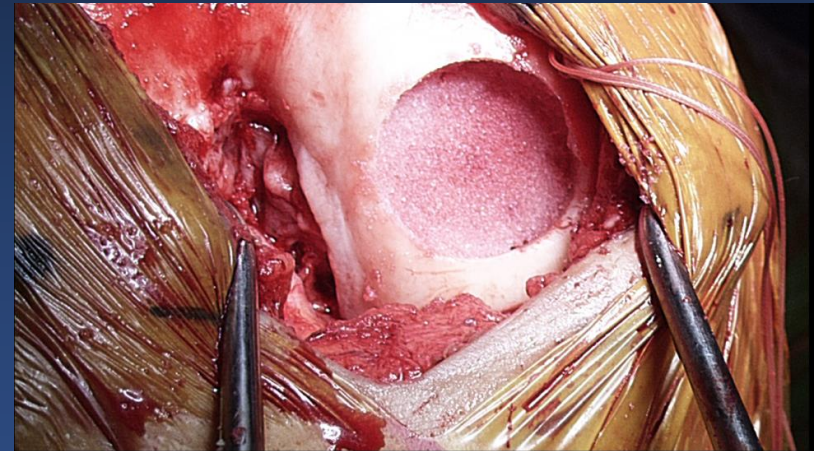
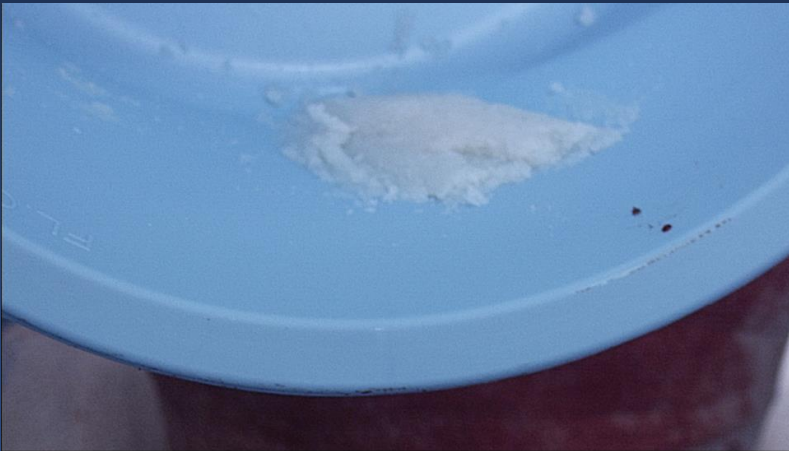
Medial 22.5 mm Lesion



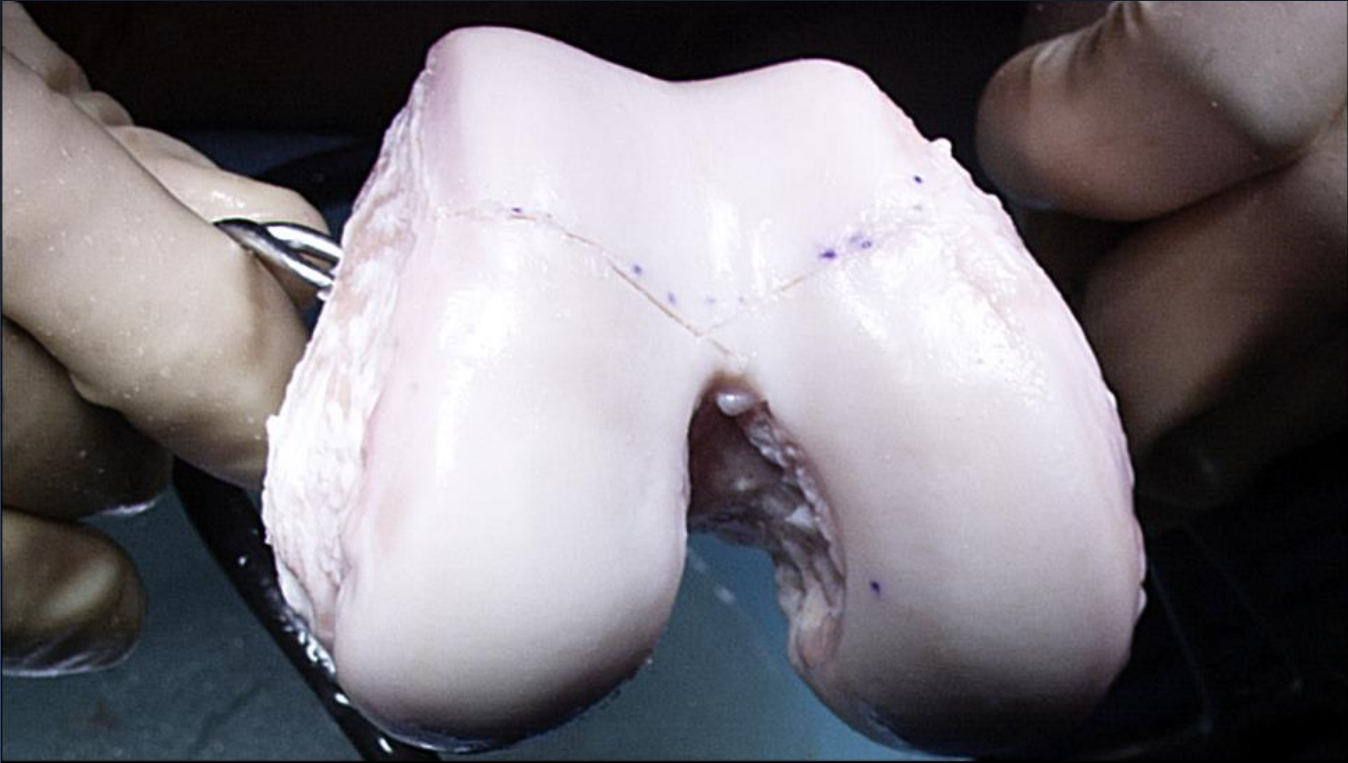
Site Preparation 22.5 mm Dowel



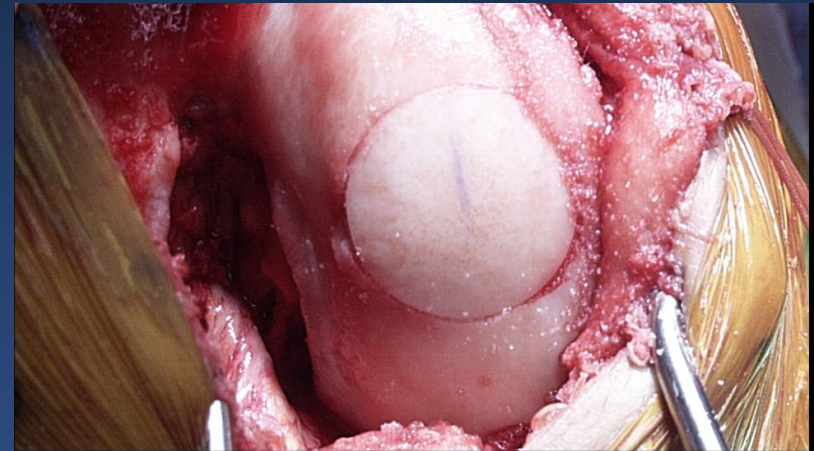
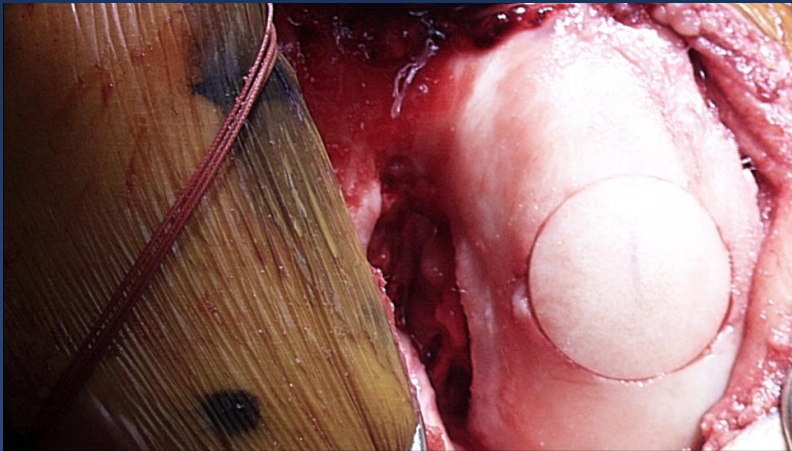
OP-1 placed at Base defect



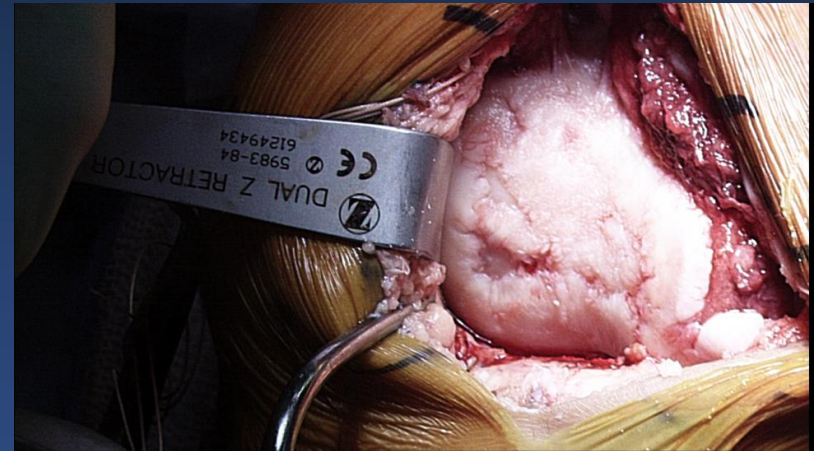
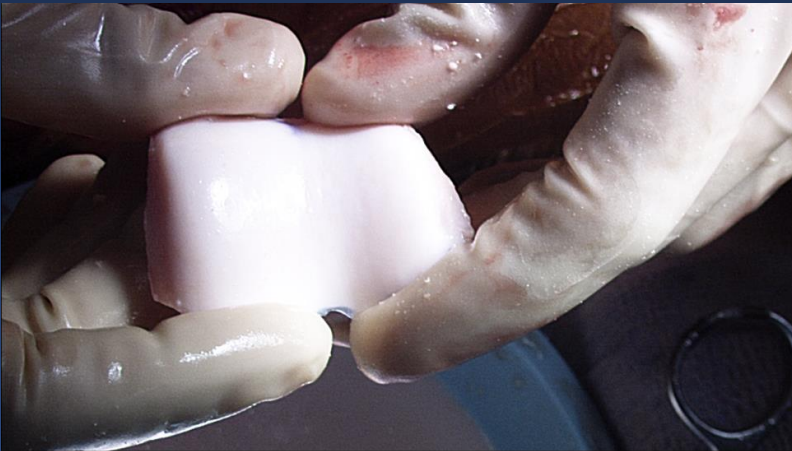
Osteochondral Allograft Whole Fresh Femur



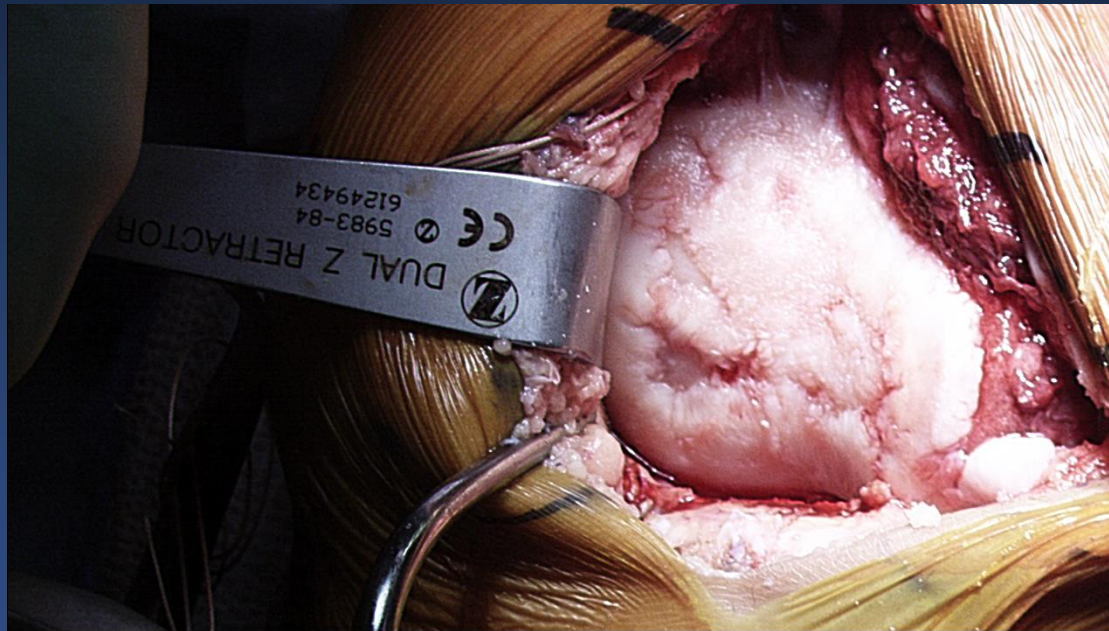
22.5 mm Dowel Graft



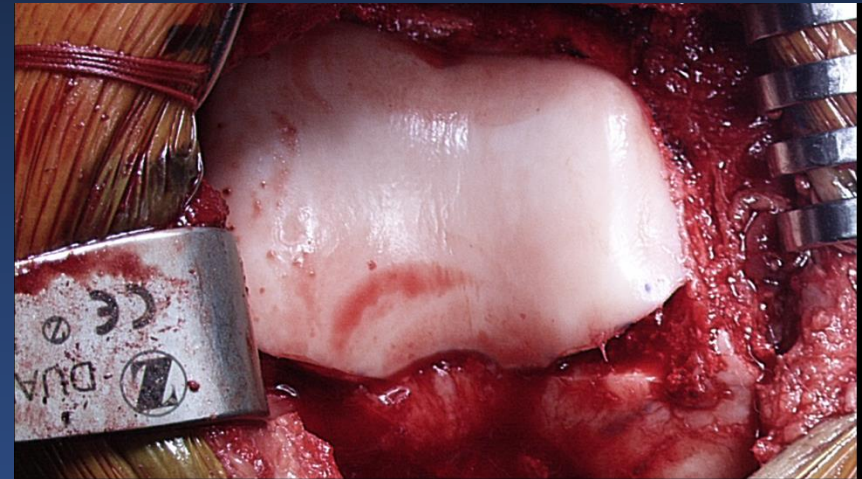
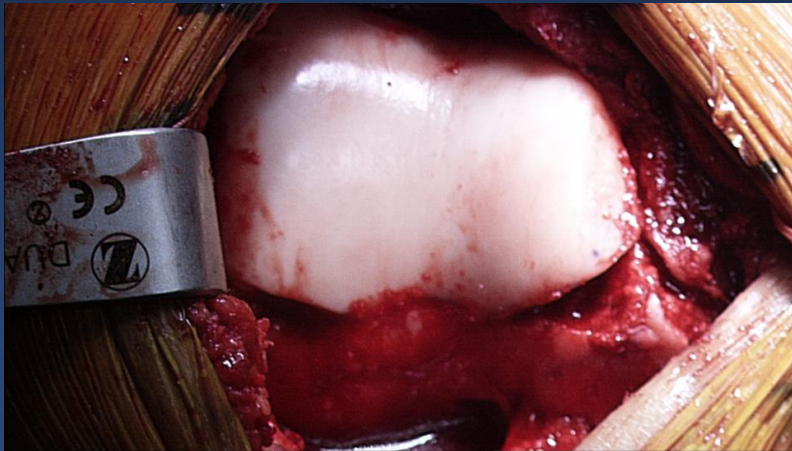
Trochlear Bulk Allograft



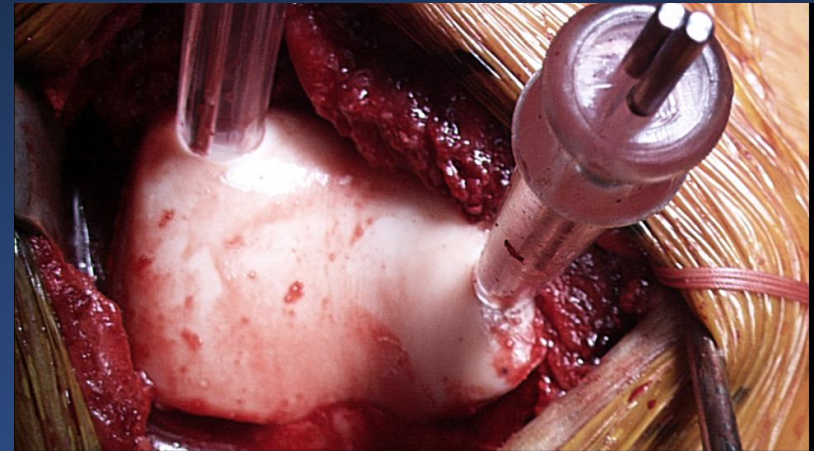
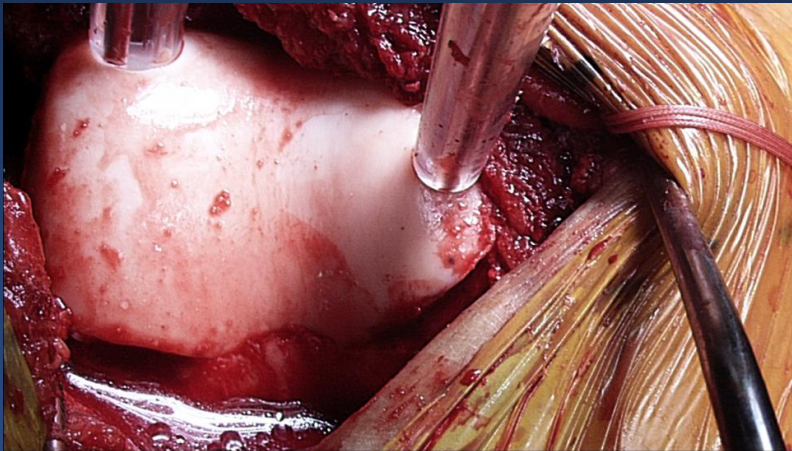
Open View Trochlear Defect – Entire Proximal Femoral Involvement



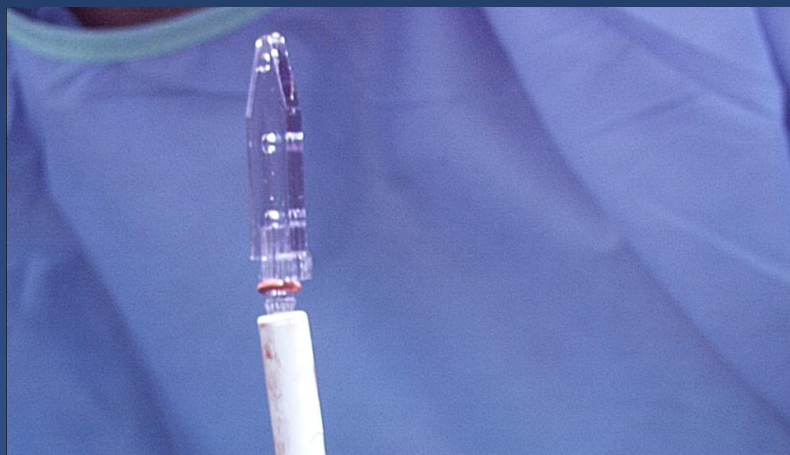
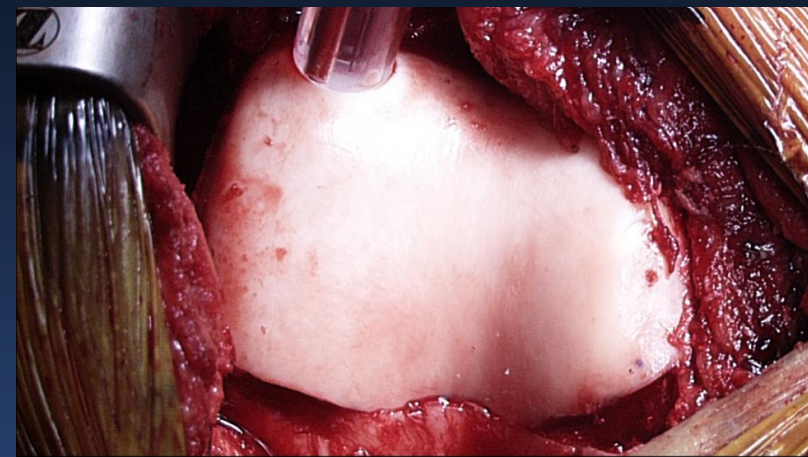
Bulk Allograft Positioned



1.8 mm Chondral Darts Reverse Thread



Multiple Peripheral Chondral Darts



Additional Titanium 2.0 mm Screws Peripheral – Nonarticular Edge



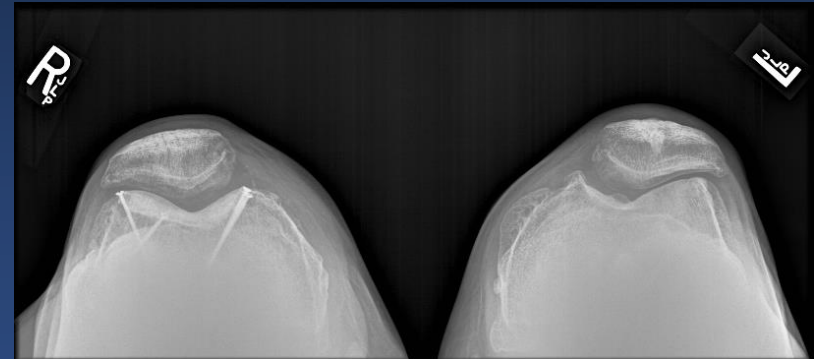
Postoperative Standing AP / Merchant's Radiographs 6 months



Postoperative PA WB views Standing AP Views 6 months



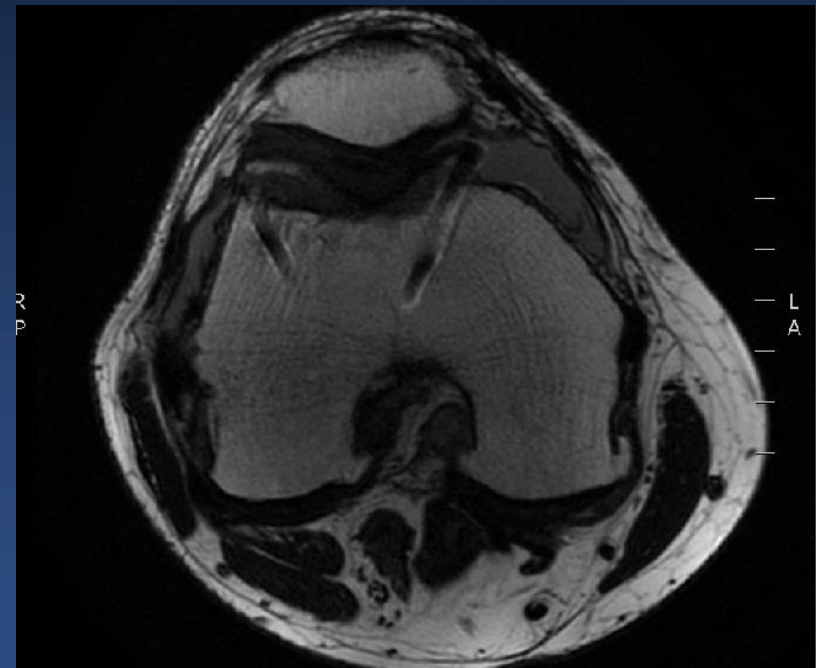
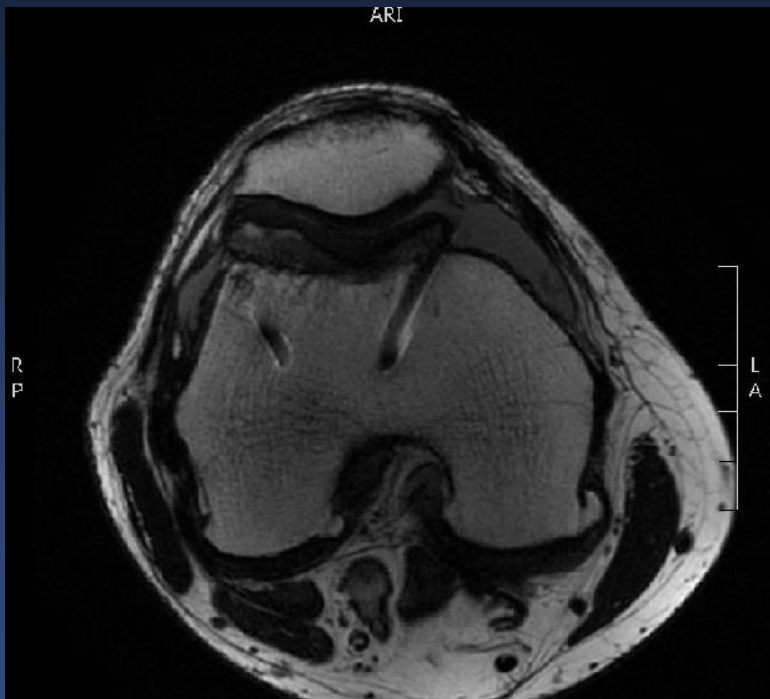
Postoperative Radiographs Lateral / Merchant's – 2 year



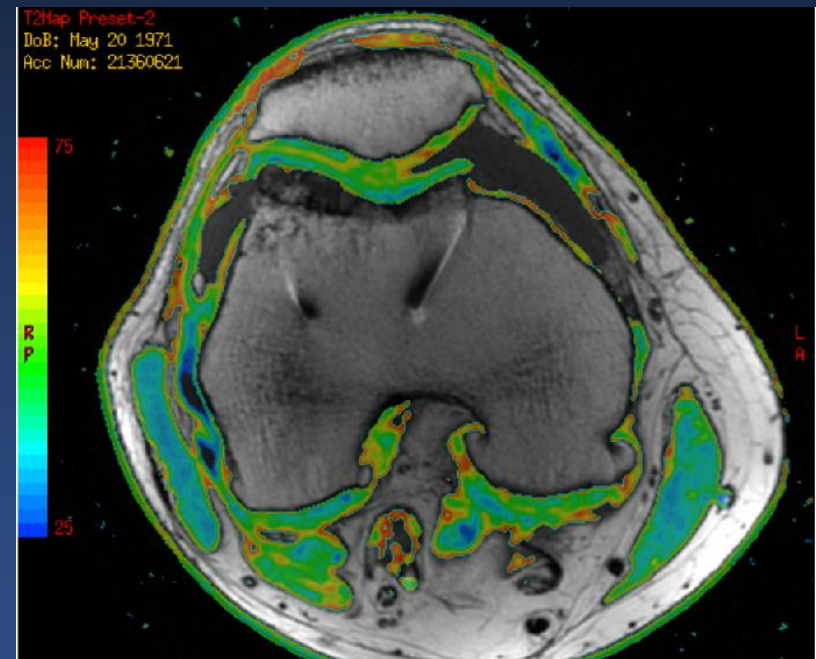
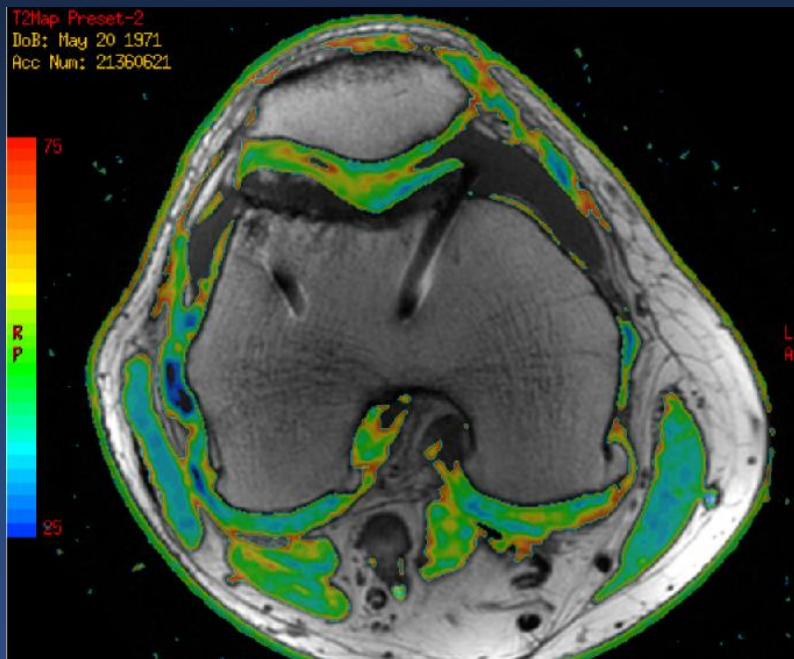
Sagittal Images – 2 years post-implantation



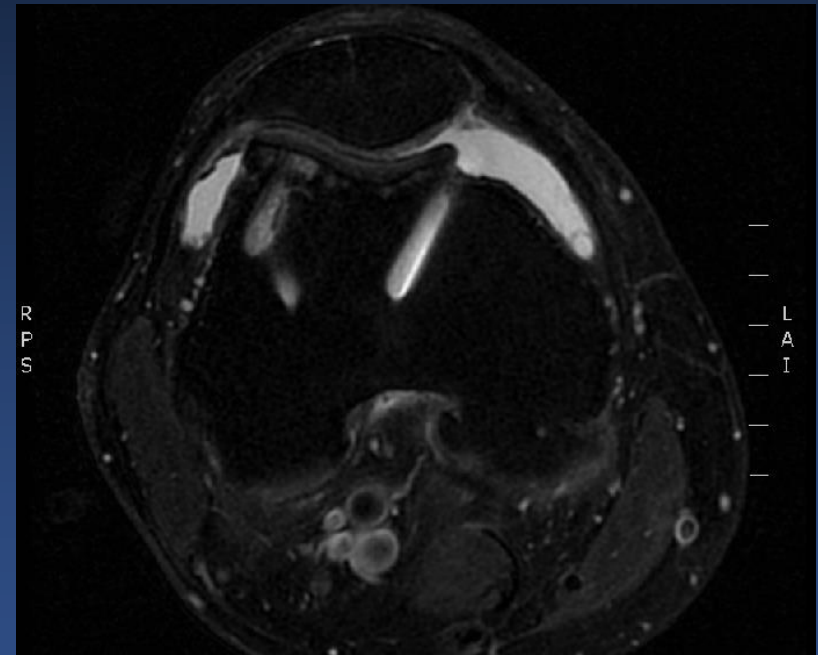
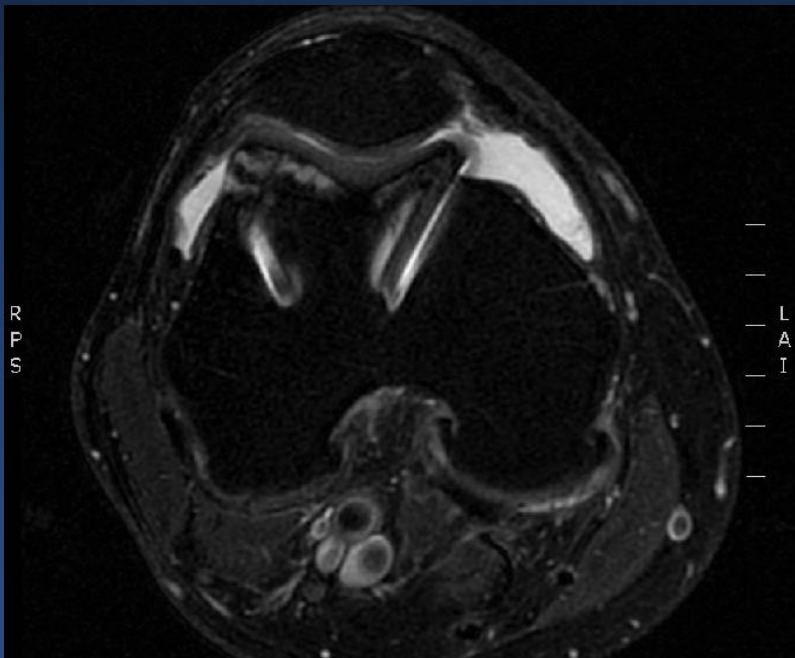
MRI Cartilage specific sequences 2 years postoperatively



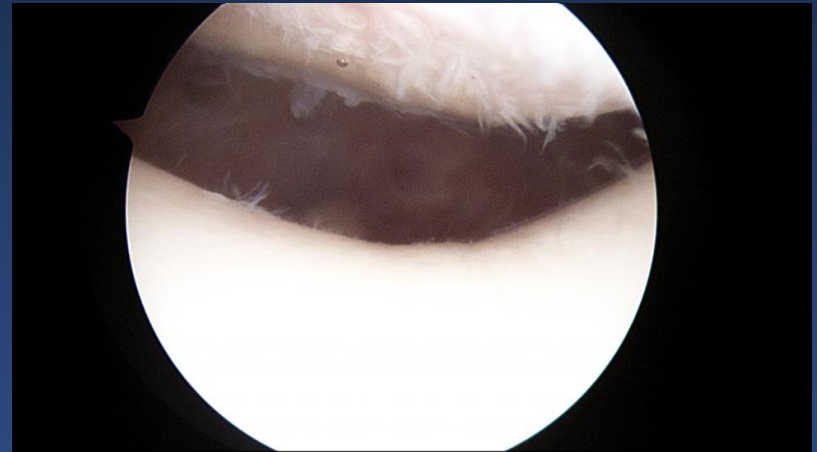
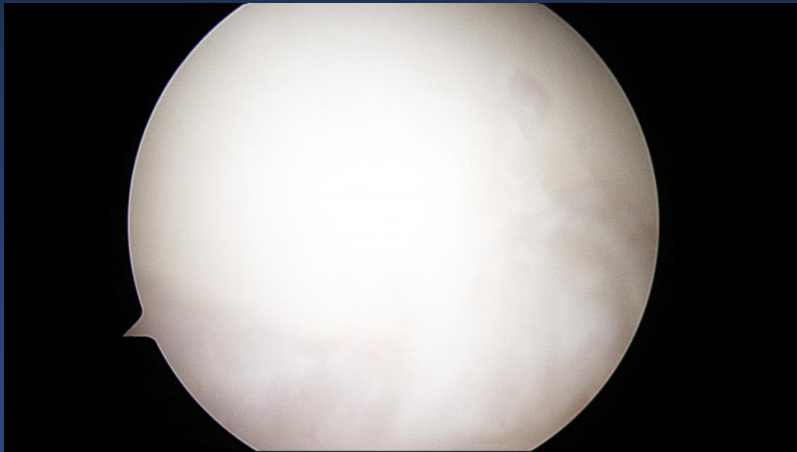
T2 mapping Axial Images



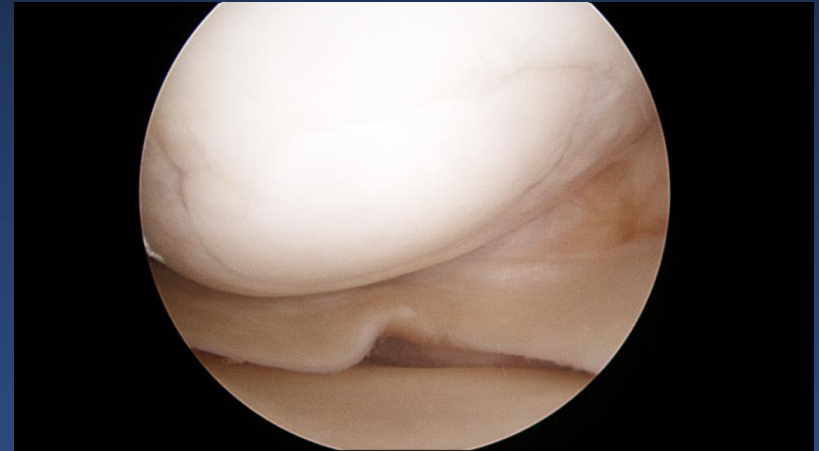
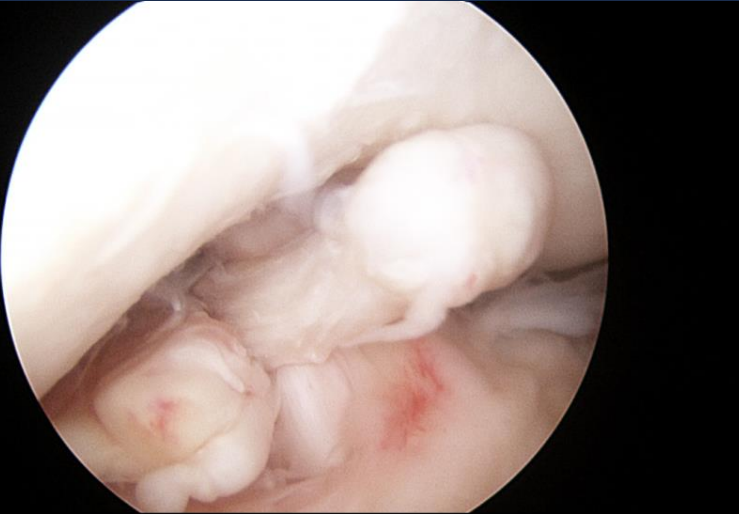
Cartilage specific Sequences – 2 years post-implantation



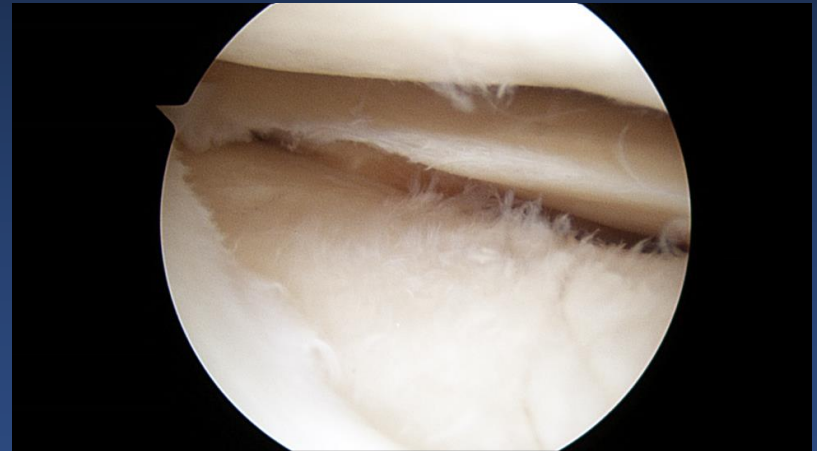
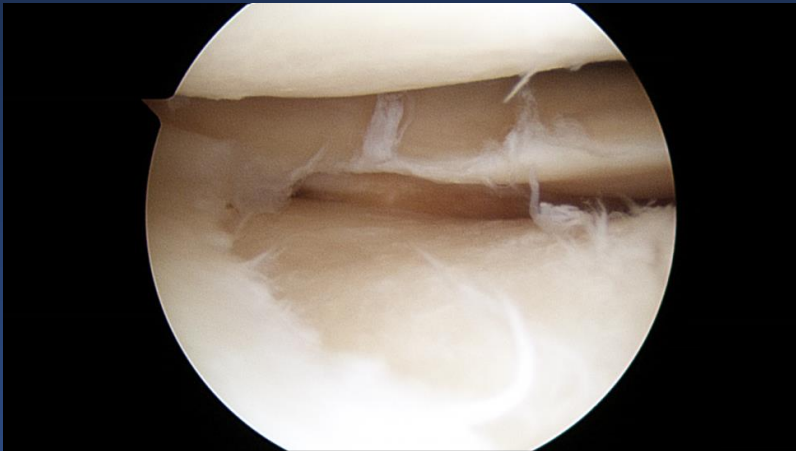
Tears ACL – Repeat Arthroscopic 2 years After Implantation



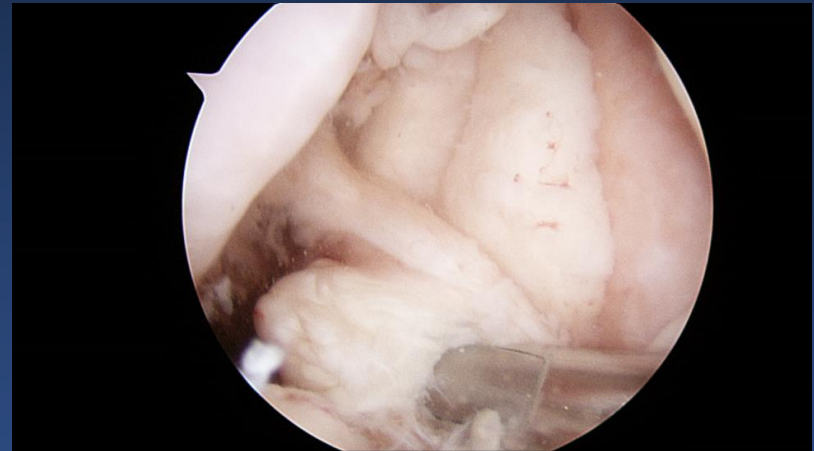
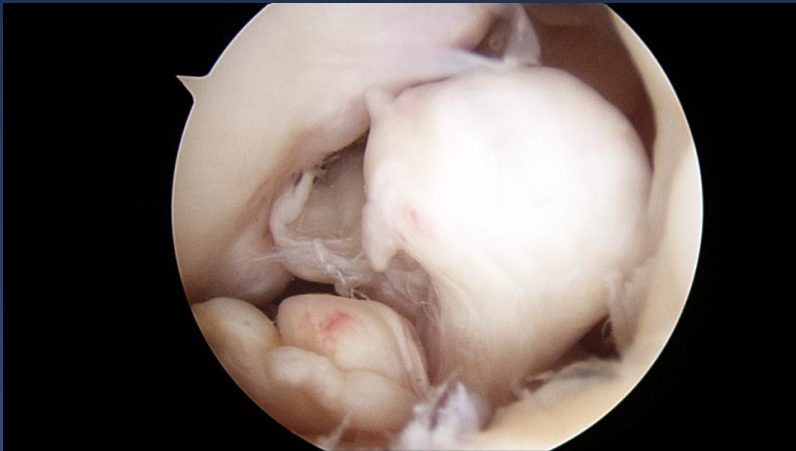
ACL Tear and Medial 22.5 mm Dowel Allograft



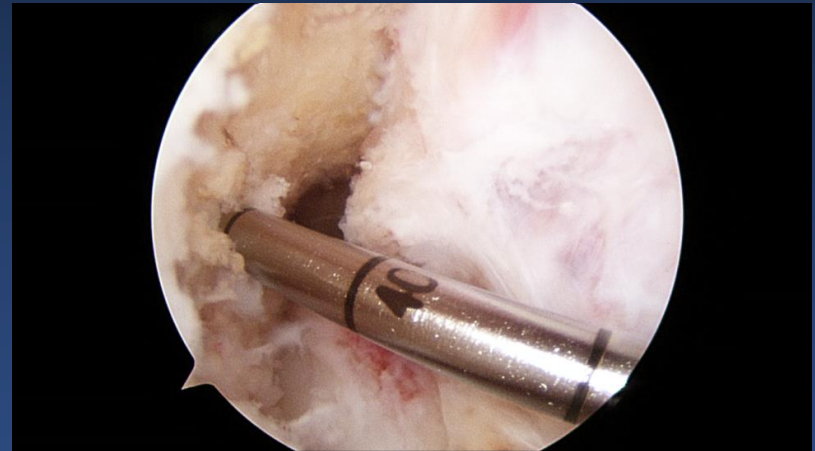
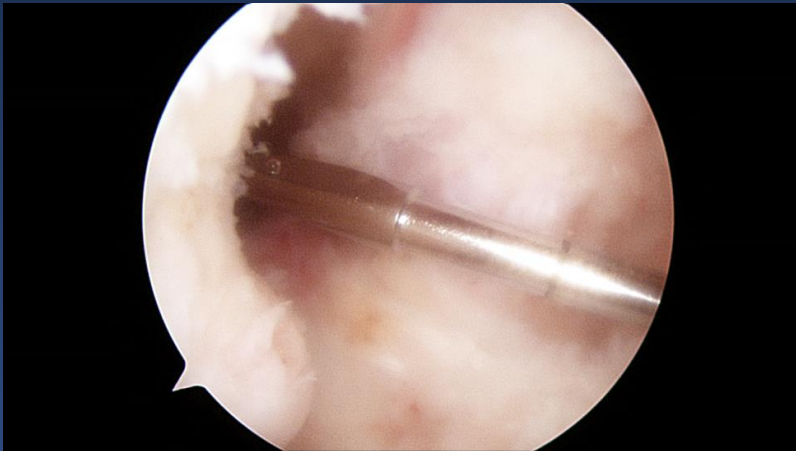
Lateral Compartment



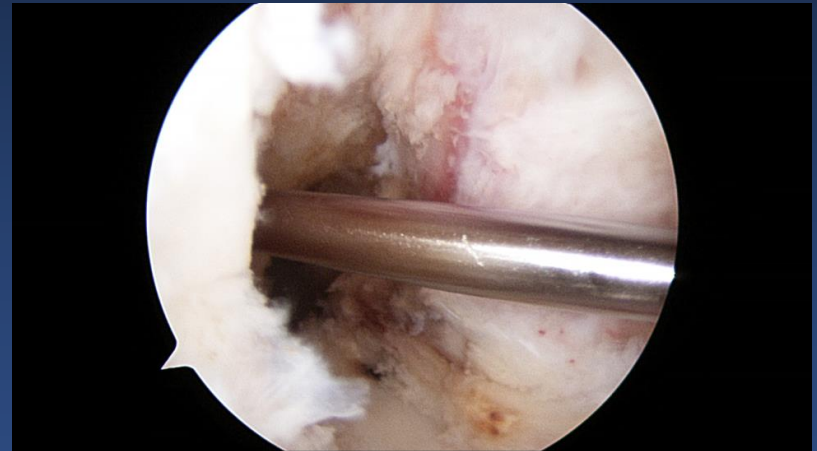
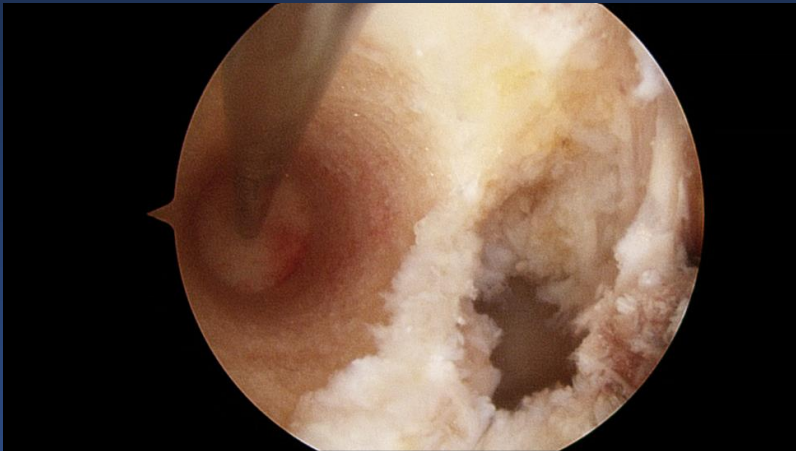
ACL Tear



Tunnel Preparation

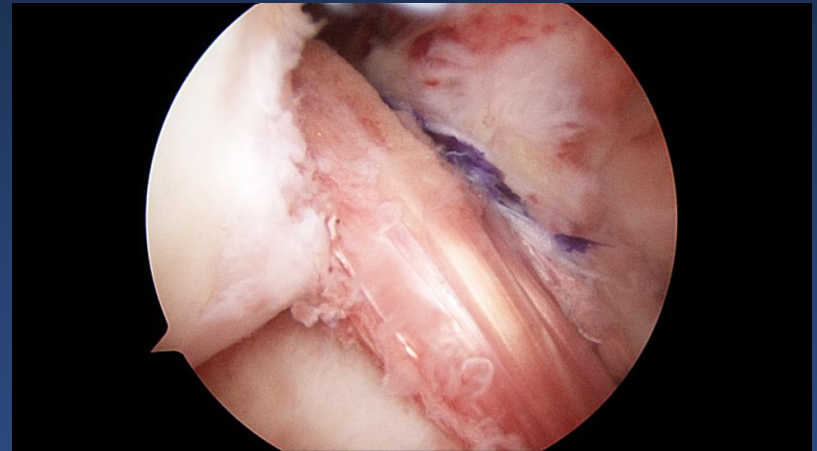
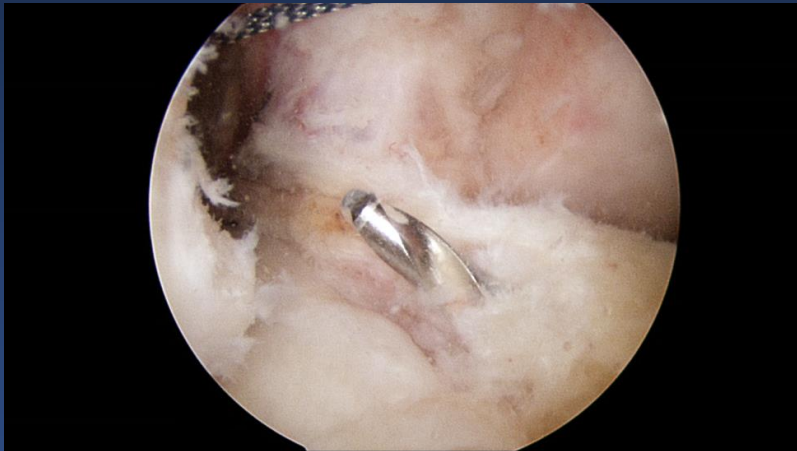


Tunnel Preparation

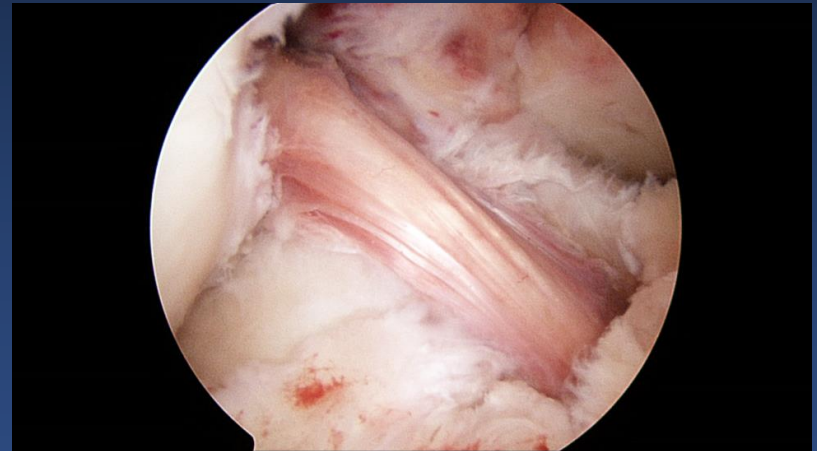
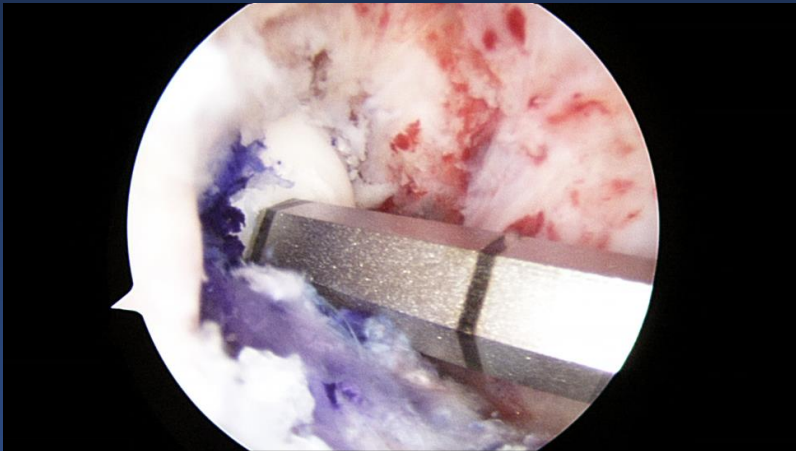


ACL BPTB Graft Application

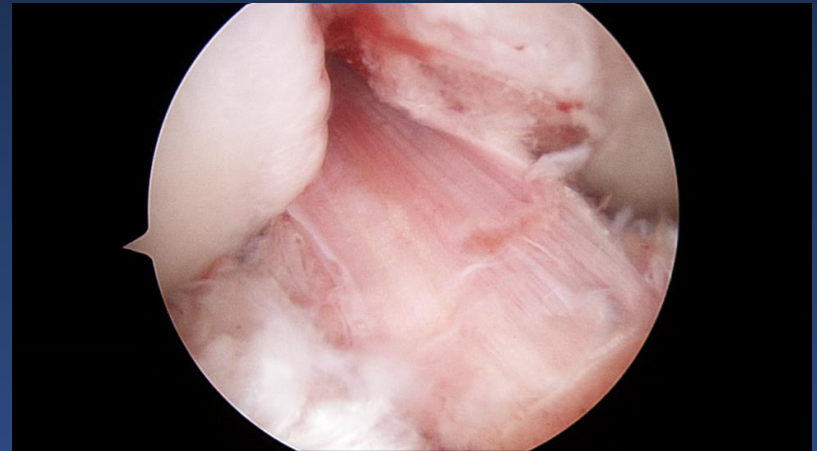
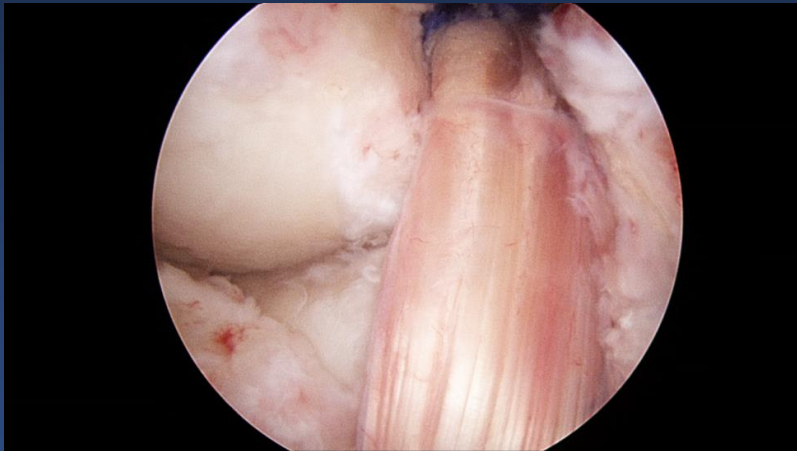
Central Autograft – 10 x 90 mm



ACL Graft Fixation



BPTB GRAFT



Post-ACL Reconstruction Healed Bulk and Dowel Allografts

