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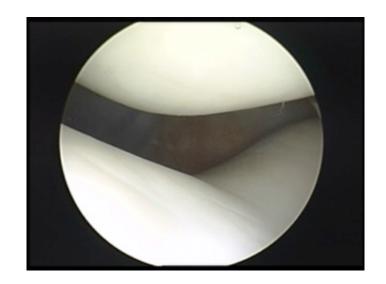
Assistant Professor, Orthopedics and Sports Medicine Updated July 27, 2021





Anatomy

- Patella = "knee cap"
- Trochlea = "groove"
- Cartilage cushion on surface of bones
 - Often injured with dislocation
- MPFL (medial patellofemoral ligament) = ligament that keeps knee cap in place
 - Torn/stretched with dislocation







Without surgery....

- Torn/stretched ligament won't heal
- Knee cap will continue to pop out
- More damage to cartilage
- Increased arthritis
- Poor long term function
- Decreased return to sport







Main Goals for Surgery

Restore Stability

Decrease arthritis Improve function

Return to Sport







MPFL Reconstruction

Outpatient surgery (go home same day)
General anesthesia (asleep the whole
surgery and won't feel anything)

Arthroscopic evaluation

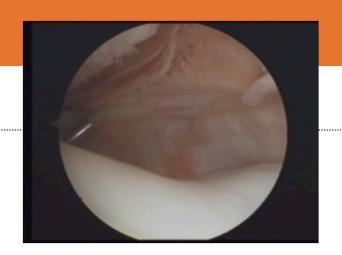
Remove or repair injured tissue

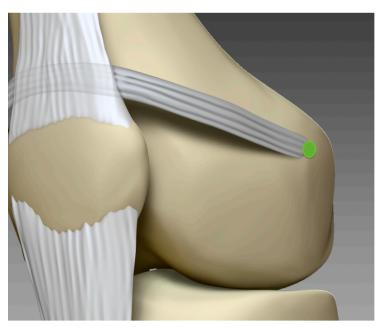
Patella Realignment

• "Lateral release with repair" to get knee cap in center of groove

Stabilize Patella

- "MPFL reconstruction"
 - Cadaver hamstring (allograft) tendon is used to replace the torn MPFL







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Complications and Considerations

Anesthesia

Bleeding

Nerve injury

Infection (1%)

 Rare joint infection can require hospitalization, IV antibiotics, multiple surgeries, removal of the graft.

Stiffness

Re-operation (<5%)

Failure to return to sport





Rehabilitation and Return to Sports

Full weight-bearing right after surgery
Physical therapy starts 3-4 days after surgery
Knee brace until adequate quad strength regained

Up to 6 weeks

Encourage range-of-motion exercises

Healing typically at 3 months

Running at 4 months

Rehab Progress Assessment at 6 months

High-loading / return to sport activities at 6-12 months

Strict criteria for return to sport clearance





Conclusions

Goals = remove diseased tissue, stabilize knee cap, preserve the joint

Surgery results in improved outcomes

Treatment of underlying risk factors is key

Slow, progressive rehabilitation

Return to sports (6-12 months)

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