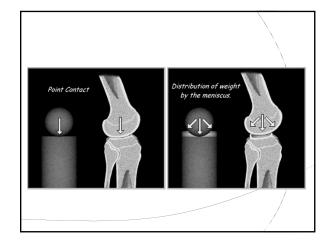
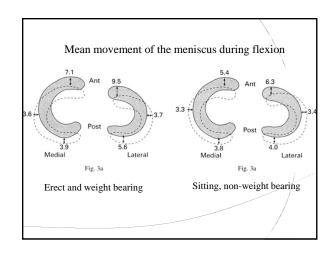


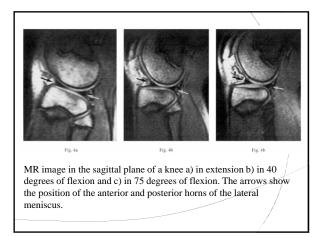
Physiology

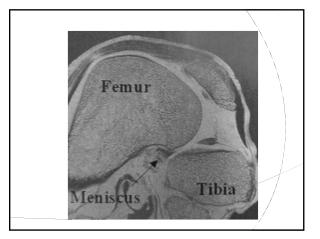
- may contribute to nutrition of articular cartilage by enhancing synovial fluid distribution
- secondary restraint for knee stability
- share load bearing
- Proprioceptive function
- increases the articular contact area
 - lowers the load/unit area
 - circumferential fiber orientation increases ability to support hoop stresses
 - menisci transmit 30-55% of the load across the joint in the standing position
 - after menisectomy contact stress may increase by 235%

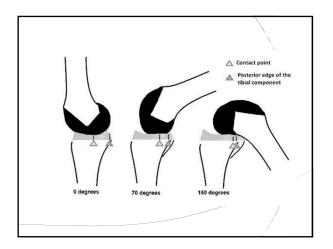


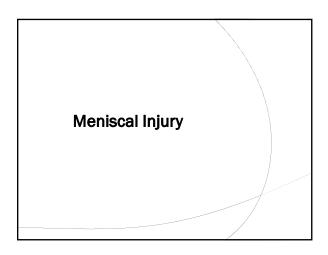
Role as a Stabilizer medial meniscus stabilizes against anterior translation of the tibia (particularly in ACL deficient knee) medial meniscus thus subject to greater shear forces in ACL deficient knee lateral meniscus more mobile and less likely to experience shear forces



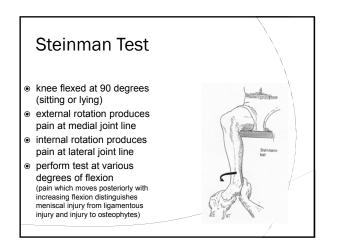


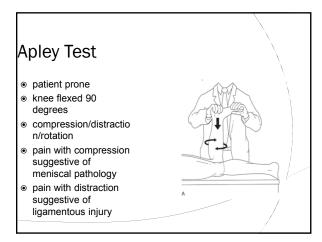


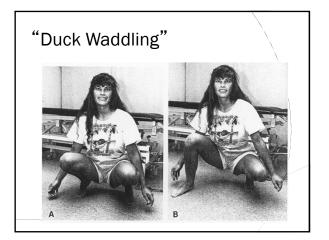


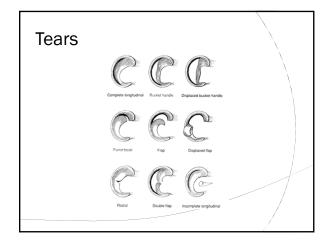


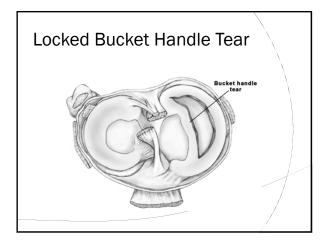
Diagnosis **McMurray** Test • History of twisting injury 58% true positives 5% false positives • +/- ligamentous injury forced tibial rotation Effusion with flexion and varus/valgus stress Mechanical Sx's o results: Joint line tenderness negative Provocative tests joint line pain both pain and clunk (painless clunk not truly "positive") Fig. 98 A slow speed turn in skiing may cause a menisc the bindings do not release

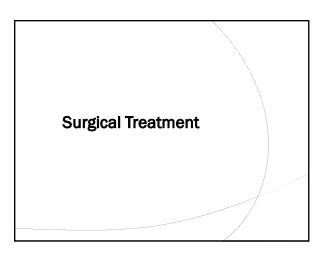


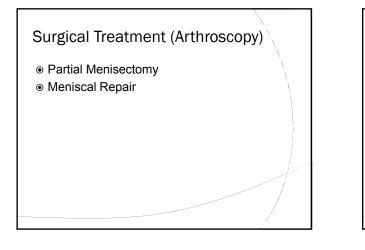


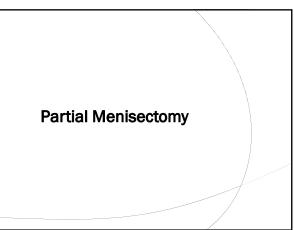


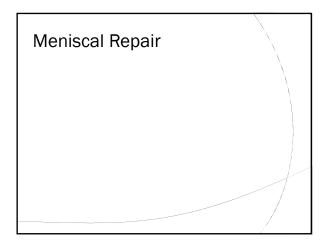






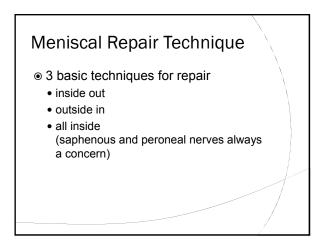


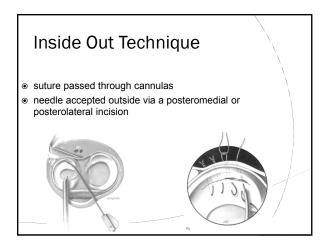


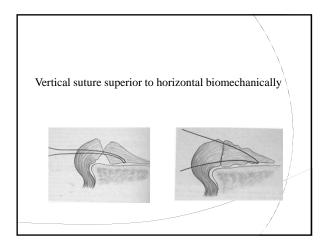


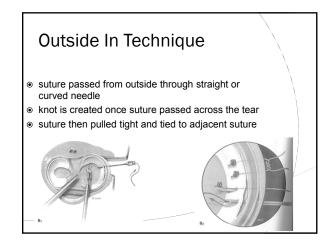
Indications for Repair

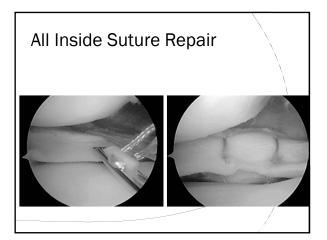
- Recommended for longitudinal tears in the peripheral 10-30%
- Tears which displace more than 3mm
- Tears which may be left to heal:
 - periheral tears < 10 mm
 - small radial tears < 3mm
 - (fenestration, rasping, or debridement of freed edges may expedite healing)



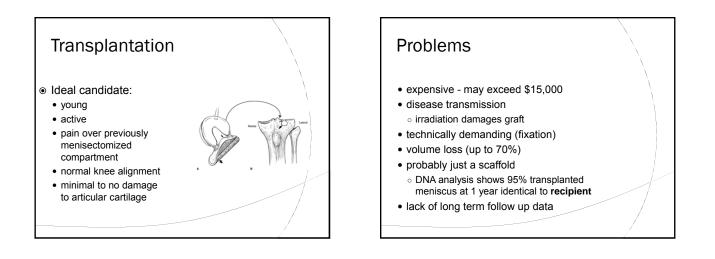


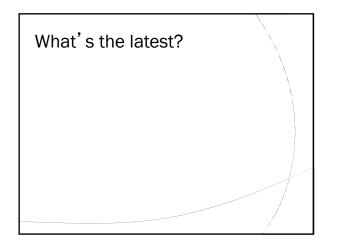


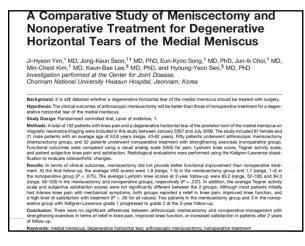




Study	No. of Repairs	Follow-up		Results
Eggli et al ²⁶	54	7.5 yr (average)	Clinical \pm MRI	73% success
Albrecht-Olsen and Bak ²⁷	27	3 yr (median)	Clinical	63% success
Miller ²⁸	79	3.25 yr (mean)	Arthroscopy or arthrogram	84% healed (stable), 93% healed (recon)
Morgan et al ²⁹	74	8.5 mo (average)	Arthroscopy	65% healed (completely), 19% healed (incompletely), 16% failed
Cannon and Vittori ³⁰	90	10 mo (mean)	Arthroscopy or arthrogram	50% healed (stable), 93% healed (recon)
Buseck and Noyes31	66	1 yr (average)	Arthroscopy	80% healed (completely), 14% healed (partially), 6% failed
Tenuta and Arciero32	54	11 mo (average)	Arthroscopy	57% healed (stable), 90% healed (recon)
Johnson et al ³³	38	10 yr 9 mo (average)	Clinical	76% success







Long-term Evaluation of Posterior Lateral Meniscus Root Tears Left In Situ at the Time of Anterior Cruciate Ligament Reconstruction

K. Donald Shelbourne,*[†] MD, Troy A. Roberson,[†] MD, and Tinker Gray,[†] MA Investigation performed at the Shelbourne Knee Center, Indianapolis, Indiana

Background: The long-term radiographic and subjective results of patients with posterior lateral meniscus root tears left in situ at the time of anterior cruciate ligament reconstruction has not been reported. Hypothesis: The authors hypothesized that patients who had posterior lateral meniscus root tears left in situ would have statist tically significantly lower subjective scores and greater joint-space narrowing as compared with a control group.

today segninoumly over subjective scores and greater pain-space narrowing as compared with a control group. Study Design: Chort study; Level of evidence, 3. Methods: Thirty-three patients who had isolated posterior lateral meniscus root tear and >5 years objective and subji follow-up were evaluated and compared with a matched control group without meniscul laren based on exc, chronic tear, age, and follow-up time. Patients were evaluated subjectively and objectively using the International Knee Document Committee oriteria.

Committee criteria. Results: The mean objective follow-up time was 10.6 ± 4.5 years. The mean subjective total score was 84.6 ± 14 in the study group versus 90.5 ± 13 in the control group Pe .09, Radiographs showed lateral joint-space narrowing rated as normal in 9, milkin 10, moderate in 3, and severe in 1 versus the contol group, which was normal in 28 and mild in 5 patients. The measure amount of lateral joint-space narrowing compared with the other knee was 1.0 ± 1.6 mm in the study group versus 0 ± 1.1 mm in the controls or 8^{-6} feed posterosarcher drateratior radiographs (P < 2.08).

Conclusion: A mean of Dysetholation insubgrapher (Cond). Conclusion: A mean of Dysetholation of Johuw-job of posterior lateral meniscus root tears left in situ, mild lateral joint-space narrowin was measured without significant differences in subjective or objective scores compared with controls. This study provid a baseline that can be used to compare the results of procedures subset to treat these tears in other manners. Keywords: lateral meniscus; posterior root tear; posterior hom tear; in situ; joint-space narrowing; anterior cruciate Igament; outcom

