ASPETAK

Difficult Meniscectomy

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Anatomy

 They are wedge-shaped in cross-section and are attached to the joint capsule at their convex peripheral rim, and also to the tibia anteriorly and posteriorly by insertional ligaments. They partially cover the tibio-femoral joint surface.





Partial meniscectomy

- Meniscectomy remains a challenging procedure
- It can be more difficult than to repair
- If a meniscectomy is decided, an "adequate resection" must be done



Principles of Good Meniscectomy

- Remove all the torn meniscectomy but only the torn meniscus
- Good Set-Up
- Good Approach
- Good View
- Good Technique

Good Set-up

- General or regional anesthesia
- Supine position
- A tourniquet is usually applied. Bleeding control
- The leg is positioned in a thigh holder, which produced optimal rotational control of the limb. Then the end of the bed is lowered

 Or lateral post, clamped to the lateral aspect of the bed of the involved leg



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Basic Principles

- Remove all mobile fragments.
- 1.Do not leave sudden changes in rim contour.
- 2.Do not try to obtain a perfectly smooth rim as some remodeling may occur.
- 3.Use the probe often to reevaluate the tear.
- 4.Protect the meniscus-capsular junction to avoid the loss of hoop stresses.
- 5.Use both manual and motorized instruments to maximize efficiency.
- 6.When uncertain if an area should be resected, err on the side of leaving more meniscus intact rather than compromising biomechanical properties.

Metcalf









Posterior Medial Meniscus: Difficult Access

• Partial release of medial collateral ligament: Pie Crusting.





P. Beaufils

Anterior Lateral Meniscus

- The posterior part is usually easy access. The anterior part is more challenging.
- Approaches













Discoid Meniscus

- It is difficult to determine the true incidence of discoid menisci, but in a study by Nathan and Cole only 30 out of 1,219 menisci (2.5%) that had been surgically removed were found to have been discoid.
- Smillie found 185 discoid menisci in 3,000 meniscectomies (6%).
- Discoid menisci are more common on the lateral side than the medial side, and they are only rarely ever found in both compartments of the knee

Nathan PA, Cole SC (1969) Discoid meniscus. A clinical and pathologic study. Clin Orthop Relat Res 64:107-113 Smillie 15 (1948) The congenital discoid meniscus. J Bone Joint Surg 30-B:671

Discoid Meniscus

- Width of the meniscus remnant
- Stability of the meniscal rim after meniscoplasty





• Width of the meniscus remnant



Discoid Meniscus

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Stability of the meniscal rim after meniscoplasty



Conclusion

• Don't under-estimate the Meniscectomy Procedure!