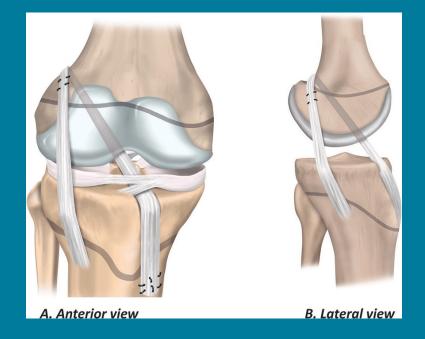
# IT Band ACL Reconstruction for the Pediatric Patient



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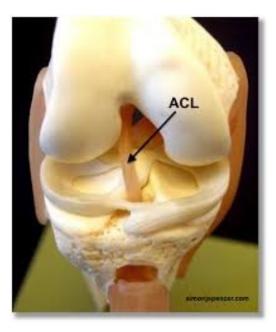




#### Anatomy

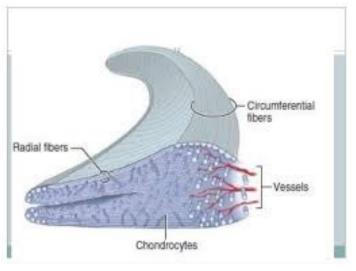
### ACL

- Prevents shin bone (tibia) from sliding out in front of the thigh bone (femur)
- Provides stability



#### Meniscus

- Function
  - Stability
  - Shock Absorption
  - Protect cartilage







#### What happens if no surgery?

- Poor healing potential
- Persistent instability/giving way
- Increased meniscus tears
- Increased arthritis
- *Poor* long-term function
- Decreased return to sport



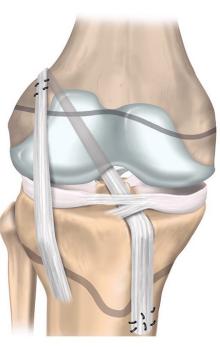




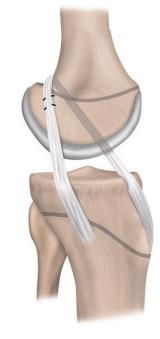
#### ACL Reconstruction with Iliotibial (IT) Band Autograft

- Outpatient surgery (go home same day)
- General anesthesia

   (asleep the whole surgery and won't feel anything)
- Torn ligament is removed and replaced with lliotibial band autograft (patient's own tissue)
  - Minimizes injury to the growth plates
  - Provides excellent stability
  - Low failure rate
  - High return to sport rate



A. Anterior view



B. Lateral view

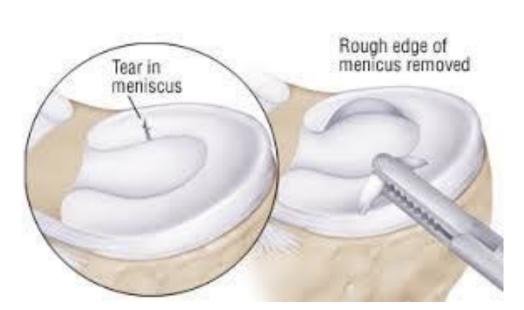




#### Meniscus Repair vs Partial Meniscectomy (Trim)











#### **Complications and Considerations**

- Anesthesia
- Bleeding
- Nerve injury
- Infection
  - Rare joint infection can require hospitalization, IV antibiotics, multiple surgeries, removal of the graft
- Stiffness (<5%)
- Growth disturbance (<2%)

- Fullness at harvest site (50%)
- Discomfort at harvest site (<4%)</li>
- Normal for knee to feel "not normal", "loose", "different"
- Negative financial and career implications





#### **Re-injury and Return to Sport**

### • Graft rupture (<5%)

- 50% decrease for every month after 6 months
- 7x more likely to tear before 9 months
- Passing Return-to-sport test significantly reduces risk
- After 2 years, risk returns to normal
- Other side (Contralateral) ACL injury (6%)
  - ? Due to compensation
- Meniscus Repair Failure (15%)

#### Return to pre-injury level of sport (80%)

• Fear of re-injury is most common reason for not returning





## **Rehabilitation and Return to Sports**

- Brace, crutches, and toe-touch weight-bearing for 6 weeks
- Back to school within a week
- Physical therapy (PT) starts 3-7 days after surgery
  - Frequency dictated by the PT team, insurance, etc.
- Running at 4 months
- Rehab Progress Assessment at 6 months
  - Criteria to begin return to sport phase of rehab
- Return to sport test at 9 months (minimum)
  - Strict criteria for return to sport *clearance*
  - Decrease risk of re-tear and contralateral ACL injury







## **Mental Health and Psychological Considerations**

- Recovery after surgery can be stressful and emotionally challenging
- How you respond throughout the recovery process can impact your mood, adherence to rehab, and return to play/sport
- Common complaints (these feelings are normal):
  - Anxiety and/or Depression
  - Frustration
  - Fear of pain
  - Social isolation
  - Low motivation for rehab
  - Don't want to return to sports
- Let us know how you're feeling throughout the recovery process
- We are here to help!

