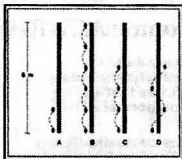


Functional Tests

Preliminary Data:

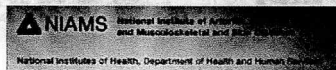
- Single hop
- Triple hop
- Triple cross-over hop
- Timed hop



	6 Months	12 Months
Single Hop	83.6%	87.3%
Triple Hop	89.8%	93.1%
Triple Cross-Over Hop	89.2%	95.9%
Timed Hop	93.1%	96.2%
Limb Symmetry Index	88.7%	93.2%

Single- vs. Double-Bundle ACL Reconstruction: A Prospective Randomized Clinical Trial

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Is Anatomic DB ACL Reconstruction Better Than Anatomic SB ACL Reconstruction????

Specific Aims

- Aim 1 – Dynamic Knee Function
- Aim 2 – Clinical Outcomes

Ultimately We Plan to Evaluate Factors that Influence Long-Term Joint Health

Eligibility Criteria

Inclusion Criteria:

- 14 to 50 years old scheduled to undergo ACL reconstruction within 12 months of surgery
- Participate in level 1 (football, basketball, soccer) or 2 (racquet sports, skiing, manual labor occupations) activities at least 100 hours per year
- Injury must involve both bundles of ACL & insertion site must be between 14 to 18 mm in diameter

Study Design Issues

Exclusion Criteria:

- Prior ipsilateral knee surgery
- Injury or surgery to contra-lateral knee
- Meniscus tear requiring repair or resection > 1/3 of meniscus
- Injury to both menisci
- Greater than grade 1 concomitant ligament injury
- Full thickness cartilage injury
- Inflammatory or other forms of arthritis
- Other condition affecting ability to walk or participation in Level 1 or 2 sports
- Plans to move from area during period of follow-up
- Any contra-indications for MRI