

747 N. Rutledge St 3rd Floor Springfield, IL 62702 Phone: (217) 545-8000

Fax: (217) 545-1159



Elisabeth Robinson, MD Orthopedic Surgeon Sports Medicine Specialist

POST-OPERATIVE ACL RECONSTRUCTION with MENISCUS REPAIR OR MICROFRACTURE

Diagnosis/Surgery:

PHASE 1: WEEKS 0-6

Goals:

- 1. Protect graft and graft fixation
- 2. Minimize effects of immobilization
- 3. Control inflammation/swelling

Brace/precautions:

- 1. 0-2wks TTWB, 2-6wks 50% WB
- 2. Brace 0-6wks 0-90°
- 3. Remove brace for hygiene and therapy

ROM:

1. 0-90°, no forced flexion

Exercises/Strengthening:

- 1. Restore quad recruitment
- 2. Quad, hamstring, gluteal strengthening (Delay hamstring strengthening for 12wks if HS autograft) Hamstring curls, quad sets
- 3. Patella mobilizations
- 4. Ankle pumps
- 5. SLR all planes with brace in full extension until quad sufficient to prevent lag
- 6. Gastroc/soleus stretching

PHASE 2: WEEKS 6-10

Goals:

- 1. Restore normal gait with stair climbing
- 2. Maintain full extension, progress toward full ROM
- 3. Protect graft and graft fixation
- 4. Increase hip, quad, hamstring, calf strength
- 5. Increase proprioception

Brace/precautions:

- 1. D/c brace if capable of SLR without extensor lag
- 2. Progress to full WBAT

ROM:

1. Restore full, pain free active ROM

Exercises.Strengthening:

- 1. ROM/flexibility exercises
- 2. Closed kinetic chain quad strengthening wall sits, mini squats, leg press
- 3. Stairmaster
- 4. Elliptical for conditioning
- 5. Stationary bike progress time and resistance as tolerated
- 6. Proprioceptive activities ball toss, balance beam, mini-tramp balance

PHASE 3: WEEKS 10-16

Goals:

- 1. Full ROM
- 2. Protect patellofemoral joint
- 3. Normal running mechanics
- 4. Strength approximately 70% of uninvolved LE per isokinetic eval if available

Brace/precautions:

1. Avoid overstressing the graft

ROM:

1. Maintain full ROM

Exercises/Strengthening:

- 1. Continue and progress flexibility and ROM
- 2. Initiate open kinetic chair knee extensions, progress to eccentrics
- 3. Progress towards full weight bearing running
- 4. Begin swimming if desired
- 5. Cardiovascular/endurance training via stairmaster, elliptical, bike

6. Advance proprioceptive activities

PHASE 4: MONTHS 4-6

Goals:

- 1. Symmetric performance of basic and sport specific agility drills
- 2. Single hop and 3 hop tests 85% of uninvolved lower extremity
- 3. Quad and hamstring strengthen 85% of uninvolved lower extremity per isokinetic strength test

Brace/precautions:

1. None

ROM:

2. Maintain full ROM

Exercises/strengthening:

- 1. Progress flexibility and strengthening program
- 2. Initiate plyometric program as appropriate for athletic goals
- 3. Agility progression side steps, crossovers, figure 8 running, cutting, agility ladder, acceleration/deceleration, one and two leg jumping
- 4. Assessment of running on treadmill

PHASE 5: 6+ MONTHS POST-OP

Goals:

- 1. Safe return to athletics/work
- 2. Maintenance program for strength, endurance, proprioception

Exercises/Strengthening:

- 1. Gradual return to sports participation
- 2. Recommend LEAP test at 6+ months to guide return to sport/activity

Additional Instructions:		
Elisabeth C. Robinson, MD	Date	