

**PHYSICAL THERAPY PROTOCOL/PRESCRIPTION: PROXIMAL HAMSTRING REPAIR**

Name: \_\_\_\_\_

Date of Surgery: \_\_\_\_\_

Diagnosis: \_\_\_\_\_

Signed: \_\_\_\_\_

Frequency: 2-3 times per week x 6 weeks

**Phase 1- Immediate Rehabilitation Goals:**

- Protection of the repaired tissue
- Restore ROM within guidelines Prevent muscular inhibition and gait abnormalities
- Diminish pain and inflammation

**Precautions:**

- Patients will be toe-touch weight-bearing for the between 6-8 weeks post-op, per Dr. Makhni's orders
- Do Not Push Through Pain or Pinching, gentle stretching will gain more ROM
- ROM Guidelines: PROM of knee and hip begins at wk 2 Gentle AROM initiated at wk 4

**Phase 1: Initial Exercises and Tissue Flexibility**

- Stretches: NO Hamstring stretches for 6 weeks
- Calves, Passive stretches at 2 weeks: quad, hip flexor
- Soft Tissue Massage: Scars, TFL / ITB, Quads, Gluteals, QL, Lumbar Paraspinals, posterior thigh, and Calves

**Week 1-2 Ex's**

- Ankle Pumps, Gluteus squeezes, Quad squeezes, Transverse abdominals, gentle Hip Abd submax isometrics using a belt or Pilates ring, lumbopelvic stabilization, patellar mobilizations
- At 2 weeks: ankle strengthening, passive calf stretching with 0° hip flexion

**Week 3-4 Ex's Progress PROM 0-45 at the hip**

- Initiate AROM at week 4, but no hamstring contraction
- 4 weeks: prone quad strengthening, sidelying hip abd/add, single and double-limb balance and proprioception, lumbopelvic stabilization (PRE's)

**Week 5-6 Ex's Progress PROM at the hip 0-90\***

- d/c brace after 6 weeks
- progress to FWB
- Isometric exercises 6 weeks: stationary bike, when obtained 90° hip flexion, supine SLR's

**Phase 2 – Intermediate Rehabilitation**

Criteria for progression to Phase 2: Full Weight Bearing Must Be Achieved Prior To Progressing To Phase 2

**Goals:**

- Protection of the repaired tissue
- Restore Full Hip ROM – ROM must come before strengthening
- Restore Normal Gait Pattern
- Progressive Strengthening of Hip, Pelvis, and LE's
- TREADMILL USE with appropriate gait pattern

**Precautions:**

- No forced (aggressive) stretching of any muscles
- Avoid any terminal ranges of motion in exercise

Week 6-7 Ex's

- Continue gentle stretches
- Normal gait training
- Aqua therapy
- Isotonic exercises begun with limited ROM
- Pelvic floor and core strengthening
- Closed chain exercises initiated

ROM exercises :Isotonic strengthening under load - Beginning at 6 weeks and progressing through 12 weeks: WB exercises (mini lunges, side stepping with resistance, mini squats, grapevines, etc) aquatic therapy, hydroworx pool for early return to running

Week 7-8 Ex's

- Isotonic strength training progressed
- Dynamic training advanced
- Isokinetic work and dynamic stretching

**Phase 3 – Advanced Rehabilitation**

Criteria for progression to Phase 3:

- Full ROM
- Pain free Normal gait pattern
- LE MMT minimum 4/5

Goals:

- Full Restoration of muscular strength and endurance
- Full Restoration of Pt's Cardiovascular endurance

Precautions:

- No contact activities
- No forced (aggressive) stretching

Exercises 8-10 weeks

- Lunges, Side to side lateral slides with cord, Forward / Backward running program, light Plyometrics, and resisted lateral walking
- Progress running
- Sideways agility drills

**Phase 4 – High Impact/RTS/RTW:**

Criteria for progression to High Impact Training:

- Hip strength all 5-/5 HS strength 4+/5
- Cardiovascular endurance nearing pre-injury level
- Demonstrates proper squat form and pelvic stability with initial agility drills

Develop customized strengthening and flexibility program based off of Patient's sport and/or work activities

Phase 4: Sport Specific Training

- Initiation of dry land jogging
- MMT compared bilaterally at 60°, 120° & 180° (Isokinetic testing if available)
- Sport Specific drill work
  - Z cuts, W cuts, Cariocas
  - Agility drills
  - Plyometrics
- Gradual return to sport

Return to sporting activities is permissible when isokinetic testing is 80% of the unaffected side, or both 5/5 with all LE MMT's. Similar to an ACL reconstruction, this will typically occur between 6 and 9 months.