

# Dr. Schock Proximal Hamstring Tendon Repair

## Phase 1- Early Protective Phase (0-4 weeks)

## Goals for phase 1

- Protect surgical repair
- Control Pain
- Control Swelling

#### **Precautions**

- Non-weight bearing for 2 weeks
- Avoid active hamstring contraction
- No active knee flexion against gravity
- Knee extension limited pending intraoperative tension on repair

#### **Brace**

- Knee brace locked at 60 degrees of flexion (Weeks 0-2)
- Knee brace locked at 40 degrees of flexion (Weeks 2-4)

## Weight bearing

- Non-weight bearing with use of crutches or knee scooter (Weeks 0-2)
- Toe touch weight bearing with use of crutches or walker (Weeks 2-4)

#### **PROM**

• May initiate hip PROM at Week 2 with knee flexed at 90 degrees

## **Manual Therapy**

- Light desensitization massage around incision and posterior hip region
- Soft tissue mobilization

## Strengthening

- Ankle pumps
- Quad sets in knee flexed position
- Abdominal isometrics
- Glute sets

#### **Modalities**

Ice 4-6x per day for 20 minutes per session

# Phase 2 - Intermediate Phase (4-8 weeks)

## Goals for phase 2

- Protect surgical repair
- Restore normal gait
- Return to pain-free functional ADLs

#### **Precautions**

- Monitor tenderness at the surgery site
- No hamstring stretching exercises
- No impact or running

## **Brace**

- Knee brace locked at 10 degrees of flexion (Weeks 4-6)
- Knee brace opened at 6 weeks post-operative

#### Weight bearing

- Partial weight bearing 50% with use of crutches or walker (Weeks 4-6)
- After 6 weeks, progress back to FWB with 75% weight bearing for 3-4 days and then can progress to full weight bearing if the patient has controlled pain and appropriate knee control/quadricep activation

## **ROM**

- Continue with hip and knee flexion PROM
- Hip and knee AROM
- Limit hip flexion to 90 degrees with knee flexed at 90 degrees

## Manual Therapy

- Scar mobilization
- Soft tissue mobilizations
- Grade 1-2 hip mobilizations

### **Aquatics**

- May initiate when incision is healed
- No resisted hamstring exercises

## Ice

• 2-3x per day for 20 minutes per session



# Phase 2 - Intermediate Phase (4-8 weeks) Cont.

## Strengthening

- Side lying hip abduction
- Standing calf raises
- Mini squats
- Heel slides
- Short arc quads
- Clam shells
- Core strengthening
- May initiate sub-max isometrics of hamstrings starting at 6 weeks postoperative in supine

## **Proprioception**

• Double let balance and proprioceptive training

# Phase 3 - Intermediate Phase (8-16 weeks)

#### Brace

• May discontinue use of brace at 8 weeks

#### Weight bearing

WBAT without assistive device

#### **ROM**

• Continue to gradually progress hip and knee range of motion within pain-free range

## **Manual Therapy**

- Scar mobilization
- Soft tissue mobilizations
- Grade 1-4 hip mobilizations as needed

## Strengthening

- Stationary biking
- Straight leg raise
- Lunges
- Step-ups and step-downs
- Double leg bridge
- Low load isotonic hamstring activation exercises in shorted hamstring position, gradually progressing to more lengthened hamstring position
- After 12 weeks, may initiate more single leg loading exercises (i.e. single leg squats, single leg RDL, single leg bridge, etc.)

## **Proprioception**

• Single leg balance and proprioceptive training

#### Ice

• 2x per day for 20 minutes per session

Goals for phase 3

and work

**Precautions** 

tendon

• Return to unrestricted ADLs at home

Progressive hamstring loading

• No pain during strength training

• Do not overload with repaired

• Improve LE strength



# Phase 4 – Return To Sport/Full Activity (16+ weeks)

## Goals for phase 4

- Progress muscle strength, endurance, and balance
- Progress with multi-directional movements
- Progress with impact activities

## Criteria for return to work, function, sport

• No sprinting until 24 weeks post-op

## **Proprioception**

- Advanced proprioceptive training with unstable surfaces with perturbations and/or dual tasks
- Sport specific balance tasks

#### Strengthening

- Gradually progress load of exercises
- Progress with power and speed of exercises
- Nordic Curls
- Single-leg swiss ball bridge to hamstring curls

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- Gradually progress load of exercises
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#### **Agility**

- May begin double leg impact when strength is <20% deficit between LE with quadricep and hamstring assessment
- Double to single leg impact
- Gradual increase in vertical jump height

### **Gait Training/Running**

- May begin once Y-balance is <6 cm difference with posterior reaches and <4 cm difference with anterior reach
- Walk to jog progression
- Week 20: Initiate multi-directional running and cutting drills

#### **Modalities**

Utilize ice as needed

## Return to sport

- Physician clearance
- Isokinetic testing >90% LSI
- Hamstring strength >50% BW
- Functional Hop Testing >90% LSI
- No increase in symptoms with sport specific progressions and testing