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WEEK

# Iliopsoas Release

This protocol should be used as a guideline for progression and should be tailored to the needs of the individual patient.

- Weight bearing as tolerated use crutches to normalize gait.
  - May be needed for 2-4 weeks
- Gentle emphasis on passive extension exercises.
- Aggressive hip flexion strengthening delayed 6 weeks.
- Functional progression as tolerated.
- Resumption of full activities allowed as tolerated after 3 months.
  - · If patient has a capsular closure, extension is restricted for 3 weeks.
    - Modify protocol as necessary
- Always use pharmacologic prophylaxis against heterotopic ossification (unless contraindicated).

Quiz patient

### **PHASE**itlite and maintain immediately postop **Initial Exercise** (Weeks 1-3)



Seated knee extensions



Seated weight shifts

# PHASE 1: Initial Exercises (Weeks 1-3)



Ankle pumps



Hamstring sets



Glut sets



Adductor isometrics



Quad sets



Heel slides, active-assisted range of motion

#### WEEK 1

# PHASE 1: Initial Exercises (Weeks 1-3)



Log rolling



Double leg bridges



Pelvic tilt



Prone on elbows



Trunk rotation



Prone knee flexion

### WEEK 1

WEEK 1

## PHASE 1: Initial Exercises (Weeks 1-3)



Standing abduction without resistance



Standing flexion without resistance



Standing adduction without resistance



Standing extension without resistance



Pain dominant hip mobilization - grades I, II

#### Other Exercises Week 1

- Standard stationary bike without resistance at 3 days post-op (10 min. if tolerated)
- Upper body ergometer, upper body strengthening

# In Addition to Previous Exercises (Weeks 1-3)



Abduction isometrics



Superman



1/4 Mini squats



Theraband resistance on affected side – Abduction (start very low resistance)



Standing heel lifts



Theraband resistance on affected side – Adduction (start very low resistance)

# In Addition to Previous Exercises (Weeks 1-3)



Theraband resistance on affected side – Flexion (start very low resistance) ONLY IF TOLERATED



Theraband resistance on affected side – Extension (start very low resistance)

#### Other Exercises Week 2

- Wall mini-squats
- Physioball mini-squats with cocontraction
- Pool exercises (water walking, range of motion, march steps, lateral steps, backward walking, mini-squats, heel raises, hamstring and hip flexor stretches)

WEEK

3

### PHASE 1:

# In Addition to Previous Exercises (Weeks 1-3)





Stiffness dominant hip mobilization – grades III,  $\rm IV$ 

WEEK 3

## PHASE 1:

# In Addition to Previous Exercises (Weeks 1-3)



Double leg bridges to single leg bridges



Leg raise - Extension



Clamshells (pain-free range)



Shuttle leg press 90 degree hip flexion with cocontraction of adductors



Leg raise - Abduction



Dead bug

## PHASE 1: In Addition to Previous Exercises (Weeks 1-3)

#### WEEK 3



Quadriped 4 point support, progress 3 point support, progress 2 point



Seated physioball progression - hip flexion



Forward walking over cups and hurdles (pause on affected limb), add ball toss while walking



Lateral walking over cups and hurdles (pause on affected limb), add ball toss while walking

#### Other Exercises Week 3

- Continue stationary bike with minimal resistance 5 min. increase daily
- Active range of motion with gradual end range stretch within tolerance
- Leg raise Adduction
- Single leg sports cord leg press (long sitting) limiting hip flexion

#### Goals of Phase 1

- □ Restore range of motion
- □ Diminish pain and inflammation
- □ Prevent muscular inhibition
- □ Normalize gait

#### Criteria for progression to Phase 2

- □ Minimal pain with phase 1 exercises
- □ Minimal range of motion limitations
- □ Normalized gait without crutches

## **PHASE 2:**

# Intermediate Exercises (Weeks 4-6)





Standing theraband/pulley weight - Adduction

Crunches



Bosu squats



Standing theraband/pulley weight – Flexion



Standing theraband/pulley weight - Abduction



Standing theraband/pulley weight - Extension

## WEEKS **4-5**

# Intermediate Exercises (Weeks 4-6)



Single leg balance – firm to soft surface



Clamshells with theraband



Sidestepping with resistance (pause on affected limb), sports cord walking forward and backward (pause on affected limb)

#### **Other Exercises Weeks 4-5**

- Gradually increase resistance with stationary bike
- Initiate elliptical machine
- Pool water exercises flutterkick swimming, 4 way hip with water weights, step-ups

# PHASE 1:

Intermediate Exercises (Weeks 4-6)



Leg press (gradually increasing weight)



#### WEEKS **4-5**

# Intermediate Exercises (Weeks 4-6)





Physioball hamstring exercises – hip lift, bent knee hip lift, curls, balance



Superman on physioball – 2 point on physioball

#### Other Exercises Week 6

- Single leg balance firm to soft surface with external perturbation (ball catch, sports specific/simulated ex.)
- Knee extensions, hamstring curls

#### Goals of Phase 2

- $\Box$  Restore pain-free range of motion
- $\Box$  Initiate proprioception exercises
- Progressively increase muscle strength and endurance

#### Criteria for progression to Phase 3

- $\Box$  Minimum pain with phase 2 exercises
- $\Box$  Single leg stance with level pelvis

#### WEEK 6

WEEKS 7-8

## **PHASE 3:**

# Advanced Exercises (Weeks 7-8)



Step-ups with eccentric lowering



Side steps over cups/hurdles (with ball toss and external sports cord resistance), increase speed



Lunges progress from single plane to tri-planar, add medicine balls for resistance and rotation



Single leg body weight squats, increase external resistance, stand on soft surface



Theraband walking patterns – forward, sidestepping, carioca, monster steps, backward, ½ circles forward/backward – 25 yds. Start band at knee height and progress to ankle height

#### Other Exercises Weeks 7-8

- Full squats
- Single stability ball bridges

#### Goals for Phase 3

- $\hfill\square$  Restoration of muscular endurance/strength
- □ Restoration of cardiovascular endurance
- □ Optimize neuromuscular control/balance/ proprioception

## PHASE 3: Advanced Exercises (Weeks 7-8)

#### Criteria for Progression to Phase 4

- □ Single leg mini-squat with level pelvis
- $\hfill\square$  Cardiovascular fitness equal to preinjury level
- □ Demonstration of initial agility drills with proper body mechanics

### WEEKS 9-11

# Sports specific training rehab clinic based progression



Single leg pick-ups, add soft surface

#### **Other Exercises Weeks 9-11**

- All phase 3 exercises
- Pool running (progress from chest deep to waist deep), treadmill jogging
- Step drills, quick feet step-ups (4-6 inch box) forward, lateral, carioca
- Plyometrics, double leg and single leg shuttle jumps
- Theraband walking patterns 1 rep of six exercises x 50yds, progress to band at knee height and ankle height

### PHASE 4:

PHASE 4:

#### WEEKS 12 & BEYOND

# Sports specific training on field or court

#### Other Exercises Weeks 12 & Beyond

- Running progression
- Sport specific drills
- Traditional weight training

#### Criteria for full return to competition

- $\hfill\square$  Full range of motion
- □ Hip strength equal to uninvolved side, single leg pick-up with level pelvis
- □ Ability to perform sport-specific drills at full speed without pain
- $\Box$  Completion of functional sports test



#### WEEKS 7-8