

# ENDOSCOPIC PROXIMAL HAMSTRING REPAIR REHABILITATION PROTOCOL Chase D. Smith, MD

#### Precautions:

- X-Act ROM Brace for 4-6 weeks (per physician recommendation)
- WBAT with crutches for 2-4 weeks (per physician)
- Avoid active hamstring strengthening/hamstring stretching

### I. Phase I – Acute Phase (weeks 0-6)

#### <u>Goals</u>:

Gradually improve weight bearing and ROM Diminish pain and inflammation Retard muscle atrophy and strength loss Enhance healing of repair

-Cryotherapy

-e-stim for pain/swelling

-Teach pt. to transfer safely

-Gait training; restore normal gait

#### Exercises:

- -Gentle hip flexor, quad, calf, hip adductor stretches
- -Quad sets
- -Ankle strengthening
- -Isometric hip abd/add
- -Initiate core stabilization exercises
- -ROM: Gradually increase hip flexion (with knee flexed)

### II. Phase II – Subacute Phase (Weeks 6-12)

<u>Goals</u>: Improve flexibility and ROM Enhance muscular strength and endurance Promote healing Control any inflammation and pain

-Modalities as needed Heat, ultrasound, ice -Soft tissue mobilization



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#### Exercises:

-Initiate isometric hamstring contractions (knee flexed to 45 degrees) -Progress to isotonic strengthening

-SLR's

-Knee extensions

-Backward lunges

-lateral step overs

-forward and backward step overs

-calf raises

-bridges

-wall squats

-lateral lunges

-leg press

-initiate proprioception drills

-iniitate pool exercises, pool running or alter g running(with physician

approval)

### III. Phase III – Dynamic Phase (Week 12-16)

<u>Goals</u>: Improve dynamic flexibility of hamstrings Normalize static flexibility Normalize muscular strength

### Exercises:

-active warm-up

-stretch all major LE muscle groups

-continue strengthening exercises listed above

-jogging on dry land

-Initiate light ballistic maneuvers when appropriate

-plyometric leg press

-plyometric front lunges

-scissor jumps

-scissor box jumps

-side to side box jumps

-skip lunges

-fast speed lateral step overs

-forward knee high running

-stretch after workout

-cryotherapy



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## IV. Phase IV – Sports specific and agility phase (Weeks 16 and beyond)

<u>Goals:</u> Normalize ballistic flexibility Normalize muscular strength and agility Gradual return to sports participation

#### Exercises:

- -Active warm-up
- -Stretch all LE muscles
- -Continue strengthening program
- -Continue selected ballistic drills
- -Initiate sport specific program
- -side shuffles
- -forward running
- -backward running
- -progress to sprints
- -running and cutting drills
- -gradually increase intensity of running (jog to run to sprint)
- -stretch following
- -gradual return to sports participation