

Rehabilitation Protocol: Proximal Hamstring Repair

Phase I:

- Brace: Locked per ROM below

0-6 weeks

- ROM:
- > Week 0-2: locked at 60 deg > Week 2-4: locked at 40 deg > Week 4-6: locked at 20 deg
- Weightbearing: Non-weightbearing with crutches & brace x6-8 weeks
- Precautions: Avoid hip flexion coupled with knee extension (hamstring stretch); Avoid unsafe surfaces and environments
- Exercises:
- -- Quad sets
- -- Ankle pumps
- -- Abdominal isometrics
- -- Passive knee ROM with no hip flexion during knee extension
- -- Scar mobilizations
- -- Upper body circuit training or upper body ergometer

Phase II:

1-12 weeks

- Brace: continue weeks 6-8, permitting full extension; then wean as tolerated
- ROM: Brace locked while weightbearing for weeks 6 & 7 of this phase; then unlock brace 0-90 while weightbearing prior to weaning out. While not weightbearing, 0-125 deg permitted beginning week 8 maintain full extension
- Weightbearing: advance to PWB 25%, then 50%, then continue progress until full WBAT. Wean off crutches once gait is normalized and non-antalgic
- Precautions: avoid dynamic stretching; avoid loading hip at deep flexion angles; no loading beyond 60 deg knee flexion; no impact or running
- Exercises: Do NOT exceed 60 deg knee flexion in loading
- -- Double leg partial squats
- -- Single leg balance
- -- Stationary bike
- -- Gait training
- -- Start hamstring light strengthening (avoid lengthened hamstring position ie hip flexion + knee extension) by working hip extension and knee flexion moments separately
- -- Isometric and concentric strengthening of hamstrings (heel slides, double leg bridge, standing leg extensions, physioball curls)
- -- Hip and core strengthening

Phase III:

- Brace: None

12-16 weeks - ROM: full

- Weightbearing: WBAT
- Exercises:
- -- Gradual progression in strengthening to lengthened hamstring position
- -- Light partial range eccentric strengthening

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- -- Swimming
- -- Initiate jogging but no sprinting
- -- Low velocity exercises

Phase IV: 8-12 weeks

- Brace: wean out of boot; lace up ankle brace in athletic shoes if having adequate strength and gait pattern
- ROM: full
- Weightbearing: WBAT - Strengthening/Exercises: > Maintain flexibility/ROM
- > Same as Phase III

Phase V:

- Brace: None >16 weeks
 - ROM: full
 - Weightbearing: WBAT
 - Exercises:
 - -- Single leg deadlifts with dumbbells
 - -- Single leg bridge curls on physioball
 - -- Nordic curls assisted
 - -- Progressing running
 - -- Hip and core strengthening
 - -- Sports specific drills
 - -- Prior to RTS require less than 10% side to side deficit on hamstring strength and functional testing

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