

Proximal Hamstring Repair Rehabilitation Protocol

<u>Postop</u>	<u>Goals</u>	<u>Precautions</u>	<u>Exercises</u>
Weeks 0-6 PT 1-2x/week HEP daily	Edema and pain control Protect surgical repair Light desensitization massage to the incision and posterior hip Scar massage Silicone patch over incision	Non-weight bearing with crutches x 6 weeks - Hip brace 0-2 wks: Flexion only 45° 2-4 wks: Flexion only 60° 4-6 wks: Flexion only 90° No active hamstring contraction No hip flexion with knee extended No active knee flexion against gravity Knee extension limited pending intra-operative tension of repair	<ul style="list-style-type: none"> - Pelvic tilts (5 sec holds x 20/day) - NMES c SAQ (1/2 bolster) with hip flexion less than 20° - Isometrics hip abduction/adduction/ER (5 sec holds x 10/day) - Quadriceps sets (4x 20 reps/day) - 5 Ankle pumps (20-30 reps/hour) - Begin passive ROM of the knee and hip at week 2. o not exceed 45° of hip flexion. Do not allow knee extension beyond the restrictions stated above and limited by the brace - Begin gentle AROM of the knee and hip at week 4. Do not exceed 45° of hip flexion. Do not allow knee extension beyond the restrictions stated above and limited by the brace. No active knee flexion against gravity.
Weeks 6-9 PT 2x/week HEP daily	Restoration of normal gait Weight-bearing progression to full weight bearing as tolerated Return to pain-free functional ADL	No hamstring strengthening exercises No hamstring stretching exercises	<ul style="list-style-type: none"> - Continue week 0-6 exercises - May begin active knee flexion against gravity (concentric) - Weight shifts - Straight leg raises or SAQ into SLR - Gentle quadruped rocking - Gentle stool stretches for hip flexion and adduction - Gluteus medius strengthening is progresses to isotonic in a side-lying position (clam-shells)
Months 3-4 PT 1-2x/week HEP daily	Return to unrestricted ADLs at home and work Hamstring strengthening		<ul style="list-style-type: none"> - Continue week 6-9 exercises - Begin hamstring flexibility exercises - Begin hamstring strengthening exercises <ol style="list-style-type: none"> 1. Begin with hamstring curls strengthening exercises with the patient standing with the hip help in a neutral position and the lower leg moving against gravity in pain-free arcs 2. Resistance is increases 1lb at a time as tolerated with emphasis on high reps (50 reps) and high frequency (4-5x/day)

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		<ul style="list-style-type: none"> 3. When able to move through full and pain-free knee flexion arc with 8-10lbs of high reps, can transition from standing to machine hamstring curls - Begin total leg and hip strengthening exercises <ol style="list-style-type: none"> 1. Quarter squats: begin bilateral and progress to unilateral 2. Heel raises: begin bilateral and progress to unilateral 3. Gluteus maximum strength exercises – progress from prone (heel pushes with knee flexed to 90° to hip extension with the knee flexed at 90° to hip extension with extended knee) to supine (bilateral to unilateral bridging) 4. Gluteus medius strengthening is further progressed to the upright position (hip hiking and multi-hip machine) 5. Patients can begin unilateral knee extension and leg press activities with light resistance and increase resistance as surgical hip tolerates - Balance and proprioception (Balance board → foam → dynadics)
<p>Months 5-9 HEP daily</p>	<p>Completion of a functional program for the patient's return to sport activity</p>	<ul style="list-style-type: none"> - Continue week 12 exercises - Perform advanced proprioceptive training - Closed kinetic chain hamstring exercise, such as advanced step downs, double to sing-leg Swiss ball hamstring curls, resisted incline hip extensions, Roman dead-lifts, and half to full squat progression with progressive resistance, can gradually be introduced - Low level plyometrics, such as jump rope, step lunges in multiple directions with progression to walking lunges, can be introduced - Patient may begin a light jogging progression - Return to sporting activities is typically allowed at 6-9 months post-operatively
<p><u>Progression Criteria to Return to Sport</u></p> <ul style="list-style-type: none"> - No pain with normal daily activities - Hip and knee range of motion within functional limits - Community mobility without pain - Hamstring strength is 75% of the contralateral side (concentric and eccentric) 		