

Gluteus Medius Repair/Trochanteric Bursectomy

Conservative Functional Rehab Protocol

Frequency of PT: 1x week for the first 8-10 weeks. At 10-12 weeks begin 2x per week for strengthening

Phase 1 (Weeks 0-6) Max protection phase; post op until cleared to begin WB progression by MD

Goals	 Protection of tendon repair, conservative vs accelerated protocol per MD Pain and edema control Normalize gait pattern while using brace; crutches Begin to normalize regional muscle activation; range of motion 	
Precautions	 Weight Bearing (WB): 20 lbs WB x6 weeks NO active abduction/internal rotation x6 weeks NO passive external rotation, adduction past neutral x6 weeks Brace worn when out of bed Monitor for symptoms of hip flexor tendinitis, synovitis Monitor for symptoms or history pelvic floor dysfunction Increased urinary frequency (>once/2 hours daily), stress or urge incontinence, buttock/coccygeal/ischial tuberosity pain that does not improve with standard orthopedic physical therapy approach 	
ROM/Manual Therapy	 Pain free physical therapist (PT) and partner assisted PROM Flexion limited to 90 degrees, abduction to tolerance NO active abduction; internal rotation (IR) NO passive ER, adduction past neutral to not stress the repair Scar tissue, surgical incision management to prevent adhesions Retrograde massage, regional soft tissue mobilization as needed Prone lumbar mobilizations as needed 	
Motor Control/ Neuromuscular Re-education	 0-4 weeks Pelvic tilts, hamstring/adduction isometrics, diaphragmatic breathing Gluteus maximus progression in prone, supine (glute squeezes) At 2 weeks: initiate ER/extension/Adduction isos at 50% max effort (supine or HL) MUST be pain free at surgical site 5-6 weeks Initiate supine marching progression if patient has no history of hip flexor tendinitis MUST be pain free at surgical site 	
Therapeutic Exercise	 Week 2-3 upright stationary bike within range of motion limitations x20 min daily Patients may complete this training 2x daily if tolerable Prone lying if required for hip flexor lengthening 	
Criteria for progression	 Normalized gait pattern within WB precautions, with AD Pain free PROM within limitations of the protocol 	



Goals	Successfully wean from assistive devices, brace			
	Pain free ADL function; normalized DL tasks in small range			
	Full passive ROM			
Precautions	Continue to monitor for symptoms of hip flexor tendinitis, trochanteric pain, synovitis, or			
	pelvic floor dysfunction			
	 Monitor for increased pain with ADLs, regress as indicated 			
	 NO single leg strength/high level impact act this time 			
Weight Bearing	-			
Progression	Pool walking highly encouraged, no side stepping!			
	Weight shifting for increased load on operative leg			
	• After 6 weeks, progress to WBAT with assistive device and 1 crutch for short distances.			
	After 1-2 weeks progress to 1 crutch in public, none at home. After another 5-7 days, FWB			
	in all settings			
	 Please leave this up to your discretion as the treating therapist Based on patient tolerance up timelines at this point! 			
	 Based on patient tolerance vs timelines at this point! 			
ROM/Manual	Progress PROM as tolerated			
Therapy	 Add passive hip ER/IR. Avoid extreme combined ROM or pain 			
петару	 Continue with scar tissue/soft tissue mobilization as indicated 			
	 Begin joint mobilizations of the hip as indicated 			
	 i.e. Hip inferior/lateral mobilizations, prone PA mobilizations 			
Motor Control/	Quadruped and tall kneeling rhythmic stabilization of hip deep rotators, core musculature			
Neuromuscular	Continue with light lumbopelvic strengthening			
Re-education	 Continue with hip flexor progression per patient tolerance (see appendix) 			
	Kneeling front planks			
	 NO side planks at this time due to high levels of gluteus medius activation 			
	• 8 Weeks: Prone rhythmic stabilization for ER/IR, beginning at 25% max effort			
	 Patient is prone with knee bent to 90 degrees, manual cues for IR/ER applied at 			
	ankle			
	8 Weeks: Hooklying BKFO no resistance			
	• Double leg balance tasks (i.e. Balance board tasks), split stance balance tasks			
	 NO single leg, tandem stance at this time due to high levels of gluteus medius 			
	activation/demand			
	 Week 10: begin gluteus medius isometrics with 10% MVC. Must be Pain free! 			
	 Begin in hooklying positions before completed against gravity 			
Therapeutic	6 weeks: quadruped rocking exercises			
Exercise	 Continued cardiovascular program via biking, initiate pool walking as indicated 			
	Standing hip flexion/extension, calf raises, HS curls with operative limb moving only (not			
	standing on operative limb)			
Criteria for	 Pain free, symmetrical passive range of motion and joint mobility 			
progression	Normalized gait pattern without assistive devices, no pain or Trendelenberg gait pattern			
	Pain free performance of ADLs			



Goals	 Continue to progress lumbopelvic and gluteal strength without pain 	
	 Increase tolerance to strength and endurance based tasks 	
Precautions	 Continue to monitor for symptoms of hip flexor tendinitis, trochanteric pain, synovitis, or pelvic floor dysfunction NO single leg strength/high level impact act this time 	
Manual Therapy	 Achieve and maintain full, multiplanar range of motion and lumbopelvic joint mobility Joint mobilizations, soft tissue mobilizations, dry needling as needed/determined by physical therapist Consider consult with pelvic floor therapist if indicated 	
Motor Control/ Neuromuscular Re-education	 Continue with gluteus medius isometrics Week 12+ progress to standing gluteal isometrics in small range, standing on non-operative limb Continue with double leg and tandem balance and strength tasks, progressing to kickstand positions at week 12. Must be pain free! Week 12+ double leg hip hinges progressing to kickstand deadlift positions 	
Therapeutic Exercise	 Cardiovascular training: continue biking for cardiovascular training Continue with core progression as indicated, please continue to hold on side planks due to repair size Continue with quadruped birddogs, add single leg bridges Week 12+ Leg press or double leg squats within tolerance Smaller range squats will have less demand on gluteus medius, begin with ¼ to ½ depth and progress over the course of 2-3 weeks (higher surface sit to stand) Week 12+ forward step ups, progressing to lateral step ups at week 14+ Week 12+ supine clamshell w/ light resistance Week 14+ multi-angle clams Start at 90 deg hip flex and decrease angle (increase hip ext) as able for increase glute med bias 	
Criteria for progression	 Walk 1 mile without insertional pain, Trendelenberg gait pattern Complete all strength training tasks without pain 	



Phase 4 (Week 14-20): Continued Strengthening to Progressive Overload

Goals	Continue to build strength, progressing into single leg positions
Precautions	 Continue to monitor for symptoms of hip flexor tendinitis, trochanteric pain, synovitis, or pelvic floor dysfunction NO plyometric tasks without passive testing as listed
Manual Therapy	 Maintain full, multiplanar range of motion and lumbopelvic joint mobility Joint mobilizations, soft tissue mobilizations, dry needling as needed/determined by physical therapist
Therapeutic exercise Neuromuscular Re-education	 Progressive hip ROM and stretching as indicated Progressive LE and core strengthening Initiate hip hikes in small range at weeks 16+. This is a higher demand gluteus medius exercise and must be pain free! Week 16+: begin kneeling planks if indicated Week 16-18: standing hip abduction (bilateral) Week 20+ side steps no resistance, progressing to resisted Increase dynamic balance demand as tolerated Cardiovascular training: begin elliptical as tolerated/desired
Criteria for progression	 Pass step down test (see appendix) with <2 errors

Phase 5 (Week 20+): Continued, high level strength training progressing to discharge

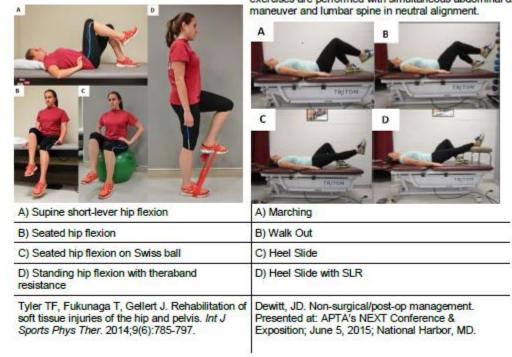
Goals	 Continue to build strength in single leg positions Initiate running progression if this is a goal 	
Precautions	Continue to monitor for symptoms of hip flexor tendinitis, trochanteric pain, etc	
Manual Therapy	Maintain full, multiplanar range of motion and lumbopelvic joint mobility	
Therapeutic exercise Neuromuscular	 Continue single limb strengthening Increase dynamic balance demand as tolerated Cardiovascular training: begin running once patient passes y-balance/step down tests 	
Re-education Criteria for progression	 Criteria for discharge Pass y-balance test Return to high level tasks per patient goals without pain 	



Appendix

Psoas progression/marching progression

Clinicians may choose either of the two iliopsoas strengthening progressions based on clinician/patient preference. All exercises are performed with simultaneous abdominal drawing in



Forward Step Down Test

Definition of errors		Interpretation of errors	
Arm strategy: subject uses an arm strategy in an attempt to recover balance (1 point) Trunk movement: trunk leans right or left (1 point) Pelvic plane: pelvis rotates or elevates on one side compared to the other (1 point) Knee position: knee deviates medially and the tibial		Good quality mechanics	
tuberosity crosses an imaginary vertical line over 2 nd toe (1 point); knee deviates medially and the tibial tuberosity crosses an imaginary vertical line over medial boarder of the foot (2 points) Balance: subject steps down on the uninvolved side or the subject's tested leg becomes unsteady (1 point)	2-3 errors	Medium quality mechanics	
	4+ errors	Poor quality mechanics	

Park K, Cynn H, Choung S. Musculoskeletal predictors of movement quality for the forward step-down test in asymptomatic women. J Orthop Sports Phys Ther. 2013;43(7):504-510.