

Medial Patellofemoral Ligament Reconstruction with Tibial Tubercle Osteotomy

MAYO

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Phase	Goals	Precautions/Restrictions	Treatment
Weeks 0-6	 Manage swelling and pain Protect surgical site Achieve quadriceps/hamstring/glute activation Symmetric knee extension by week 2 Moderate irritability of knee (wks 0-2) Swelling is improving <5/10 pain Low irritability of knee (wks 2-6) Minimal swelling with activities <2/10 pain 	 Weight bearing (heel to flat) Weeks 0-6 TWB Locked in extension while WB Ambulate with crutches and brace ROM restrictions: 0-90 knee flex AAROM to AROM PASSIVE knee extension only 	 PRICE Quadriceps/hamstring, glute activation should be emphasized Ankle: range of motion and strength Cryotherapy/Modalities as indicated Initial visit: FOTO, LEFS, PRO OKC strengthening: Hip: all planes of motion Ankle: all planes of motion Week 6: FOTO, LEFS, PRO
Weeks 6-8	 Full AROM by 8 weeks Restore strength of quadriceps, hamstrings, hips 	 Progress to WBAT beginning at wk 6 pending x-ray and MD visit; wean from crutches as able Discontinue brace with adequate quad control Avoid excessive loading of anterior knee (no patellofemoral pain) No impact (running, cutting, pivoting) 	 Begin active knee extension as tolerated Normalize gait Initiate CKC exercises Stationary bike Cryotherapy/Modalities as indicated Week 8: FOTO, LEFS, PRO
Weeks 8-12	 Ambulate community distances by 12 weeks without assistive devices No effusion in knee Restore total leg strength 	 Avoid loaded range of motion (>90°) No impact (running, cutting, pivoting) 	 Progress CKC into greater ROM (<90°), single leg, multi-planar, and with resistance as tolerated Initiate proprioceptive training Initiate pool if accessible Week 12: FOTO, LEFS, PRO Can begin medial/lateral patellar mobilizations
Weeks 12-16	 Preparation for more advanced exercise/activity Normalize asymmetries 70% symmetry with isokinetic quad strength testing 	 Avoid loaded range of motion (>90°) Proper exercise form and control during exercise performance No impact (running, cutting, pivoting) 	 Progress strength, endurance, and proprioception Advance cardiovascular conditioning Elliptical trainer Week 16: SGYM with testing Y- balance Body weight single leg press Humac testing (90/180 deg/sec) FOTO, LEFS, PRO
Weeks 16+	 Begin impact training once cleared by MD (jumping, running etc.) Unrestricted return to activity (Months 6-9) 	 Avoid running/jumping on a painful or swollen knee Avoid cutting, pivoting, and high intensity plyometrics until wk 20 Proper form and control during exercise performance 	 Can begin loading beyond 90° as tolerated Can begin linear jogging and light impact Avoid cutting, pivoting until week 20 Anticipated final visit: SGYM with testing Y- balance Humac testing (90/180 deg/sec) Single leg vertical jump Single leg hops: for distance, triple hop FOTO, LEFS, PRO

Each patient's progress may vary based on specifics to their injury and procedure.



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