

Patellar and Quadriceps Repair/Augmentation Rehabilitation Protocol

Contact MD regarding specific patient restrictions and limitations

Phase	Goals	Precautions/Restrictions	Treatment
Weeks 0-3	 Protect surgical site PRICE principles ROM: 0-30 degrees Reduce muscle atrophy Reduce swelling Decrease pain and inflammation 	 ROM: 0-30 degrees with surgeon approval Active flexion, passive extension TWB with the knee in full extension using crutches. Brace must be on at all times, locked in extension when weight bearing Allograft use will slow progression (contact surgeon for restrictions) 	 PRICE Cryotherapy: 5-7 times per day Compression with TubiGrip/TEDS ROM: limited to 0-30 deg: Supine knee extension with towel under ankle Patella mobilizations Quadriceps recruitment Global LE isometric/proximal hip strengthening Gait training with crutches Cardio: Upper body ergometer Initial Visit: FOTO, LEFS
Weeks 3-6	 Protect surgical site Price principles ROM: 0-60 degrees Reduce atrophy/progress strengthening Reduce swelling Progress weight bearing SLR without extensor lag 	 ROM: 0-60 degrees Active flexion, passive extension Progress to WBAT at 6 weeks Brace must be on at all times, locked in extension when weight bearing Avoid painful activities/exercises 	 Gait training from to WBAT Core stabilization exercises Global LE strengthening SLR in all planes Double limb weight shift/balance/proprioception Cardio: Upper body ergometer Week 6: FOTO, LEFS
Weeks 6-9	 ROM: 0-90 degrees Wean from crutches with brace unlocked from 30-490 degrees Initiate functional LE strength with quad activation in weight bearing 	 ROM: 0-90 degrees Active flexion, passive extension Brace only worn while weight bearing Avoid painful activities/exercises 	 Aerobic training UBE and UE circuit Increase loading capacity for lower extremity strengthening exercises 0-40 degree knee flex maximum with all weight bearing activity Continue balance/proprioceptive training Core strength OKC strength all planes Week 9: FOTO, LEFS
Weeks 9-16	 Full ROM Normalize gait Discontinue brace Functional strengthening 	 Progressive ROM Active extension Avoid impact of involved LE No eccentric training of involved LE 	 Walking drills Initiate stretching as needed Progress as tolerated: ROM, CKC strength, Endurance, Proprioception/Balance Cardio: Stationary bike, elliptical Week 12: FOTO, LEFS

This protocol is not meant to be prescriptive but a recommendation to guide the rehabilitation process. Each patient's progress may vary based on specifics of their injury and procedure.

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Phase	Goals	Precautions/Restrictions	Treatment
Weeks 16+	 Initiate increased impact and dynamic activity with surgeon approval Correct asymmetries between LEs Return to sport/recreational activity 	 Impact activity with surgeon approval No running with knee effusion Avoid faulty mechanics during movement Initiate sport specifics with surgeon approval Post activity soreness resolution within 24 hours 	 Initiation of power activity Sport specific movements when allowed Core strength Agility/footwork when allowed Cardio: Sport specific energy system training Week 16: FOTO, LEFS

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