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REHABILITATION GUIDELINES FOR MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION

PHASE I (0-2 WEEKS) DATES:

Appointments	Physical therapy 2 x/week • MD visit at 7-10 days post op for stitch removal
Rehabilitation Goals	 Restore full passive knee extension Diminish joint swelling and pain Gradually improve knee flexion Re-establish quad control
Precautions	 WB: WBAT two crutches Brace: Locked at 0 for ambulation, otherwise 0-30 degrees flexion Sleep with brace locked in full extension PROM 0-30 degrees flexion Soft tissue mobilization of distal ITB, lateral retinaculum Swelling control measures Patellar mobilizations: avoid lateral glides
Suggested Therapeutic Exercises	 Ankle pumps Knee extension overpressure AROM and PROM for flexion for 30 degrees Quad sets Prone extension hang Weight shifting (brace locked) Heel raises (brace locked) NMES for quad sets to diminish inhibition
Cardiovascular Exercises	No lower extremity cardio at this time

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Progression Criteria	Full passive knee extensionKnee flexion 0-30

PHASE II (2-6 WEEKS) DATES:

Appointments	Continue physical therapy 2 x/week • MD visit at 6 weeks post op
Rehabilitation Goals	 Full passive knee extension Full active quad contraction with superior patellar glide Gradually improve knee flexion Patient is able to tolerate FWB with brace locked at 0 degrees without pain
Precautions	Brace: - After post op MD visit and sutures are out: - Locked at 0 for ambulation and weight bearing exercises; otherwise 0-90 degrees flexion - AROM/PROM 0-90 degrees flexion - continued emphasis on extension - Continue avoiding lateral glides
Suggested Therapeutic Exercises	 Continue with above exercises Continue with NMES if needed Heel slides to 90 degrees flexion ITB stretching Single leg balance locked in brace, heel raises locked in brace 4 way SLR (flexion, adduction, abduction, extension) Bridges with feet on ball
Cardiovascular Exercises	No lower extremity cardio at this time
Progression Criteria	 Full passive knee extension Full active quad contraction with superior patellar glide Gradually improve knee flexion Patient is able to tolerate FWB brace locked at 0 degrees without pain

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PHASE III (6-12 WEEKS)	DATES:
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Appointments	Continue physical therapy 2 x/week • MD visit at 12 weeks post op
Rehabilitation Goals	 Restore full knee ROM Wean off of crutches and brace Restore normal gait pattern Gradually improve ADLs and strength
Precautions	Bike to start strengthening and improve ROM, gradually lower seat as ROM allows
Suggested Therapeutic Exercises	 Mini squats and lunges Hamstring curls with light weights Heel raises Step ups/lateral step downs Single leg balance Lateral steps
Cardiovascular Exercises	Stationary bikeWalking
Progression Criteria	 Full knee ROM Normal gait pattern without assistive device Improving functional strength

PHASE IV (12-18 WEEKS) DATES:

Appointments	Continue physical therapy 1-2 x/ week
Rehabilitation Goals	 Full ROM Normal patellofemoral mobility Patient demonstrates normal mechanics with CKC exercises

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Precautions	None at this time
Suggested Therapeutic Exercises	 Controlled sports start such as jogging inline Continue with above exercises and progress with proprioception and agility, leg press, leg curls, deadlifts, core strength Can start more sport specific training at 4 months
Cardiovascular Exercises	Bike Inline jogging
Progression Criteria	 Return to sport at 6 months if : Quadriceps and hamstring strength at least 90% of unaffected leg Able to return to sport per return to sport test

References:

Fisher, Brent M.D. Medial Patellofemoral Ligament Reconstruction for Recurrent Patellar Dislocation: A Systematic Review Including Rehabilitation and Return to Sports Efficacy; *Arthroscopy: The Journal of Arthroscopic and Related Surgery 2010*

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