PROTOCOL MPFL RECONSTRUCTION

	Approxi- mate Time Frame (Weeks)	Activity		Goals
PHASE I	0-2	WB Status: PWB 50% x2-4 weeks Brace: Locked 0/0 knee extension for 6 weeks ROM: No knee ROM x2 weeks* Manual: patella mobilization superior and inferior, gentle STM to reduce edema, soreness, stiffness above/below knee PRN Exercise: Quad sets (w/NMES PRN) Gait training	◇◇◇	Control inflammation Minimize DVT risk Full knee extension Normalize superior/inferior PF mobility Normalize gait with crutches
	2-4	WB Status: PWB—FWB (wean off crutches) ROM: 30° knee flexion, progress 30°/week * Exercise Progression: Heel slides for ROM SLR series, calf raises	♦♦	Control inflammation Full knee extension/ hyperextension Progress off crutches
	4-6	WB Status: FWB Brace: Locked 0/0 knee extension until week 6 ROM: 30° knee flexion/week, 90° by week 6* Manual: patella mobilization superior and inferior, gentle STM to reduce edema, soreness, stiffness above/below knee PRN Exercise Progression:	◇◇	90° knee flexion by week 6 Full knee extension/ hyperextension Minimal effusion
PHASE II	6-8	Brace: Continue 0/0 until week 6—progress out over 2 weeks ROM: 0-120° - progress as tolerated Exercise progression: • Multiplane OKC and CKC hip strengthening • Proprioception drills • Step up progression, 0-30 squat Cardiovascular: • Stationary bike/outdoor walking • Deep water pool (when incisions healed)	♦	Progress out of brace Normalize gait Minimize swelling, PF pain Full knee extension Knee flexion >120° Muscular endurance pro- gressing into strength
	8-10	ROM: Full ROM Exercise Progression: CKC squat progression/leg press progression Cardiovascular: Progress intensity of stationary bike Add elevation to treadmill walking and elliptical Advance intensity of deep water pool program—endurance training	♦	Reduce inflammation Full ROM Normalize PFJ and scar mobility

*Defer to physician orders on POM if differen

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PHASE III	10-12	Manual: PRN to address ROM deficits/PF pain. Mobilize scars Exercise progression: Squat progression—progress as tolerated with focus on swelling and pain Increase LE flexibility Controlled movement series	 Full knee flexion and extension with terminal stretch Increase muscular endurance
	12-16	 Exercise progression: Conservative Gym Program (avoid leg extension 30-0 and lunges due to stress on PFJ) Lateral lunge progression—week 12-16 Maximize proprioception and stability Cardiovascular: Outdoor biking—week 12 Swimming freestyle—week 12 Shallow water pool running/Alter G running—week 12 Backward elevated treadmill walking—week 16 	 ◇ Progressive strengthening ◇ Control swelling with increasing loads To begin jogging progression: ◇ 75% LSI of quad strength ◇ Single leg squat x 90 sec > 75% LSI
PHASE IV	16-20	 Exercise progression: Progress resistance with squat program Linear running progression Ladder series Basic Plyometric box progression 	 ◇ Fit functional brace ◇ Increase muscular strength, endurance and power ◇ Minimal PF pain with progression ◇ Establish RTA
	20-24	Return to Sport and Functional Drills: Interval Golf program Advance ladder, hurdle and plyometric box progressions Sport specific field/court drills with brace on Non-contact drills RTS test for competition at 6+ months	 ◇ Reconditioning for sport demands ◇ Correct faulty movement with high level tasks ◇ Emphasize both limbs for injury prevention ◇ RTS test at 6 months ◇ Quad strength >90% LSI