

□ Wean out of brace□ Normalize gait pattern□ Restore full ROM

☐ Gradual step up progression

☐ Gradual bilateral closed chain progression

MPFL RECONSTRUCTION WITH CARTILAGE Physical Therapy & Strength and Conditioning Chad Broering, M.D.

	PHASE I – Maximum Protection (Weeks 0 to 6)
Weight	ing bearing as tolerated with brace locked in full extension for 6 weeks
Week 0	0-2
	Reduce inflammation
	Normalize patella mobility with manual mobilizations
	Begin submaximal quadriceps activation
	0-30 degrees knee flexion
	CPM 0-30 8 hours daily
Weeks	2-4
	Reduce inflammation
	Continue patellar mobilizations
	Range of motion 0-60 degrees
	Continue submaximal quadriceps activation
	Isometric hamstring/groin exercises
Weeks	4-6
	Range of motion 0-90 degrees
	Begin straight leg raises
	Continue isometric hamstring/groin exercises
	Open chain hip strengthening
	PHASE II – Progressive Range of Motion and Early Strengthening (Weeks 6-12)
Weeks	6- 8:
	Open brace to 60° of flexion with weight bearing during week 6, 90° at week 7
	Continue with swelling control and patella mobility
	Gradually progress to full range of motion
	Normalize gait pattern
	Multi-plane straight leg raising and closed kinetic chain strengthening program
	Begin stationary bike
	Initiate shallow and deep water pool program
Weeks	8-10:

	Add light gym strengthening (leg press and hamstring curls)
Weeks	10-12:
	Full ROM
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	Add treadmill walking and elliptical trainer
	PHASE III – Progressive Strengthening (Weeks 12 to 16)
	Full ROM
	Advance closed chain and gym strengthening
	Increase intensity on bike, treadmill, and elliptical trainer
	Initiate shallow water pool running program
	PHASE IV – Advance Strengthening, Functional Drills (Weeks 16 to 20)
	Begin linear land based running program
П	Advance to lateral and rotational drills as tolerated
	Advance to lateral and rotational drins as tolerated
	PHASE V – Plyometric Drills, Return to Sport (Weeks 20 to 24)
	Advance gym strengthening
	Progress running/sprinting program
	Begin multi-directional field/court drills
	Begin bilateral progressing to unilateral plyometric drills
	Follow-up appointment with physician
	Sports test for return to competition 6 months post-op per physician's release