

Manoj P. Reddy, M.D.

Sports Medicine & Shoulder Surgery
Orthopedic Associates of Dallas
Rockwall | Dallas | Greenville
469.800.7200 office | 469.800.7210 fax
DallasOrtho.com
ReddyOrtho.com

MACI PATELLA/TROCHLEA WITHOUT OSTEOTOMY REHABILITATION PROTOCOL

	WEIGHT BEARING	BRACE	ROM	THERAPEUTIC EXERCISE
PHASE I 0 - 12 weeks	O-2 weeks Touchdown weight bearing, brace locked in full extension 2-4 weeks partial weight bearing (50%) brace locked in full extension 4-6 weeks Progress to full weight bearing and unlock brace 6-8 weeks Full weight bearing	0-2 weeks: locked in full extension (removed for CPM and exercise) *2-4 weeks: Locked at 0 open ambulating *4-6 weeks: Begin to open 20 to 30 owith ambulation - discontinue use after 6 weeks	0-2 weeks: CPM: use in 2 hour in- crements for 6 - 8 hours per day - begin at 0-30°-1 cycle/minute - after week 3, increase flexion by 5 - 10° daily 2-4 weeks gain 0-90° 4-6 weeks	1-4 weeks: Quad sets, SLR, hamstring isometrics - complete exercises in brace if quad control is inadequate 4-10 weeks: begin isometric closed chain exercises - at 6-10 weeks, may begin weight shifting activities with involved leg extended if full weight bearing - at 8 weeks begin balance activities and stationary bike with light resistance 10-12 weeks: hamstring strengthening, theraband 0-30 resistance, light open chain knee isometrics
PHASE II 12 weeks - 6 months	Full with a normalized gait pattern	None	gain full ROM Full range of motion	Begin treadmill walking at a slow to moderate pace, progress balance/proprioceptive activities, initiate sport cord lateral drills
PHASE III 6 - 9 months	Full with a normalized gait pattern	None	Full and pain-free	Advance closed chain strengthening, initiate unilateral closed chain exercises, progress to fast walking and backward walking on treadmill (initiate incline at 8-10 months), initiate light plyometric activity. Begin Running
PHASE IV 9 - 18 months	Full with a normalized gait pattern	None	Full and pain-free	Continue strength training - emphasize single leg loading, begin a progressive running and agility program - high impact activities may begin at 16 months if pain-free

^{*}Most trochlear/patellar defect repairs are performed in combination with a distal realignment procedure, and thus weight bearing is restricted for the first 4-6 weeks to protect the bony portion of the distal realignment during healing

NOTE: Post-operative stiffness in flexion following trochlear/patellar implantation is not uncommon and patients are encouraged to achieve 90 of flexion at least 3x/day out of the brace after their first post-op visit (day 7-10)

^{**}May consider patellofemoral taping or stabilizing brace if improper patella tracking stresses implantation

^{***}If pain or swelling occurs with any activities, they must be modified to decrease symptoms