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## MACI PATELLA/TROCHLEA WITH OSTEOTOMY REHABILITATION PROTOCOL

	WEIGHT BEARING	BRACE	ROM	THERAPEUTIC EXERCISE
PHASE I 0 - 12 weeks	<b>0-6 weeks</b> Non-weightbearing	0-2 weeks: locked in full extension (removed for CPM and exercise) 2-4 weeks: Unlocked	0-2 weeks: CPM: use in 2 hour in- crements for	<b>1-4 weeks</b> : Quad sets, SLR, hamstring isometrics - complete exercises in brace if quad control is inadequate
	<b>6-8 weeks</b> Advance to weight	0-90 °	6 - 8 hours per day - begin	<b>4-10 weeks</b> : begin <i>isometric</i> closed chain exercises - at 6-10
	bearing as tolerated discontinue crutches	6-8 weeks: Unlocked	at 0-30 ° - 1 cycle/minute -	weeks, may begin weight shifting activities with involved leg extended
		8 weeks Discontinue use	after week 3, increase flexion by 5 - 10° daily 2-4 weeks gain 0-90 ° 4-6 weeks gain full ROM	if full weight bearing - at 8 weeks begin balance activities and stationary bike with light resistance  10-12 weeks: hamstring strengthening, theraband 0-30 oresistance, light open chain knee isometrics
PHASE II 12 weeks - 6 months	Full with a normalized gait pattern	None	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

<sup>\*</sup>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)

<sup>\*\*</sup>May consider patellofemoral taping or stabilizing brace if improper patella tracking stresses implantation

<sup>\*\*\*</sup>If pain or swelling occurs with any activities, they must be modified to decrease symptoms