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Osteochondral Allograft Transplantation (OCA) of the Knee (Medial or Lateral Femoral Condyle) Protocol

	Weight-baring	Brace	Range of Motion	Exercises
Phase 1 0-6 weeks	Heel touch only	0-2 weeks: Locked in full extension at all times Off for hygiene and home	CPM 6 hours/day; begin 0-40° and advance 5-10° daily as tolerated	Calf pumps, patellar mobilization, quadriceps tightening sets and SLR in brace
		exercise only Discontinue after 2 weeks	Gentle passive 0-90°	2-6 weeks: Add side-lying hip and core, advance quadriceps, and hamstring sets
Phase 2	Advance 25% weekly	None	Full	Advance core work with hip, gluteal and core strengthening
6-8 weeks	and progress to full with normalized gait pattern			
Phase 3 8-12 weeks	Full	None	Full	Gait normalization with closed chain activities: wall sits, shuttle, minisquats, toe raises
				Advance core work with hip, gluteal and core strengthening
				Begin unilateral stance activities and balance training
Phase 4	Full	None	Full	Progress Phase III exercises and
3-6 months				functional activities: walking lunges, planks, bridges, Swiss ball, half-Bosu exercises
				Advance core work with hip, gluteal and core strengthening

				May advance to bike, elliptical, pool as tolerated			
Phase 5	Full	None	Full	Advance non-impact activity			
6-12 months				No running, jumping, pivoting, or sports participation unless cleared by MD (after 8 months)			
CPM – continuous passive motion machine; SLR – Straight-leg raise							