Osteochondral Allograft Transplantation (OAG) and High Tibial Osteotomy (HTO) Rehabilitation Protocol

	Weight-bearing	Brace	Range of Motion	Exercises
Phase 1 0-2 weeks	Heel touch only	Locked in full extension at all times	Gentle passive 0- 90°	Calf pumps, patellar
				mobilization, quadriceps
		Off for hygiene and home exercise only	CPM 6 hrs/day; begin 0-40° and advance 5-10° daily as tolerated	tightening sets and SLR in
				brace at home
Phase 2 2-8 weeks	2-6 weeks: Heel touch only	2-6 weeks: Unlocked 0-90° Discontinue brace at 6 weeks		2-6 weeks : Add side-lying hip and core, advance quad set and stretching
	6-8 weeks: Advance 25% weekly and progress to full with normalized gait pattern			6-8 weeks : Addition of heel raises, total gym (closed chain), gait normalization, eccentric quad sets, eccentric hamstring sets.
				Advance core work with hip, gluteal and core strengthening
Phase 3 8-12 weeks	Full	None	Full	Progress closed chain activities.
				Advance hamstring exercises, proprioception & balance exercises, lunges & leg press 0- 90° only
				Advance core work with hip, gluteal and core strengthening
				Begin Stationary Bike at 10 weeks
Phase 4 3-6 months	Full	None	Full	Progress Phase III exercises and functional activities: walking lunges, planks, bridges, Swiss ball, half-Bosu exercises
				Advance core work with hip, gluteal and core strengthening
Phase 5 6-12 months	Full	None	Full	Advance non-impact activity. No running, jumping, pivoting, or sports participation unless cleared by MD

CPM – continuous passive motion machine; SLR – Straight-leg raise;