

## Osteochondral Allograft Transplantation (OAG) and Meniscal Allograft Transplantation (MAT) 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 0-90°	tightening sets and SLR in
				brace at home
Phase 2 2-8 weeks	2-6 weeks: Heel touch only	2-8 weeks: Unlocked 0-90° Off at night for sleeping	Advance as tolerated w/ caution during flexion >90° to protect post horn of meniscus	<b>2-6 weeks</b> : Add side-lying hip and core, advance quad set and stretching <sup>a</sup>
	6-8 weeks: Advance 25% weekly and progress to full with normalized gait pattern	Discontinue brace at 8 weeks		<b>6-8 weeks</b> : Addition of heel raises, total gym (closed chain), gait normalization, eccentric quads, eccentric hamstrings.
				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 <b>0</b> - <b>90° only</b>
				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; <sup>a</sup>Avoid any tibial rotation for first 8 weeks to protect meniscus

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