



Brian Waterman M.D.
ORTHOPEDIC SURGERY

**COMBINED OSTEOCHONDRAL ALLOGRAFT
MENISCAL ALLOGRAFT TRANSPLANTATION
HIGH TIBIAL OSTEOTOMY
REHABILITATION PROTOCOL**

	WEIGHT BEARING	BRACE	ROM	EXERCISES
PHASE I 0-2 weeks	Heel-touch only	Locked in full extension at all times* Off for hygiene and home exercise only	Gentle passive 0-90° CPM 0-90°	Heel slides, quad sets, patellar mobs, SLR, calf pumps at home
PHASE II 2-8 weeks	2-6 weeks: Heel-touch only 6-8 weeks: Advance 25% weekly until full	2-6 weeks: Locked 0-90° Discontinue brace at 6 weeks	Advance as tolerated w/ caution during flexion >90° to protect post horn of meniscus	2-6 weeks: Add side-lying hip and core, advance quad set and stretching** 6-8 weeks: Addition of heel raises, total gym (closed chain), gait normalization, eccentric quads, eccentric hamstrings Advance core, glutes and pelvic stability
PHASE III 8-12 weeks	Full	None	Full	Progress closed chain activities Advance hamstring work, lunges/leg press 0-90° only, proprioception/balance exercises Begin stationary bike
PHASE IV 12-24 weeks	Full	None	Full	Progress Phase III exercises and functional activities: walking lunges, planks, bridges, swiss ball, half-bosu exercises Advance core/glutes and balance
PHASE V 6-9 months	Full	None	Full	Advance all activity w/o impact such as running, jumping, pivoting, sports until cleared by MD

*Brace may be removed for sleeping after first post-operative visit (day 7-14)

**Avoid any tibial rotation for 8 weeks to protect meniscus

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