

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

	Weight-bearing	Brace	Range of Motion	Exercises
<b>Phase 1</b> 0-2 weeks	Heel touch only	Locked in full extension at all times  Off for hygiene and home exercise only	As tolerated, non weight bearing goal 0- 90° @ first post-op visit	Calf pumps, patellar mobilization, quadriceps tightening sets and SLR in <b>brace</b> at home
<b>Phase 2</b> 2-8 weeks	<b>2-6 weeks:</b> Heel touch only  <b>6-8 weeks:</b> Wean off crutches and progress to full with normalized gait pattern	<b>2-6 weeks:</b> Unlocked 0-90°  Discontinue brace at 6 weeks once normal gait achieved	Main full extension and progress flexion	<b>2-6 weeks:</b> Add side-lying hip and core, advance quad set and stretching  <b>6-8 weeks:</b> 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
<b>Phase 3</b> 8-12 weeks	Full	None	Full	Progress closed chain activities.  Advance hamstring exercises, proprioception & balance exercises, lunges & leg press <b>0-90° only</b>  Advance core work with hip, gluteal and core strengthening  Begin Stationary Bike at 10 weeks
<b>Phase 4</b> 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
<b>Phase 5</b> 6-12 months	Full	None	Full	Advance non-impact activity. No running, jumping, pivoting, or sports participation unless cleared by MD

SLR – Straight-leg raise;