

# Osteochondral Autograft Transplantation (OAT) of the Knee (Medial or Lateral Femoral Condyle) Rehabilitation Protocol

	<b>Weight-bearing</b>	<b>Brace</b>	<b>Range of Motion</b>	<b>Exercises</b>
<b>Phase 1</b> 0-2 weeks	Weight bearing as tolerated	<b>0-2 weeks:</b> Locked in full extension at all times  May unlock for ambulation when able to perform a straight leg raise and range painless from 0-90°  Discontinue after 2 weeks	CPM 6 hrs/day; begin 0-50° and advance 10° daily as tolerated	Calf pumps, patellar mobilization, quadriceps tightening sets and SLR  Add side-lying hip and core, advance quadriceps and hamstring sets  Advance core work with hip, gluteal and core strengthening
<b>Phase 2</b> 2-6 weeks	Full	None	Full	Gait normalization with closed chain activities: wall sits, shuttle, mini-squats, toe raises.  Advance core work with hip, gluteal and core strengthening Begin unilateral stance activities and balance training
<b>Phase 3</b> 6-12 weeks	Full	None	Full	Progress Phase II exercises and functional activities: walking lunges, planks, bridges, Swiss ball, half-Bosu exercises  May advance to bike, elliptical, pool as tolerated.
<b>Phase 4</b> 3-6 months	Full	None	Full	Advance core work with hip, gluteal and core strengthening  Advance non-impact activity.  No running, jumping, pivoting, or sports participation unless cleared by MD (after 3-4 months)

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