Post-operative Rehabilitation Protocol

<u>Tibial Tubercle Osteotomy (TTO)</u>

General Guidelines	 You will be touch dow Rest, ice, compressio No running or impact 			
	Range of Motion	Brace	Exercises	
Phase 1 – Early protection Weeks 0 - 6	Okay for passive and active- assisted ROM 0 – 90° Touch down weight bearing only	0-2 wks: Locked in extension full time and for sleeping. Okay to remove for CPM and PT 2-6 wks: Brace unlocked	<u>Exercises</u> : Quad sets, ankle pumps At 2 weeks, okay to begin floor-based core, hip and glute work and patellar mobs <u>CPM</u> : Begin at 0-30° \rightarrow May advance 5° each day as comfortable. Do not exceed 90° unless otherwise directed by MD	
Phase 2 – Early Loading Weeks 6 - 12	Progress to full Active ROM Add 25% weight bearing every 3-4 days until full WB at 8 weeks.	Wean out of brace once good quad control	<u>Exercises</u> : Begin stationary bike at 6 weeks. Once normalized, pain-free gait → begin balance exercises, mini squats.	
Phase 3 – Strength Weeks 12 - 16	Full, pain-free ROM	None	<u>Exercises</u> : Progress strengthening. Begin single leg strengthening/balance. Add elliptical at 12 weeks. Advance bike resistance. Build walking endurance	
Phase 4 – Resume activities Weeks 16 - 24	Full, pain-free ROM	None	Progress phase 3 exercises. Focus on core/glutes. Progress single leg dynamic and static balance and strength. Light plyometrics	
Phase 5 – Return to Sport Weeks 24+	Full, pain-free ROM	None	May begin light jogging at 6 months post-op if no pain or swelling and cleared by MD. Sport-specific training.	

