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. | |

