



## **TIBIAL TUBERCLE OSTEOTOMY (TTO) WITH MEDIAL PATELLOFEMORAL LIGAMENT (MPFL) RECONSTRUCTION PROTOCOL**

**Name:** \_\_\_\_\_

**Diagnosis:** \_\_\_\_\_

**Date of Surgery:** \_\_\_\_\_

**Frequency:** 1 2 3 4 times / week      **Duration:** 1 2 3 4 5 6 Weeks

\_\_\_\_ Weeks 0---2:

- Heel---touch weight bearing with crutches with brace locked in extension
- NO active knee extension; PASSIVE EXTENSION ONLY from 0---45 degrees with brace on
  - Active knee flexion/hamstrings ok
- Brace set from 0---45 degrees and wearing at all times except for personal hygiene
- Heel slides, quad sets, patellar mobs, ankle pumps

\_\_\_\_ Weeks 3---6:

- Continue heel---touch weight bearing and exercises from weeks 0---2
- NO active knee extension, PASSIVE EXTENSION ONLY may be increased from 0---90 degrees
  - Active knee flexion/hamstrings ok
- Straight leg raise in brace with brace locked in full extension
- Focus on regaining full extension; brace may be removed at night
- Begin floor---based core, hip, gluteal work; advance quad sets and patellar mobs

\_\_\_\_ Weeks 7---8:

- D/c brace and crutches as tolerated
- Advance weight bearing (25---50%/week) with goal of full weight bearing by 8 weeks
- Advance PROM → AAROM → AROM unrestricted with goal of full ROM by 8 weeks
- Stationary bike and straight leg raises; advance core/glut/hip work
- Begin closed chain quads, progress balance

\_\_\_\_ Weeks 9---16:

- Progress flexibility and strengthening; continue functional balance, core/glut program
- Progress closed chain quad program
- Advance bike work after 12 weeks; elliptical and swimming allowed at 14 weeks

\_\_\_\_ Months 4+:

- Impact activity progression allowed (Alter---G/pool running → normal jogging)
- Maximize single leg dynamic and static balance
- Gluteal/pelvic stability/core and closed chain quadriceps program with transition to HEP
- Sport specific training once cleared by MD

Signature \_\_\_\_\_

Date: \_\_\_\_\_