



Rehabilitation Protocol: Tibial Plateau Fracture Repair

Phase 1 (Weeks 0-2)

- Weightbearing: Non-weightbearing with crutches/walker
- **Hinged Knee Brace:** Wear full-time (hinges set for motion 0-90°)
 - o Locked in full extension on the day of surgery, then the hinge should remain unlocked
- Range of Motion:
 - o Active and Active-Assist knee ROM. Emphasize maintaining knee extension.
 - Active/Passive ankle ROM.
- Therapeutic Exercises
 - o Quad/Hamstring isometrics, heel slides, straight leg raises, co-contractions
 - o Patellar Mobilizations

Phase 2 (Weeks 2-8)

- **Weightbearing:** Non-weightbearing with crutches/walker
- **Hinged Knee Brace:** Set hinges for unrestricted range of motion 0-130°
 - o Worn for ambulation. Brace may be removed when at rest/sleeping.
- Range of Motion:
 - o Active, Active-Assist, and gentle Passive knee ROM
 - Active/Passive ankle ROM
- Therapeutic Exercises
 - o Continue Phase 1 exercises

Phase 3 (Weeks 8-10)

- Weightbearing: 50% Partial weightbearing with crutches/walker
- Hinged Knee Brace: Worn for ambulation only
- Range of Motion: Continue to work towards full knee ROM
- Therapeutic Exercises
 - o May begin light-weight leg presses and low-resistance stationary bicycle
 - Okay to begin blood flow restriction therapy

Phase 4 (From Week 10)

- **Weightbearing:** Advance to weightbearing as tolerated. Wean from crutches/walker.
- **Hinged Knee Brace:** Wean from brace for ambulation
- Range of Motion: Maximize knee ROM
- Therapeutic Exercises
 - o Begin elliptical trainer, treadmill, and high-resistance stationary bicycle
 - o Gradual return to jogging/running
- Return to sports/athletics once cleared by Dr. Gross