

Rehabilitation Protocol: Tibial Tubercle ORIF

Phase I:

0-1 week

- Brace: hinge knee brace, locked in extension while sleeping and at all times except when in therapy
- ROM: locked in extension
- Weightbearing: PWB in extension
- Exercises:
 - Patellar mobilization
 - Straight leg raise supine with brace locked at 0 degrees
 - Quad sets
 - Ankle pumps

Phase II:

1-6 weeks

- Brace: hinge knee brace full time. When weightbearing should be locked in extension.
- ROM: Progress as tolerated as follows-
- > Weeks 1-2: 0-30 deg
- > Weeks 2-3: 0-60 deg
- > Weeks 3-4: 0-90 deg
- > Weeks 4-6: advance as tolerated
- Weightbearing: PWB in extension
- Exercises:
 - Patellar mobilization
 - Straight leg raise supine with brace locked at 0 degrees
 - Quad sets
 - Ankle pumps

Phase III:

6-12 weeks

- Brace: unlock brace for ambulating weeks 6-8, then wean from brace as tolerated
- ROM: gradually normalize ROM, no limits, focus on maintaining full extension
- Weightbearing: full WBAT, may d/c from crutches when gait normalized
- Exercises:
 - Heel slides
 - AROM knee extension
 - Prone hangs
 - Terminal knee extensions
 - Side laying hip abduction
 - Begin short crank ergometry and progress to standard (170mm) ergometry (if knee ROM >115 deg)
 - Advance quad strengthening (closed chain)
 - Mini squats/weight shift

Phase IV:

3-6+ months

- Brace: None
- ROM: full, normal ROM
- Weightbearing: WBAT
- Exercises:
 - Leg press, squats

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- Initiate jogging/running
- Isotonic knee extensions (90-40 degrees, closed chain preferred)
- Agility exercises (sport cord)
- Versaclimber/Nordic track
- Normalize quad strength
- Modalities PRN
- Sport-specific exercises
- Return to sport-- MD directed

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