

POST-OPERATIVE REHABILITATION: QUADRICEPS TENDON REPAIR

Therapy Plan: Twice per week for 0-2 months, once per week for 2-4 months

ROM Progression

Brace locked in extension for 0-2 weeks for soft tissue healing.

Passive knee motion for 2-6 weeks after surgery with gentle progression as follows:

- 2-4 weeks: 0-45
- 4-6 weeks: 0-90
- 6-12 weeks: progress to full symmetric motion

Weight Bearing Progression

Initially 25% weight bearing 0-2 weeks after surgery

- Progress weight bearing over weeks 2-6 with the goal of removing crutches at 4-6 weeks
- Do NOT progress to one crutch - gait must be pain free and non-compensatory to remove both crutches
- Brace should remain in place for 6 weeks total

Initial Post-Operative Physical Therapy Visit

- Correctly perform 25% weight bearing ambulation with crutches/walker
- Instruct on quad sets and ankle pumps
- Isometric exercises for core

Phase 1 Physical Therapy (0-6 weeks): protect the joint, fracture healing

- NO open-chain exercises
- Manual therapy 20+ minutes per session, stationary bike 20-60 minutes/day (NO resistance)
- Soft tissue mobilization, patellar mobilization, isometric exercises, core strengthening
- Brace locked in extension for ambulation until full control, then may unlock

Phase 2 Physical Therapy (6-12 weeks): progressive strengthening

- Wean out of brace after 6 weeks
- Gradually progress weight bearing as above
- Tactile and verbal cueing to enable non-compensatory gait patterning
- Standing weight shifts, backward/lateral walking without resistance (NO pivoting)
- Soft tissue mobilization, patellar mobilization, isometric exercises, core strengthening

Phase 3 Physical Therapy (12-24 weeks): return to pre-injury level and sport

- Focus on functional exercises in all planes, advance only when fully controlled
- Advance closed-chain and core strengthening
- Proprioceptive training
- Full return may take 4-6 months or more