

Quad Tendon Repair/Unilateral Patellar Tendon Repair

Specifics

*If surgery was performed by Dr. VanThiel, please see www.orthoillinois.com/find-a-provider/geoffrey-s-van-thiel-md/therapy-protocols for therapy protocol.

Phase I (1 – 5 days post-op)

- Wound care: Monitor site for signs of infection
- Modalities: prn for pain and inflammation (ice, IFC, elevation)
- Brace: Hinged brace on and locked for all activities including sleeping for 6 weeks. Brace may be removed for bathing once surgical incision is healed.
- Gait:
 - Days 1-3: TTWB with crutches and brace locked in full extension
 - Days 4-7: WBAT with crutches and brace locked in full extension
- ROM:
 - Days 1-4: PROM 0-30 degrees
 - Days 4-7: 0-25 degrees NWB
- Exercises:
 - Quad/glute/hamstring sets and ankle pumps
 - Begin gentle patellar inf/sup and med/lat glides
 - Days 4-7: initiate gravity eliminated SLR flexion (assisted as needed)

Phase II (5 days – 4 weeks post-op)

- Wound care: Monitor site for signs of infection and begin scar management techniques when incision is closed
- Modalities: prn for pain and inflammation (ice, IFC, elevation)
- Brace: Hinged brace on and locked for all activities including sleeping for 6 weeks. Brace may be removed for bathing once surgical incision is healed
- Gait:
 - At 4 weeks post-op, progress to 1 crutch as tolerated
 - At 5 weeks post-op, D/C crutches as tolerated
 - At 6 weeks post-op, progress to FWB and unlock brace for ambulation
- ROM:
 - Week 2: PROM 0-60 degrees
 - Weeks 3-4: PROM 0-75 degrees

Initiation Date: 05-06-09 Revised Date: 04-30-2020

- Week 5: 0-80 degrees
- Week 6: 0-90 degrees
- Strengthening:
 - Week 2-3: Hip abd/add, ankle pumps, 4 way SLR with brace locked in ext, quad/ham sets
 - Week 4:
 - Begin partial squat 0-45 degrees. OK to unlocked brace for mini squats only
 - Initiate proprioception drills
 - Initiate weight shifts
 - Weeks 5-6:
 - Initiate open chain knee extension AROM 90-30 degrees
 - Initiate gravity resisted supine SLR flexion
 - Multi-angle isometric knee extension

Phase III (7 weeks – 16 weeks post-op)

- Gait/Brace: Progress to FWB with brace open to full ROM. D/C brace when sleeping
- ROM:
 - Week 7: 0-100 degrees
 - Week 8: 0-105 degrees
 - Week 9: 0-110 degrees
 - Week 10: 0-115 degrees
 - Week 12+: 0-125 degrees
- Strengthening: Gradually increase muscular strength
 - Week 7-11: Heel raises, fwd step ups, partial squats/leg press/wall slides (0-60 degrees), fwd/lat lunges, ham curls within ROM guidelines, balance and proprioception activities, stationary bike, LE stretches for quads/hams/calf/IT band
 - Week 12-16: Initiate fwd steps downs, posterior lunges, lat step ups, and walking program. No sports.

Phase IV (16+ weeks post-op)

- Strengthening: Progress as tolerated
 - At 5 months: Initiate plyometrics and agility drills
 - At 5-6 month: Initiate light running program
- Testing: Final functional tests <25% deficits for non-athletes and <20% deficit for athletes compared to contralateral side

Adapted From:

- 1) Advanced CEU. Rehabilitation Following Unilateral Quadriceps Tendon Repair, Wilk, KE. 2019.