

## REHABILITATION PROTOCOL: QUADRICEPS AND PATELLAR TENDON REPAIR

### ☐ Phase 1 (Weeks 0-4)

- Weight bearing as tolerated with hinged knee brace locked in extension with crutches
- Range of motion
  - Locked in full extension, no flexion
- Modalities per PT discretion

### ☐ Phase 2 (Weeks 4-6)

- Weight bearing as tolerated with hinged knee brace locked in extension with crutches
- Range of motion
  - AAROM → AROM flexion and passive extension 0-45°
  - Can progress 15° each week to reach goal
- Therapeutic exercises
  - Isometric quadriceps, hamstring, adductor, and abductor exercises (NO STRAIGHT LEG RAISE)
- Modalities per PT discretion

### ☐ Phase 3 (Weeks 6-8)

- Weight bearing as tolerated, hinged knee brace locked in extension, and eventual discontinue crutch use
- Range of motion:
  - AAROM → AROM flexion and passive extension 0-90°
  - Can progress 15° each week to reach goal
- Therapeutic exercises
  - Isometric quadriceps, hamstring, adductor, and abductor exercises (NO STRAIGHT LEG RAISE)
- Modalities per PT discretion

### ☐ Phase 4 (Weeks 8-12)

- Weight bearing as tolerated, can discontinue hinged knee brace, continue crutches until good quad control
- Range of motion: Advance beyond 90°
- Therapeutic exercises
  - Gait training
  - Hamstring and quadriceps exercise
    - Straight leg raises without resistance and stationary cycling
- Modalities per PT discretion

### ☐ Phase 5 (Weeks 12-16)

- Complete weight bearing, no brace
- Range of motion: full active
- Therapeutic exercises
  - Gait training
  - Hamstring and quadriceps exercise
  - Proprioception and balance activity including single leg support

### ☐ Phase 5 (Weeks 16-24)

- Begin running and sport/job specific training
- >6 months begin jumping and contact sports IF quadriceps strength is 85-90% of contralateral extremity