## TIBIAL EMINENCE FRACTURE POST-OP PROTOCOL DR ELRASHIDY - TRI-VALLEY ORTHOPEDICS

## **OVERVIEW**

- Focus on protection of fixation in primary phase (Weeks 0 6)
- Ok to shower on post-op day 3. NO bathing/soaking knee until cleared by physician
- **Elevation, Cryocuff** x 2 weeks
- **TROM Brace**: 8 weeks Total
  - Week 0-2: Toe-Touch WB (Full Extension)
  - Week 3-4: Partial WB (Full Extension, D/c crutches after 4 weeks)
  - Week 5-6: WBAT (Full Extension)
  - Weeks 7-8 (Unlock brace in 30° increments, unlocked and off after Week 8)
- Sleep with brace on & locked in extension x 2-3 weeks
- Crutches: 4 weeks total (0-2 = TTWB, 3-4 = PWB, 4-6 = WBAT)
- Supervised Physical Therapy for 3-4 months

## PHASE 1: Post-Op Through Week 6

### Goals:

- Protect fracture fixation with use of brace and specific exercises
- Minimize effects of immobilization, inflammation & edema (cryocuff x 2 weeks)
- Advance to Full WB, Wean off crutches, Obtain Motion

## **Brace (Total Length = 8 weeks):**

- Week 0-3: Brace locked in full extension for ambulation and sleeping
- Weeks 4-6: WBAT in extension. Ok to d/c brace when sleeping
- Week 6-8: Begin unlocking in 30° increments every 3-4 days. Unlocked by start of Week 8 and d/c after Week 8

## Weight-Bearing:

- Week 0-2: Toe-touch WB
- Week 3-4: Partial WB
- Week 5-6: Wean from crutches as patient demonstrates normal gait mechanics and improving quad control

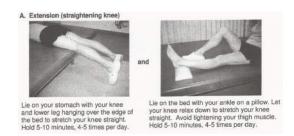
## Range of Motion (see exercises below):

- AAROM → AROM as tolerated
- Maintain full extension and work on progressive knee flexion
  - $\rightarrow$  0° 90° by Week 3
  - $\triangleright$  0° 125° by Week 6

#### **Exercises**

- Patellar mobilization/scar mobilization
- Quad sets, Hamstring Curls, Heel slides
- Non-weight bearing stretching of Gastroc-Soleus
- Straight-Leg Raise with brace in full extension until quad strength returns (no extension lag)

## TIBIAL EMINENCE PROTOCOL



#### B. Flexion (bending knee)







seconds. Repeat 25 times

4-5 times daily

Lie on your bed with a loop of towel under your foot. Bend your knee no more than 90 degrees by sliding your heel toward your buttocks. Sustain the stretch for 3-5



## **PHASE 2: Weeks 7 - 12**

## Goals:

- Maintain full extension, obtain full flexion
- Increase hip, quadriceps, hamstring and calf strength
- Increase proprioception

### **Brace:**

- Begin unlocking in 30° increments (every 3-4 days) after Week 6. Unlocked when weight-bearing by start of Week 8
- Discontinue after Week 8 (once patient has full extension and no lag)

#### **Exercises:**

- Begin stationary bike
- Continue with range of motion/flexibility exercises as appropriate
- Closed chain extension exercises
- Weight-bearing Gastroc-Soleus stretching
- Toe raises, Start proprioception program

## **PHASE 3: Weeks 13 To 18**

## **Exercises:**

- Begin straight-ahead, treadmill running after Week 12
- Continue flexibility and ROM exercises as appropriate for patient

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- Progressive hip, quad, hamstring and calf strengthening
  - ➤ Mini-Wall Squats (0° 60°)
  - Lateral Lunges and Step-Ups
  - ➤ Hip abduction/adduction
  - ➤ Short-arc leg press
- Cardiovascular/endurance training via stairmaster, elliptical, bike
- Advance proprioceptive activities and agility drills

## PHASE 4: Month 5 Through Month 6 - Return to Sport

## **Exercises:**

- Progress flexibility/strength program based on individual needs/deficits
- Initiate plyometric program as appropriate for patient's athletic goals
- **Agility** progression including:
  - ➤ Side steps + Crossovers, Figure 8 and Shuttle running
  - > One and two leg jumping
  - ➤ Cutting/Acceleration/Deceleration/Springs, Agility ladder drills
- Continue progression of running distance based on patient needs
- · Sport-specific drills as appropriate for patient
- Gradual return to activity as tolerated

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