### Grant H Garcia, MD

2409 North 45<sup>th</sup> Street, Seattle, WA 98103

Wallingford: 206-633-8100 Ballard: 206-784-8833



# **Arthroscopic Assisted Tibial Spine Avulsions PT Protocol**

## **Overview:**

- Focus on the protection of fixation in Phase I (0-6 weeks postop).
- Brace: 6 weeks total
- Weeks 0-2: Partial Weight Bearing (Full Extension, d/c crutches after 2 weeks)
- Weeks 2-6: WBAT (Full Extension)
- Sleep with brace ON & LOCKED in extension for 2 weeks.
- Crutches: 2 weeks total (0-2 PWB, 2-4 WBAT)

# Phase I: Weeks 0-6

#### Goals:

- Protect fracture fixation with the use of brace and specific exercises.
- Minimize effects of immobilization, inflammation & edema (ice x2 weeks)
- Advance to Full WB, wean off crutches, obtain motion

#### **Brace**:

- Weeks 0-2: Brace locked in full extension for ambulation & sleeping.
- Weeks 2-6: WBAT in extension. OK to d/c brace when sleeping.

## **Weight-Bearing:**

- Weeks 0-2: PWB
- Weeks 2-4: Wean from crutches as patient demonstrates normal gait mechanics and improved quad control.

### **Range of Motion:**

- ∘ AAROM → AROM as tolerated
- Maintain full extension and work on progressive knee flexion.  $\rightarrow 0-90^{\circ}$  by Week 2  $\rightarrow 0-125^{\circ}$  by Week 6

### **Exercises:**

- Patellar mobilization/scar mobilization
- Quad sets, Hamstring curls, Heel slides
- Non-weight bearing stretching of Gastro-Soleus
- Straight-leg raise with brace in full extension until quad strength returns (no extension lag)

### Phase II: Weeks 7-12

### Goals:

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

#### Brace

• Discontinue after Week 6 (once patient has full extension and no lag).

### **Exercises:**

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

## Phase III: Weeks 13-18

### **Exercises:**

- Begin straight-ahead, treadmill running after Week 12
- Continue flexibility and ROM exercises as appropriate for patient
- Progressive hip, quad, hamstring and calf strengthening
- Mini-Wall Squats (0-60<sup>0</sup>)
- Lateral Lunges & Step-Ups
- Hip Abduction/Adduction
- Short-Arc Leg Press
- ° Cardiovascular/endurance training via stair master, elliptical and bike
- Advance proprioceptive activities and agility drills

### Phase IV: Months 5-6 - 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 & Two Leg Jumping
- Cutting/Accelerative/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