

Andrew Parker, MD 1120 Raintree Circle, Suite 280 Allen, TX 75013 Phone: (214) 383 – 9356

Fax: (214) 383 - 9886

ORIF TIBIAL TUBERCLE PROTOCOL

I. Immediate Postoperative/Max Protection Phase (Weeks 1-4)

Goals: Restore full passive knee extension
Diminish pain and joint swelling
Restore patellar mobility
*Control forces on repair site

Postoperative Weeks 1-4

- Brace: brace locked at 0 deg extension with compression wrap except for PT and showering for first 2 weeks
 Sleep in brace locked until week 3, then unlocked when sleeping week 4, ambulate in brace always locked in extension
- Weight bearing: Toe touch WB with crutches, brace in full extension, ok to progress to Partial WB (<50%) at week 3
- Range of motion: Immediate AROM as tolerated, begin AAROM at week 3, PROM at week 5
- Exercises: Ankle pumps

Quad sets

Patellar mobilization Hip abd/adductions

Ice and elevation: 20 minutes of each hour at elevate

II. Motion Phase (Weeks 5 to 8)

Goals: Control forces on healing tendon

Gradually increase knee flexion

Restore full passive knee extension

Restore patellar mobility Retard muscular atrophy

<u>Week 5</u>:

- Brace: Continue use of locked brace when ambulating (6 weeks), unlocked and on when awake otherwise
- Weight bearing: WBAT
- Range of motion: Full passive knee extension



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Patellar mobilization

Exercises: Electrical muscle stimulation to guads

Quad sets Ankle pumps

Hip abd/adductions

Gravity eliminated SLR flexion

Continue ice, elevation and compression

Week 6-8:

- Continue above mentioned exercises
- ROM: Goal for full ROM by week 6-8
- Normalize stiff legged gait without crutches
- Single leg stance balancing and weight shifts
- Exercises: Initiate mini-squats (0-45)

Initiate weight shifts Partial wall sits

Initiate proprioception drills Active knee extension 90-30

Multi-angle isometrics knee extension (subnex)

Continue all exercises listed above

Continue ice, compression and elevation as needed

III. Moderate Protection Phase (Weeks 9-12)

Goals: Control forces during ambulation and ADL's Progress knee flexion ROM to normal Improve lower extremity muscular strength Restore limb confidence and function

Range of motion: Full

Exercises: *Gradually increase muscular strength

Straight leg raises (flexion)

Hip abd/adduction
Knee extension 90-0
Quarter to half squats
Hamstring strengthening

Leg press



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Wall squats
Front lunges
Lateral lunges
Calf raises

Hamstring curls (restricted ROM)
Proprioception drills, balance board

Bicycle

IV. Return to Sport Activity Phase (Week 13 and on)

Goals: Enhancement of strength, endurance

Initiate functional activities

Improve tensile strength properties of tendon

Criteria to Return to Activities:

1. Satisfactory clinical exam

2. Satisfactory strength

3. Proprioception test 80% > of opposite leg

4. Appropriate rehab progression

Goals: Gradual return to full-unrestricted sports

Continue strength program Continue functional/agility drills

Exercises: Initiate lateral step-ups

Initiate front step-downs Initiate backward lunges

Walking program progress to jog (month 4) to run (month 5)

Continue strengthening exercises

Continue emphasis on eccentrics and functional exercises

*May initiate plyometrics (month 5)

*May initiate agility drills (lateral shuffle) month 5

Sport specific training