





University Orthopedics, Inc. **Sports Medicine Division**

TIBIAL TUBERCLE OSTEOTOMY

PHASE I: ~0-2 Weeks Postoperative

GOALS:

- WBAT with crutches/brace
- Monitor wound healing
- Full extension

DRESSING:

- POD 1: Debulk dressing, TED Hose in place
- POD 2: Change dressing, keep wound covered, continue TED Hose
- POD 7-10: Sutures out, D/C TED Hose when effusion resolved

AMBULATION AND BRACE USE:

Crutches: WBAT

Brace: locked in full extension x 6 weeks

CPM - Speed and ROM to patient tolerance, begin

with 0-45

AAROM, AROM as tolerated

Passive extension with heel on bolster or prone

hangs

Patellar mobilization (teach patient)

Calf pumping

Short arc quads, 0-20 only, without resistance Standing Hamstring curls with upper extremity

support

SLR x 4 with brace locked in extension

Electrical stimulation in full extension with guad sets

and SLR exercises

No Resisted Closed Chain ex x 6 weeks No Resisted Open Chain ex x 6 weeks

PHASE II: ~2-4 Weeks Postoperative

GOALS:

- No extensor lag
- No effusion
- Good healing of surgical wound

AMBULATION AND BRACE USE:

Brace: locked in extension x 6 weeks

EXERCISES:

Continue appropriate previous exercises

Scar massage when incision healed

Stationary bicycle for ROM, seat adjusted high, no resistance (D/C CPM once patient is independent

with stationary bicycle)

AROM, AAROM as tolerated

Co-contractions quads / Hamstring at 0, 30, 60, 90

degrees

SLR x 4 on mat (d/c brace if patient can perform without lag) - Add light weight below the knee if good quad control

Pool therapy - Deep water (chest/shoulder) walking

and ROM exercises

- Water jogging floating upright in deep water

Stretches - Hamstring, hip flexors, ITB

BAPS, ball toss, body blade

Forward, backward, lateral walking with upper

extremity support

Double leg heel raises, progress to single leg







PHASE III: ~4-6 Weeks Postoperative

GOAL:

- Full AROM
- Advancing quad control

AMBULATION AND BRACE USE:

Brace locked in full extension

EXERCISES:

Continue appropriate previous exercises PROM, AROM, AAROM to regain full motion Standing SLR x 4 with elastic resistance bilaterally

PHASE IV: ~6-8 Weeks Postoperative

GOAL:

- Normal gait on levels
- Discontinue use of assistive devices
- Increase lower extremity strength

AMBULATION AND BRACE USE:

D/C brace/crutches

EXERCISES:

Continue appropriate previous exercises
Leg press with light weight
Mini squats, Wall squats
Hamstring curls – Carpet drags or rolling stool
(closed chain)
Treadmill – Forwards and backwards walking

PHASE V: ~8-12 Weeks Postoperative

GOAL:

- Thigh hypertrophy
- Walk 2 miles at 15 min/mile pace

EXERCISES:

Continue appropriate previous exercises
Hamstring curl weight machine
Knee extension weight machine
Proprioceptive training – BAPS, ball toss, body blade
Fitter

Slide board

Forward, lateral and retro step downs
Stationary bike – Minimal resistance
Treadmill – Walking progression program
Elliptical trainer
Pool therapy – Waist deep water walking or slow jogging
Quad stretches

PHASE VI: ~3-4 Months Postoperative

GOAL:

Run 2 miles at easy pace

EXERCISES:

Continue appropriate previous exercises with progressive resistance
Treadmill – Running progression program
Stairmaster

PHASE VII: ~4-6 Months Postoperative

GOALS:

- Return to all activities
- No contact sports until 6 months post-op

EXERCISES:

Continue appropriate previous exercises Agility drills / Plyometrics Sit-up progression Progressive weight training program Transition to home / gym program

^{**}This protocol is designed to be administered by a licensed physical therapist and/or certified athletic trainer. Please do not hesitate to contact our office should you have any questions concerning the rehabilitation process.