

PHYSICAL THERAPY SECTION

HIGH TIBIAL OSTEOTOMY

Revised November 2016 Adapted from William Beaumont Army Medical Center

Post-op Days 1 – 14

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 is resolved Brace – 0-90 degrees Crutches – Non weight bearing (NWB) x 6 weeks CPM in hospital – 0-90 degrees AROM, AAROM 0-90 degrees Patellar mobilization (teach patient) Calf pumping Passive extension with heel on bolster or prone hangs Electrical stimulation with quad sets and SLR Quad sets, Co-contractions quads/hams Straight leg raise (SLR) x 4 on mat, in brace (parallel bars if poor quad control) Stretches – Hamstring, Hip flexors, ITB Ice pack with knee in full extension after exercise

Goals

Pain / effusion control ROM – 0-90 degrees

<u>Weeks 2 – 4</u>

Brace – Open to available range Crutches – NWB AROM, AAROM 0-120 degrees Scar mobilization when incision healed Co-contractions quads/hamstring at 0, 30, 60, 90 degrees SLR x 4 on mat, no brace – Add weight above knee if good quad control Stationary bike for ROM

Goals

ROM 0-120 degrees No extensor lag

<u> Weeks 4 – 8</u>

Brace – Open to available range Crutches – NWB x 6wks then Partial weight bearing (PWB) Continue appropriate previous exercises PROM, AAROM, AROM to regain full motion SLR x 4 on mat, no brace – Light weight below the knee Weight shifts, Mini squats – In parallel bars Leg press with light resistance Hamstring curls – Carpet drags or rolling stool (closed chain) Double leg heel raises Stationary bike – Progressive resistance and time Pool therapy – Chest deep exercises in <u>sagittal plane only</u>

Goal - Full ROM

<u>Weeks 8 – 12</u>

Brace – Continue until 12 weeks post-op Crutches – Weight bearing as tolerated (WBAT) (D/C when gait is normal) Continue appropriate previous exercises Forward, lateral and retro step downs – No flexion > 45 degrees (small step) SLR x 4 with Theraband bilaterally Wall squats – No knee flexion past 45 degrees Single leg heel raises Proprioceptive training – Single leg standing in parallel bars – Double leg BAPS for weight shift – Progress to single leg BAPS, ball toss and body blade Treadmill – Forwards and backwards walking – Walking progression program Elliptical trainer Pool therapy – Walk in waist deep water

Goals

Normal gait Walk 2 miles at 15 min/mile pace

<u>Months 3 – 4</u>

D/C crutches and brace Continue appropriate previous exercises with progressive resistance Forward, lateral and retro step downs – Medium to large step Hamstring curl weight machine Knee extension weight machine Hip weight machine x 4 bilaterally Fitter Slide board Stairmaster Swimming Treadmill – Running progression program

Goal - Jog 2 miles at easy pace

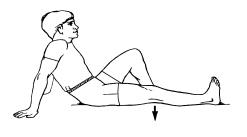
Continue appropriate previous exercises Agility drills / Plyometrics Sit-up progression Progressive weight training program Running progression to track Transition to home / gym program

Goals

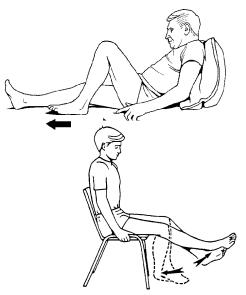
Return to all activities Pass APFT at 6 months post-op

No contact sports until 6 months post-op

Knee Post Op Phase 1 Perform exercises below frequently: 30 reps 3-5x a day



Quad Isometrics



Heel Slides

Active Assisted Motion

Ice Position 15 minutes 2-3 x per day

