

PHYSICAL THERAPY SECTION WILLIAM BEAUMONT ARMY MEDICAL CENTER 5005 N. PIEDRAS ST EL PASO, TEXAS 79920



ACL RECONSTRUCTION – HAMSTRING AUTOGRAFT

Revised August 2008 (2011 removed allograft)

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 resolved

Brace x 6 weeks - Locked in extension for ambulation

- Open to available range when pt has good guad control (no extensor lag) Crutches - Partial weight bearing (PWB) in brace

Patellar mobilization (teach patient)

Calf pumping

AAROM 0-90 degrees (passive extension, heel slides with towel assist) Passive extension with heel on bolster or prone hangs

No active Hamstring exercises

Electrical stimulation in full extension with quad sets and SLR Quad sets

Straight leg raise (SLR) x 4 directions on mat (in brace if poor quad control) Total Gym (level 3-5) – Mini squats 0-45 degrees

 Passive flexion to 90 degrees max (push up with opposite leg) Leg press 0-45 degrees with light resistance (up to 1/4 body weight) Stationary bike for range of motion – Complete cycle as able Ice Pack with knee in full extension after exercise

Goals

Full passive extension Flexion to 90 degrees Good quad control

Weeks 2 – 4

Brace x 6 weeks – Open to available range Crutches – PWB in brace Continue appropriate previous exercises and following ex without brace Scar massage when incision healed AAROM, AROM through full range as tolerated Co-contractions guads / HS SLR x 4 on mat – Add light ankle weights if quad control is maintained Total Gym – Progress levels and ROM of mini-squats as tolerated Leg press 0-90 degrees with light resistance (up to ¹/₄ body weight) Hamstring curls – Carpet drags or rolling stool (closed chain) Double leg heel raises Stationary bike - Progressive resistance and time Stretches - Hamstring, Hip Flexors, ITB

Goals

ROM 0-110 degrees No effusion No extensor lag

<u>Weeks 4 – 6</u>

Brace x 6 weeks – Open to available range Crutches – weight bearing as tolerated (WBAT) in brace, D/C when gait is normal Continue appropriate previous exercises PROM, AAROM, AROM to regain full motion Standing SLR x 4 with light Theraband bilaterally Mini squats, Wall squats 0-45 degrees Leg press 0-90 degrees with resistance no more than ½ body weight Hamstring curls on weight machine with light resistance Forward, lateral and retro step downs in parallel bars – No knee flexion past 45 degrees (small step) Single leg heel raises Proprioceptive training – Single leg standing in parallel bars – Double leg BAPS for weight shift

Treadmill - Forwards and backwards walking

Goals

Full ROM Normal Gait

<u>Weeks 6 – 9</u>

D/C Brace Continue appropriate previous exercises Wall squats 0-90 degrees Leg press 0-90 degrees with resistance as tolerated Hamstring curls with resistance as tolerated Forward, lateral and retro step downs (medium to large step) Hip weight machine x 4 bilaterally Proprioceptive training – Single leg BAPS, ball toss and body blade Stationary bike – 15-20 minutes at a time, at least 70 rpm Treadmill – Walking progression program Elliptical trainer Pool therapy – Walking / running (no kicking)

Goals - Walk 2 miles at 15 min/mile pace

Weeks 9 - 12

Continue appropriate previous exercises with progressive resistance Fitter Slide board Proprioceptive training – Grid exercises Functional activities – Figure 8s, gentle loops, large zigzags Stairmaster – Small steps Pool therapy – No swimming laps Quad stretches

Goal - Walk 3 miles at 15 min/mile pace

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<u>Months 3 – 4</u>

Isokinetic testing at 180 and 300 degrees/sec – Must have 80% of opposite leg to clear for straight line running Continue appropriate previous exercises Knee extension weight machine Short arc quads Agility drills / Plyometrics Treadmill – Running progression program if cleared Pool therapy – Swimming laps

Goal - Run 2 miles at easy pace

Months 4 – 6

Repeat Isokinetic testing as needed Continue appropriate previous exercises Sit-up progression Running progression to track Transition to home / gym program

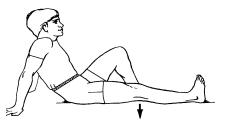
Goals

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

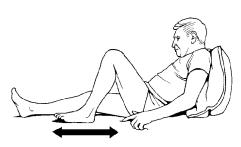
No contact sports until 6 months post-op

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



Quad Isometrics

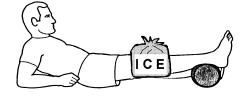


Heel Slides



Active Assisted Motion

Ice Position 15 minutes 2-3 x per day



Appointments?? Questions?? WBAMC PT: DSN:979-2181/1848 COMM: (915)569-2181/1848