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ACL Reconstruction with Allograft Rehabilitation Protocol

Stage 1

Time: 0-2 days – Brace on with knee locked at 0 degrees. Gait: Weight bearing to tolerance unless otherwise directed by physician. Exercises: quad sets leg raises with the knee locked (full extension) hamstring sets (gentle) ankle pumps Goal of stage one: Promote hemostasis, pain management, and regain good motor control of involved.

Stage 2

Time: 2 days - 3 weeks. ROM is started, if functional bracing is used then open brace to 60 degrees at day 2 and progressively open the brace as tolerated without increased swelling or pain. Wear brace at all times.

Gait: Partial weight bearing, increasing to full weight bearing as tolerated by the patient. The goal is to be full weight bearing by 14 days post-op. Progress to weight bearing with one crutch prior to ambulating without the crutches. Patient may ambulate without crutches when they can walk with a minimal to no limp.

Exercises:

Active quad sets Passive and active knee extension to 0 degrees (no external resistance). Active knee flexion only Resisted hip extension, abduction, and adduction exercises Hamstring, calf, and iliotibial band stretches as indicated Patellar mobilization Closed chain activities Standing terminal extension with theraband Ball squeezes (hip adduction and knee extension) Long sitting leg press May begin bicycling with high seat - low resistance for ROM only Start electrical stimulation for muscle reeducation at 3 days post-op if quad tone is poor. Goal: Ambulate with assistive devices, knee ROM 0-120, good isolated quad contraction.

Stage 3

Time: 3-6 weeks

Gait: Full weight bearing without crutches as soon as they can ambulate with a minimal limp.

Exercises:

Continue with exercises Start step ups, both forward and lateral, beginning with a 2" step increasing to 8" May start hip sled, leg press BAPS board/KAT Continue with closed chain activities May start hamstring PRE if no hamstring or pes anserinus pain Continue with bicycling, but begin cross training activities such as Nordic track, stair stepper, and EFX. If stork stance can be held for longer than 20 seconds, begin proprioceptive activities on a mini trampoline May begin aquatic exercises including walking/coordination activities. Goals: By 6-8 weeks Full ROM including hyperextension equal to uninjured extremity Good eccentric quad control off 6" step Ascend or descend stairs without pain or compensation Once the patient has met all previous goals and can perform Squat and touch Ice skater (stick and hold) $\frac{1}{2}$ single leg squat Then the patient will start a functional ACL program.

Functional ACL 8-12 weeks

Proprioceptive exercises Bilateral progressing to unilateral Squat and touch Agility ladder 1", 2", 2" lateral, ali shuffle, slalom, 2" slalom Dot drill hopscotch, forward and backward Ice skater Hold for a count of two Strength Single leg squat Pitcher squat Leg circuit I squats lunges low step ups squat jump (depending on strength) Leg circuit II squats or stagger squats