

THE STONE CLINIC

ORTHOPAEDIC SURGERY, SPORTS MEDICINE AND REHABILITATION MENISCUS ALLOGRAFT

Post-Operative Physical Therapy Protocol

General Considerations:

- -Partial weight bearing for 4 weeks. Initiate at 10-20% for weeks 1-2, then progress up to 50% for weeks 3-4. Walk with crutches and a brace locked in extension. Consider a heel lift in opposite shoe to normalize gait.
- -Surgical knee will be in a hinged rehab brace locked in FULL EXTENSION for 4 weeks post-op.
- -Regular assessment of gait to avoid compensatory patterns.
- -Regular manual mobilizations to surgical wounds and associated soft tissue to decrease the incidence of fibrosis.
- -No direct palpation to surgical portals x 4 weeks. Consider the edge of the bandages as the "no touch zone" (approximately 2 inches in all directions). See wound care protocol for full details.
- -No resisted leg extension machines (isotonic or isokinetic).
- -No high impact or cutting / twisting activities for at least 6 months post-op.
- -No resisted lateral movement for 12 weeks
- -M.D./nurse follow-up visits at Day 2, Day 14, 1 month, 3 months, 6 months, and 1 year post-op.
- -During the first 4 weeks: TWICE PER DAY: Without brace, allow GRAVITY ONLY (passive only) to bend knee back as tolerated BUT NO MORE THAN 90 DEGREES for a good knee stretch without increase in pain. Relax knee and stretch for 60 seconds.

-DO NOT FORCE FLEXION >120 DEGREES FOR THE FIRST 6 MONTHS AFTER SURGERY

Week 1:

- -Nurse visit day 2 post-op to change dressing and review home program.
- -Ice and elevation every 2 hours for 15-20 min each session.
- **Manual:** -Soft tissue treatments for edema / pain control and to posterior musculature, ITB, add, quad, calf. No direct palpation of surgical portals x 4 weeks.
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- Exercise: -Straight leg raise exercises (lying, seated, and standing), quadriceps/adduction/ gluteal sets, ankle pumps
 - -Well-leg stationary cycling, upper body ergometer for cardio. Add upper body and core conditioning.
 - -Daily edge of bed dangle for passive knee flexion (allow knee to hang in pain-free range with light stretch).

Goals:

Decrease pain/edema.

Passive range of motion <90 degrees to avoid pulling on sutures.

Gait-partial weight bearing with brace locked in extension.

Weeks 2 - 4:

-Nurse visit at day 14 for suture removal and check-up.

Manual: -Continue with soft tissue treatment for edema/pain, posterior musculature, iliotibial band, adductor, quadriceps, calf.

Exercise: -Continue with previous, manual resisted exercises (i.e. PNF patterns) of the foot, ankle and hip. Trunk stabilization program, three limb plank. Single leg balance and proprioceptive exercises.

-Aerobic exercises (i.e. unilateral cycling, upper body ergometer, Schwinn Air-Dyne with uninvolved leg and arms only, well body bike, single leg row machine).

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Goals:

Decrease pain/edema

Passive range of motion 0-90 degrees

Gait- partial weight bearing with brace locked in extension.

Weeks 4 - 6:

-M.D. visit at 4 weeks post-op, will wean off the use of rehab brace.

Manual: -Stretching, exercises and manual treatments to improve range of motion (especially flexion). Initiate surgical portal scar mobilization if portals are completely closed.

Exercise: -Incorporate functional exercises (i.e. partial squats, calf raises, mini-step-ups, proprioception).

-Stationary bike low cadence, low resistance.

-Slow walking on treadmill for gait training (preferably a low-impact treadmill).

Goals:

Gait- unlock brace; wean off brace- increased gait mechanics

Active range of motion 0-115 degrees

Weeks 6 - 8:

Manual: -Continue as needed for ROM, decrease pain, muscle guarding.

Exercise: -Increase the intensity of functional exercises (i.e. cautiously increase depth of closed-chain exercises., Shuttle/leg press). Do not overload closed or open-chain exercises.

Goals:

Gait- no limp present, good mechanics Active range of motion 0-<120 degrees

Tolerate 90/90 squat

Weeks 8 - 12:

Manual: Continue with soft tissue, joint mobilizations as needed.

Exercise: -Add lateral training exercises (side-step ups, lateral stepping).

- -Introduce more progressive closed chain and agility leg exercises.
- -Patients should be pursuing a home program with emphasis on sport/activity-specific training.
- -Consider road cycling in saddle

Goals:

Active Range of Motion approx 120 degrees flexion (do NOT force flexion >120 degrees as per MD) Initiate lateral training with no resistance.

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Weeks 12-16:

- -Complete 3 month sports test and initiate return to running program.
- -Increase intensity of low-impact cardio including bike, swimming, elliptical, etc.
- -Increase the intensity of strength and functional training for gradual return to activities.
- -Initiate resisted lateral training (theraband resisted side-stepping).

Goals:

Complete and pass Sports Test.

No high impact activities for 1 year unless cleared by MD.

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