

ACL Reconstruction Physical Therapy Protocol/Prescription

Name										_	
Diagnosis s/p	RIG	HT/L	EFT	ACLR BTB Auto	ograft Hamstring	Aut	ogra	ft Al	logr	aft MM/LM Repair/Meniscect	omy
Date of Surger	ry										
Frequency: 1	2	3	4	times/week	Duration: 1	2	3	4	5	6 Weeks	
POST – OPERATIVE PHASE I (WEEKS 0-2)											
Critical Aspec	cts of	^f this	Phas	se:							
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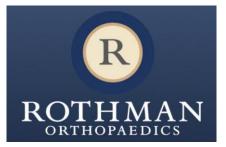
Patella mobility; Full knee extension; Improve quad contraction; Control pain/effusion

Goals:

- ROM:
 - ➢ Full passive extension
 - Extremely important
 - ➢ Minimum of 90°knee flexion
- ✤ Normalize patella mobility
- ✤ Weightbearing:
 - > Progressive weight bearing to WBAT with brace locked in extension
 - > Ok to use assist device to help normalize gait and minimize knee swelling
- Control post-operative pain / swelling
- Prevent quadriceps inhibition
 - \blacktriangleright Ok to use stim
- Promote independence in home therapeutic exercise program

Treatment Recommendations:

Towel under heel for knee extension, A/AAROM for knee flexion, patella mobilization, quadriceps re-education



(NMES and /or EMG), hip progressive resisted exercises, proprioception training, short crank bike, bilateral leg press $(5 - 70^{\circ})$, SLR supine (with brace locked to without brace), SLR in all planes, cryotherapy for pain and edema

Emphasize patient compliance to HEP and weight bearing precautions/progression

Precautions:

- ♦ Avoid active knee extension: $40 \rightarrow 0^{\circ}$
- * Avoid ambulation without brace locked @ 0°
- ✤ Avoid heat application
- Avoid prolonged standing/walking

- ✤ Able to SLR without quadriceps lag
- ✤ 0°knee extension, minimum of 90°knee flexion
- Able to demonstrate unilateral (involved extremity) weightbearing without pain



POST – OPERATIVE PHASE II (WEEKS 2-6)

Critical Aspects of this Phase

Normalize knee ROM and patella mobility; Minimize knee effusion; Normal gait

Goals:

- ROM: 0-125° progressing to full ROM
- Continue to work on patella mobility and minimize swelling
- Restore normal gait without assist devices
 - Patient should have a non-antalgic gait
- ✤ Ascend 8" stairs with good control, without pain
- Promote independence in home therapeutic exercise program

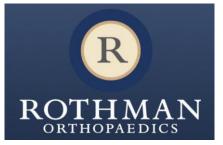
Treatment Recommendations:

- Continue phase I exercises as appropriate
- Advance AAROM knee flexion/extension exercises (emphasize full passive extension), hamstring/calf flexibility, standard bike (if ROM 115°), leg press (80 0°arc), mini squats, active knee extension to 40°, proprioceptive training, forward step up program, underwater treadmill (incision benign), open brace (0 50°) ambulate with crutches as quadriceps strength improves; modalities (ultrasound, stim, contrast, heat before and ice after exercise), initiate indoor bike
- Progress/advance patients home exercise program (evaluation based)

Precautions:

- ✤ Avoid descending stairs reciprocally until good quad control & knee alignment
- Avoid pain with therapeutic exercise & functional activities

- ✤ ROM 0→125°
- Normal gait pattern
- Demonstrate ability to ascend 8" step



POST – OPERATIVE PHASE III (WEEKS 6-12)

Critical Aspects of this Phase

Improving quad strength; Eccentric quad control

Goals:

- Restore full ROM
- ✤ Able to descend 8"stairs with good leg control & no pain
- Improve ADL endurance
- Improve lower extremity flexibility
- Protect patellofemoral joint

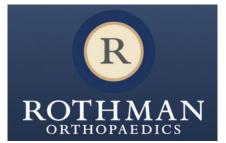
Treatment Recommendations:

- Progress squat/leg press program, initiate step down program, advance proprioceptive training, agility exercises, retrograde treadmill ambulation/running, quadriceps stretching, continue stationary bike, continue modalities
- Emphasize patient compliance to both home and gym exercise program

Precautions:

- Avoid pain with therapeutic exercise & functional activities
- ✤ Avoid jumping down from a box
- * Avoid running and sport activity until adequate strength development and MD clearance

- Normal ROM
- ✤ Ability to descend 8" stairs with good leg control without pain
- Functional progression pending functional assessment



POST – OPERATIVE PHASE IV (WEEKS 12-20)

Goals:

- Demonstrate ability to run pain free
- Maximize strength and flexibility as to meet demands of ADLS
- ✤ Hop Test > 75% limb symmetry

Treatment Recommendations:

- Start forward running (treadmill) program when 8" step down satisfactory
- ✤ Advance agility program / sport specific
- Start plyometric program when strength base sufficient

Precautions:

- * Avoid pain with therapeutic exercise & functional activities
- ✤ Avoid jumping down from a box
- * Avoid running and sport activity until adequate strength development and MD clearance

- Symptom free running
- ✤ Hop Test > 75% limb symmetry
- Functional progression pending functional assessment



POST – OPERATIVE PHASE V (WEEKS >20)

Goals:

- ✤ Lack of apprehension with sport specific movements
- Maximize strength and flexibility as to meet demands of individual's sports activity
- ✤ Hop Test > 85% limb symmetry

Treatment Recommendations:

- Continue to advance LE strengthening, flexibility & agility programs
- ✤ Advance plyometric program
- ✤ Agility training with sport specific brace on

Precautions:

- ✤ Avoid pain with therapeutic exercise & functional activities
- Avoid sport activity until adequate strength development and MD clearance

Criteria for Discharge:

- Lack of apprehension with sport specific movements
- ✤ Hop Test > 85% limb symmetry
- Flexibility to accepted levels of sport performance
- * Independence with gym program for maintenance and progression of therapeutic exercise program at discharge