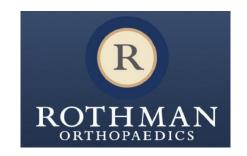
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ACL Reconstruction Physical Therapy Protocol

Name	Date
Diagnosis	s/p RIGHT/LEFT ACLR BTB Autograft Hamstring Autograft Allograft MM/LM Repair/Meniscectomy
Date of Su	rgery
Frequency	: 1 2 3 4 times/week Duration: 1 2 3 4 5 6 Weeks
	POST – OPERATIVE PHASE I (WEEKS 0-2)
Critical As	spects of this Phase:
Patella mo	bility; Full knee extension; Improve quad contraction; Control pain/effusion
Goals:	
ROM:	
> Fu	ll passive extension
•	Extremely important
> Mi	inimum of 90°knee flexion
❖ Normal	ize patella mobility
❖ Weightl	bearing:
>	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
>	Ok to use stim

Treatment Recommendations:

❖ Promote independence in home therapeutic exercise program

❖ 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°), SLR supine (with brace locked to without brace), SLR in all planes, cryotherapy for pain and edema

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❖ Emphasize patient compliance to HEP and weight bearing precautions/progression

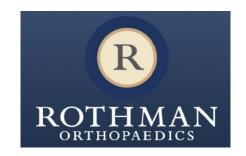
- Avoid active knee extension: $40 \rightarrow 0^{\circ}$
- ❖ Avoid ambulation without brace locked @ 0°
- ❖ Avoid heat application
- ❖ Avoid prolonged standing/walking
- **Minimum Criteria for Advancement to Next Phase:**
- ❖ Able to SLR without quadriceps lag
- ❖ 0°knee extension, minimum of 90°knee flexion
- ❖ Able to demonstrate unilateral (involved extremity) weightbearing without pain



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POST – OPERATIVE PHASE II (WEEKS 2-6)

Critical Aspects of this Phase

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

Goals:

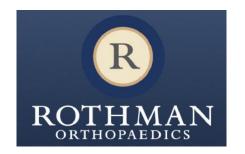
- ❖ ROM: 0-125° progressing to full ROM
- ❖ Continue to work on patella mobility and minimize swelling
- * Restore normal gait without assist devices
 - > Patient should have a non-antalgic gait
- ❖ Ascend 8" stairs with good control, without pain
- ❖ Promote independence in home therapeutic exercise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

- ❖ Avoid descending stairs reciprocally until good quad control & knee alignment
- ❖ Avoid pain with therapeutic exercise & functional activities
- Minimum Criteria for Advancement to Next Phase:
- **❖** ROM 0→125°
- ❖ Normal gait pattern
- ❖ Demonstrate ability to ascend 8" step
- ❖ Good patella mobility

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POST – OPERATIVE PHASE III (WEEKS 6-12)

Critical Aspects of this Phase

Improving quad strength; Eccentric quad control

Goals:

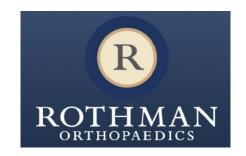
- * Restore full ROM
- ❖ Able to descend 8"stairs with good leg control & no pain
- Improve ADL endurance
- Improve lower extremity flexibility
- Protect patellofemoral joint
- **Treatment Recommendations:**
- Progress squat/leg press program, initiate step down program, advance proprioceptive training, agility exercises, retrograde treadmill ambulation/running, quadriceps stretching, continue stationary bike, continue modalities
- ❖ Emphasize patient compliance to both home and gym exercise program

- ❖ 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
- Minimum Criteria for Advancement to Next Phase:
- ❖ Normal ROM
- ❖ Ability to descend 8" stairs with good leg control without pain
- ❖ Functional progression pending functional assessment

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POST – OPERATIVE PHASE IV (WEEKS 12-20)

Goals:

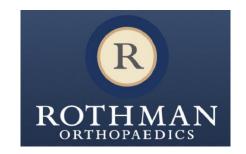
- Demonstrate ability to run pain free
- ❖ Maximize strength and flexibility as to meet demands of ADLS
- ❖ Hop Test > 75% limb symmetry
- Treatment Recommendations:
- ❖ Start forward running (treadmill) program when 8" step down satisfactory
- ❖ Advance agility program / sport specific
- ❖ Start plyometric program when strength base sufficient

- ❖ 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
- Minimum Criteria for Advancement to Next Phase:
- Symptom free running
- ❖ Hop Test > 75% limb symmetry
- ❖ Functional progression pending functional assessment

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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

- ❖ 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