

LAKESHORE Bone & Joint Institute

Sports Medicine, General Orthopedics Direct Line (219) 250-5009

ACLR with Allograft Protocol

Name							D	ate _						
Procedure														
Procedure Dat	e													
Frequency 1	2	3	4	5	times/week	Duration	1	2	3	4	5	6	weeks	

Therapist will change your dressing at your first appt. This is typically 2-3 days after surgery. Surgical wounds are closed with absorbable suture and covered with steri-strips or black Nylon sutures. There will be gauze and padding over the incisions and the extremity wrapped with an ACE wrap. The surgical dressing should be changed by the therapist using *sterile* technique. This includes sterile field, sterile gloves, betadine or chlorhexidine skin cleanser and sterile supplies when redressing the wounds. Do NOT remove steri-strips. The new dressing should include dry gauze and ACE wrap. Before the new dressing is applied the wounds should be clean and dry. Please do not use tegaderm unless it was used at the time of surgery or if specifically stated on the orders.

The dressing will be changed for the second time at your second therapy visit. After the second visit and second dressing change patient is permitted to shower at home. Remove the ACE wrap before shower. The wounds should be covered with Press-N-Seal. If the wounds get wet, use a hair dryer to *completely dry* the area prior to covering with ACE wrap after the shower.

Once you are permitted to get the incisions wet, warm soapy water should *gently* rinse the surgical area. Do NOT scrub the area. Pat the area dry with a clean towel and keep free of lotions or creams. Do NOT soak in a pool, bath or hot tub until permitted by the surgeon's office. Please wear clean clothes following shower and be conscious of any pet hair or other contaminants near the surgical area.

Anytime the dressing is changed or examined, *please wash hands* prior with antibacterial soap. Do not apply any ointments or medications to the area.

Range of motion is an important progression of therapy, but limiting swelling is important. Respecting swelling will decrease pain and improve motion.

ACLR with Allograft

	REHAB GOALS	PRECAUTIONS	THERAPEUTIC EXERCISES	PROGRESSION CRITERIA
PHASE 1	Protect graft	Brace: weeks 0-1	Heel slides	Good quadriceps set,
0-6	fixation!	locked in full		SLR without extension
WEEKS		extension for	Quad sets, hamstring sets	lag
	Because there is no donor tissue	ambulation and sleeping	Patellar mobilization	90° of knee flexion
	harvested, the pain	8		, , o or more more
	and swelling from	Brace: weeks 1-6	Non-weight bearing	Full extension
	surgery will	unlocked for	gastrocnemius/soleus,	
	typically subside quickly. These	ambulation, remove for	hamstring stretches	No signs of active inflammation
	patients may have a	sleeping	SLR (all planes) with brace	
	false sense of	sicoping	locked in full extension until	
	progression.	Allograft	quadriceps strength is	
	Remember to	revascularization is	sufficient to prevent	
	protect the graft	slower than with	extension lag	
	from excessive	autograft. Patients	0 1:	
	loading and sharing forces, especially	may weight bear as tolerated, but	Quadriceps isometrics at 60°	
	in the early stages	protected for 6	and 90° of knee flexion	
	as the graft heals at	weeks with		
	a slower rate.	crutches.		
	Minimize effects of immobilization			
	Control inflammation			
	Full extension ROM			
	Educate patient on rehabilitation			
PHASE 2	Initiate weight	Brace: DC use of	Wall slides, 0°-45°,	
6-8	bearing (closed	brace when patient	progression to mini squats	
WEEKS	kinetic chain) exercises	has full leg extension and can	A way hin	
	CACICISES	perform SLR	4-way hip	
	Restore normal gait	without extension	Stationary bike (begin with	
		lag	high seat and low tension to	
	Protect graft		promote range of motion,	
	fixation	Crutches: DC	progress to single leg)	
		crutches when		
		patient exhibits	Weight bearing terminal knee	
		non-antalgic gait pattern; consider	extension with resistive tubing or weight machine	
		pattern, consider	tuoning of weight machine	l

PHASE 3 2-6 MONTHS	Full ROM Improve strength, endurance and proprioception of the lower extremity to prepare for functional activities	Avoid overstressing the graft Protect the patellofemoral joint	Toe raises Balance exercises (e.g.: single leg) Hamstring curls Aquatic therapy with emphasis on normalization of gait Continue hamstring stretches, progress to weight bearing gastrocnemius/soleus stretches Continue and progress previous flexibility and strengthening activities Seated knee extensions, 90°-45° and progress to eccentrics Advance weight bearing activities (single leg mini squats, leg press, 0° to 45° flexion, step ups beginning at 5cm and progressing to 20cm, etc.) Progress proprioceptive activities (slide board, use of ball, etc.) Progress aquatic program to include pool running, swimming, etc.)	Full, pain-free ROM No evidence of patellofemoral joint irritation Strength and proprioception of approximately 70% of the uninvolved side Physician clearance to initiate advanced weight bearing exercises and functional progression
PHASE 4 6-9 MONTHS	Continue and progress previous flexibility and strengthening activities Functional progression, including walk/jog progression, forward/backward			No patellofemoral or soft tissue complaint Necessary joint ROM, strength, endurance and proprioception to safely return to work or athletics Physician clearance to resume partial or full duty

	running at half, ¾ and full speed		
PHASE 5 AFTER 9 MONTHS	Initiate cutting and jumping activities Completion of appropriate functional activities Maintenance of strength, endurance and proprioception Patient education with regard to any possible limitations		

Running progression to be started if strength, ROM, effusion and pain milestones have been met (at week 24-unless otherwise discussed with the surgeon):

In place on mini-trampoline or any other compliant surface is encouraged first.

Level 1 0.1 mile running, 0.1 mile walking, total 1 mile

Level 2 0.2 miles running, 0.1 mile walking, total 2 miles

Level 3 0.4 miles running, 0.1 mile walking, total 2 miles

Level 4 0.5 miles running, 0.1 mile walking, total 2 miles

Level 5 0.7 miles running, 0.1 mile walking, total 2.4 miles

Level 6 1 mile running, 0.2 mile walking, 2 cycles Level 7 1.25 miles running, 0.25 mile walking, 2 cycles

Level 8 1.5 miles running

Level 9 2 miles running

Level 10 track running

Initially, no back-to-back days running. Stop or decrease a level if effusion or soreness increase.

Comments:		
FCE	Work Conditioning/Work Hardening_	Teach HEP

Every patient's therapy progression will vary to a degree depending on many factors. Please use your best clinical judgment on advancing a patient. If other ideas are considered to improve patient's outcome do not hesitate to call.

Patient's recovery is a team approach: Patient, family/friend support, therapist, and
surgeon. Every team member plays an important role in recovery.

Signature	Date
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