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ACLR Protocol with Patellar Tendon Autograft

Name					Date							
Date	e											
1	2	3	4	5 times/week	Duration	1	2	3	4	5	6 weeks	
	Dat	Date	Date	Date		Date	Date	Date	Date	Date	Date	

***Range of motion is an important progression of therapy, but limiting swelling is important.

Respecting swelling will decrease pain and improve motion.***

	MILESTONES	WEIGHT BEARING/	THERAPEUTIC EXERCISE
		BRACE/ROM	
PHASE I	1. Knee flexion greater	WB As tolerated with	Week 0-2
0-4 weeks	than 110°	crutches	Heel slides
	2. Walking without	BRACE 0-1 week:	Quad/hamstring sets
	crutches	locked in full extension	Patella mobs
	3. Use of cycle/stair	for ambulation and	NWB gastroc/soleus stretch,
	climber without	sleeping	SLR with brace in full extension
	difficulty	1-4 weeks : unlocked for	until quad strength prevents
	4. Walking with full	ambulation remove for	extension lag
	knee extension	sleeping	Week 2-4
	5. Reciprocal stair	ROM as tolerated	Step-ups in pain-free range
	climbing		Portal/incision mobilization as
	6. Straight leg raise		needed (if skin is healed)
	without a knee extension	- Consider alteration of	Bike, StairMaster.
	lag	knee flexion angle to	Wall squats/sits
	7. Knee Outcome	most comfortable	Progress to functional brace as
	Survey activities of daily	between	swelling permits
	living (KOS-ADL)	45° and 60° for MVIC	Prone hangs if lacking full
	greater than	assessment and NMES	extension
	65%	treatments	Patellar mobilization in flexion (if
			flexion is limited)

PHASE II	1. Knee flexion ROM to	Gradually discontinue	Progress to weight bearing
4-6 weeks	within 10° of uninvolved	crutch use	gastroc/soleus stretch.
1 o Weeks	side		Begin toe raises
	2. Quadriceps strength	Discontinue use when	Closed chain extension
	greater than 60% of	patient has full extension	Begin balance and proprioceptive
	uninvolved side	and no extension lag	activities
	- Be aware of		Hamstring curls
	patellofemoral forces	Maintain full extension	Tibiofemoral mobilizations with
	and possible irritation	and progressive flexion	rotation for ROM if joint mobility
	during progressive		is limited
	resistive exercises		Progress bike and StairMaster
			duration (10-minute minimum) - Treat patellofemoral pain if it
			arises: modalities, possible patellar
			taping
PHASE	1. Quadriceps strength	Full without the use of	Advanced closed chain
III	greater than 80% of	crutches and a normalized	strengthening, progress
6 – 12	uninvolved side	gait pattern	proprioception activities.
weeks	2. Normal gait pattern		Begin Stairmaster, Elliptical and
VV CCIES	3. Full knee ROM	No Brace, but assessment	running straight ahead at 12 weeks
	(compared to uninvolved	for functional brace as	if OK by Surgeon (see below)
	side)	early as week 9	- Progress exercises in intensity
	4. Knee effusion of trace		and duration
DILAGE	or less	Gain full and pain-free	Danim manaina anna anna ian (ann
PHASE	1. Maintaining or	Measurements for	- Begin running progression (see
IV	gaining quadriceps strength (greater than	Functional Brace	running progression below); on treadmill or track with functional
12-24	80% of uninvolved side)		brace (if all milestones are met;
weeks	2. Hop tests greater than		may vary with physician or
	85% of uninvolved side		delayed if meniscal repair)
	(see below) at 12 weeks		- Transfer to fitness facility (if all
	3. KOS-sports		milestones are met)
	questionnaire greater		- Progress flexibility/strengthening,
	than 70% treatment		progression of function, forward
			and backward running, cutting,
			grapevine, etc.
			- Initiate plyometrics double leg
			program at week 16 and sport
			specific drills. Progress to single leg plyometrics and lateral
			progressions around week 20
			- Sports-specific activities
			- Agility exercises
			- Functional testing (see
			description below).
PHASE V	1. Maintaining gains in	None	Gradual return to sport
6+	strength (greater than or	·	participation, maintenance
months	equal to 90% to 100%)		program for strength and
	2. Hop test 90% or		endurance
	greater		

)	Date						
Patien	t's recovery is a team app surgeon. Every team n	· · · · · · · · · · · · · · · · · · ·		-				
	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.							
FCE	Work Conditioning/W	ork Hardening	Teach HEP	_				
Level 4 0. Level 5 0. Level 6 1 Level 7 1. Level 8 1. Level 9 2	4 miles running, 0.1 mile w 5 miles running, 0.1 mile w 7 miles running, 0.1 mile w mile running, 0.2 mile walk 25 miles running, 0.25 mile 5 miles running miles running rack running	valking, total 2 miles valking, total 2.4 mile king, 2 cycles	S					
Level 1 0. Level 2 0.	Progression (week 13 to weel 1 mile running, 0.1 mile was 2 miles running, 0.1 mile was 4 miles running, 0.1 mile was 1 miles running, 0.1 miles was 1 miles running, 0.1 miles was 1 mile	alking, total 1 mile valking, total 2 miles						
	greater 4. Return-to-sport criteria (see below) • Recommend changes in rehabilitation as needed. Progression may emphasize single-leg activities in gym, explosive types of activities (cutting, jumping, plyometrics, landing training)							
	3. KOS-sports 90% or							