

Atte Sports Ortho Consults

Office: (754) 356-8300

Fax: (833) 954-4041

MENISCAL ALLOGRAFT TRANSPLANTATION

The rehabilitation guidelines are presented in a criterion based progression program. Specific time frames, restrictions, and precautions are given to protect healing tissues and the surgical repair/reconstruction. General time frames are given for reference to the average, but individual patients will progress at different rates depending on their age, associated injuries, pre-injury health status and rehab compliance. The therapist should closely communicate with the physician during all phases of rehabilitation.

* Postop knee brace, TTWB (up to 10 lbs) in full extension for first ~6 weeks

- * Crutches x 10 weeks
- * Discard long leg brace after 6 weeks
- *Start unloader brace at ~8 weeks

(medial unloader for medial menisc, lateral unloader for lateral menisc)

- * Weeks 6-10 50% partial weight bearing with 2 crutches (half body weight)
- *After week 12: OK to use cane then progress to WBAT with unloader

*UNLOADER BRACE TO BE WORN AT ALL TIMES EXCEPT SLEEP FOR 6 MONTHS FOLLOWING

SURGERY

- * Range of motion:
 - Week 0 4: 0-70
 - Week 4 8: 0-90
 - Week 8: full R.O.M.
- * Begin isometric quad sets in full extension immediately:
 - -straight leg raising with knee in full extension -quad setting

Begin exercise bike and closed kinetic chain exercises at 6 weeks

- Anti-inflammatory modalities prn
- 1000 leg raises per day

REHAB GOALS	1. Protection of the post-surgical knee			
	2. Restore normal knee extension			
	3. Eliminate effusion			
	4. Restore leg control			
BRACE	1. ELS brace locked for all weight bearing activities for 4-6 weeks			
	2. ELS brace unlocked at weeks 5-8. Begin with PWB when first			
	initialed the flexed weight bearing			
ROM EXERCISES	Knee extension on a bolster			
	Prone hangs			
	Supine wall slides to 0-90 degrees			
	Heel slides to 0-90 degrees			
	*** Do not flex the knee past 90 degrees***			
SUGGESTED	• Quad sets			
THERAPEUTIC EXERCISE	• SLRs			
	• 4 way leg lifts in standing with brace on for balance and hip strength			
CARDIOVASCULAR	Upper body circuit training or UBE			
EXERCISE				
PROGRESSION CRITERIA	1. Pain free gait using unlocked brace without crutches			
	2. No effusion			
	3. Knee flexion to 90 degrees			

PHASE I (Surgery to 4 weeks)

И	PHASE II (begin at 6-8 weeks)				
	APPOINTMENTS	Meet with physician at 1 and 2 months post-op			
		Physical therapy 1x every 1-2 weeks			
	REHAB GOALS	1. Single leg stand control			
		2. Normalize gait			
1		3. Good control and no pain with functional movements,			
		including step up/down, squat, partial lunge (staying less than			
		60 degrees of knee flexion)			
	PRECAUTIONS	1. No forced flexion – as in PROM flexion or weight bearing			

	activities that push past 60 degrees of knee flexion		
	2. Avoid post activity swelling		
	3. No impact activities		
SUGGESTED	Non-impact balance and proprioceptive drills		
THERAPEUTIC EXERCISE	Stationary bike		
	Gait drills		
	Hip and core strengthening		
	Stretching for patient specific muscle imbalances		
	Quad strengthening - closed chain exercises 0-45 degrees knee flex		
	weeks 6-8 weeks and 0-75 degrees for weeks 8-10 weeks		
CARDIOVASCULAR	Non-impact endurance training: stationary bike, Nordic track,		
EXERCISE	swimming, deep water run, cross trainer		
PROGRESSION CRITERIA	1. Normal gait on all surfaces		
	2. Ability to carry out functional movements with out unloading		
	affected leg or pain, while demonstrating good control		
	3. Single leg balance greater than 15 seconds		

PHASE III (begin after meeting phase II criteria ~ 4 months)

í

	APPOINTMENTS	Meet with physician at 14-16 weeks post-op		
		Physical therapy 1x every 1-2 weeks		
	REHAB GOALS		Good control and no pain with sport and work specific	
		_	movements, including impact	
	PRECAUTIONS	1.	Post-activity soreness should resolve within 24 hours	
		2.	Avoid post activity swelling	
		3.	Avoid posterior knee pain with end range flexion	
	SUGGESTED	•	Impact control exercises beginning 2 feet to 2 feet, progressing	
	THERAPEUTIC EXERCISE		from 1 foot to other and then 1 foot to same foot –	
1			DEPENDENT ON PATIENT GOALS AND SURGEON	
		11	COLLABORATION	
1		•	Movement control exercise beginning with low velocity, single	
			plane activities and progressing to higher velocity, multi-plane	
			activities – DEPENDENT ON PATIENT GOALS AND	
			SURGEON COLLABORATION	
		•	Strength and control drills related to sport specific movements	
		•	Sport/work specific balance and proprioceptive drills	
		•	Hip and core strengthening	
		•	Stretching for patient specific muscle imbalances \Box	
CARDIOVASCULAR Replica		Rep	olicate sport or work specific energy demands	
	EXERCISE			
	RETURN TO LIGHT	1.	Dynamic neuromuscular control with multi-plane activities,	
	SPORT CRITERIA		without pain or swelling	
		2.	Biodex scores at least 85-90% of opposite side	
		3.	Surgeon clearance	
		4.	At least 6 months post op	