

Rehabilitation Protocol: Autologous Chondrocyte Implantation (ACI (Trochlea/Patella)

Na	ame:	Date:
Diagnosis:		Date of Surgery:
	Phase I (Weeks 0-12)	
· ·	• Weightbearing:	
	 Weeks 0-2: Non-weightbearing 	
	 Weeks 2-4: Partial weightbearing 	(30-40 lbs)
	Weeks 4-8: Continue with partial8)	weightbearing (progress to use of one crutch at weeks 6-
	 Weeks 8-12: Progress to full weight 	htbearing with discontinuation of crutch use
	• Bracing:	
	 Weeks 0-2: Hinged knee brace loc 	cked in extension– remove for CPM and rehab with PT
	 Weeks 2-4: Locked in extension for 	or weight bearing – Can open brace for NWB ROM 0-30°
	o Weeks 4-6: Open brace to 30° for	ambulation
	o D/C brace at 6 weeks post-op	
	• Range of Motion – Continuous Passive I	Motion (CPM) Machine for 6-8 hours per day for 1 month
	o Set CPM to 1 cycle per minute – s	
	PROM/AAROM and stretching un Theremoutie Francisca	der guidance of PT
	• Therapeutic Exercises	1
	Weeks 0-4: Straight leg raise/Qua	ad sets, Hamstring isometrics
	Perior in exercises in the p	race if quad control is inadequate
	Weeks 4-10: Begin isometric clos At work 6 can grow weight	ed chain exercises
	At week 0 can start weight	t shifting activities with operative leg in extension
	Weeks 10-12: hamstring strongth	cises and stationary bike with lightresistance
	chain knee isometrics	nening, theraband resistance exercises 0-30°, light open-
	Phase II (Weeks 12-24)	
	Weightbearing: Full weightbearing with	h a normal gait nattern
	Range of Motion – Advance to full/pain	less ROM
	• Therapeutic Exercises	NOO NOM
	o Gait training/treadmill use at slow	w-moderate nace
	o Progress balance/proprioception	
	Start sport cord lateral drills	. 5.101 51850
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	Phase III (Months 6-9)	
_	Weightbearing: Full weightbearing with	h a normal gait pattern
	 Range of Motion – Advance to full/pain 	less ROM
	Therapeutic Exercises	

o Progress to fast walking and backward walking on treadmill (add incline at 8 months)



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o Start light plyometric training
 Phase IV (Months 9-18) Weightbearing: Full weightbearing with a normal gait pattern Range of Motion - Full/Painless ROM Therapeutic Exercises Continue closed chain strengthening exercises and proprioception activities Emphasize single leg loading Sport-specific rehabilitation - jogging/agility training at 9 months Return to impact athletics - 16 months (if pain free) Maintenance program for strength and endurance
Protocol Modifications:
Comments:
Frequency:times per week Duration:weeks

Date:_____