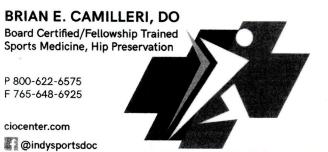


Rehabilitation Protocol: Autologous Chondrocyte Implantation (ACI) (Femoral Condyle)

Name:	Date:
Diagnosis:	Date of Surgery:
Phose I O	Weeks 0 do
	Weeks 0-12)
	Weeks 0. 2. New world the set
0	Weeks 0-2: Non-weightbearing
0	Weeks 2-4: Partial weightbearing (30-40 lbs)
	Weeks 4-6: Continue with partial weightbearing (progress to use of one crutch at weeks 6-8)
,	
· • Braci	Weeks 6-12: Progress to full weightbearing with discontinuation of crutch use
0	Weeks 0-2: Hinged knee brace locked in extension- remove for CPM and rehab with PT Weeks 2-4: Gradually open brace at 20° intervals as quad control is obtained
. 0	D/C brace when patient can perform straight leg raise without an extension lag
 Rang 	e of Motion - Continuous Passive Motion (CPM) Machine for 6-8 hours per day for 1 month
0	Set CPM to 1 cycle per minute – set at 0-30°
0	PROM/AAROM and stretching under guidance of PT
 Thera 	apeutic Exercises
0	Weeks 0-2: Straight leg raise/Quad sets. Hamstring isometrics
	Perform exercises in the brace if quad control is inadequate
0	weeks 2-6: Begin progressive isometric closed chain exercises** (see comments)
	At week o can start weight shifting activities with operative leg in extension
0	weeks 0-10; Progress bilateral closed chain strengthening, begin open chain knee
	strengthening
0	Weeks 10-12: Begin closed chain exercises using resistance (less than patient's body
	weight), progress to unhateral closed chain exercises
. 0	At week 10 can begin balance exercises and stationary bike with light resistance
¥	
Phase II	(Weeks 12-24)
 Weight 	htbearing: Full weightbearing with a normal gait nattern
капре	e of Motion – Advance to full/painless ROM
* Thera	apeutic Exercises
0	Advance bilateral and unilateral closed chain exercises
	Emphasis on concentric/eccentric control

Stationary bike/Treadmill/Stairmaster/Elliptical
 Progress balance/proprioception exercises

Start sport cord lateral drills



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P)	Phase III (Months 6-9) Weightbearing: Full weightbearing with Range of Motion – Advance to full/painles Therapeutic Exercises	a normal gait pattern ss ROM	
	 Advance strength training Start light plyometric exercises Start jogging and sport-specific train 	ning at 6 months	•
PI	Phase IV (Months 9-18) Weightbearing: Full weightbearing with a Range of Motion – Full/Painless ROM Therapeutic Exercises Continue closed chain strengthenin Emphasize single leg loading Sport-specific rehabilitation – runni Return to impact athletics – 16 month	g exercises and proprioc g ing/agility training at 9 m oths (if pain free)	
Wee lesion	eeks 2-6 - need to respect the repair site: if ante on avoid loading in flexion > 45°	rior lesion avoid loading i	n full extension, if posterio
Proto	ocol Modifications:		
		,	
*			
Comm	ments;		
Frequ	uency: times per week Duratio	n:weeks	
Signat	iture:	Date:	