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

NYU	Hospital for Joint Diseases
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Name:	Date:		
Diagnosis:	Date of Surgery:		
Phase I (V	Weeks 0-12)		
<ul><li>Weig</li></ul>	htbearing:		
0	8 8		
0	3 (		
0	1 8 04 8		
	8)		
	Weeks 8-12: Progress to full weightbearing with discontinuation of crutch use		
<ul><li>Braci</li></ul>			
0	8		
0	8 8 1		
	Weeks 4-6: Open brace to 30° for ambulation		
0	,		
_	ge of Motion – Continuous Passive Motion (CPM) Machine for 6-8 hours per day for 8 weeks		
0			
0	Year San Caracter and Table 1997		
	• Should be at 90° by week 6 and 120° by week 8		
O Thorn	6		
• Ther	apeutic Exercises Weeks 0. 4. Straight log raise / Oued gets. Hemotring isometries		
O	Weeks 0-4: Straight leg raise/Quad sets, Hamstring isometrics <ul><li>Perform exercises in the brace if quad control is inadequate</li></ul>		
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O	<ul> <li>At week 6 can start weight shifting activities with operative leg in extension</li> </ul>		
0			
0	Weeks 10-12: hamstring strengthening, theraband resistance exercises 0-30°, light open-		
<u> </u>	chain knee isometrics		
Phase II	(Weeks 12-24)		
	htbearing: Full weightbearing with a normal gait pattern		
_	ge of Motion – Advance to full/painless ROM		
_	apeutic Exercises		
0			
0	Progress balance/proprioception exercises		
0	Start sport cord lateral drills		
Phase III	I (Months 6-9)		
• Woig	hthearing. Full weighthearing with a normal gait nattern		

- **Weightbearing:** Full weightbearing with a normal gait pattern
- Range of Motion Advance to full/painless ROM
- **Therapeutic Exercises** 
  - o Advance closed chain strengthening/Start unilateral closed chain exercises
  - o Progress to fast walking and backward walking on treadmill (add incline at 8 months)
  - o Start light plyometric training

DI	hasa IV	(Months 9-18)		
F.I				
•	Weightbearing: Full weightbearing with a normal gait pattern			
•	<ul> <li>Range of Motion – Full/Painless ROM</li> </ul>			
•	Thera	apeutic Exercises		
	0	Continue closed chain strengthening exercises and proprioception activities		
		<ul> <li>Emphasize single leg loading</li> </ul>		
	0			
	0	Return to impact athletics – 16 months (if pain free)		
•		enance program for strength and endurance		
•	Maine	enance program for strength and endurance		
Comn	nents:			
Frequ	ıency: _	times per week Duration: weeks		

Date: \_\_\_\_\_

Signature: