



Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

FEMORAL CONDYLE/ TIBIAL PLATEAU MICROFRACTURE (ISOLATED)

PHYSICAL THERAPY PROTOCOL

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Patient Name:	Date of Surgery:
<u>Procedure</u> : Right/Left Knee Femoral Condy	yle/Tibial Plateau Microfracture

<u>Associated Procedure(s)</u> (circled if applicable):

- ACI biopsy
- Partial Meniscectomy/Debridement



Evaluate and T	Treat – no open	chain or	isokinetic	exercises

__ Provide patient with home exercise program

_ Phase I (0-8 wks): *Period of protection*.

- Toe-Touch Weight bearing (20%) with crutches. A brace is not required.
- ROM
- CPM: 6-8 hrs/day, 1 cycle/minute, starting with a ROM that is comfortable for the patient. Advance motion 10 degrees each day as tolerated. If CPM is not available at any point during this time, patients are to perform 1500 active-assisted cycles of the knee per day (seated at the edge of a table, with the knee over the edge).
- Gentle passive, active-assisted and active non-weightbearing (heel slides) ROM as tolerated. Goal: full ROM by week 6.
 - **Strengthening:** quad sets, co-contractions, isometric quad/hamstring strengthening, all non weight-bearing.

Phase II (8-12 wks): Transition phase.

- **Gradual return to full weight bearing.** Continue crutch use, but increase weightbearing gradually (roughly 30% each week). Full weight-bearing by the end of this phase.
- **ROM:** D/C CPM and progress to full active and passive ROM.
- **Strengthening:** Continue prior exercises, advancing to closed-chain strengthening once full weight-bearing.

Phase III (3-6 months): Begin more sport-focused conditioning.

- **ROM**: Continue active and active-assisted ROM.
- **Strengthening**: Progress closed-chain strengthening without limits. Begin treadmill walking at a slow pace and progress to balance/proprioception.
- Light plyometrics and jogging can be initiated once full quad/hams strength achieved, followed by sport-specific drills.



• High-impact activities (jumping, contact sports) are allowed after 4-5 months if full ROM and strength achieved, and no pain with sport-specific rehab.

Other:				
Modalities		Electric	cal Stimulation	Ultrasound se
Heat before	e/after	Ice bef	ore/after exerci-	se
May partic	ipate in aquath	nerapy a	fter week three	, begin aqua-running week 6
Frequency:	x/week	X	weel	κs
				this patient and physical therapy is the benefit from social services.
			Date:	
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