



Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

PROXIMAL PATELLAR REALIGNMENT (MPFL RECONSTRUCTION) WITH PATELLOFEMORAL (PATELLA/TROCHLEA) OCD FIXATION

PHYSICAL THERAPY PROTOCOL

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Patient Name:	Date of Surgery:	
<u>Procedure</u> :	Procedure: Right / Left MPFL Recon with Patella / Trochlea OCD ORIF	

Associated Procedures (Circle if applicable):

- Lateral release
- Chondroplasty
- Cartilage Repair with Bio-absorbable or Metal Screws
- DeNovo cartilage transplantation

Evaluate and Treat	Provide patient with home program

Frequency: _____x/week x ____weeks

CPM

- Initiate POD1 with 0-30°.
- Perform 3x per day in 2-hour sessions.
- Limitations:
 - o 0-2 weeks: 0-30°
 - \circ 2-6 weeks: progress $\sim 5^{\circ}$ per day

Phase I (0-2 wks): Period of protection.

- **Primary Goals:** Protect the reconstruction, minimize effusion, ROM to 30° flexion, post op pain control to 0/10 at rest, regain control of quadriceps.
- Weightbearing: Non-weight bearing with the brace locked in extension.
- **Hinged Knee Brace:** Locked in extension for all activities (including sleeping) removed for PT, CPM and hygiene.
- Range of Motion: AROM/AAROM for flexion 0-30°. PROM extension (no active extension).
- Precautions:
 - o Avoid patellar lateralization
 - o No active knee extension until 6 weeks post-op
- Therapeutic Exercises:
 - Heel slides 0-30°
 - o Quad sets with towel under heel
 - Hamstring sets
 - o Ankle pumps
 - o Core and hip strengthening
 - o Non-weightbearing calf/hamstring stretches
 - Very gentle patellar mobilization (medial ONLY)
 - o Cryotherapy and elevation important

__ Phase II (2-6 wks): Healing phase.

- **Primary Goals:** Increase ROM, supine straight leg raise without extensor lag, demonstrate good quadriceps contraction.
- Weightbearing:
 - o 2-4 weeks: Partial Weight Bearing (PWB)
 - o 4-6 weeks: Weight Bearing as Tolerated (WBAT)
- **Hinged Knee Brace:** Locked in extension for all activities (including sleeping) removed for PT, CPM and hygiene.
- Range of Motion: AROM/AAROM/PROM in flexion: Goal 0-90° by 4-6 weeks. Passive extension only.
 - o CPM: Discontinued after 6 weeks



Precautions:

- Avoid patellar lateralization
- o No active knee extension until 6 weeks post-op (Phase III)

• Therapeutic Exercises:

- o As above.
- o Initiate straight leg raises with brace locked in full extension. Can progress to straight leg raise out of the brace if capable of full extension; goal is to do a set of 30 SLRs to graduate out of the hinged knee post-op brace.

Phase III (6-12 wks): Transitional Phase

- Weightbearing: Gradual return to WBAT.
- **Hinged Knee Brace:** May discontinue once WBAT and able to do a strong set of 30 SLR.
- Range of Motion: AROM/AAROM/PROM Full pain free ROM 0-130°.
- Therapeutic Exercises:
 - o Once no lag on SLR, can begin closed-chain quad/core and hamstring strengthening as follows: for weeks 6-9, only do strengthening with knee bent 60 degrees or more; after 9 weeks, can begin to advance closed chain strengthening at progressively greater degrees of extension (advance ~20 degrees per week, such that strengthening is done from full extension to full flexion by 3 months).
 - No lunges.
 - Stationary biking at 6wks (no resistance)
 - o Rowing, Elliptical and Stair Master at 8wks
 - o Swimming at 10wks
 - o Continue core and hip strengthening

Phase IV (3-6 months): Advanced Phase

- Weightbearing: Full
- Range of Motion: Full
- Therapeutic Exercises:
 - o Light plyometrics initiated at 3 months.
 - O Criteria to start running program: walk with normal gait for 20 minutes, pain free ADLs, ROM > 0-125°, hamstring and quad strength >70% contralateral side, no pain, no edema, no crepitus, no giving-way
 - \circ From 4.5 6 months, begin and advance sport-specific activities (running, agility training).
 - High-impact activities (jumping, contact sports) allowed once full motion and strength achieved (usually between 5-6 months).

• Return to sport

- o 85% limb symmetry with strength and functional testing
- o Demands of sport met
 - Muscular endurance
 - Flexibility



o First Season back to play in J-brace

By signing this referral, I certify that I have examined this patient and physical therapmedically necessary. This patient wouldwould not benefit from social services.			
	Date:		
Bryan M. Saltzman, MD			