

Rehabilitation Guidelines for Medial Patellofemoral Ligament (MPFL) Reconstruction

Phase	Intervention	Goals and Criteria for Progression
First post-operative visit until Week 6	**Precautions UNLESS OTHERWISE INDICATED BY PHYSICIAN: • WBAT in extension until appropriate quad control • Wear brace when ambulating • ROM limited 0-90° for first 6 weeks Physical Therapy: • Ankle pumps • Calf stretching • Proximal hip strengthening in brace • Quad sets • Straight leg raises (once no quad lag) • NMES to quads w/ active quad set • Heel slides	Control pain and inflammation Protect incision and repair Monitor for infection Be able to initiate and sustain quad contraction Perform a straight leg raise w/o a quad lag ROM 0-90°
Weeks 6-8 Expected visits: 1-2x/week	ROM: Progress ROM to 120° by week 8 Full WB by week 6 Continue NMES to quads Physical therapy:	No effusion ROM to at least 120° Reciprocating gait on stairs at the end of week 8



Weeks 8-16	ROM: Achieve full AROM by week 10-12	Consider lateral step down test by week 12
Expected visits: 1-2x/week	Continue strengthening from previous phases, increasing loads to build strength, 8-12 sets, 6-10 RM of involved Full arc OKC knee extension by week 12 Continue BFR training as adjunct	Return to jogging from weeks 12-16: No effusion No pain Symmetrical AROM Quad and Hamstring strength via HHD at least 75% Lateral step down test symmetrical
Weeks 16-24	Once cleared for jogging, provide walk/jog program to be completed every other day (when appropriate	Once walk/jog program completed, begin return to sprinting progression if appropriate
Expected visits: 1-2x/week	Initiate low impact progressions	Hop testing battery Y Balance test HHD testing PRO's - IKDC and ACL-RSI Consider return to participation in sport when strength and hop testing values at least 85% of the uninvolved side Individual drills Drills w/ chaos (1 on 1 basketball, 3 v 3 soccer) Team drills, non-contact Team drills, contact or reduced constraints Achieve symmetrical passive flexion by 5-6 months



Weeks 24+

Expected visits: 1x/week to once every other week

**Full release to sport on approval from MD, PT, and after completion of full participation in practices and team activities. Return to sport DOES NOT necessarily mean release to full participation in full games. There will be a progression to this as well.

Progress plyometric activities

- Continue earlier exercises, moving to more explosive movements with full recovery
- Jumps FROM Box
- Reactive jumps
- Tuck jumps

Strengthening/Power Training

- Based on deficits
- Emphasize strength if values not 90% or >
- Transition to power-based activities when strength symmetrical

CRITERIA FOR DISCHARGE TO RETURN TO SPORTS:

- IKDC at least 90, ACL-RSI at least 100
- Symmetrical AROM and PROM
- Quad mass within 1 cm of the uninvolved
- HHD testing 95% or greater
- Single leg press to 90° 2x BW 10x if no HHD
- All hop tests 95% or greater
- SLVJ 95% or greater
- Reactive strength within 5-10%
- Return to sport progression completed