

Kyle Flikkema, DO

Phone: 763-786-9543 | Website: TCOmn.com/Kyle-Flikkema

MCL Reconstruction/Repair Rehabilitation Protocol

Phase / Goals	Immobilization	ROM	Therapeutic Exercises
Phase 1 (0-2 weeks) Goals: ROM 0-90° No quad lag	 Hinged Knee Brace at all times including sleep Toe-touch weight bearing x 6 wks 	 PROM 0-90° Patellar & patellar tendon mobilization Modalities PRN 	 Home stretching 2-3x daily Flexion/extension seated/calf assisted Quad sets, SLR Ankle pumps Avoid excessive hamstring stretches, active hamstrings for 6 weeks if autograft used
Phase 2 (3-4 weeks) Goals: Control effusion Full PROM	 Hinged brace at all times including sleep TTWB x 6 wks 	Full PROM, begin AAROMPatellar mobilizationModalities PRN	 Closed chain strengthening 0-45° Quad sets/SLR in Brace at 0° BFR – initiate post op day 15
Phase 3 (5-6 weeks) Goals: FWB Full A/PROM 4/5 quad strength	 Hinged brace at all times including sleep TTWB x 6 wks 	 Progress to full A/PROM Patellar mobilization Modalities PRN 	 Begin stationary bike w/ no resistance once ROM 0-120° ¼ squats, leg press 0-60° light weight Gentle sit and reach for hamstrings (no hypertext) Start proprioception training in hinged brace Can begin pool therapy, but NO kicking
Phase 4 (7-8 weeks) Goals: FWB	 Wean from crutches, advance to full weight bearing Transition to sport/ACL brace for any weight bearing activities 	Full A/PROMPatellar mobilization	 Stationary bike with no resistance Small forward step-ups Toe/heel raises Progress from bilat leg press to unilateral w/ light weight Continue with strengthening from phase 3

Phase 5 (9-12 weeks) Goals:	 FWB Functional sport/ACL brace for any weight bearing activities 	Full A/PROM	 Double knee bends. Double leg bridges Reverse lunge static holds Stationary bike, water walking Leg press 0-90° light weight Mini squats 0-45°, progress to single leg wall squats Stationary bike (resistance at 10 wks), water walking
Phase 6 (13-16 weeks) Goals: • 45 min aerobic endurance	FWBWean from brace	Full A/PROM	 Treadmill walking, aqua jogging, alter-G Elliptical, rowing Balance squats Single leg deadlift Leg press (max. knee flexion 70) Continue to progress strengthening from phase 5
Phase 7 (17-22 weeks) Goals: Begin running progression Initiate agility exercises	 FWB No brace May continue brace for impact/sports 	Full A/PROM	 Start walk-run program Stairmaster Backward walking Start light agility program and may progress as tolerated
Phase 8 (>23 weeks) Goals: Return to play progression	 FWB May use brace for sports if desired 	• Full A/PROM	 Start plyometric/jump training. Agility exercises Isokinetic test for Quad strength difference ≤ 10% and unilateral Hamstring/Quad strength ratio of 65% or better Continue strength testing monthly until patient passes then perform functional testing Dr. Ridley to discuss prior to return to sport

RETURN-TO-SPORT CRITERIA:

Full return to all sports and games

- At least 6 months from surgery
- No functional complaints, full range of motion & no effusion
- · Confidence when running, cutting, jumping at full speed
- >90% isometric quadriceps strength
- >90% contralateral values on hop tests
- >90% Quad Index LSI with Biodex or HHD
- >90% Quad peak torque/body weight on Biodex (if applicable)
- Excellent ACL-RSI
- May choose to wear sport/ACL brace for sports/recreational activities for first year after surgery