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PCL Reconstruction Rehabilitation Protocol

Phase / Goals	Immobilization	ROM	Therapeutic Exercises
Phase 1 (0-2 weeks) Goals: ROM 0-90° Protect posterior tib sag No quad lag	 Knee immobilizer until POD 3-5 when swelling allows for PCL brace PCL brace at all times including sleep 25% WB brace locked in full extension x 4 weeks 	 PROM 0-90° – all ROM exercises performed prone or side lying x 6 weeks Patellar & patellar tendon mobilization Modalities PRN 	 Home stretching 2-3x daily Flexion/extension seated/calf assisted Quad sets, SLR Ankle pumps No hamstring isometrics x6 weeks Avoid knee hyperextension x12 weeks
Phase 2 (3-4 weeks) Goals: Control effusion Full PROM	 PCL brace at all times including sleep 25% WB brace locked in full extension x 4 weeks 	 Full PROM, begin AAROM PRONE or side lying x 6 wks Avoid hyperextension Patellar mobilization Modalities PRN 	 Closed chain strengthening 0-45° Quad sets/SLR in Brace at 0° (assist patient with this exercise until solid quad contraction developed, prevent posterior sag) 3x10 3x's/daily, may use ankle weights as they will increase anterior translation BFR – initiate post op day 15
Phase 3 (5-6 weeks) Goals: FWB Full A/PROM 4/5 quad strength	 Progress to FWB with brace locked in extension Otherwise brace unlocked PCL brace at all times including sleep 	 Progress to full A/PROM Avoid hyperextension Patellar mobilization Modalities PRN 	 Begin stationary bike w/ no resistance once ROM 0-120° ½ squats, leg press 0-60° light weight Gentle sit and reach for hamstrings (no hypertext) Start proprioception training in brace Can begin pool therapy, but NO kicking
Phase 4 (7-8 weeks) Goals: FWB	FWB with brace locked in extension Otherwise brace unlocked PCL brace at all times including sleep	 Full A/PROM Avoid hyperextension Patellar mobilization 	 Stationary bike with no resistance Advance to CKC 0-45 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 with brace unlocked if good quad control PCL Brace full-time May remove for sleep 	Full A/PROM ○ Avoid hyperextension	 Single leg stance Hamstring curls 0-90° light weight 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	FWB PCL Brace full-time except for sleep	Full A/PROM	 Treadmill walking, aqua jogging, elliptical, rowing Can begin to swim w/ crawl stroke only, NO frog leg or breast stroke Continue to progress strengthening from phase 5
Phase 7 (17-28 weeks) Goals: Full swim kicks	FWB PCL brace full-time except for sleep	Full A/PROM	 Progress leg press and knee bends >70° Start walk-run program at 20 weeks Backward walking Stairmaster Start light agility program and may progress as tolerated
Phase 8 (>29 weeks)	FWB DC full-time brace PCL brace for sports activities until 12 months post op	• Full A/PROM	 Start plyometric/jump training 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 No cutting/pivoting x 9 months Dr. Ridley to discuss prior to return to sport

RETURN-TO-SPORT CRITERIA:

Full return to all sports and games

- Atleast 10 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
- Wear PCL brace for sports/recreational activities for first year after surgery