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Non-operative PCL and PCL Avulsion Rehabilitation Protocol

rnase/ Goals	immobilization	KUIVI	Inerapeutic Exercises
Phase 1 (0-6 weeks) Goals: Protect the PCL Decrease swelling Gain some early ROM Prevent posterior tibial translation (12 weeks) Gait mechanics	Hinged Knee Brace or PCL brace at all times (including rehab and sleep) x 12 weeks Touchdown weightbearing x 2 weeks with brace locked in extension – may unlock for sitting and therapy. Progress to WBAT after week 2	 Avoid isolated hamstring exercises 0-90 prone only ROM x 4 weeks, then progress to ROM as tolerated Modalities: Cryocuff/Game Ready Compression/ Ice 	 Quad sets and activation Prone ROM in brace Straight leg raises when quad can lock in extension and no lag Gastric stretching Hip abduction/adduction Stationary bike starting at 2 weeks with no resistance and no flexion > 90 Long sitting HS stretch Ankle pumps Calf raises when weaned from crutches
Phase 2 (7-12 weeks) Goals: Avoid hyperextension Protect PCL Progress weightbearing Obtain full ROM Crutch wean	Full ROM Unlock brace for ambulation week 6	Begin full A/ PROM as tolerated supine and prone Can be WBAT in brace unlocked with crutches — wean when gait mechanics normalize Modalities: edema control/ice Patellar mobs all directions Gentle prone quad stretch/knee flex	 Bike for ROM with progressive resistance Heel slides/wall slides/seated assist flexion Leg press (no deeper than 70 degrees) Calf raises/toe raises Balance exercises Hamstring bridges on bosu with knees extended Gait training- when gait WNL, progress to incline Squat progression Wobble board/Dyna-disc/Bosu balance

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Goals: Increase functional strength Full painless ROM Discontinue Brace Progress ROM strength beyond 70 degrees	Maintain ROM and full weightbearing	 Full A/PROM Discontinue brace after week 12 Manual: Joint mobs PRN for full flex and ext ROM Modalities: Ice/stim PRN 	 Bike, elliptical, stair master as tolerated May begin isolated hamstring strengthening Lateral walks with sport cord Squats on dynamic surfaces with ball toss and perturbation training Single leg deadlift Begin straight ahead walk-jog progression week 12 if full ROM/no edema/full strength and quad circumference 90% uninjured side (SUPERVISED) No cutting or pivoting Advance closed chain exercises and proprioception activities
Phase 4 (4-6 months) Goals: Return to sport or full activity		• Full A/PROM	 Continue everything in phase 3 Muscular power – squads, split jumps, sled drags Develop maintenance program