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PCL RECONSTRUCTION PROTOCOL

(TO BE GIVEN TO PHYSICAL THERAPIST)

	WEIGHT BEARING	BRACE	ROM	THERAPEUTIC EXERCISE
WEEK 1:	Full in brace	 Locked at 0° extension OK to remove for hygiene and exercises Wear while sleeping 	Locked in extension	 Extension: Passive knee extension using towel roll, prone hangs Strengthening: Begin quad setting with knee support, plantarflexion/dorsiflexion, eversion/inversion strengthening Avoid Hamstring strengthening until 6 weeks post op
WEEK 2:	Full in brace	Locked at 0° extension OK to remove for hygiene, exercises AND SLEEP	As tolerated	 Extension: Passive knee extension using towel roll, prone hangs Open kinetic chain: SLR w/ brace in full extension until quad strength prevents extension lag, Hip abd/adduction, hip extension, No hamstring strengthening until 6 weeks post op Closed Kinetic Chain: Heel raises, leg press with minimal resistance Trunk stabilization Manual Interventions: patellar mobs, tibiofemoral mobs into extension, soft tissue as indicated



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WEEKS 3- 4:	Full in brace	 Brace unlocked, with ROM set to 0-90° for exercise OK to remove for hygiene, exercises AND SLEEP 	Increase flexion PROM approx. by 10° per week Achieve and maintain full passive and active extension	 Open Kinetic Chain: Straight leg raises into flexion with emphasis on endurance of quadriceps and full knee extension Open Kinetic Chain: Hip strengthening and leg extensions 90-40 degrees without weight – quad activation Closed Kinetic Chain: step ups, heel raises progressing to single leg No hamstring activation or active knee flexion Manual interventions, modalities and trunk stabilization exercises, front and side planks
WEEKS 4- 6:	Full with brace Start transitioning off brace after Day 28	 Brace unlocked, with ROM set to 0-90° for ambulation OK to discontinue brace at day 28 if patient has no extension lag 	• ROM 0-90 degrees	 Manual interventions, modalities and trunk stabilization exercises, advance hip/core Gait training, wall slides (0-30°), Mini-squats (0-30°), Leg press (0-60°)
WEEKS 6- 8:	• Full	• None	Full active and passive extension and flexion ROM	 Manual interventions, modalities and trunk stabilization exercises Gait training, wall slides (0-30°), Mini-squats (0-30°), Leg press (0-60°)
WEEKS 8- 16:	• Full	• None	• Full	 Advance closed chain strengthening Progress proprioception activities Begin Stairmaster, elliptical, and running straight ahead at 12 weeks



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WEEKS 16-24:	Full weight bearing	• None	Full and pain free range of motion	 Begin Stationary Bike (seat higher than normal) Progress intensity of strengthening program, stair climber, walking incorporating single leg activities Functional Goals: reciprocal stair ascending, walking with normal gait pattern Progress intensity of strengthening program incorporating single leg activities 16 weeks: begin jumping 20 weeks: advance to sprinting, backward running, cutting/pivoting/changing direction, initiate plyometric program and sport specific drills
MONTH 6+	Full weight bearing	• None	Full and pain free range of motion	 Begin jogging – advance to full running at 9 months Advance proprioception, balance training Plyometrics Full cutting and return to sport around 9 months if all criteria met