





PCL post operative treatment protocol

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Time following injury	Goal	Precaution	Treatment	Weight bearing/ROM/brace
Phase 1 (0 to 6 weeks)	PCL protection Oedema reduction to improve passive ROM and Quadriceps activation	Protect, Rest, Ice, Compress, Elevate Avoid isolated hamsting ex ercise untill week 12	Patellar Mobilisation  Prone passive ROM (Fig 1)  Quadriceps activation: Quadriceps sets; SLR	non weight bearing with crutches 6 weeks Prone passive ROM from 0 to 90 (Fig 1) for first 2 weeks and then progress to full ROM Brace.
	Address gait mechanics	Avoid hyperextension	once the quadriceps are able to lock joint in terminal extension and no lag is present	Cricket pad splint for 3 days till ready for PCL
	Patient education	Prevent posterior translation	Gastronemius stretching Hip abduction/adduction Upper body and core strength as appropriate	PCL brace to be worn at all time for 24 weeks
Phase 2 (6 to 12 weeks)	PCL ligament protection Full ROM as tolerated Gait mechanics during crutch weaning	Continue avoidance of hyperextension and isolated hamstring activation  Prevent posterior translation	Continue PRICE protocol Continue excercises as week 1-4 Gastronemius and light Hamsting	Wt bearing as tolerated Full ROM supine and prone PCL brace at all times
	Address gait mechanics during crutch weaning  Double leg strength through		stretching Weight shifts to prepare for crutch weaning Pool walking to assist with crutch weaning	
	ROM (no greater than 70 degree) and single leg static strength excersises		Progressive suatting (squat-squat with calf raise-squat with weight lift Light kicking in pool	
	Reps ans set structure to emphasize muscular endurance development	Cinals low does life with lines	Incline tredmill walking (7-12% incline)	
		Single leg dead lift with knee extended (Fig 5) Proprioceptive and balance exercises	Double leg press (0 to 70 degree)	
Phase 3 (13 to 18 weeks)	Joint protection  Address gait mechanics  Progressive weight bearing	Avoid isolated weight hamstring excericse untill 16 weeks  Can progress leg press and knee	Double leg press with progression to single leg (Fig 2) Balance squats (Fig 6)	Remain in PCL brace for all activities Full wt bearing in PCL brace
			Progress stationary bike resistance and duration Squat progression Single leg bridges starting during week 16	Full passive ROM
Phase 4 (19 to 24 weeks)	Strength building and single leg endurance for all lower exteremity musculature with increased emphasis to developing power	PCL brace Clinical examination and stress radiograph to objectively verify healing of PCL after 24 weeks	Continue OKC and CKC strength and endurance work with progressive weight Iniciate spot specific drill at the end of this	Non contact sports Contact sports when:greater than 85%-90% normal quards strength: No evidence of instability or give way;Greater than 90% functiona on return to sports testing; Mentally prepared Athlete
Phase 5 (25 to 36	Patient education and return to		phase	Jogging:
week)	activity progression		Initiate absorbtion activity Continue strength and endurance excercisesand OKC for quadriceps and	wk1: 4min walk; 1min jog (for 20 min) wk2: 3min walk; 2 min jog (for 20 min) wK3: 2min walk; 3 min jog (for 20 min)