

PCL Surgical Reconstruction Protocol

Initial precautions: Avoid knee hyperextension for 12/52 and active hamstrings work for 16/52.

Brace should be worn for 6 months at all times except showering and changing clothes.

0-6 weeks

- Swelling management (RICE).
- Place in cricket splint, referral to appliances for PCL Jack brace fitting.
- NWB for 6/52 in Jack brace.
- **In prone only:** Gentle **passive** knee ROM (0-90°) for 2/52, then FROM as able.
- TAQ's, SLR, Hip Add and Abd maintenance exercises.
- Patella mobilisation (superior/inferior, medial/lateral).
- Gentle gastrocnemius stretches.

6 – 12 weeks

- Continue with previous ex's and add gentle hamstrings stretches.
- WBAT in Jack brace as able if no limp.
- Double legged OKC quads and CKC ex's: both <70° knee flexion (3 sets of 20 reps).
- ROM exercises can now be performed in supine.
- Hamstrings bridges on gym ball with knees extended.
- Static bike (no resistance) when sufficient ROM.
- Proprioception and heel raises once FWB.

12 – 18 weeks

- Progress ex's to single leg (leg press, step ups, side dips etc)
- Progressive increase of resistance and duration on static bike
- Progress strength exercises beyond 70° knee flexion from week 16
- Single leg bridges with knee flexed to 90° from week 16.
- Start isolated OKC hamstrings exercises from week 16

19 – 25 weeks

- Strength bias ex's (3 sets of 8-12 reps).
- Discontinue PCL Jack brace from week 24.

25 weeks +

- Start jogging if sufficient strength and stability with functional ex's and quadriceps girth >90% of uninjured side (measure 15cm above superior border of patella).
- Graduated running program – start with 1 minute run, 4 minute walk (1:4) for 20 minutes. Increase running time by 1 minute each week with subsequent reduction of walk by 1 minute (2:3) so that the patient should be able to run for 20 minutes after 5 weeks.

- Once running program completed progress from single to multi-plane agility ex's.
- Return to training for specific sports.
- Return to contact sports if >85% of good leg on functional testing.

References

Pierce, C.M. et al (2012) Posterior cruciate ligament tears: functional and postoperative rehabilitation, *Knee Surg Sports Traumatol Arthrosc.* DOI 10.1007/s00167-012-1970-1

Jacobi M, Reischl N, Wahl P, Gautier E, Jakob RP (2010) Acute isolated injury of the posterior cruciate ligament treated by a dynamic anterior drawer brace. *J Bone Joint Surg Br*92:1381–1384

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