

PCL REPAIR

Post-Operative Therapy

0-2 Weeks:

- Non-weight bearing (NWB) for 6 weeks with crutches
- Use immobilizer for 3–7 days until sufficient quadriceps control is achieved, then transition to Dynamic PCL Brace (Rebound Brace).
 - Wear PCL brace for 6 months post-operatively.
- Range of Motion (ROM) (Prone position only) to avoid posterior tibial glide and tension on the PCL graft:
 - Passive flexion: 0-90°
 - Active assisted extension: 70-0°
 - o Focus on maintaining full extension.
 - Restrictions: No active knee flexion or open-chain hamstring isometrics for 8 weeks.
- Patella mobilization
- Towel extensions
- Prone hangs
- Supine straight leg raises (SLR) with brace locked at 0°
- Quadriceps isometrics at 60° knee flexion
- ROM (Prone only):
 - Active assisted extension: 90-0°
 - Passive flexion: 0-90°
- Short-crank (90mm) ergometry
- Progressive resistance SLR in all planes
- Multiple-angle quadriceps isometrics (60° to 20°)
- Weight Bearing:
 - Begin weight-bearing as tolerated (WBAT) progression, advancing from toetouch weight bearing (TTWB) to partial weight bearing (PWB) (25%, then 50%) starting at 6 weeks.
 - Full weight-bearing by 8 weeks post-op.
- Crutch and Brace Usage:
 - o Discontinue crutches when gait is non-antalgic (6-8 weeks).
 - Initiate forward step-up program (6-8 weeks).

Weight Bearing Status:

NWB for 6 weeks

Brace Settings:

- Immobilizer for 3-7 days
- Transition to PCL brace once adequate quadriceps control is achieved
- Wear PCL brace for 6 months

ROM Restrictions:

• PROM 0-90° starting post-op day 1 in prone position

2-6 Weeks:

- Continue progressing ROM as tolerated
- Begin stationary bike with low resistance and leg presses (up to 70° knee flexion)
- Initiate active-assisted range of motion (AAROM) exercises
- Use stairmaster (6-8 weeks)
- Begin proprioception training (e.g., Prop Board, BAPS)

6-12 Weeks:

- Continue stationary bike and standard ergometry if knee ROM > 115°
- Leg press and mini-squats (60-0° arc)
- Initiate step-down program (8-10 weeks)
- Continue AAROM exercises
- Incorporate lunges and advanced proprioception training (perturbations)
- Begin agility exercises (sport cord)
- Use Versaclimber
- Start retrograde treadmill running
- · Quadriceps stretching

12-20 Weeks:

- Continue strengthening with leg press, mini-squats, and stationary bike
- Focus on AAROM exercises, proprioception, and agility training
- Start forward running if able to descend 8" step satisfactorily
- Continue lower extremity strengthening, flexibility, and proprioceptive training

20-26 Weeks:

- Initiate plyometric program (if strength base is sufficient)
- Perform functional hop test (aim for >85% compared to the contralateral leg)
- Discontinue dynamic brace if kneeling stress X-rays show <2mm of difference

>26 Weeks:

- Continue advancing plyometric program, agility, and sport-specific training
- Progress lower extremity strengthening, flexibility, and proprioception training

Note: Progression through these phases should be based on individual recovery, with all exercises adjusted as necessary under the guidance of your surgeon and physical therapist. Regular follow-ups with the surgical team are crucial to ensure optimal recovery