

Christopher Kim, MD, Scott G. Kaar, MD

Department of Orthopaedic Surgery Sports Medicine and Shoulder Service

PCL Reconstruction Rehab Protocol Prescription

Patient Name:	Date:	
Diagnosis: PCL tear	Frequency: 2-3 visits/week	Duration: 4 months

Week 1 - 2 (Brace locked in extension, TTWB in brace locked in extension)

- Ankle pumps every hour
- Post-op brace to maintain full extension.
- Quad sets & SLR (Brace on) with no lag
- TTWB with crutches
- Ice or Cryocuff Unit on knee for 20-30 minutes every hour
- Passive ROM exercises: Limits: 0 to 40 degrees (prone only if possible)
- No active knee flexion or open chain knee flexion
- No hamstring workouts

Week 3-6 (ROM 0-90 deg, TTWB with brace locked in extension)

- Supervised PT: 2-3 times a week (may need to adjust based on insurance)
- Continue SLR's in brace with foot straight up, quad isometric sets, ankle pumps, heel slides
- No active hamstring workouts
- No weight bearing with knee in flexed position, TTWB with brace locked in full extension
- Patellar mobilization exercises
- Brace locked in full extension for ambulation and sleeping, and may unlock for sitting with limit 0-90 deg.
- May not remove brace for HEP

Week 7 (ROM as tolerated, TTWB with brace locked in extension)

- Continue with above exercises/ice treatments
- Advance ROM as tolerated with no limits with brace on
- Stationary bike for range of motion (short crank or high seat, no resistance) Ok to remove brace for bike here
- No weight bearing with knee in flexed position, continue TTWB with brace locked in full extension
- Perform scar message aggressively
- Progressive SLR program for quad strength with brace on start with 1 lb, progress 1 -2 lbs per week
- Hamstring active knee flexion OK
- Seated leg extension (90 to 40 degrees) against gravity with no weight
- Hip adductor, flexor strengthening

Week 8 (TTWB as above)

- Continue all exercises
- No weight bearing with knee in flexed position, TTWB with brace locked in full extension
- Flexion exercises seated AAROM
- AAROM (using good leg to assist) exercises (4-5x/day) with brace on
- Continue ROM stretching and overpressure into extension
- SLR's with brace on
- Leg press 0-70° arc of motion

Week 9 (WBAT)

- Continue above exercises
- Start WBAT with brace on in full extension and D/C crutches when stable
- Hamstring and calf stretching
- Self ROM 4-5x/day using other leg to provide ROM
- Advance ROM as tolerated no limits, may remove brace for ROM
- Regular stationary bike if flexion > 115°
- Heel raises with brace on
- Hip/core strengthening and proprioceptive training

Week 10

- Continue above exercises
- Unlock brace for ambulation when quad control adequate
- Mini squats (0-60 degrees) and quad strengthening
- 4 inch step ups
- Isotonic leg press (0 90 degrees)
- Lateral step out with therabands
- Hip strengthening

Week 11

• D/C brace if quad control adequate

Advance ROM, Goal: 0 to 115 degrees, walking with no limp

- Add ball squats
- Initiate retro treadmill with 3% incline (for guad control)
- Increase resistance on stationary bike
- Mini-squats and weight shifts
- Sport cord (bungee) walking
- 8 inch step ups
- 4 inch step downs

Week 12

- Begin resistance for open chain knee extension
- Swimming allowed, flutter kick only
- Bike outdoors, level surfaces only
- Progress balance and board throws
- Plyometric leg press
- 6-8 inch step downs
- · Start slide board
- Jump down's (double stance landing)
- Progress to light running program and light sport specific drills if:

Quad strength > 75% contralateral side

Active ROM 0 to > 125 degrees

Functional hop test >70% contralateral side

Swelling < 1cm at joint line

No pain

Demonstrates good control on step down

Week 12-22

- · Stairmaster machine
- If full ROM, quad strength > 80% contralateral side, functional hop test >85% contralateral side, satisfactory clinical exam:

Progress to home program for running. Progress to hops, jumps, cuts and sports specific drills. Begin to wean from supervised therapy.

6-12 months

• Criteria to return to sports

Full Active ROM

Quadriceps >90% contralateral side

Satisfactory clinical exam

Functional hop test > 90% contralateral side

One Year

Doctor visit

Concerns or questions:

Duncan (clinical nurse specialist – Dr. Kaar) at **(314) 577-8525** / email: **dmchardy@slu.edu Julia** (clinical nurse specialist – Dr. Kim) at **(314) 577-8524** / email: **santiagoja@slu.edu**General office at (314) 256-3850 (SLUH South Campus Clinic); (314) 768-1050 (St Mary's Clinic); Cardinal Glennon (314) 577-5640

Physician Signature: