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Sports Injury and Joint Replacement Surgery for the Hip and Knee

NON-OPERATIVE PCL PROTOCOL

Phase I - 0-6 weeks:

Precautions:

- RICE
- No hyperextension 12 weeks
- · No posterior tibial translation 12 weeks
- PWB with crutches 2 weeks
- Prone passive ROM 0-90° 1st 2 weeks then full ROM
- PCL Jack brace at all times including rehab and sleep for 12 weeks

Goals:

- PCL ligament protection
- Oedema reduction
- · Gait mechanics addressed
- · Patient education

Therapeutic Exercise:

- Patella mobilisations
- Prone passive ROM
- Quads activation
- · Gastrocnemius stretching
- Hip abduction/adduction
- Stationary bike with 0 resistance when ROM >115°

Phase II - Post-Operative Weeks 6 to 12:

Precautions:

- No hyperextension 12 weeks
- No posterior tibial translation 12 weeks
- WBAT
- · Full supine and prone ROM after 6 weeks
- · PCL jack brace all times 12 weeks

Goals:

- PCL ligament protection
- Full ROM
- · Address gait mechanics during crutch weaning
- Double leg strength through ROM (no greater than 70° knee flexion) and single leg static strength exercises
- Reps and set structure to emphasize muscular endurance development (3 sets of 20 reps)

Therapeutic Exercise:

- RICE
- · Same exercises as weeks 1-4
- · Gastrocnemius and light hamstring stretching
- Leg press limited 0-70° of knee flexion
- Progressive squats
- · Static lunge
- · Hamstring bridges on ball with knees extended
- · Progressive resistance stationary bike
- Light kicking in pool
- Incline treadmill walking
- Single leg dead lift with knee extended
- · Proprioceptive and balance exercises

Phase III - Post-Operative Weeks 13-18:

Brace:

· Discontinue Jack brace at 12 weeks

Goals:

- Reps and set structure to emphasize muscular strength development
- Progress ROM strength to beyond 70° knee flexion
- · Prepare athlete for sport-specific activity
- Clinical exam/PCL stress x-ray to verify PCL healing after week 15

Therapeutic Exercise:

- · Double leg press with progression to single leg
- · Single leg knee bends
- Balance squats
- Single leg dead lift
- Single leg bridges starting during week 16
- · Continue bike and treadmill walking
- Running
 - » Allowed once sufficient strength and stability developed with functional exercise and quads girth >90% of contralateral normal side
 - » Outline
 - Week 1: 4 min walk; 1min jog for 15-20min
 - Week 2: 3 min walk; 2 min jog for 20 min

- Week 3: 2 min walk; 3min jog for 20 min
- Week 4: 1 min walk; 4 min jog for 20 min
- » Once running progression is completed, continue single plane agility with progression to multi-planar agility

Phase IV - Post-Operative Weeks 19+:

Goals:

- · Continue exercises and protocol from weeks 13-18
 - » Sets and reps structure to emphasize power development
 - » Sport specific agility exercises
 - » Non-contact RTP following clearance from surgeon
 - » Full contact RTP when specific criterion met:
 - Full active ROM
 - >90% normal quads strength
 - No instability
 - >90% function on RTP sport testing
 - Athlete mentally ready to RTP and not fearful of reinjury

Reference:

Pierce CM, O'Brien L, Griffin LW, LaPrade RF. Posterior cruciate ligament tears: functional and postoperative rehabilitation. Knee Surgery, Sports Traumatology, Arthroscopy. 2013 May;21(5):1071-84.

Do you still have a question about your recovery that has not been answered within this document?

Please contact Dr Awwad's office prior to your surgical date at: awwadadmin@orthosa.com.au

Sometimes we may miss a question that is important to you. If so, please feel free to email us your feedback so that we can improve our service to you and future patients – awwadadmin@orthosa.com.au



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Ask **Dr Awwad** to clarify your restrictions prior to surgery to avoid disappointment.

