

**ACL and PCL Reconstruction:**

*The intent of this protocol is to provide the therapist with guidelines of the post-operative rehabilitation course after an ACL and PCL reconstruction. It should not be a substitute for one's clinical decision making regarding the progression of a patient's post-operative course based on their physical exam findings, individual progress, and/or the presence of post-operative complications. The therapist should consult the referring physician with any questions or concerns.*

**INDIVIDUAL CONSIDERATIONS:**

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**Phase 1 (Weeks 2-6)**

- Anti-inflammatory modalities
- Patellar Mobilizations
- ROM: flexion to 90 degree maximum; Achieve terminal extension
- Weight bearing: WBAT with brace locked in extension
- Straight leg raises
- No open chain quad exercises
- Brace on at all times
- Short crank bike at 4 weeks if tolerated

**Phase II (Weeks 6-12)**

- Begin squat/step program
- Begin proprioception program
- Begin quadriceps isotonic with proximal pad in 90° - 40° arc
- Continue closed chain quadriceps strengthening in 90 deg arc (leg press, wall slides)
- Nordic track if available
- Hip Strengthening

- Hamstring (isometric only), Adductor, Achilles strengthening
- Hamstring, Achilles Tendon stretching
- Patellar Mobilization
- Anti-Inflammatory Modalities
- Closed chain stationary bike - minimal resistance up to 20 minutes

### **Phase III (Weeks 12-24)**

- Quadriceps isotonics - full arc for closed chain. Open chain: 90°- 40° arc
- Begin functional exercise program
- Isokinetic quadriceps with distal pad
- OK to walk on treadmill (forward) & slow retrostep
- Begin running program at 18 weeks
- KT-1000 test
- Continue isolated muscle stretching & strengthening / Continue bike

### **Phase IV (Weeks 24+)**

- Full arc progressive resistance exercises - emphasize quads
- Agility drills
- Advanced functional exercises
- Progress running program – cutting
- KT-1000 test
- Isokinetic test at 60°/second, 180°/second, 240°/second

### **Criteria for Return to Sports**

- Full, painless range of motion
- No effusion
- Quadriceps strength 85% of contralateral side
- Hamstring strength 100% of contralateral side
- Side-side difference <3mm translation