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PCL Reconstruction Protocol

** <u>Caution</u> – PCL reconstruction rehab program is much slower than that for ACL reconstruction

1. <u>Stage I (POD #1-Week #2)</u>

- 1. NWB with crutches and long leg hinged brace x 4 weeks
- 2. Control Postop pain and swelling
- 3. Prone PROM per patient tolerance; 0-90 degrees
- 4. Supine and prone sustained passive extension stretching for terminal extension
- 5. Isometric quad contractions in complete/supported extension. (Utilize biofeedback/E-stim)
- 6. SLR in brace locked in extension without extension lag
- 7. Quad sets with NMES (No abduction if LCL or posterolateral corner repair or reconstruction)
- 8. Hip PRE's with resistance proximal to knee in brace locked in extension (No abduction if LCL or posterolateral corner repair or reconstruction)
- 9. Patella mobilization: proximal/medial/lateral
- 10. Flexibility exercises (hamstrings, quads, gastrocsoleus, ITB, hip flexors)
- 11. Upper body and midbody strengthening program

****Precautions**

- 1. Avoid hyperextension, varus force and tibial ER
- 2. Avoid active knee flexion

2. Stage II (Week #4)

- 1. Continue above program
- 2. Begin TTWB (weeks 4-6) with brace locked in extension

3. Stage III (Week #7-12)

- 1. Continue above program
- 2. Progress to FWB by week 10 in brace locked in extension
- 3. Restore normal gate by week 12 in brace unlocked for flexion but locking out hyperextension
- 4. D/C crutches when gait is non antalgic (weeks 8-10)
- 5. Begin stair climbing and descending

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- 6. Walking on heels
- 7. Progress prone flexion 0-130
- 8. Mini squats or leg press (60 deg \rightarrow 0 deg)
- 9. Active knee extension (60 deg \rightarrow 0 deg)
- 10. Proprioceptive training: Multiplanar support surfaces
- 11. Progress to unilateral support or contralateral exercises (Elastic Bands)

**Precautions

- 1. Avoid hyperextension, varus force and tibial ER
- 2. Avoid active knee flexion
- 3. Avoid resistive knee flexion
- 4. Monitor patellar symptoms

4. Stage IV (Week #13-Week #24)

- 1. Continue above program
- 2. WBAT in PCL or unloader brace)
- 3. Work to restore FROM
- 4. Leg press or squats ($80 \text{ deg} \rightarrow 0 \text{ deg}$)
- 5. AAROM
- 6. Lunges
- 7. Single leg squat progression
- 8. Agility exercises (sports cord)
- 9. Retrograde treadmill (walk and progress to run)
- 10. Begin forward running
- 11. Plyometric exercise progression
- 12. LE PRE and flexibility program
- 13. Active knee extension (PRE to 80->0 deg)
- 14. No resistive hamstring exrecises

****Precautions**

- 1. Avoid descending stairs reciprocally until adequate quad control and LE alignment
- 2. Avoid resistive knee flexion
- 3. Monitor patellar symptoms

5. Stage V (Week #24+)

- 1. D/C brace
- 2. Continue LE strengthening (leg press, squat and OKC extension for FROM)
- 3. LE flexibility program
- 4. Advance proprioceptive training program
- 5. Advance forward running program
- 6. Sports specific agility activities (supervised)