

# Rehabilitation Protocol: Anterior Cruciate Ligament (ACL) Reconstruction with Bone-Patellar Tendon-Bone Autograft

#### Phase I (Weeks 0-4)

- **Weightbearing:** As tolerated with crutches (may be modified if concomitant meniscal repair/meniscal transplant or articular cartilage procedure is performed)
- Hinged Knee Brace:
  - o Locked in full extension for ambulation and sleeping remove for hygiene and PT
- Range of Motion AAROM → AROM as tolerated
- Therapeutic Exercises
  - Quad/Hamstring sets
  - Heel slides
  - o Non-weightbearing stretch of the Gastroc/Soleus
  - o Straight-Leg Raise with brace in full extension until quad strength prevents extension lag

### Phase II (Weeks 4-6)

- Weightbearing: As tolerated -- discontinue crutch use
- **Hinged Knee Brace:** Discontinue brace use when patient has achieved full extension with no evidence of extension lag
- **Range of Motion** Maintain full knee extension work on progressive knee flexion
- Therapeutic Exercises
  - Closed chain extension exercises
  - Hamstring curls
  - Toe raises
  - o Balance exercises
  - o Progress to weightbearing stretch of the Gastroc/Soleus
  - Begin use of the stationary bicycle

## Phase III (Weeks 6-16)

- Weightbearing: Full weightbearing
- Range of Motion Full/Painless ROM
- Therapeutic Exercises
  - o Advance closed chain strengthening exercises, proprioception activities
  - o Begin use of the Stairmaster/Elliptical
  - o Can Start Straight Ahead Running at 12 Weeks

#### Phase IV (Months 4-6)

- Gradual return to athletic activity as tolerated
- Maintenance program for strength and endurance
- Can return to sports if passes strength testing

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