

# **Rehabilitation Protocol: Osteochondral Allograft Implantation**

## Phase I (Weeks 0-8)

- Weightbearing: Non-weightbearing
- Bracing:
  - Hinged knee brace locked in extension (week 1) remove for CPM and rehab with PT
  - Weeks 2-6: Gradually open brace in 20° increments as quad control is obtained
  - o D/C brace when patient can perform straight leg raise without extension lag
- Range of Motion Continuous Passive Motion (CPM) Machine for 6-8 hours per day for 6-8 weeks
  - Set CPM to 1 cycle per minute starting at 40° of flexion
  - PROM/AAROM and stretching under guidance of PT
- Therapeutic Exercises
  - o Patellar mobilization
  - o Quad/Hamstring/Adductor/Gluteal sets straight leg raises/ankle pumps

## Phase II (Weeks 6-8)

- Weightbearing: Partial weightbearing (25% of body weight)
- Range of Motion Advance to full/painless ROM (Patient should obtain 130° of flexion)
- Therapeutic Exercises
  - o Continue with Quad/Hamstring/Core strengthening
  - o Begin stationary bike for ROM

### Phase III (Weeks 8-12)

- Weightbearing: Gradually return to full weightbearing
- **Range of Motion** Full/Painless ROM
- Therapeutic Exercises
  - o Begin closed chain exercises wall-sits/shuttle/mini-squats/toe raises
  - o Gait training
  - o Continue with Quad/Hamstring/Core strengthening
  - o Begin unilateral stance activities

### Phase IV (Months 3-6)

- Weightbearing: full weightbearing with normal gait pattern
- Therapeutic Exercises
  - o Advance closed chain strengthening exercises, proprioception activities
  - Sport-specific rehabilitation jogging at 4-6 months
- Return to athletic activity 9-12 months post-op
- Maintenance program for strength and endurance