



Rehabilitation Protocol: Microfracture of the Femoral Trochlea/Patellar Defect

Phase I (Weeks 0-8)

- Weightbearing: Weightbearing as tolerated in hinged knee brace locked in extension
- Hinged Knee Brace: Locked in extension for ambulation opened up 0-40° for ROM exercises
- Range of Motion Continuous Passive Motion (CPM) Machine for 6-8 hours per day for 6-8 weeks
 - o Set CPM to 1 cycle per minute range from 0-40°
 - o Passive Range of Motion and stretching under guidance of PT
- Therapeutic Exercises
 - o Quadriceps/Hamstring isometrics

Phase II (Weeks 8-12)

- Weightbearing: Advance to full weightbearing as tolerated discontinue crutch use
- Discontinue Use of Hinged Knee Brace
- Range of Motion Advance to full/painless ROM (PROM/AAROM/AROM)
- Therapeutic Exercises
 - o Emphasize Patellofemoral Program
 - o Closed chain extension exercises
 - o Hamstring curls
 - o Toe raises
 - o Balance exercises
 - o Begin use of the stationary bicycle/elliptical

Phase III (Months 3-6)

- Weightbearing: Full weightbearing
- Range of Motion Full/Painless ROM
- Therapeutic Exercises
 - Advance closed chain strengthening exercises, proprioception activities
 - o Sport-specific rehabilitation
- Gradual return to athletic activity as tolerated including jumping/cutting/pivoting sports
- Maintenance program for strength and endurance