



THE ORTHOPEDIC PARTNERS
AN RCM CLINIC

PARK CITY • HEBER CITY • SALT LAKE CITY

MICROFRACTURE - FEMORAL CONDYLE POST-OPERATIVE PROTOCOL

PHASE I – MAXIMUM PROTECTION:

WEEKS 0-1:

- Ice and modalities to reduce pain and inflammation
- No knee brace
- Use crutches **non-weight bearing for 6 weeks**
- CPM x 6 weeks
- Elevate the knee above the heart for the first 3 to 5 days
- Exercises:
 - Initiate patella mobility drills
 - Full passive/active knee range of motion exercises
 - Quadriceps setting focusing on VMO restoration
 - Multi-plane open kinetic chain straight leg raising
 - Gait training with crutches (NWB)

PHASE II – PROGRESSIVE STRETCHING AND EARLY STRENGTHENING:

WEEKS 1-6:

- Continue home CPM use for 6 weeks
- Exercises:
 - Patella mobility and scar massage
 - Initiate global lower extremity stretching program
 - Full passive/active knee range of motion exercises
 - Stationary bike and deep water pool exercise program (once incision is healed)
 - Implement reintegration exercises emphasizing core stability
 - Multi-plane ankle strengthening

PHASE III – STRENGTHENING AND PROPRIOCEPTION:

WEEKS 6-8:

- Discontinue home CPM use
- Begin partial weight bearing at 25% of body weight and increase by 25% approximately 3 days.
 - Day 1: 25% body weight
 - Day 2: 50% body weight
 - Day 3: 75%-100% body weight
- Exercises:
 - Continue Phase II, increase as tolerated

WEEKS 8 TO 12:

- Exercises:
 - Normalize gait pattern
 - Advance stationary bike program; begin treadmill walking and elliptical trainer; avoid running and impact activity
 - Initiate closed kinetic chain exercises progressing from bilateral to unilateral



THE ORTHOPEDIC PARTNERS
AN RCM CLINIC

PARK CITY • HEBER CITY • SALT LAKE CITY

- Initiate proprioception training

PHASE IV – ADVANCED STRENGTHENING AND INITIATION OF PLYOMETRIC DRILLS:

WEEKS 12-20:

- Exercises:
 - Initiate gym strengthening-beginning bilateral progressing to unilateral
 - Linear walking
 - Swimming
 - Bike outside light gearing

PHASE V – RETURN TO SPORT FUNCTIONAL PROGRAM:

WEEKS 20-24:

****The following progression is designed for athletes desiring to return to impact/running sports. Patients not returning to impact activity are advised to focus primarily on non-impact cardio-vascular exercise:**

- Pool running with progression to dry land
- Linear drill with gradual progression to lateral and rotational as tolerated
- Bilateral plyometric activity progressing to unilateral as tolerated
- Continue with aggressive lower extremity strengthening, cardiovascular training, and flexibility

MONTHS 6-9:

- Sports test for return to play