

PATELLA/TROCHLEA OSTEOCHONDRAL FIXATION/AUTOGRAFT/ALLOGRAFT

Physical Therapy, Strength and Conditioning

PHASE I: MAXIMUM PROTECTION (WEEKS 0 TO 6)

Weighting bearing as tolerated with brace locked in full extension for 6 weeks

Weeks 0-2

- Reduce inflammation
- Normalize patella mobility with manual mobilizations
- Begin submaximal quadriceps activation, quad sets, straight leg raise
- 0-30 degrees knee flexion
- CPM 0-30 8 hours daily

Weeks 2-4

- Reduce inflammation
- Continue patellar mobilizations
- Range of motion 0-60 degrees
- Continue submaximal quadriceps activation
- Isometric hamstring/groin exercises

Weeks 4-6

- Range of motion 0-90 degrees
- Begin straight leg raises
- Continue isometric hamstring/groin exercises
- Open chain hip strengthening

PHASE II: PROGRESSIVE RANGE OF MOTION AND EARLY STRENGTHENING (WEEKS 6-12)

Weeks 6-8

- Begin wean out of brace
- Continue with swelling control and patella mobility
- Gradually progress to full range of motion
- Normalize gait pattern
- Multi-plane straight leg raising and closed kinetic chain strengthening program
- Begin stationary bike
- Initiate shallow and deep water pool program

Weeks 8-10

- Discontinue brace
- Normalize gait pattern
- Restore full ROM
- Gradual bilateral closed chain progression
- Gradual step up progression
- Add light gym strengthening (leg press and hamstring curls)

Weeks 10-12

- Full ROM
- Terminal quadriceps stretching
- Advance closed chain and gym strengthening program
- Add treadmill walking and elliptical trainer

PHASE III: PROGRESSIVE STRENGTHENING (WEEKS 12 TO 16)

- Full ROM
- Advance closed chain and gym strengthening
- Increase intensity on bike, treadmill, and elliptical trainer
- Initiate shallow water pool running program

PHASE IV: ADVANCE STRENGTHENING, FUNCTIONAL DRILLS (WEEKS 16 TO 20)

- Begin linear land based running program
- Advance to lateral and rotational drills as tolerated

PHASE V: PLYOMETRIC DRILLS, RETURN TO SPORT (WEEKS 20 TO 24)

- Advance gym strengthening
- Progress running/sprinting program
- Begin multi-directional field/court drills
- Begin bilateral progressing to unilateral plyometric drills
- Follow-up appointment with physician
- Sports test for return to competition **6 months post-op** per physician's release