

Travis C. Burns, MD

Sports Medicine and Shoulder Reconstruction Arthroscopic Shoulder, Hip, and Knee Surgery

www.travisburnsmd.com https://ortho-sa.com/ (210) 705-5060



MICROFRACTURE TREATMENT OF ARTICULAR CARTILAGE DEFECTS (Patellofemoral)

General Guidelines

- Obtain full extension within 2 weeks after surgery
- Crutches for 6 weeks, TTWB
- No brace
- Begin using stationary bicycle within 3 days of surgery
- Return to sports at 4-6 months

Post-op Days 1 – 14

Goals: Bicycle for 15 minutes daily starting within 3 days of surgery, full extension, obtain good quad control

- POD 2: Change dressing, keep wound covered, continue TED Hose
- POD 10-14: Sutures out, D/C TED Hose when effusion resolved
- Brace Locked in extension for 6 weeks
- Crutches Toe touch weight bearing (TTWB)

Therapy:

AAROM, AROM as tolerated

Passive extension with heel on bolster or prone hangs

Patellar mobilization (teach patient)

Calf pumping

Short arc quads, 0-20 only, without resistance

Standing HS curls in parallel bars

Straight leg raise (SLR) x 4 with knee in brace

Electrical stimulation in full extension with guad sets and SLR

Stationary bicycle for ROM, seat adjusted high, no resistance

No Resisted Closed Chain ex x 6 weeks

No Resisted Open Chain ex x 6 weeks

Weeks 2 – 4

Goals: No effusion, no extensor lag

Therapy:

Crutches with TTWB x 6 weeks

Continue appropriate previous exercises

Scar massage when incision healed

D/C CPM once patient is independent with stationary bicycle

AROM, AAROM as tolerated

Co-contractions quads / HS at 0, 30, 60, 90 degrees

SLR x 4 on mat – Add light weight below the knee if good quad control

Pool therapy – Deep water (chest/shoulder) walking and ROM exercises

Water jogging floating upright in deep water

Stretches - Hamstring, hip flexors, ITB

Weeks 4 – 6

Goals: Full ROM
Therapy:

Crutches TTWB

Continue appropriate previous exercises

PROM, AROM, AAROM to regain full motion

Standing SLR x 4 with Theraband (standing on uninvolved LE)

Weeks 6 – 8

Goal: Normal Gait

Therapy:

Weight bearing as tolerated (WBAT), D/C crutches when gait is normal Continue appropriate

previous exercises

Leg press with light weight

Mini squats, Wall squats

Hamstring curls - Carpet drags or rolling stool (closed chain) Treadmill - Forwards and

backwards walking

Weeks 8 - 12

Goal: Walk 2 miles at 15 min/mile pace

Therapy:

Continue appropriate previous exercises

HS curl weight machine

Knee extension weight machine

Proprioceptive training – BAPS, ball toss, body blade Fitter

Slide board

Forward, lateral and retro step downs

Stationary bike – Minimal resistance

Treadmill – Walking progression program

Elliptical trainer

Pool therapy – Waist deep water walking or slow jogging Quad stretches

<u>Months 3 − 6</u>

Goals: Return to running and full activities

Therapy:

Continue appropriate previous exercises with progressive resistance
Treadmill – Running progression program
Agility Drills
Sit-up progression
Stairmaster

Months 6 - 9

Goals: Walk 2 miles at 15 min/mile pace

Therapy:

Continue appropriate previous exercises with increased resistance – Progress to 90 degrees of knee flexion

- Increase resistance as tolerated

 $\ \, \hbox{Hip weight machine x 4 bilaterally} \\$

Step downs with medium to large steps

Sit-up progression

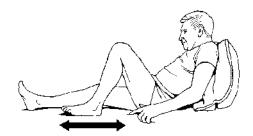
Progressive weight training program

Treadmill – Running progression program

Knee Post Op Phase 1 Perform exercises below frequently: 30 reps 3-5x a day

Quad Isometrics

Heel Slides



Active Assisted Motion



Ice Position 15 minutes 2-3 x per day

