

Hip Preservation Surgery • Pelvis and Hip Reconstruction • Orthopaedic Sports Medicine

Robert Kollmorgen DO

MICROFRACTURE TREATMENT OF ARTICULAR CARTILAGE DEFECTS (Tibiofemoral)

Revised August 2017

Post-op Days 1 – 14

Dressing - POD 1: Debulk dressing, TED Hose in place - POD 2: Change dressing, keep wound covered, continue TED Hose - POD 7-10: Sutures out, D/C TED Hose when effusion resolved Crutches: Toe touch weight bearing (TTWB) x 6wks, No Brace CPM – Speed and ROM to patient tolerance, begin with 0-45 (8hrs daily) 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 Goals CPM or bicycle: 500 cycles or more per day the first week 1000 cycles or more per day thereafter Full extension Weeks 2 – 4 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 guads / HS at 0, 30, 60, 90 degrees SLR x 4 on mat (no brace) - 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 Continued on next page



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Goals

No extensor lag No effusion Weeks 4 - 6 Crutches TTWB Continue appropriate previous exercises PROM, AROM, AAROM to regain full motion Standing SLR x 4 with Theraband (standing on uninvolved LE) Goal - Full AROM Weeks 6 - 8 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 Goal – Normal gait Weeks 8 - 12 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 Goal No thigh atrophy Walk 2 miles at 15 min/mile pace Months 3 – 4 Continue appropriate previous exercises with progressive resistance Treadmill – Running progression program Stairmaster



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Goal – Run 2 miles at easy pace Months 4 – 6 Continue appropriate previous exercises Agility drills / Plyometrics Sit-up progression Progressive weight training program Transition to home / gym program Goals Return to all activities at 6-12 months post-op No contact sports until 6-12 months post-op