

Sean E. Rockett, M.D. Agam A. Shah, M.D. Arthur F. Christiano, M.D. Mark Rose, D.P.M. Ethan M. Healy, M.D. Daniel B. Osuch, M.D. Symeon V. Zannikos, M.D. Mark A. Finno, M.D. Kevin P. Sullivan, M.D. Jason C. Saillant, M.D. Michael L. Sganga, D.P.M. Daren Bergman, D.P.M. David M. Ramsden, M.D. Nury Flynn, PA-C, ATC Asimina Markopoulos, PA-C Karl Haywood, PA-C Sarah C. Jacoby, PA-C Ryan C. Gulla, PA-C

# Knee Microfracture Rehabilitation Protocol

## Ethan M. Healy, M.D.

# PHASE I (0 - 8 weeks)

- Weight bearing only with brace locked in full extension, crutches for assistance with ambulation
- Range of motion exercises to achieve full knee extension
- Use of a CPM for 6-8 hours/day begin at a 0-30 degrees –advance 10 degrees/day for a goal of 0-90 degrees by two weeks post op
- No flexion past 90 degrees until after 2 weeks
- Prone leg hangs three times daily
- Passive stretching
- Spinning on exercise bike with no resistance allowed at 2 weeks
- Isometric quadriceps and hamstring strengthening\*

# PHASE II (8-12 weeks)

- Gradual return to full weight bearing with the brace off
- Goal of full and pain free ROM
- Increase quadriceps and hamstring strengthening as tolerates

## PHASE III (12+ weeks)

- Full Weight Bearing
- Physical Therapy guided return to full activities as tolerates

#### **RETURN TO SPORT CRITERIA**

**NEW ENGLAND BAPTIST®** 

- 1. No pain after impact activities
- 2. No effusion
- 3. Full ROM
- 4. Leg has 90% strength and proprioceptive ability of non-injured leg













F (508) 625-1036

<sup>\*</sup>If microfracture of patella or femur trochlea no quadriceps strengthening