

phil h. berry, jr., m.d.
miguel a. hernandez, III, m.d.
ray f. aronowitz, m.d.
david a. heck, m.d.
zachary kelley, m.d.
alexander cho, m.d.
jason k. lowry, md
jon e. nathanson, d.p.m.



810 north zang blvd.
dallas, tx 75208-4233
telephone (214) 941-4243
fax (214) 941-1153

www.TheBoneDocs.com
www.jasonlowrymd.com

2800 east broad st, suite 510
mansfield, tx 76063
telephone (817) 453-3500
fax (817) 453-3820

MPFL RECONSTRUCTION REHAB PROTOCOL

Last Modified: MAR 2014

Date of Surgery:

Left/Right

Frequency 2-3 times per week.

- No open chain or isokinetic exercises
- Provide patient with home exercise program per protocol

Period of protection (Weeks 0-6)

- Weight bear as tolerated in Hinged Knee Brace. Wean crutches as tolerated.
- Follow Brace Wear and ROM limits per chart below:

Week ROM for exercises ROM for ambulation

0-1 0-30 Brace Locked in Extension

1-2 0-30 Brace Unlocked to 30 degrees

2-4 0-60 Brace Unlocked to 60 degrees

4-6 0-90 Brace Unlocked to 90 degrees

6- Full ROM Transition to Patellar Stabilization Brace

Weeks 2-4:

- ROM exercises – progress through passive, active and active assisted ROM within ROM limits detailed above.
- Extension board and prone hang with ankle weights (up to 10 lbs) if necessary to regain full extension.
- Strengthening – quad sets, SLRs with knee locked in extension in brace.
- Bilateral ¼ knee bends (Mini- Wall slide or Mini-Squat)
- Terminal Knee Extensions (TKE)
- No restrictions to ankle/hip strengthening. Begin core program for abdomen/lumbar.
- Modalities prn (ie electrical stimulation, ultrasound, etc) per discretion of therapist.
- Heat before therapy sessions.
- Ice after therapy sessions.

Weeks 4-6

- ROM – progress through PROM, AROM & AAROM as detailed above.
- Strengthening – quad sets, SLRs out of brace
- Bilateral ½ knee bends (Wall slide or Squat)
- Terminal Knee Extensions (TKE) to ROM limit.
- Initiate Leg Press, Step Ups
- Stairmaster and/or Stationary Bicycle
- Proprioception Exercises in Brace (BAPS, bodyblade, ball toss)
- No restrictions to ankle/hip strengthening. Continue core program for abdomen/lumbar.
- Modalities prn (ie electrical stimulation, ultrasound, etc) per discretion of therapist.
- Heat before therapy sessions.
- Ice after therapy sessions.

Weeks 6-12

- ROM exercises– progress through passive, active and active-assisted to full ROM
- Continue squats, leg press
- Advance to Step Downs , Lunges , Side lunges (In brace) and Slide Board (In brace)
- Stairmaster and/or Stationary Bicycle
- Begin forward treadmill running in brace when 8” step down is satisfactory (No sooner than 8 weeks)
- Proprioception Exercises in Patellar Stabilization Brace (BAPS, bodyblade, ball toss)
- Advanced ankle/hip strengthening. Core maintenance program for abdomen/lumbar.
- Modalities prn (ie electrical stimulation, ultrasound, etc) per discretion of therapist.
- Heat before therapy sessions.
- Ice after therapy sessions.

Months 3- 6

- Advance strengthening as tolerated, continue closed chain exercises- increase resistance.
- Begin plyometrics and increase as tolerated.
- Initiate sport-specific agility training in brace (figure 8s, cutting drills, etc.)
- Advanced core strengthening and maintenance program
- Begin to wean from formal PT, encourage independence with HEP.
- Continue modalities prn as indicated above.
- Heat before therapy sessions.
- Ice after therapy sessions
- Return to sports after 18+ weeks (MD clearance required)



Jason K. Lowry, MD