

PT Protocol MPFL Reconstruction

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Phase 1: 0-6 Weeks

Goals

Protect repair, decrease pain and swelling, restore ambulation, activate quad, ADL strategies

Brace/crutches

Brace used when not in PT for first 6 weeks post op Post op brace locked in extension when weight bearing, WBAT with crutches When not weight bearing may go 0-30 degrees first 2 weeks Advance brace flexion allowed by 30 degrees every 2 weeks

Range of Motion

Guidelines for range of motion when supervised in PT

0-1 week: 0-30 degrees 1-2 weeks: up to 60 degrees 2-4 weeks: up to 90 degrees 4-6 weeks: up to 120 degrees

Strength

Quad sets and straight leg raises Single leg balance Hip abduction strength Core strength Upper body ergometer

Criteria for Ambulation without Crutches or Brace

Range of motion within 3 degrees of full extension and flexion of at least 90 degrees Straight leg raise X 20 without a lag Single leg balance for 20 seconds

Demonstration of normal gait in PT



Phase 2: 6-12 Weeks

Goals

Discontinue Brace, normalize gait, advance strengthening, prepare for jogging *May introduce blood flow restriction (BFR) training

Range of Motion

Progress to full by 10 weeks post op

Strength

Short arc leg press and low step ups (mostly avoid open chain exercises) Romanian dead lifts Body weight and wall squats, progress to single leg squats and lunges Hip abduction strength include lateral band walks Core to include bridging

Conditioning

Stationary bike, UBE, Elliptical or rowing machine at 10 weeks *Balance and proprioception - may introduce perturbation training

Criteria for Jogging

12 weeks post op, essentially full range of motion, one minute of single leg squats continuously



Phase 3: 3-6 Months

Goals

Transition to home or gym program
Introduce dynamic movement and advance strength and conditioning

Range of Motion

*Should have full range. If not alert physician

Strength

Weighted squats, dead lifts Introduce open chain quad strength avoiding full extension BFR Core

Conditioning

Bike, elliptical, rower Jogging Swimming or aqua jogging

Plyometrics and Agility

Speed ladder, jump rope, box jumps, bounding Balance and perturbation work



Phase 4: Return to Full Activity

Goals

Sport specific drills advancing to return to play

Strength and Conditioning

Progress strength training and fitness May advance to full sprint

Plyometrics and Agility

Agility and cutting drills advancing to full speed Advance box jumps, broad jumps, single leg hops High level balance and perturbation work

Criteria for Return to Play

Quad and hamstring strength at 90% 90% of normal on all single leg hop tests Full speed on agility testing (figure 8, shuttle run, etc) MD approval