

Sports Medicine, Hip, Knee, and Shoulder Surgery 1201 11<sup>th</sup> Ave S Birmingham, AL 35205 Ph: (205) 930-8339

## MPFL Reconstruction Rehabilitation Protocol w/ Graft

Phase/ Goals	Immobilization	ROM	Therapeutic Exercises
Phase 1 (0-6 weeks)  Goals:  Protect repair Prevent muscle atrophy Control post-op inflammation	Brace: Unlocked 0-90 at all times for 4 weeks  Weightbearing: touchdown x 2 weeks  50% weightbearing with crutches weeks 2-4	<ul> <li>Avoid lateralization of patella</li> <li>Avoid AAROM knee extension with quad atrophy</li> <li>Active assist and passive knee flexion 0-90 with NO forced flexion</li> <li>Modalities:</li> <li>NMES if unable to perform SLR without lag</li> <li>Cryocuff/Game Ready Compression/ Ice</li> </ul>	<ul> <li>Quad recruitment</li> <li>Flexion: heel slides, seated knee flex</li> <li>Extension: heel prop, prone hang</li> <li>Long sitting HS stretch</li> <li>Quad sets, glute sets</li> <li>SLR x4 with brace assist until no lag</li> <li>Ankle pumps</li> <li>Calf raises on leg press</li> <li>Gait training week 4</li> </ul>
Phase 2 (7-10 weeks)  Goals:  Eliminate effusion Normal ROM Good patella mobility Normal gait mechanics ADLs WNL	Wean from brace if still using	<ul> <li>Begin AAROM and AROM</li> <li>Limit flexion to 110° until 8 weeks</li> <li>Modalities:</li> <li>Patellar mobs lateral to medial</li> <li>Gentle prone quad stretch/knee flex</li> <li>Manual assist extension/passive stretch</li> </ul>	<ul> <li>Gait training with good quad control</li> <li>Heel slides/wall slides/seated assist flexion</li> <li>Lateral band stepping</li> <li>LE stretching: HS, quads, ITB, piriformis (pain free)</li> <li>Quad sets/glut sets, clams/mini-hydrants/glute pushes</li> <li>RDL/squat progression</li> <li>Calf raises on leg press</li> <li>Leg press</li> <li>Standing TKEs</li> <li>Wobble board/Dyna-disc/Bosu balance</li> </ul>

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Phase 3 (11-18 weeks)		Maintain Full A/PROM	<ul> <li>Bike, elliptical, stair master</li> <li>Step ups/lateral step over's- progress to faster pace</li> <li>Balance progression</li> </ul>
Goals:  Pain free ADLs Normal knee ROM Normal gait Initiate running	Maintain ROM and full weightbearing	<ul> <li>Patellar mobs/ Scar STM with extractor</li> <li>Modalities:         <ul> <li>Ice/stim PRN</li> </ul> </li> </ul>	<ul> <li>Lateral walks with sport cord</li> <li>SLS dynamic surfaces with ball toss and perturbation training</li> <li>Begin walk-jog progression week 14 if full ROM/no edema/full strength and can perform SL hops x10 pain-free (SUPERVISED)</li> <li>Bilateral leg plyometric program</li> </ul>
Phase 4 (19-24 weeks)  Goals:  Jogging without pain/swelling No patellar apprehension Demonstrate patellar tracking symmetry through movements		• Full A/PROM	<ul> <li>Continue everything in phase 3</li> <li>Increase running progression</li> <li>Advance LE strength and flexibility</li> <li>Advance cross training</li> <li>Muscular power – squats, split jumps</li> <li>Advance plyometric program if has good eccentric capabilities: Jump down, horizontal jump, cutting and decelerations if getting back to sport</li> </ul>