

JOSEPH D. LAMPLOT, M.D. ORTHOPAEDIC SURGERY & SPORTS MEDICINE

(847) 866-7846 | SPORTSMEDICINE@NORTHSHORE.ORG

21481 N. RAND RD, KILDEER, IL 60047 1535 ELLINWOOD AVE, DES PLAINES, IL 60016

Meniscectomy Rehab Protocol

<u>Phase</u>	<u>Precautions</u>	Treatment Recommendations	<u>Emphasize</u>
Pre-Operative Phase Criteria for Advancement: -Maximize ROM and flexibility in pain-free range -Maximize strength prior to surgery -Independent ambulation on level surfaces and stairs with appropriate assistive device -Patient able to verbalize/demonstrate post-operative plan of care	 Avoid severe pain with ROM and strengthening exercises Modify or minimize activities that increase pain 	 Patient education o Post-operative plan of care o Edema control o Activity modification o Gait training with expected post-operative assistive device o Basic home exercise program (HEP) Ankle pumps, quadriceps sets Straight leg raise PRE's- hip flexion, hip abduction, hip extension Seated knee flexion and extension AAROM LE flexibility exercises e.g. supine calf and hamstring stretches Passive knee extension with towel roll under heel Plantar flexion with elastic band or calf raises Gait training with appropriate pre-operative assistive device if needed Additional recommendations for patients attending multiple sessions pre-operatively o Edema control o ROM exercises e.g. seated knee flexion AAROM, supine knee extension PROM o LE flexibility exercises o LE progressive resistive exercises e.g. quadriceps sets, straight leg raises in multiple planes o Balance/proprioceptive training o Stationary bike 	 Familiarization with post-operative plan of care Quadriceps contraction
Day of Surgery Criteria for Advancement: -Independent ambulation with appropriate assistive device on level surfaces and stairs -Independent with transfers -Independent with HEP	 Avoid painful activities: Prolonged sitting, standing, walking, and exercises that cause pain Do not put a pillow under the operated knee- keep extended while resting Avoid premature discharge of assistive deviceuntil gait is normalized 	 Transfer training Gait training with assistive device on level surfaces and stairs Patient education on edema control and activity modification Initiate and emphasize importance of HEP o Quadriceps sets, gluteal sets, ankle pumps, o Seated knee A/AAROM o Straight leg raise if able o Passive knee extension with towel roll under heel 	 Control swelling Independent transfers Gait training with assistive device A/AAROM (emphasize extension) Emphasize quadriceps reducation (quadriceps sets)



JOSEPH D. LAMPLOT, M.D. ORTHOPAEDIC SURGERY & SPORTS MEDICINE

Appointments: (847) 238-2812 | SPORTSMEDICINE@NORTHSHORE.ORG

21481 N. RAND RD, KILDEER, IL 60047 1535 ELLINWOOD AVE, DES PLAINES, IL 60016 CLINICAL CONCERNS: (331) 221-6385

Phase	<u>Precautions</u>	Treatment Recommendations	RNS: (331) 221-6385 Emphasize
Postoperative Phase I Weeks 0-3 Criteria for Advancement: -Swelling and pain controlled -Full passive knee extension -Passive knee flexion ≥ 120° -Unilateral weight bearing on involved LE without pain -Normal gait pattern without assistive device on level surfaces -Independent with HEP -Perform a pain free body weight squat without compensation (assisted as needed, i.e. counter, ball, TRX) -Ascend ≥6″ step	 Do not put a pillow under the operated knee- keep extended when resting and sleeping Avoid pain with exercises, standing, walking and other activities o Monitor tolerance to load, frequency, intensity and duration Avoid premature discharge of assistive deviceshould be used until gait is normalized Avoid forceful PROM 	 Bike Gait training Modalities for pain and edema as needed Emphasize patient compliance with HEP and weight bearing precautions/progression Knee A/AAROM Patella mobilization LE flexibility exercises Muscle reeducation using modalities as needed Hip progressive resisted exercises Closed chain strengthening exercises e.g. leg press, squat, forward step up progression Proprioception training Consider blood flow restriction program with FDA approved device if cleared by surgeon and qualified therapist available Swelling and pain controlled Full passive knee extension Passive knee flexion ≥ 120° Unilateral weight bearing on involved LE without pain Normal gait pattern without assistive device on level surfaces Independent with HEP Perform a pain free body weight squat without compensation (assisted as needed, i.e. counter, ball, TRX) Ascend ≥6" step 	 Normal gait pattern Patient compliance with HEP and activity modification Control of pain and swelling Total lower body functional strengthening
Postoperative Phase II Weeks 4-8 Criteria for Discharge (or Advancement if Return to Sport): - Full knee PROM -Minimal swelling -Ability to ascend and descend 8" stairs pain- free with good control and alignment -Independent with full HEP -Discharge OR move on to phase III if the goal is to return to sport	 Avoid pain with therapeutic exercise and functional activities 	 LE flexibility exercises Patella mobilization Progressive LE open kinetic chain exercises Functional progression of LE closed kinetic chain exercises, e.g. double leg squat to single leg squat and initiate forward step-down progression Progress proprioceptive balance training Cardiovascular endurance training e.g. bike, swimming, elliptical when able to perform 6" forward step up Initiate impact activities with progressive loading e.g. antigravity or underwater treadmill, bilateral to unilateral Progress HEP 	 Eccentric quadriceps control Functional progression Normalize flexibility to meet demands of ADL's Establish advanced HEP/ gym home program



JOSEPH D. LAMPLOT, M.D. ORTHOPAEDIC SURGERY & SPORTS MEDICINE

Appointments: (847) 238-2812 | SPORTSMEDICINE@NORTHSHORE.ORG

21481 N. RAND RD, KILDEER, IL 60047 1535 ELLINWOOD AVE, DES PLAINES, IL 60016 CLINICAL CONCERNS: (331) 221-6385

<u>Phase</u>	<u>Precautions</u>	Treatment Recommendations	Emphasize
Postoperative Phase III Return to Sport Criteria for	 Avoid pain with therapeutic exercise and functional activities 	 Initiate return to running program when able to descend 8" step without pain or deviation Advance proprioceptive balance training Advance LE strengthening 	 Self- monitoring of exercise volume
Advancement: -Swelling and pain controlled -Full passive knee extension -Passive knee flexion ≥	 Avoid too much too soon- monitor exercise and activity dosing Don't ignore functional 	 Plyometrics progression Sport-specific agility training Increase endurance and activity tolerance Sport-specific multidirectional core retraining Progress total body multidirectional motor control exercises to meet sport-specific demands 	Self- monitoring of load progressionSpeed and power
120° -Unilateral weight bearing on involved LE without pain	progressions Be certain to incorporate rest and recovery	 Collaboration with trainer, coach or performance specialist Patient education regarding self-monitoring of exercise volume and load progression Lack of pain, swelling and apprehension with sports-specific 	 Agility, change of direction and deceleration
-Normal gait pattern without assistive device on level surfaces -Independent with HEP -Perform a pain free body weight squat	 Protect tibiofemoral and patellofemoral joint from excessive load 	 movements Quantitative assessments ≥ 90% of contralateral LE Movement patterns, functional strength, flexibility, motion, endurance, power, deceleration and accuracy to meet demands of sport Independent with gym or return to sport program 	 Collaboration with appropriate Sports Performance expert
without compensation (assisted as needed, i.e. counter, ball, TRX) -Ascend ≥6" step			

I hereby certify these services as medically necessary for the patient's plan of care.				
	Date			
Physician's Signature				

