

Lateral Meniscus Root Repair

Name: _____

Dr: Dr. Matthew Rasmussen Date: _____

● = Do exercise for that week

Week

	Initial Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
		0-90°	>90° AAROM KF			AROM - progress to full gradually									
ROM RESTRICTIONS 0-90° x 2 weeks Then progress as tol (*AAROM "hamstring light" knee flexion x 6 weeks)	Flexion/Extension – seated foot slides - "Hamstring Light" x 6 weeks														
	Ankle pumps + nerve glides	●	●	●	●	●	●								
	Patella/Tendon mobilization	●	●	●	●	●	●	●							
	Heel prop knee extension stretch	●	●	●	●	●	●	●							
	Quad isometric in extension	●	●	●	●	●	●	●							
	Calf stretch with belt/strap	●	●	●	●	●	●	●							
	Seated hamstring stretch	●	●	●	●	●	●	●							
	Band-resisted ankle plantarflexion			●	●	●	●	●	●	●					
	Bridge in knee ext - calves over ball				●	●	●	●	●	●	●	●	●	●	
	Quad strength progressions	0° ISOs, SLR			60° ISO		70-30° arc - resisted				Full arc - resisted				
BRACE SETTINGS Immobilizer x 6 weeks	SLR hip ABD, Ext (brace on)			●	●	●	●	●	●	●	●				
	Hamstring strength progressions	No isolated, resisted HS (root)							ISOs, hip-based				Knee-based Resisted arc		
	Cardiovascular Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
	Stationary Bike	NWB					Light			Progress gradually					
	Treadmill walking (no limp)										●	●	●	●	●
	Swimming – light flutter kick										●	●	●	●	●
	Elliptical trainer											●	●	●	●
	Stair stepper											●	●	●	●
	*NOTE FOR CARDIO	Must tolerate daily walking with no limp & no significant increase in pain/swelling prior to initiating WB cardio (walk, elliptical, stepper)													
	Weight Bearing Strength	1	2	3	4	5	6	7	8	9	10	12	16	20	24
	Crutch weaning – return to FWB	NWB					●	●	●						
	Marching into brief SLS							●	●	●	●	●	●	●	
	SLS balance progressions								●	●	●	●	●	●	●
	Squat/Leg Press (ISO→reps, 2→1 leg)								0-45°		0-70°		>70° gradual		
	Step-up/Lunge Progressions									ISOs		0-70°		>70°	
	Dead lift (2→1 leg)									●	●	●	●	●	●
	Band resisted directional stepping											●	●	●	●
Weight Bearing status NWB x 6 weeks	Agility Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
	Agility: single→multi-plane	NWB												●	●
	Return to run criteria	≥16 weeks post-op, YBT-Anterior ≤8 cm SSD, walk ≥1 mile no limp/no pain, Quad strength ≥70% LSI, ≥60% peak torque/BW													
	Sport Performance (TRAC) Test	Baseline test: 6 months, F/u test: 12 months													
	High Level Activities	1	2	3	4	5	6	7	8	9	10	12	16	20	24
	Golf progression	NWB													●
	Outdoor biking, hiking, snowshoeing														●
	Return to sport progressions														●
TIME LINES Week 1 (1-7POD) Week 2 (8-14POD) Week 3 (15-21POD) Week 4 (22-28POD)															

****NMES & BFR encouraged (per any contraindications)****

PRECAUTIONS	NO resisted hamstring curling, tibial ER, cross-legged sitting, squat >70° x 4 months, NO aggressive cutting/pivoting x 6 months
ABBREVIATIONS	(HE) Hyperextension, (ISO) Isometric, (KF) knee flexion, (LAQ) Long arc quad, (NWB) Non-weight bearing, (PRE) progressive resistance exercise, (SAQ) short arc quad, (SLR) straight leg raise, (SLS) single leg stance, (TKE) terminal knee extension

POST-KNEE SURGERY RETURN TO ACTIVITY GUIDELINES/CRITERIA

Return to run guidelines	≥16 weeks post-op, YBT-Anterior ≤8 cm SSD, walk ≥1 mile no limp/no pain, Quad strength ≥70% LSI, ≥60% peak torque/BW
Return to jump guidelines	≥20 weeks post-op, YBT(A) ≤4 cm SSD, Quad strength ≥80% LSI, ≥80% peak torque/BW, tolerate hopping/skipping drills with no increased soreness/swelling, tolerate lunge/squat/step single leg training progressions
Return to sport guidelines	In addition to TRAC testing goals (listed below), patient must achieve the following: 8+ weeks progressive strength training 4+ weeks neuromotor training program 4+ weeks within-sport practice progression (per MD/PT team clearance) 2-3+ weeks graduated return to competition (per MD/PT team clearance)

POST-KNEE SURGERY “TRAC” PHYSICAL PERFORMANCE TESTING - TIMELINES & GOALS

TRAC Test Activity	4 Month Goals	6-7 Month Goals	9-10 Month Goals
Knee Extension ROM	≤5° SSD	≤0° SSD	≤0° SSD
Knee Flexion ROM	≤10° SSD	≤5° SSD	≤0° SSD
YBT(A) Squat SSD	≤8 cm SSD	≤4 cm SSD	≤4 cm SSD
<i>Max YBT(A) squat depth relative to LL</i>	≥55% of LL	≥70% of LL	≥70% of LL
Repeated single leg squat (one leg rise test)	25 reps to 60° KF	25 reps to 90° KF	25 reps to 90° KF
2 leg squat symmetry (over force plates)	≤10% off-shift	≤5% off-shift	≤5% off-shift
Hip ABD strength LSI	≥80% LSI	≥90% LSI	≥90% LSI
<i>Hip ABD strength relative to BW</i>	≥20% of BW	≥25% of BW	≥30% of BW
Quad strength LSI	≥70% LSI	≥80% LSI	≥90% LSI
<i>Quad strength relative to BW</i>	≥70% of BW	≥80% of BW	≥90% of BW
Hamstring strength LSI		≥75% LSI	≥90% LSI
Single leg hop (SLH) test LSI		≥80% LSI	≥90% LSI
<i>SLH distance relative to LL (norm comparison)</i>		≥80% of norms	≥90% of norms
Triple hop test LSI		≥80% LSI	≥90% LSI
<i>Triple hop distance (norm comparison)</i>		≥80% of norms	≥90% of norms
2 leg jump (off shift at take-off/landing)		≤20% off shift	≤10% off shift
Peak knee flexion angle SSD with hop landing		≤20° SSD	≤10° SSD

Abbreviations for both tables above: (ABD) abduction, (BW) body weight, (ISO) isometric, (LL) leg length, (LSI) limb symmetry index, (norm) age & sex-matched normative data, (PRE) progressive resistance exercise, (ROM) range of motion, (SLR) straight leg raise, (SSD) side to side difference, (TRAC) testing to return to athletic competition, (UE) upper extremity, (YBT(A)) Y-balance test anterior reach