ACL Reconstruction, Lateral Meniscus Root Repair

Return to sport progressions



		Name:				_										
		Dr: Dr. Chris LaPrade				_		Date	ə: _							
ROM		•= Do exercise for that week	We	ek					-			10	10			
RESTRICTION	1S	Initial Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
RESTRICTIONS		Seated knee ROM foot slides - "Hamstring Light" x 6 weeks	0-90° >90°-still HS I			l HS li	light AROM - progress to full gradually					ally				
0-90° x 2 wee		ROM Goals		≈90° by 2 weeks, ≈120° by 6 weeks, full ROM by 10 we						week	(S					
then progres		Ankle pumps	•	•	•	•	•	•								
as tolerated (*AAROM		Patella/Tendon mobilization	•	•	•	•	•	•	•	•						
"hamstring		Heel prop knee extension stretch	•	•	•	•	•	•	•	•						
light" knee		Belt calf stretch, seated HS stretch	•	•	•	•	•	•	•	•						
flexion x 6		Quad strength progressions	0° ISOs, SLR 60°ISO		70	0-30° arc - resisted Full ar			arc	rc - resistec						
weeks)		Hamstring strength progressions	No	No isolated, resisted			ted F	IN IROUTH IN IN IN HOLDER				ee-bo sisted				
		SLR hip ABD, ADD, Ext (brace on)			•	•	•	•	•	•	•	•				
BRACE		Bridge in knee ext - calves over ball				•	•	•	•	•	•	•	•	•	•	
SETTINGS		Cardiovascular Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
Immobilizer x 6 weeks then CTi	< 6	Stationary bike					ROM Progress intensity & duratio only gradually					ion				
	CTi	Treadmill walking (no limp)		NWB								•	•	•	•	•
brace		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		Weight Bearing Strength	1	2	3	4	5	6	7	8	9	10	12	16	20	24
Bearing statu	US	Crutch weaning – return to FWB					•	•	•							П
NWB x 6 wee	oks.	Marching into brief SLS							•	•	•	•	•	•	•	
MAD Y 0 MGG	ZN3	SLS balance progressions								•	•	•	•	•	•	•
		Squat/Leg Press (ISO→reps, 2→1 leg)			NWE	3				0-4	45°	0-7	70°	>70)°gra	duc
		Step-up/Lunge Progressions							IS	Os	0-	70°	>,	70°		
TIME LINES	S	Dead lift (2→1 leg)									•	•	•	•	•	•
		Band resisted directional stepping											•	•	•	•
Week 1 (1-7POD)	,	Agility Exercises	1	2	3	4	5	6	7	8	9	10	12	16	20	24
Week 2(8-14POD Week 3(15-21PO		Initial – single plane agility			V 1/ V/E)									•	•
Week 4 (22-28PO		Advance – multi directional agility		- NWB												•
		Return to run criteria													nile n que/B	
		Sport Performance (TRAC) Test			Base	eline	test:	4 mc	onths	, F /υ	tests	:7&	& 10 months			
		High Level Activities	1	2	3	4	5	6	7	8	9	10	12	16	20	24
		Golf progression														•
		Outdoor biking, hiking, snowshoeing			NWE	3										•

NMES & BFR encouraged (per any contraindications)

PRECAUTIONS	months (root repair precautions)
ABBREVIATIONS	(HS) hamstring, (ISO) Isometric, (KF) knee flexion, (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 ≥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						
	In addition to TRAC testing goals (listed below), patient must achieve the following:						
	>9 months post-op						
	16+ weeks progressive strength training						
Return to sport guidelines	10+ weeks neuromotor training program						
	6+ weeks within-sport practice progression (per MD/PT team clearance)						
	3+ weeks graduated return to competition (per MD/PT team clearance)						

POST-KNEE SURGERY "TRAC" PHYSICAL PERFORMANCE TESTING - TIMELINES & GOALS (Will be performed at TCO/Training HAUS in Eagan, MN)

TRAC Test Activity	4 Month Goals	7 Month Goals	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	
Max YBT(A) squat depth relative to LL	≥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	
Hip ABD strength relative to BW	≥20% of BW	≥25% of BW	≥30% of BW	
Quad strength LSI	≥70% LSI	≥80% LSI	≥90% LSI	
Quad strength relative to BW	≥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	
SLH distance relative to LL (norm comparison)		≥80% of norms	≥90% of norms	
Triple hop test LSI		≥80% LSI	≥90% LSI	
Triple hop distance (norm comparison)		≥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