•



	Name:																
	Dr: Chris	LaPrade, M.D.					D	ate	:								
	●= Do exercise	for that wook	We	ok													
ROM	Initial Exercises	TOI IIIUI WEEK	1	2	3	4	5	6	7	8	9	10	12	16	20	24	
RESTICTIONS	Ankle Pumps			•		•	•	•		•				10	20	~	
0-60° x 2 weeks	Patella/Tendon r	nobilization	•			•		•		•							
then progress	Extension heel pr		•	•													
as tolerated	· · · · ·																
BRACE	Hamstring & calf stretching		<	60	-	>60	•			A	ROM	proc	aressi	on			
SETTINGS	Seated knee flex	exion ROM						20° k	AROM progression ^{1°} by 6 wks, Full ROM by 10 wks)								
	Quad strength p	progressions		ISOs 0-60° SLR 90-60°			arc PRE Full arc PRE										
Immobilizer x 6				SLK				1		<u> </u>				Knee-based			
weeks	Hamstring streng	gth progressions		No HS beyond AROM					ISC	Ds, hip-based			resisted arc PRE				
	Hip Strength			Standing (band above				e kne	es)	Mat-based all direction					PRE		
	(no valgus stress x 8 weeks)		Knees extended - calve				alve	c .									
Weight	Bridging		supported over b						Standard bridge			progressions					
Bearing status	Cardiovascular I	exrcises	1	2	3	4	5	6	7	8	9	10	12	16	20	24	
	Stationary Bike				NO				RON	۱		Grac	dually	/ pro	gress		
NWB x 6 wks	Swim – flutter kic	k						•	•	•	•	•					
	Elliptical, Walking			WB Restricted • • •					•	•	•	\bullet					
	Stair stepper, Roy	air stepper, Rower • • • • • •															
	*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 S	trength	1	2	3	4	5	6	7	8	9	10	12	16	20	24	
	Crutch weaning				•	•		٠	٠								
	Calf raises																
Week 11-7POD)	Marching into SL	S						•	•	•							
Week 2(8-14POD)	SLS balance progressions 2 leg squat/Leg Press (2→1 leg) Shift & hold isometric over step		WB Restricted														
Week 3(15-21POD) Week 4(22-28POD)							NO ≤70°			↑ Load, depth							
	Lunge & step-up	p/down progressions		1								≤70°			Load		
	Agility Exercises		1	2	3	4	5	6	7	8	9	10	12	16	depth 20	24	
	Return to run gui	delines			/ks pair												
	Initial – single pla	ne gaility/speed				1, QU			j <i>⊆i</i>	0/01	L31, <u>~</u>	/ 0/0 μ	Jeur		•	•	
		directional agility												_	•	•	
	Sport Performance	U		1	Basel	ine t	est: 4	moi	nths.	F/u f	test: 1	T& 10	0 mo	onths	-	-	
	High Level Activi		1	2	3	4	5	6	7	8	9	10	12	16	20	24	
	Golf			_			-			-						•	
		niking, snowshoeing														•	
	Sport Re-entry progressions		1		1											•	
	NMES & BFR Encouraged (per any contraindications)																
	KEV	No valgus stress x 12	2 wee	eks, N	o resi	isted	ham	nstrin	g cu	rling	throu	Jgh c	arc o				
	KEY PRECAUTIONS	months (meniscus),	us), Limit squat depth to ≤70° x 4 months (meniscus), NO ER (cross-														
		legged sitting) x 4 n (ISO) isometric, (KF)															
	ABBREVIATIONS	exercise, (SLR) straig													siun	20	

POST-KNEE SURGERY RETURN TO ACTIVITY GUIDELINES/CRITERIA

Return to run guidelines	≥16 weeks post-op, YBT-Anterior ≤4 cm SSD, walk ≥1 mile no limp/no pain, Quad streng ≥75% LSI, ≥70% peak torque/BW				
Return to jump guidelines	≥20 weeks post-op, YBT(A) ≤4 cm SSD, Quad strength ≥80% LSI, ≥80% peak torque/BV 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