ACL Reconstruction with Quadriceps Tendon Autograft and Meniscal Repair Inside-Out Rehabilitation Protocol

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	Weight-bearing	Brace	Range of Motion	Exercises
Phase 1 0-2 weeks	Heel touch with crutches ^a	0-2 week: Locked in full extension for ambulation and sleeping Off for exercises and	Gentle Passive 0-90° at one week postop visit, then progress to full	Calf pumps, patellar mobilization, quadriceps tightening sets and SLR in brace . No weight-bearing motion.
		hygiene only		
Phase 2 2-12 weeks	50% weight shearing with brace I unlocked 0-90°	2-6 weeks: Unlocked 0- 90° for ambulation, remove for sleeping Discontinue at 6 weeks if quadriceps control is adequate (no extension lag)	Gain full and pain-free	Add side-lying hip and core, advance quad set and stretching ^a
				In brace: Addition of heel raises, total gym (closed chain), gait normalization, eccentric quads, eccentric hamstrings.
				Advance core work with hip, gluteal and core strengthening No weight-bearing with flexion >90°
				Begin toe raises, closed chain quads, balance exercises, hamstring curls, stationary bike, step-ups, front and side planks, hip/glute/core
	weeks.			Begin Stationary Bike at 8 weeks
Phase 3 12-16 weeks	gait pattern	None	Full	Advance closed chain strengthening Progress proprioception activities
				Elliptical at 12 weeks (low flexion angles)
				Running straight at 14-16 weeks when 8" step down is satisfactory
Phase 4 16 weeks – 6 months	Full	None	Full	16 weeks : Begin jumping
				20 weeks: Advance running to sprinting, backward running, cutting, pivoting, changing direction, initiate plyometric program and sport-specific drills
				22 weeks: Advance as tolerated
				FSA completed at 22 weeks ^b
Phase 5 6-12 months	Full	None	Full	Gradual return to sports participation after completion of functional sports assessment (FSA)
				Maintenance program based on FSA

SLR - Straight-leg raise

^aModified with concomitantly performed meniscus repair/transplantation or articular cartilage procedure

^bCompletion of FSA (Functional Sports Assessment) is not mandatory, but is recommended at approximately 22 wks postop for competitive athletes returning to play after rehabilitation