

Anterior Cruciate Ligament Reconstruction with Meniscal Repair Guideline

Time	Goals	Precautions/Restrictions	Treatment
Weeks 0 – 2	 Reduce pain and swelling Full passive extension Maintain patellar mobility Active quadriceps control 	 Brace locked in extension with WB No open chain knee extensions No isolated hamstring strengthening with hamstring autograft NWB first 2 weeks **Defer to operative note for surgeon specific WB instructions with concurrent injuries** 	
		 No open kinetic chain exercises No running, jumping, cutting, pivoting, or twisting Avoid painful activities/exercises Brace unhinged with excellent quad control Partial weight-bearing 2-6 weeks team if full knee extension and unassisted out extensor lag not achieved by week 4. 	 Progress ROM as tolerated Gait training progressing from assistive device Closed kinetic chain strengthening as tolerated Core stabilization exercises Optional therapies: anti-gravity treadmill
Weeks 6 – 12	 Full, symmetric and painfree ROM Progress quadriceps strength/endurance Increase functional activities Discontinue brace with normalized gait mechanics 	 Avoid painful activities/exercises May initiate open kinetic chain exercise 90-0° at 6 weeks (BW only) 90-0° with progressive loading at 10 weeks No running, jumping, cutting, pivoting, or twisting 	 Progressive double and single limb strengthening End range flexion and extension Aerobic training on stationary bike, elliptical, stair climber, UBE Progression of balance/proprioception
Weeks 12 – 16	 Full, symmetric ROM Progressive resistance training Pass Return to Run criteria (See appendix) No effusion with increased activity 	 Avoid painful activities/exercises No jogging on painful or swollen knee 	 Progress hypertrophy and strength training Continue balance/proprioceptive training Perform Return to Run testing (between 12-16 weeks) Initiate running program; if applicable
Months 4 – 6	 Full, symmetric ROM Progress sport specific training Successful progression of return to run program Initiate plyometric and agility training 	 Avoid painful activities/exercises No jogging on a painful or swollen knee No participation in sports 	 Progression of return to jogging program Continue progressive resistive exercise (PRE) Increase intensity of plyometric and agility training Implement ARC Program
Months 6 – 9	 Continue to progress functional strengthening Sport-specific training Pass Return to Sport criteria 	 No participation in sports unless specified by care team Avoid painful activities 	 Continue PRE with strength, power, velocity focus Progress plyometrics and agility Begin sport-specific training Gradual RTS progression if criteria passed

This guideline is not meant to be prescriptive but a recommendation to the rehabilitation process. Progress may vary based on specifics of injury and procedure.



Anterior Cruciate Ligament Reconstruction Functional Assessment

Phase	Criteria	Testing
Weeks 12- 16 Must meet criteria prior to running	 Full, symmetric ROM Y-balance anterior reach asymmetry < 5 cm Quadriceps strength for isometric test > 80% of uninvolved side Hip abduction strength for isometric test > 80% of uninvolved side 	 Knee assessment including assessment for effusion Passive and active ROM Y-balance anterior reach Isometric knee extension at 60° and 90° with handheld dynamometer (HHD) Isometric hip abduction at neutral with HHD Single leg isometric squat at 60° on 3PQ Forward step-down assessment FOTO, IKDC
Month 6	 Full, symmetric ROM 100% limb symmetry (LSI) for isometric testing 100% LSI for functional testing ACL-RSI > 56 	 Knee assessment including assessment for effusion Passive and active ROM Hop Test Single Hop Triple Hop Crossover hop Isometric knee extension at 60° and 90° with HHD Isometric knee flexion at 60° degrees with HHD Single leg isometric squat at 90° on 3PQ Single leg jump on 3PQ IKDC, ACL-RSI
Month 9+ Must meet criteria prior return to sport	 Full, symmetric ROM 100% LSI for isometric and functional testing ACL-RSI > 56 Safe integration and progression to sport 	 Knee assessment including assessment for effusion Passive and active ROM Hop Test Single-leg triple Hop Medial triple hop Medial rotation hop Isometric knee extension at 60° and 90° with HHD Isometric knee flexion at 60° with HHD Single leg isometric squat at 60° on 3PQ Single leg jump on 3PQ Agility T-test IKDC, ACL-RSI