MENISECTOMY AND DEBRIDEMENT POST OPERATIVE PROTOCOL

	Time Frame (Weeks)	Guidelines	Goals
MAXIMUM PROTECTION	0 to 1	CRUTCHES: 50% partial weight bearing x 1 week EXERCISE PROGRESSION Gait training Extension - heel props for full extension as needed Flexion - off table or wall slides Quadriceps setting using NMES as needed Multi-plane straight leg raises Bilateral calf raises Ankle pumps CARDIOVASCULAR EXERCISE Stationary biking RECOMMENDED LOAD Short but frequent bouts of ROM, quad activation 3+x/day	Reduce inflammation Normalize patella mobility full extension; passive/active Good quadriceps control No extension lag 100°-120° of knee flexion
	1 to 2	EXERCISE PROGRESSION Continue with 0-1 week program Extension – heel props or add prone hangs (as needed) Flexion – wall or heel slides Ball bridge and/or isometric hamstring activation CARDIOVASCULAR EXERCISE Stationary biking Short walks using a crutch as needed RECOMMENDED LOAD Short but frequent bouts of ROM, quad activation 2-3x/day Stationary bike 1x/day, 10-20 minutes	 Reduce inflammation Transition off crutches Full knee extension/hyperextension No extension lag 120°+ of knee flexion
PHASE II	2 to 4	EXERCISE PROGRESSION Extension—heel props and prone hangs as needed Flexion—continue with end range heel slides Bilateral mini squats—focus on proper alignment Multi-plane open and closed kinetic chain hip strengthening. Step-up progression—focus on proper alignment Hamstring activation with bridge on floor, ball or box Progress to unilateral heel raise off the floor, then off step Proprioception drills CARDIOVASCULAR EXERCISE Stationary biking Treadmill/outdoor walking, focus on proper gait mechanics RECOMMENDED LOAD ROM: 2-3x/day Strength: 1x/day open chain; 3x/week closed chain Cardiovascular: 20 minutes/day with low intensity	 Progress off crutches Full knee extension/hyperextension Knee flexion to full as tolerated Normalize gait mechanics Normalize patellofemoral joint and scar mobility

	Time Frame (Weeks)	Guidelines	Goals
PHASE II (continued)	4 to 6	EXERCISE PROGRESSION Controlled movement series - warm-up Leg press, hamstrings curls, calf raises Single leg RDL's CARDIOVASCULAR EXERCISE Increase intensity/duration Stationary biking Treadmill/outdoor walking, focus on proper gait mechanics Arc trainer or elliptical RECOMMENDED LOADING ROM: 2x/day	Reduce inflammation Full ROM Normal gait
		 Strength: 3x/week on closed chain loading Cardiovascular: 20-30 minutes/day low/moderate intensity 	
PHASE III	6 to 8	 MOVEMENT PREP Foam roller Controlled movement series EXERCISE PROGRESSION Weighted squat progression Single leg squat/lunge progression (dips, retro, walk, split), 	 Control inflammation with increasing loads Full knee flexion and extension with terminal stretch Progressive strengthening Increase muscular endurance
		focus on eccentric control and alignment Monster walks CORE PROGRAM Front plank—full, may advance to alternating leg lift Bridge—marching or single leg Dead bug progression Quadruped alternating arm/leg	
		CARDIOVASCULAR EXERCISE • Stationary biking • Treadmill/outdoor walking, focus on proper gait mechanics • Arc trainer or elliptical	
		RUNNING PROGRESSION • Basic ladder series • Skipping • Walk/jog interval program	
		JUMPING PROGRESSION • Low amplitude bilateral single response jumps	
		 SPORTS SPECIFIC ACIVITY PROGRESSION Outdoor biking: WEEK 6 Shallow water pool running: WEEk6 Swimming, free style: WEEK 6 High intensity interval work with CV program: WEEK 6-8 Non-reactive & non-contact on-field/court progression 	
		 RECOMMENDED LOADING ROM: 1-2x/day Strength: 2-3x/week maximum with closed chain loading Cardiovascular: 20-45 minutes 5x/week, moderate intensity 	

	Time Frame (Weeks)	Guidelines	Goals
PHASE IV	8 to 16	MOVEMENT PREP Foam roller Controlled movement series EXERCISE PROGRESSION Increasing loads from phase III Core program: Increase load as appropriate CARDIOVASCULAR EXERCISE Stationary biking Arc trainer or elliptical Swimming RUNNING PROGRESSION Advanced ladder series Linear acceleration/deceleration Sprinting Change of direction and lateral agility JUMPING PROGRESSION Low amplitude bilateral single response jumps Bilateral multiple response jumps Unilateral single response jumps Unilateral single response jumps PROGRESSION Interval golf program: WEEK 8 Progress intensity with field/court working toward full RTS SPORTS TEST AND FULL RETURN TO ACTIVTY Follow-up examination with physician Sports test for return to competition at 12 weeks RECOMMENDED LOADING ROM: global stretching Strength: 2-3x/week with increasing resistance Cardiovascular: 20-45 minutes 5x/week. Alternate impact and non-impact days using sound recovery principles	Control inflammation with increasing loads Progressive strengthening Increase muscular strength, power and endurance Establish ETA Control inflammation with increasing loads Frogressive strengthening Increase muscular strength, power and endurance Establish ETA