

Your Life in Motion

PATELLAR TENDON FENESTRATION POST OPERATIVE PROTOCOL

Time Frame Guidelines Goals (Weeks) **CRUTCHES:** 50% partial weight bearing x 2 weeks Reduce inflammation BRACE: Locked 0/0 knee extension for 6 weeks Patellar mobilization EXERCISE PROGRESSION • Full extension, passive and active • ROM full as tolerated Gait training 0 to 2 Range of motion Gradual progression to full Beginning gentle submaximal quad sets **RECOMMENDED LOAD** Short but frequent bouts of ROM, quad activation 3+x/day EXERCISE PROGRESSION Reduce inflammation Gait training • Full knee extension/ · Knee flexion - off table, wall or heel slides hyperextension PHASE I Quadriceps activation • WBAT, progress off crutches • Multi-plane straight leg raises • Range of motion full as tolerated 2 to 4 Bilateral calf raises Hamstring isometrics • Straight leg ball bridges **RECOMMENDED LOAD** • Short but frequent bouts of ROM, quad activation 3x/day **EXERCISE PROGRESSION** • FWB Open and closed multiplane hip strengthening Full ROM 4 to 6 • Proprioception drills Heel raises **BRACE SETTINGS** • Full knee extension/hyperextension 0°-45° week 6 Knee flexion progress to full 0-90 week 7 • Normalize gait mechanics Ween out of brace week 8 • Normalize patellofemoral joint and scar mobility **EXERCISE PROGRESSION** • Extension – heel props and prone hangs as needed Flexion – end range heel slides and quadriceps stretching • Bilateral squat / leg press progression – focus on proper alignment with gradually increasing depth • Multi-plane open and closed kinetic chain hip strengthening • Step-up progression – proper alignment, eccentric control Controlled movement series • Hamstring activation with bridge on floor, ball or box PHASE II 6 to 12 · Hamstring curls on machine or single leg RDL's • Progress to unilateral heel raise off the floor then off a step Proprioception drills CARDIOVASCULAR EXERCISE Stationary biking Treadmill/outdoor walking; focus on proper gait mechanics • Arc trainer Elliptical Swimming – light flutter kick **RECOMMENDED LOAD** • ROM: 2-3x/day • Strength: 5x/week on open chain; 3x/week closed chain Cardiovascular: 20-30 minutes/day low/moderate intensity

	Time Frame (Weeks)	Guidelines	Goals
PHASE III	12 to 16	 MOVEMENT PREP Foam roller Controlled movement series EXERCISE PROGRESSION Weighted squat progression Single leg squat/lunge progression (dips, retro, walk and split), focus on eccentric control and alignment. Monster walks Core program integrated with LE program CARDIOVASCULAR EXERCISE Stationary biking Treadmill/outdoor walking with proper gait mechanics Arc trainer or elliptical ACTIVITY PROGRESSION Outdoor biking – week 12 Shallow water pool running – week 16 Higher intensity interval work with CV program – wk 12-16 RECOMMENDED LOADING ROM: 1-2x/day Strength: 3x/week on closed chain loading Cardiovascular: 20-45 minutes 5x/week with moderate intensity and intervals. 	 Control inflammation with increasing loads Full knee flexion and extension with terminal stretch Progressive strengthening Increase muscular endurance
PHASE IV	16 to 24+	EXERCISE PROGRESSION Movement Prep from phase III Increase loads from phase III Increase loads from phase III CARDIOVASCULAR EXERCISE Stationary bike Arc trainer or elliptical swimming JUMP PROGRESSION Low amplitude bilateral single response jumps - wk 20 Bilateral multiple response jumps - wks 20-24 Unilateral single response jumps - wk 24 RUNNING PROGRESSION Basic ladder series - wk 16 Skipping - wk 16 Linear acceleration/deceleration - wks 20-24 Sprinting - wk 20-24 Change of direction and lateral agility - wk 24 SPORT SPECIFIC ACTIVITY PROGRESSION Non-contact & non-reactive field progression - wks 20-24 Interval golf program - wk 20 Reactive and contact field/court progression - wks 20-24 Sports TEST AND RETURN TO FULL ACTIVITY Follow-up examination with physician Sports test for return to competition: 6-9 MONTHS RECOMMENDED LOADING ROM: global stretching 2-3x/week Alternate impact and non-impact days using sound recovery principles.	 Control inflammation with increasing loads Increase muscular strength, power and endurance Establish RTA