

Post-Op Week 0-6:

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Physical Therapy Protocol Following High Tibial Osteotomy

Weight Bearing Status – Non-Weight Bearing x 6 weeks with brace locked in extension, when not moving around brace can be unlocked from 0-90

Goals:	1. Minimize swelling and pain
	2. Protect soft tissue and osteotomy fixation
	$3. \text{ CPM } 90^{0}$
	4. Full active extension and flexion to 90°
Exercises:	1. SLRs in all planes (use brace locked in extension)
	2. Heel slides to 90°, calf pumps, quad sets
	3. E-stim and biofeedback to regain quad function
	4. Patellar mobs
	5. Ankle ROM and resistive exercises with theraband6. Calf and hamstring stretches
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Criteria before Phase 2: Quad co	ontrol, 90° of knee flexion, full extension, good quad set, SLR without extension lag
Post-Op Weeks 6-8:	
Goals:	1. Increase ROM and quad strength
	2. Establish normal gait with unlocked brace
	3. Begin 50% WB at 6 weeks with crutches
	4. Initiate FWB at 8 weeks; may discontinue crutches with
	patient has good quad control
Exercises:	1. Progress to SLRs without brace when quad strength can
	prevent extension lag
	2. Increase ROM (no limit)
	3. Stationary bike (seat high, low tension)
	4. Pool walking to establish a normal gait
	5. Begin proprioception training:
	**Mini-tramp standing
	** Standing ball throwing and catching

Criteria before Phase 3: Normal gait, ROM 0-100°, sufficient strength & proprioception to initiate functional activities

Goals: 1. Improve confidence in the knee 2. Progress with strength, power and proprioception Exercises: 1. Continue with flexibility exercises 2. Hamstring curls 3. Mini-squats and leg press to 60° 4. Stairmaster, elliptical, cross-country ski machine, lap swimming 5. Stationary bike, increase resistance 6. Step-up, start with 2" and increase to 8" 7. Continue to work on proprioception and balance (lateral slide board, ball throwing) 8. Treadmill walking Criteria before Phase 4: Normal gait, sufficient strength & proprioception to progress to recreational activities Post-Op Weeks 12+: Goals: 1. Return to unrestricted activity by 5-6 months Exercises: 1. Progress with flexibility and strengthening program 2. Advance with closed chain exercises 3. Begin pool jogging and progress to jogging on land 4. Begin to incorporate cutting drills into agility training 5. Advance heights with plyometric conditioning 6. Sport specific drills (start on a 25% speed and advance as tolerated)

1. Full ROM

5. Normal gait

4. No patellofemoral symptoms

2. Quad and hamstring strength 90% of contralateral side3. No reactive effusion or instability with sport-specific drills

Post-Op Weeks 8-12:

Criteria for release to sport(s):