Achilles Tendon Repair Protocol

Week Four To Eight		Weeks Eight To Twelve
Initial Evaluation		Evaluate
measures Gait in a weeks GENTLE	(Weekly circumferential thigh and calf s) CAM boot with 2 wedges NWB x 6 E AROM -20 to 0 (NO PASSIVE) TW and sport expectations	 Active range of Motion Swelling and tenderness Strength Gait Assess foot position/mechanics and advise (in conjunction with referring provider) on appropriate footwear/orthotic need.
	Patient Education	Patient Education
 Swelling Initiate Remove week 6 Discuss f 	Physician prescribed meds control and incision care. WBAT at 6 weeks 1 wedge every 2 weeks beginning at Frequency and duration of treatment (2- expected for 8 weeks. Periodic visits for	 No running or jumping Wean from CAM boot, returning to use of assistive device (as needed) WBAT FWB out of Cam boot by week 10-12
·	Therapeutic Exercise	Therapeutic Exercise
 AROM t Proximal boot (leg May initi weeks Initiate sl 	tationary bicycle in boot o 0 degrees DF until week 6 LE strengthening and core stability in raises, clamshells, bridges) ate gentle heel cord stretching at 6 hallow water aquatics for gait and deep endurance/cardio at 6 weeks	 Continue bicycle or elliptical/walking on treadmill Continue heel cord stretching Begin PF and DF PRE Inversion/eversion isometrics progressing to isotonics Static balance and proprioceptive exercises Progress to closed chain strengthening (squat, step up, bilateral HR at 10-12 weeks) Continue/progress core stability activity Progress aquatics for LE strengthening and flipper use for ROM
	Manual Techniques	Manual Techniques
mobiliza	eduction techniques and scar tion/desensitization beginning at 3 ven good wound closure and healing	 PROM, Mobs as needed Scar mobilization/desensitization
	Modalities	Modalities
Moist he	apy weeks 2-6 at at 6 weeks s as indicated and dependent on wound	➢ As indicated
Goals		Goals
Early ger	epair welling and tenderness ntle ROM gait in cast-boot	 Protect repair Normal incision mobility Gain ROM (Normal ROM expected by 16 weeks post) Strength 3+/5 to 4/5 Progress to FWB out of boot by 12 weeks

Weeks 13 To Discharge	Return To Sports Criteria
Evaluate > ROM > Strength and balance > Address any deficits that may limit return to work or sport goals > HEP compliance Therapeutic Exercise > Heel raises progressing to eccentrics and single leg > Aggressive ankle strengthening all planes > Heel and toe walking > Dynamic balance progression > Progress closed chain exercise > May begin agility and plyometric activity at 16 weeks with physician approval > May begin jogging at 16 weeks with physician approval	 Eccentric heel raise on involved LE for 2 sets of 15 Lateral step down for 2 sets of 15 Bilateral toe walking with no heel drops or shifting toward uninvolved LE Run x 5 minutes with no deviation at heel strike Triple hop test for distance (must be 90% of uninvolved LE)
 Encourage participation in the CFA 	
Manual Techniques	
Any as indicated	
Modalities	
Any as Indicated	
Goals	
 Full ROM 20% or less deficit in gastroc/soleus strength Return to work or sport Independence with HEP 	

References:

- 1. Saxena. Strategies for Rehab. After Achilles Tendon Surgery. Lower Extremity Review Magazine, 2013
- 2. N. Worth, S. Ghosh, N. Maffuli. Management of Acute Achilles Tendon Ruptures in the United Kingdom, Journal of Orthopedic Surgery, 2007.
- 3. Spooner, A. A. Suchak, D. Reid, N.M. Jomha. Lippincott, Williams and Wilkins (eds). Postoperative Rehabilitation Protocols for Achilles Tendon Ruptures- A Meta-analysis 2006.
- 4. A. Green, R Hayda, A. Hecht. (2018) Postoperative Orthopedic Rehabilitation. Chapter 59 pages 530-534. Philade; lphia Wolters Kluwer

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