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## **Achilles Tendon Repair Protocol**

Name							Date								
Procedure _															
Procedure D	ate	·													
Frequency	1	2.	3	4	5	times/week	Duration	1	2.	3	4	5	6	weeks	

Anytime the dressing is changed or examined, *please wash hands* prior with antibacterial soap. Do not apply any ointments or medications to the area. Do NOT remove steri-strips.

\*\*\*Range of motion is an important progression of therapy, but limiting swelling is important. Respecting swelling will decrease pain and improve motion.\*\*

Time Period	Weight Bearing/ Immobiliza tion Non WB/	Goals	Therapeutic Exercise  1. Proximal musculature
weeks	Splint- equinus	PHASE ONE: Protection Phase  1. Do not place the ankle beyond neutral dorsiflexion during any exercise until week 7.	strengthening: LAQ, SAQ, SLR, SL Hip ABD, Clamshells, 4 Way Hip 2. Quadriceps and hamstring stretching.
3-4 weeks	Partial WB-WBAT/Boot-Start 3 wedges, one out per week	<ol> <li>Minimize swelling</li> <li>Keep postoperative splint dry</li> <li>Prevent stretching of Achilles tendon</li> <li>Initiate weight bearing in boot with goal of WBAT by weeks 4-6</li> <li>DVT education and prevention</li> <li>Prevent proximal musculature deconditioning</li> </ol>	<ol> <li>Home program: Active ROM dorsiflexion and plantarflexion exercises (3 sets of 30, 3x per day) - can do PF against light resistance of a TheraBand for tendon training.</li> <li>Progressive gentle weight bearing stress on ankle (25-50% of total body weight)</li> <li>Initiate balance and proprioception on a stable surface in boot when WBAT</li> </ol>
5-6 weeks	WBAT/ Boot- Start 3 wedges,		<ol> <li>ROM: add inversion and eversion as tolerated</li> <li>Scar massage/desensitization</li> </ol>

	one out per week		3. Progress gluteal and lumbopelvic strength and stability
7-8 weeks	WBAT/ Boot- 1 wedge, then no wedges	PHASE TWO: Gait Acquisition  1. Prevent stretching of Achilles tendon  2. Swelling management  3. Scar tissue management  4. Slowly wean out of heel wedges  5. Wean out of boot weeks 9-10	<ol> <li>Strengthening: TheraBand- all 4 quadrants.</li> <li>ROM: advance to full range in all planes.</li> <li>Stretching: gentle gastrosoleus and hamstring.</li> <li>Continue with balance and proprioceptive exercises in boot</li> </ol>
9-10 weeks	WBAT/ No boot	6. Normalize gait mechanics without boot	<ol> <li>Stretching: advanced gastrosoleus and hamstring stretching.</li> <li>Strengthening concentric exercisesall 4 quadrants.</li> <li>Bilateral heel raise progression starting with greater weight on unaffected side</li> </ol>
11-12 weeks	Low-effect WB/ None		<ol> <li>Low effect aerobic: elliptical, walking, stairmaster.</li> <li>Strengthening: eccentric exercises         <ul> <li>all 4 quadrants</li> </ul> </li> <li>Advanced heel raise progressions - eccentrics</li> <li>Gait training</li> </ol>
13-16 weeks	High-effect WB/ None	PHASE THREE: Progression to Sport  1. Prevent stretching of Achilles tendon. 2. Progress functional strength with goal of 80% minimum strength as compared to contralateral LE prior to onset of jogging program 3. Balance and proprioception	<ol> <li>High effect aerobic- HIIT on bike, high RPE stairmaster, elliptical, initiate pre-running/jogging activities with agility ladder, wall running drills, etc.</li> <li>Strengthening: eccentric exercises all 4 quadrants</li> <li>Advanced balance and proprioception on a single leg</li> <li>End range of motion plantar flexion strengthening</li> </ol>
4-5 months	High-effect WB/ None	symmetrical to unaffected side 4. Return to jogging at 16 weeks if appropriate 5. Progress in-line recreational activities avoiding plyometrics/sprinting/full sport until 9 months postoperatively	<ol> <li>Sports specific- straight plane accelerations and decelerations to progress to sport specific movements such as cutting and jumping</li> <li>Return to jogging program at 16 weeks if patient is able to complete unilateral heel raise with only 2 finger light touch for balance at 80-90% endurance of contralateral side through full range of motion</li> </ol>

			3. At 6 months, increased speed of running and sport specific activity by 9 months post-op
Comments:	Teach HEP	Modalities: PRN	
v .	101	•	nding on many factors. Please use your considered to improve patient's outcome
Patient's r		roach: Patient, family/friend ember plays an important ro	support, therapist, and surgeon. Every le in recovery.
Signature		Date	