GUIDELINE

Purpose:

This guideline is designed to return the individual to their full activities as quickly and safely as possible, following a Total Ankle Replacement. Modifications to this guideline may be necessary dependent on physician specific instruction or other procedures performed. This evidence-based Total Ankle Replacement guideline is criterion-based; timeframes and visits in each phase will vary depending on many factors. The therapist may modify the program appropriately depending on the individual's goals for activity following a Total Ankle Replacement.

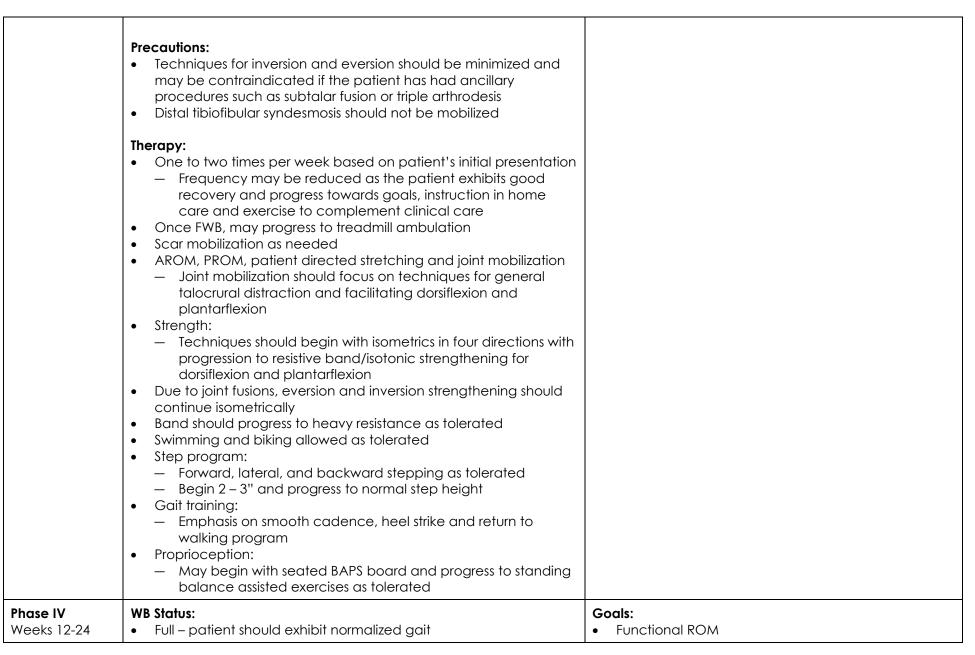
This guideline is intended to provide the treating clinician a frame of reference for rehabilitation. It is not intended to substitute clinical judgment regarding the patient's post-operative care based on exam/treatment findings, individual progress, and/or the presence of concomitant procedures or post-operative complications. If the clinician should have questions regarding post-operative progression, they should contact the referring physician.

PHASE	SUGGESTED INTERVENTIONS	MILESTONES FOR PROGRESSION
Pre-Op Phase	PT instruct patient in use of assistive device	Goals:Demonstrate safe ambulationAble to maintain NWB status on surgical side
Phase I Surgery – 2-3 Weeks	 Immobilization: Cast, splint After two-week follow-up visit, removable boot WB Status: NWB 	 Goals: Skin healing Protection of joint replacement Perform ADLs safely and independently with use of crutches/walker/knee scooter while maintaining NWB status on surgical side
	Gait Training:Correct use of crutches/walker/knee scooter	Criteria to Advance: • Sutures are removed
Phase II Weeks 2-6	Immobilization:Use of removable walker boot at all times	Goals: • Healing • Protection of joint replacement
Expected Visits:	 WB Status: WBAT in boot Precautions: Techniques for inversion and eversion should be minimized and may be contraindicated if the patient has had ancillary procedures such as subtalar fusion or triple arthrodesis Distal tibiofibular syndesmosis should not be mobilized 	 Criteria to Advance: Cleared by Physician with appropriate healing for stage Begin rehab @ 6-8 week

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	 Soft tissue techniques may be used for swelling reduction and scar tissue mobilization No strengthening against resistance if any tendon transfers Therapy: Gentle PROM for two weeks Scar tissue mobilization Progress to AROM one to two times per week with focus on swelling reduction and pain control if needed Home care exercise instructions for motion, pain and swelling control of ankle HEP for strengthening of core, hips, and knees maintaining ankle precautions AAROM, PROM, patient stretching and joint mobilization Joint mobilization should focus on techniques for general talocrural distraction and facilitation dorsiflexion and plantarflexion 	
Phase III Weeks 6-12	Immobilization: • Begin transition into a regular shoe per physicians recommended schedule • Use of removable walker for first two weeks Shoe wearing schedule: • Day 1: 1 hour/day • Day 2: 2 hours/day • Increase 1 hour /day until 8 hours of wear • May split time in half for am/pm, for example: - Day 1: 1 hour/day (30 min am, 30 min pm) If painful, do not advance to next day. If painful with 4 hours, wear boot remainder of day. Start over with day 4 the next day and do not go to day 5. WB Status: • WBAT - WB status and gait progression determined by physician and based on radiographic evidence of implant incorporation	 Goals: Swelling reduction Increase in ROM: Less than or equal to 10° of dorsiflexion and 30° to 40° of plantarflexion Neuromuscular re-education Develop baseline of ankle control and strength Criteria to Advance: Normal gait pattern Pain control Edema managed

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Total Ankle Replacement

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	 Therapy: One time every two to four weeks based on patient status and progression Discharged to an independent exercise program ROM: Patient to achieve greater than or equal to 10° of dorsiflexion and 40° of plantarflexion ⇒ Patients with prior ankle fusion may be limited in ROM to 5° of dorsiflexion and 30° to 35° of plantarflexion Strength: Progression to body weight resistance exercises with goal of ability to perform a single leg heel raise Proprioception: Single leg activities progressing into higher level balance & proprioception activities (therapad, rebounder, etc.) ⇒ Patient should be instructed in proprioceptive drills that provide both visual and surface challenges to balance Agility: Cone/stick drills Leg press plyometrics Soft-landing drills Sports: Prior to returning to any running or jumping activity, patient must display a normalized gait pattern and have strength to perform repetitive single leg heel raise ⇒ Ideally, no repetitive high impact sports or occupations 	 ideal: 10° DF, 40° PF Strength 5/5 Adequate proprioception for stable balance Normalize gait Tolerate full day of ADLs/work Return to reasonable recreational activities Criteria to Discharge: Discharge to independent exercise program once goals are achieved Patient to be instructed in appropriate home exercise program
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