

THE ROBERT JONES AND AGNES HUNT ORTHPAEDIC HOSPITAL FOUNDATION NHS TRUST

REHABILITATION GUIDE FOLLOWING REPAIR ACHILLES TENDON RUPTURE

(This is not an exhaustive list of all rehabilitative techniques or therapies and this should not over rule any clinical judgement)

WEEK	MOBILITY	REHABILITATION EXERCISES	GOALS
Week 0-2	NWB in posterior slab/ splint in equinus with appropriate walking aids	 Circulatory exercises SQ/IRQ/SLR/Glut/Hams exercises Upper body exercises Flexibility exercises Contralateral leg exercises AROM exercise for hip and knee Rest in elevation when not exercising or mobilising NWB 	 Good understanding of post- operative rehabilitation. No complications following surgery. Elevation to control swelling Education and advice on self-monitoring /management of sensation, skin colour, circulation, temperature. Safe and independently mobile with appropriate walking aids and correct weight bearing status as advised on discharge from hospital. Safe with transfers and stairs if necessary
Week 2-4	NWB/TTWB in pin cam boot at 40 degrees PF	 Active plantar flexion Dorsiflexion to neutral Inversion/ Eversion below neutral Scar mobilisation AROM exercise for hip and knee with no ankle involvement, e.g. in sitting, prone or side-lying position. NWB fitness/ CV exercises Hydrotherapy (with range of movement and weight-bearing limitations) Upper body exercises 	 Control of swelling Education and advice on self-monitoring /management of sensation, skin colour, circulation, temperature and swelling. Safe independent use of elbow crutches to encourage gradual increase in weight bearing status. Education on the use of the aircast boot to be worn at all times except for hygiene reasons or when exercising.



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WEEK	MOBILITY	REHABILITATION EXERCISES	GOALS
Week 4-6	Increase weight bearing in pin cam boot Change pin cam ROM 20-30 degrees PF	 Commence isometric plantarflexion, dorsiflexion, inversion, eversion in protected range of movement Mobilise midfoot/ forefoot/ 1st MTPJt Continue with week 2-4 rehabilitation plan Scar mobilisation 	 Independently mobile in aircast boot +/- walking aid Swelling and pain control as appropriate Education and advice on self-monitoring /management of sensation, skin colour, circulation, temperature and swelling. Maintain ankle ROM Maintain Hip/ Knee ROM and strength Prevent scar adherence.
<u>Week 6-8</u>	Increase weight bearing to FWB as able Change pin cam ROM 0-15 degrees PF	 Commence graded resistance exercises (OKC, CKC and functional activities) Seated heel raises with graded resistance (soleus strengthening) Gait re-education Proprioceptive training Graded increase in active dorsiflexion (avoid overstretching to prevent a lengthened TA) Scar mobilisation CV training to include graded weight bearing 	 Independently mobile in aircast boot Swelling control as appropriate Education and advice on self-monitoring /management of sensation, skin colour, circulation, temperature and swelling. Maintain Hip/ Knee ROM and strength Prevent scar adherence.



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WEEK	MOBILITY	REHABILITATION EXERCISES	GOALS NHS Foundation T
Week 8-12	Commence normal footwear with heel lifts Return to using crutches if needed for weaning into normal footwear	 Progressively wean off walking aids as able Double leg heel raises → Single leg heel raises Begin unilateral weight bearing exercises Strength exercises for foot and ankle and other muscle groups in kinetic chain as appropriate Higher level balance and proprioception exercises Manual Therapy – soft tissue techniques, joint mobilisations and scar massage if indicated. Hydrotherapy to progress strength and mobility Lower limb biomechanics/ kinetic chain assessment to address any findings including core stability progressions 	 Promote independent gait Optimise normal ankle and foot movement and restore gait pattern Wear correct normal footwear Achieve optimal ankle ROM Optimise core strength and kinetic chain control



From 12 weeks	FWB in normal footwear	 Gait re-education continued- progressions of mobility and function, increasing dynamic control with specific training towards functional goals Progression of ROM, strength, balance and kinetic chain exercises including increasing resistances/ loading (progress resistance/load as clinical judgement suggests.) Increase dynamic weight-bearing exercise, including plyometric training Sports/ activity specific retraining Manual Therapy – soft tissue techniques, joint mobilisations and scar massage if indicated. Promote independent gait- unaided or with walking aid if required long term Good biomechanical and dynamic control. Promote appropriate muscle strength/power and endurance Achieve Grade 5 muscle strength around ankle. Maintain/improve cardiovascular fitness Return to gentle no impact sports/hobbies
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