

# Achilles Tendon Repair Rehabilitation

**Timeframes for rehabilitation phases are a guide only and should be adapted to each individual patient's progress and Dr Zilko's orders.**

## WEEKS 0-2

### GOALS

- Protect the wound and tendon repair.
- Control pain and swelling.

### ORDERS

- Weight-bearing as tolerated.
- Ankle in Achilles boot fixed at 30° PF (plantarflexion) full-time.
- Isometric exercises in boot only.
- Elevate leg to reduce swelling and pain.

## WEEKS 2-4

### GOALS

- Protect tendon repair.
- Regain some ankle ROM.

### ORDERS

- Ankle in Achilles boot, range set from 20°-30° PF week 2; 15°-30° PF week 3.
- Weight-bearing as tolerated.
- Achilles boot off for pain-free exercises and showering only. Boot on in bed.
- Pain-free gravity-assisted PF; no active PF.
- Active dorsiflexion to -15° with flexed knee.
- Active inversion/eversion below neutral (in plantarflexed position).
- Pain-free isometric calf exercises in boot.



- Knee & hip exercises with boot on (no ankle involvement) - eg. leg lifts from sitting, prone, or side-lying position.
- Non-impact fitness/cardiovascular exercises - eg. stationary cycling with one leg, deep-water running in the boot (once wound 100%).
- Incision mobilisation if required (heat, massage in line of scar, ultrasound).

## WEEKS 4-6

### GOALS

- Protect tendon repair.
- Improve ankle ROM and gradual light exercises.

### ORDERS

- Ankle in Achilles boot, change to flat sole; range set from 10°-30° PF week 4, 5°-30° PF week 5.
- Full weight-bearing.
- Achilles boot off for pain-free exercises and showering only. Boot on in bed.
- Pain-free active plantarflexion (no resistance) and dorsiflexion to neutral.
- Active inversion/eversion resistance exercises (theraband) below neutral.
- Progress hip and knee strengthening in boot – eg. controlled squats, step-ups.
- Gait re-training.

# ACHILLES TENDON REPAIR REHABILITATION PROTOCOL

## WEEKS 6-8

### GOALS

- Begin light Achilles / calf strengthening.

### ORDERS

- Ankle in Achilles boot, range set from neutral 0° to 30° PF.
- Boot off for exercises, showering and in bed at night. Boot on for mobilisation.
- Graduated calf strengthening exercises – active plantarflexion, progressing to seated calf raises and theraband resistance.
- Continue strengthening inversion/eversion/dorsiflexion to **neutral**.
- Proprioceptive and gait re-training.

## WEEKS 8-12

### GOALS

- Get into normal running shoes.
- Increase anti-gravity Achilles / calf strength.

### ORDERS

- Move from Achilles boot to running shoes (positive drop only).
- Commence calf stretches and ankle dorsiflexion past neutral.
- Low velocity agility drills; single leg balance; functional movement exercises.
- Commence standing double leg heel raises.
- Cycling/swimming/stairs.
- Avoid flat footwear – eg. thongs or barefeet.

## MONTHS 3-6

### GOALS

- Regain full calf strength, bulk & length.
- Improve endurance and fitness.

### ORDERS

- Progress strength, balance and proprioception.
- Commence standing single leg calf raises and lunges, progress weight as tolerated.
- Progress to light jogging and plyometrics (jumping/hopping) from 4 months if no symptoms, adequate rehab and good calf strength regained.

## MONTHS 6-12

### GOALS

- Return to normal sport and strenuous work.

### MANAGEMENT

- Work/sport specific training.



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