

Triple Joint Fusion

INTRODUCTION

The triple joint complex includes the subtalar, talonavicular and calcaneocuboid joints. Together these joints are responsible for most of the side-to-side movement of the hindfoot. Triple fusion (arthrodesis) is a reliable and effective method of treating severe hindfoot deformities or arthritis. After a triple fusion most patients have considerably less pain and improved foot function.

THE SURGERY

Triple joint fusion surgery involves a number of steps:

- General anaesthetic, nerve block and IV antibiotics
- Tourniquet around the thigh
- Incisions over the outside and inside of the foot
- Removal of any remaining cartilage in the subtalar, talonavicular and calcaneocuboid joints
- Bone graft harvest (proximal or distal tibia)
- Insertion of bone graft into the joints to stimulate fusion
- Internal fixation with screws, staples and/or plates
- Check x-rays
- Closure of incisions with sutures
- Application of plaster cast

GUIDELINES FOR POST-OP RECOVERY

HOSPITAL ADMISSION

• In hospital for 1 night, IV antibiotics

FIRST 2 WEEKS

- Elevate foot and rest
- Strictly NON-WEIGHTBEARING in surgical boot
- Mobilise with knee scooter/crutches/frame
- Boot and dressings to stay dry and intact
- Strong painkillers as required
- Aspirin 100mg, Vit D 5000 units & Vit C 1g per day
- Antibiotics for 5 days
- Wiggle toes to encourage circulation

2 WEEK POST-OP APPOINTMENT

- Nurse review: removal of cast, dressings and sutures
- Change to VACOcast surgical boot

WEEKS 3-6

- Strictly NON-WEIGHTBEARING in boot
- Surgical boot on at ALL times, including in bed, except for rehab exercises & showers (seated with shower chair)
- Mobilise with knee scooter/crutches/frame
- Elevate foot when resting
- Continue Aspirin, Vitamin D and Vitamin C
- Podiatry/physiotherapy review (arrange first appointment 2-5 days after 2-week post-op check)
- REHAB PODIATRY/PHYSIOTHERAPY:
- Gentle active ankle plantarflexion/dorsiflexion and toe flexion/extension **NO** inversion/eversion
- Soft tissue massage and scar mobilisation, nerve desensitisation
- General upper body, core, hip and knee exercises

6 WEEK POST-OP APPOINTMENT

• X-ray and review by Dr Zilko

WEEKS 7-12

- Surgical boot on at all times during the day except for rehab exercises & showers (with shower chair)
- Can sleep out of boot at night
- Elevate foot when resting
- Continue Aspirin, Vitamin D and Vitamin C
- PODIATRY/PHYSIOTHERAPY:
- Commence partial weightbearing in surgical boot with crutches/frame, and progress up to full weightbearing as tolerated
- Passive and active ROM of ankle and forefoot joints

12 WEEK POST-OP APPOINTMENT

• X-ray and review by Dr Zilko

FROM 12 WEEKS

- PODIATRY/PHYSIOTHERAPY:
- Transition out of boot into normal supportive shoes
- Gait re-training, continue strength and conditioning

6 MONTH POST-OP APPOINTMENT

• CT scan to confirm fusion and review by Dr Zilko

Full recovery is usually 6-12 months. Every patient's recovery is individual and depends on the severity of the injury/disease and complexity of the

surgery.

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