

Total Ankle Replacement (TAR)

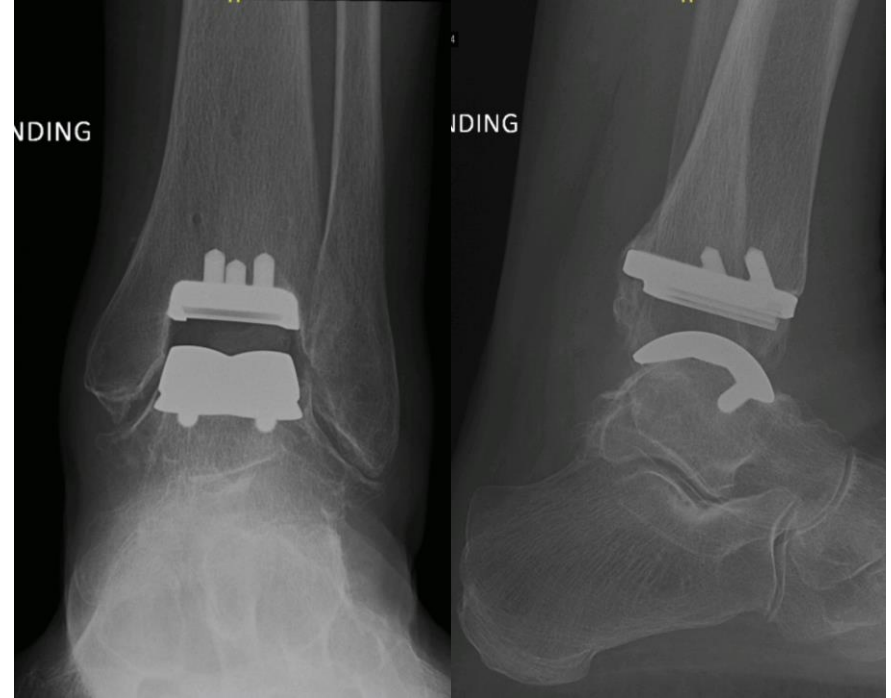
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Consultant Orthopaedic Surgeon

What is a Total Ankle Replacement?



Before



After

Results are better, because:

(1.) Better implant design (3rd Generation)

- Also aid of technology, Patient specific implants

(2.) Surgeons are better

- Ankle Arthroplasty surgeons / High volumes

(3.) Better understanding of ankle kinematics

- Art of balancing Total Ankle Replacements

Ankle Fusion Vs Replacement

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Trial Results

The TARVA trial is a clinical trial for patients with ankle arthritis that are considering surgery. TARVA stands for Total Ankle Replacement Versus Arthrodesis.

I Prefer TAR over Fusion in suitable candidates

- (1.) Quicker recovery time compared to fusion
 - FWB in boot at week (2) and in their shoes by week (6)
- (2.) Maintain good mobility in the ankle
- (3.) Less risk of arthritis in adjacent joints (knee / hindfoot)
- (4.) Patients love it as an option

Contraindications to TAR

Absolute and Relative Contraindications are

Absolute

- (1.) Infection / Malignancy
- (2.) Peripheral Neuropathy / Poor Diabetes
- (3.) Non-compliant patients / severely obese

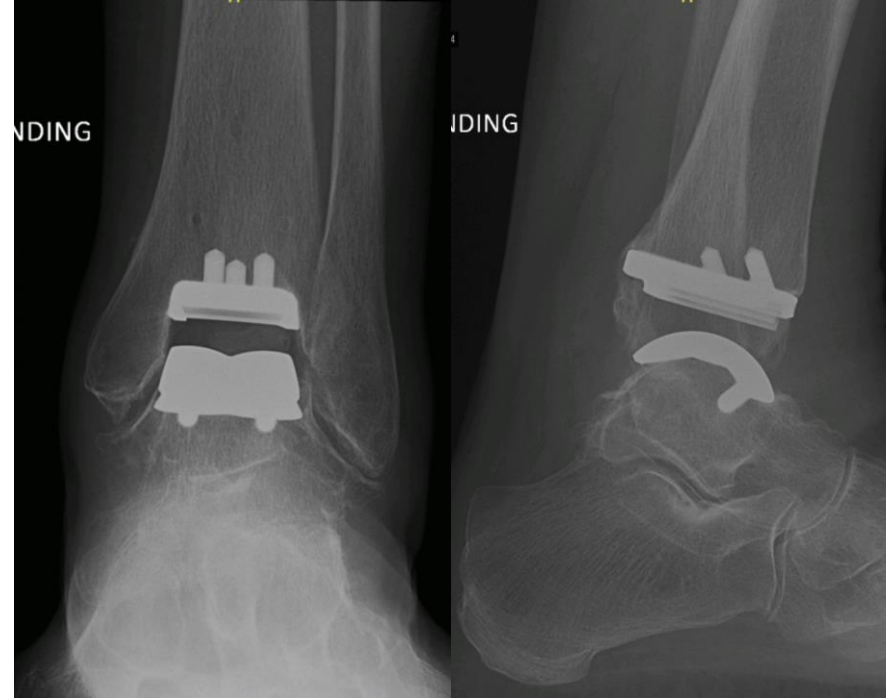
Relative

- (1.) Severe deformities
- (2.) Poor bone stock

'Straightforward' Total Ankle Replacement



Before

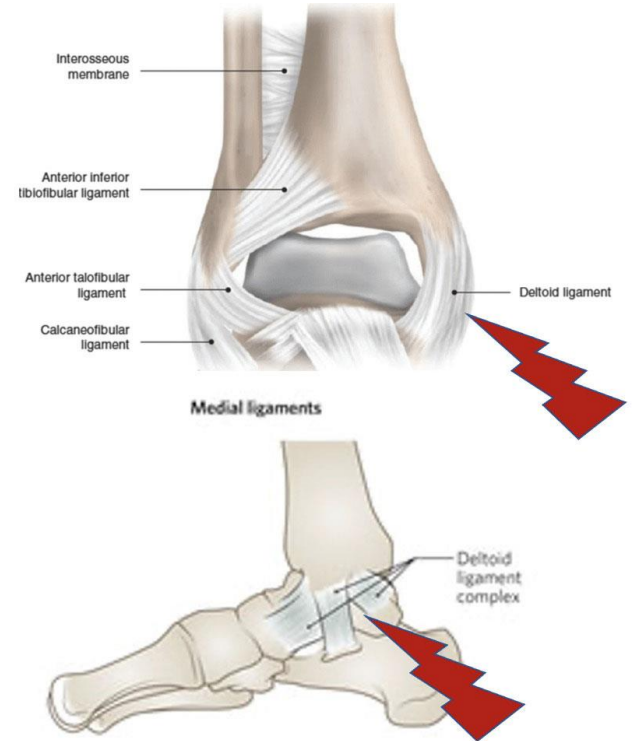


After

'Straightforward' Total Ankle Replacement



Varus Severe Ankle OA



Varus Severe Ankle OA

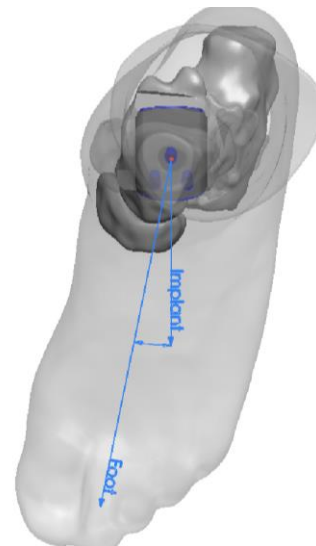
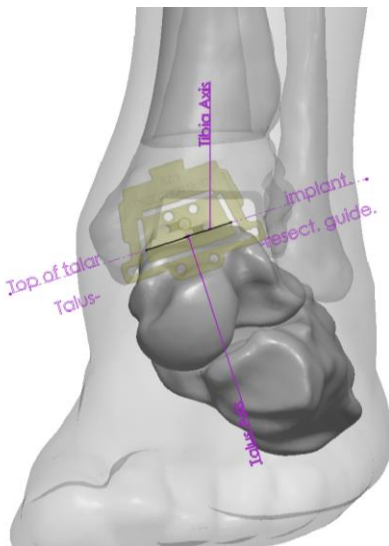


Varus Severe Ankle OA



Varus Severe Ankle OA

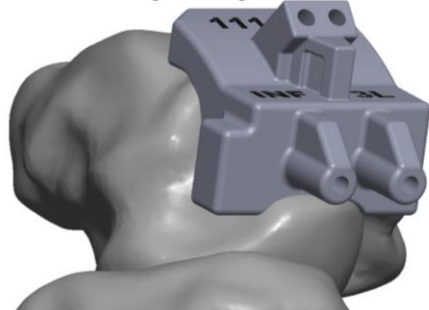
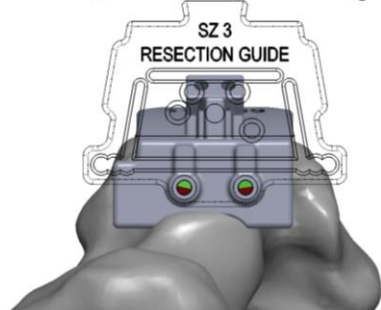




Talar Alignment Guide

Anterior view, with the navicular and resection guide

Superior Oblique View



Superior view

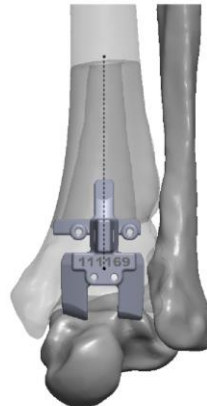
Medial View

Lateral View

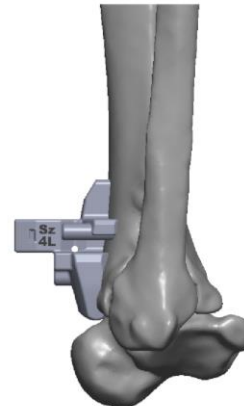
Medial view



Anterior View

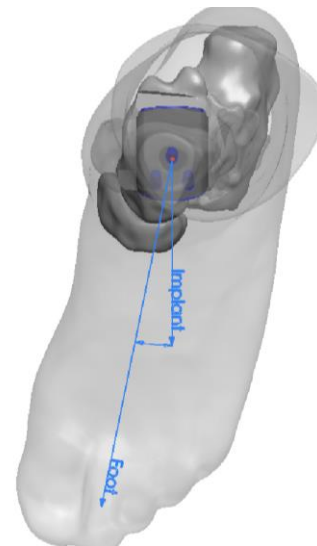
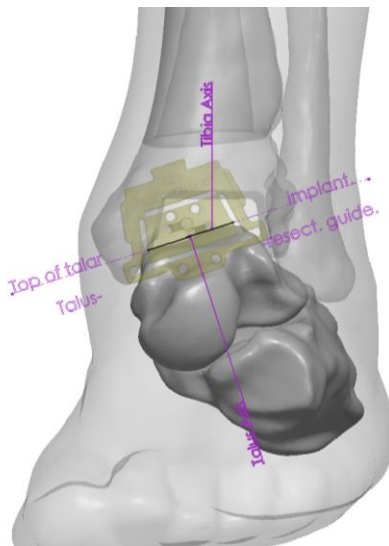


Lateral View



Tibia Guide Comments:

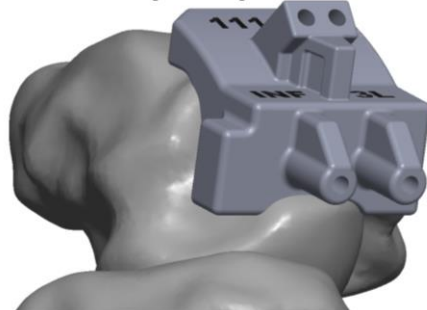
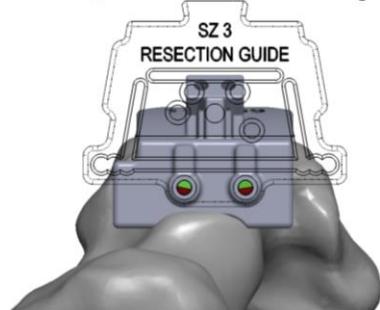
N/A



Talar Alignment Guide

Anterior view, with the navicular and resection guide

Superior Oblique View



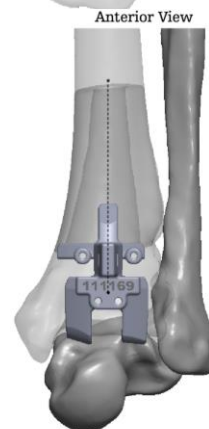
Superior view

Medial View

Lateral View



Medial view



Anterior View



Lateral View

Tibia Guide Comments:

N/A

Valgus Severe Ankle OA



Valgus Severe Ankle OA



Valgus Severe Ankle OA

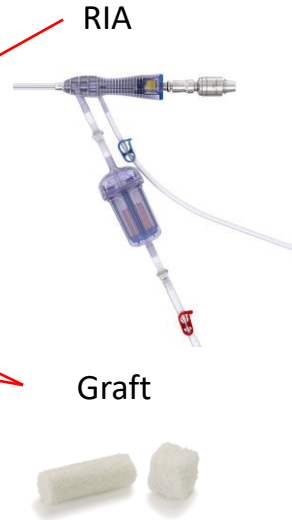


Reconstructive TAR



Reconstructive TAR

Stage (1) – Grafting



Reconstructive TAR

Stage (2) – ST Fusion



Done 4 weeks from Stage (1)

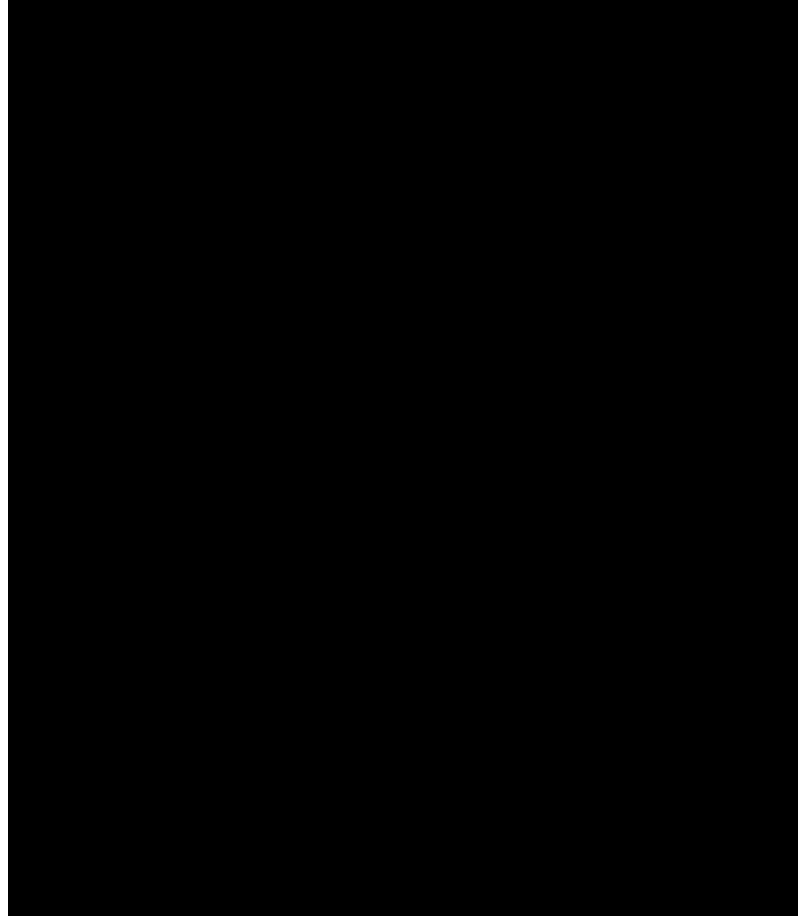
Reconstructive TAR

Stage (3) – TAR



Done 3 months from Stage (2)

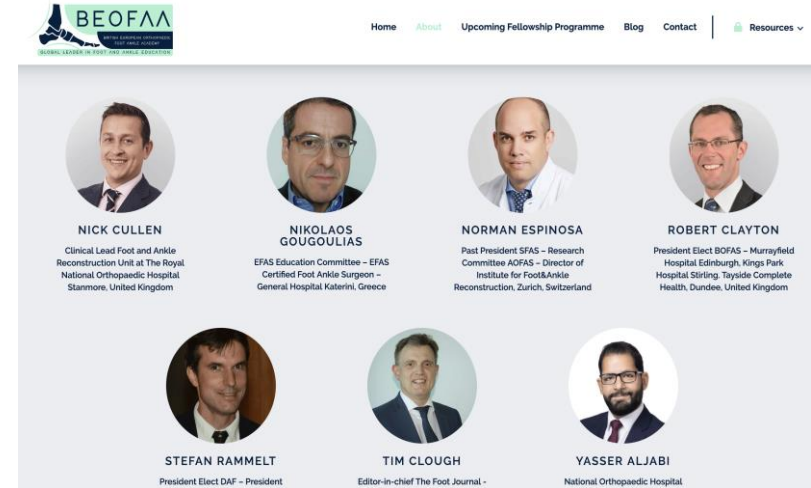
Reconstructive TAR



Beacon Hospital - Reference Centre for TAR

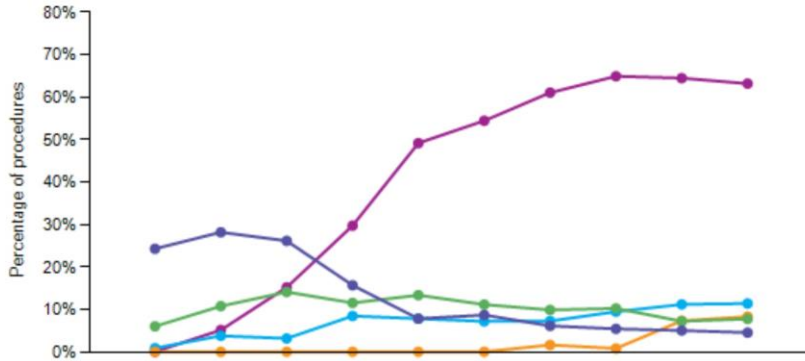


Visitation Centre



International Faculty

Beacon Hospital - Reference Centre for TAR



Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Number of components used	587	591	644	749	796	936	1,067	519	780	932

■ Infinity
 ■ Inbone
 ■ Vantage Talar
 ■ Star
 ■ Zenith

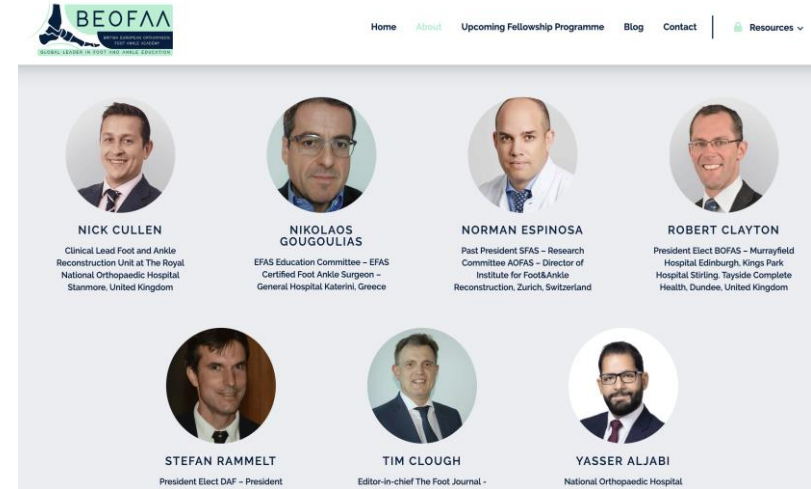


stryker

Beacon Hospital - Reference Centre for TAR



Visitation Centre



International Faculty

Three implant options to fit your unique anatomy

1 Infinity®



The Infinity system offers a balance of stability and mobility, making it suitable for a wide range of patients:

- Anatomically designed components for a more natural fit
- Streamlined instrumentation for potentially shorter operation times
- Optimized bearing design

2 Inbone®



The Inbone system is designed for patients with more complex ankle conditions or those requiring additional stability:

- Modular design allowing for customization to patient's anatomy
- Long tibial stem for enhanced stability, particularly beneficial in cases with poor bone quality

3 Invision®



The Invision system is specifically designed for revision surgeries, addressing the unique challenges of replacing or correcting a previous ankle replacement:

- Ability to address bone loss often encountered in revision cases
- Multiple component options to manage complex anatomical

In Summary . . .

- TAR - Excellent solution for Ankle Arthritis
- Constantly pushing limits and indications
- We do it best – Both primary and revision



Patients' Stories



***'...Thank you for giving me a
new lease on life'***

Total Ankle Replacement at Beacon Hospital



Thank you