

**CERAMENT® G**  
with Gentamicin

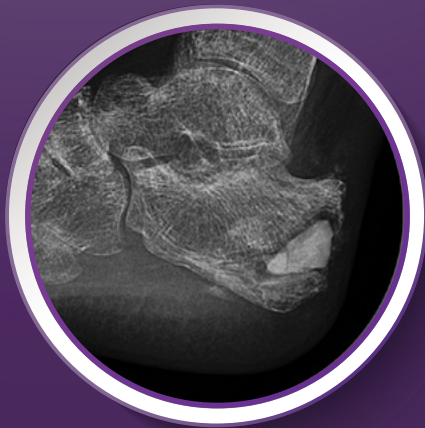
**CASE REPORT**

Medical Education Series

# Chronic Osteomyelitis - Calcaneus

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# CHRONIC OSTEOMYELITIS - CALCANEUS

## PATIENT HISTORY

A 35 year old female sustained a tongue type calcaneus fracture. The original treatment was closed treatment of the fracture. 1 year post op patient was referred for debilitating pain and inability to fit into shoes. Patient was then treated with a calcaneal osteotomy and Achilles reattachment. 3 months later the patient experienced a draining sinus. The calcaneus was debrided, and the anchors and sutures were removed, the wound was closed, and the patient was prescribed IV Cefepime for 6 weeks. Bone cultures were positive for *Serratia marcescens* and *Pseudomonas aeruginosa*. 3 months later, the patient came back with a similar presentation, wound dehiscence and draining wound.

## DIAGNOSIS

Chronic osteomyelitis of the calcaneus

## TREATMENT

After failure of first debridement, a second extensive bony debridement was performed and CERAMENT G was injected into the subsequent bone void. Bone culture was again positive for *Serratia marcescens*, however negative for *Pseudomonas aeruginosa*. The patient was again prescribed IV Cefepime for 6 weeks.

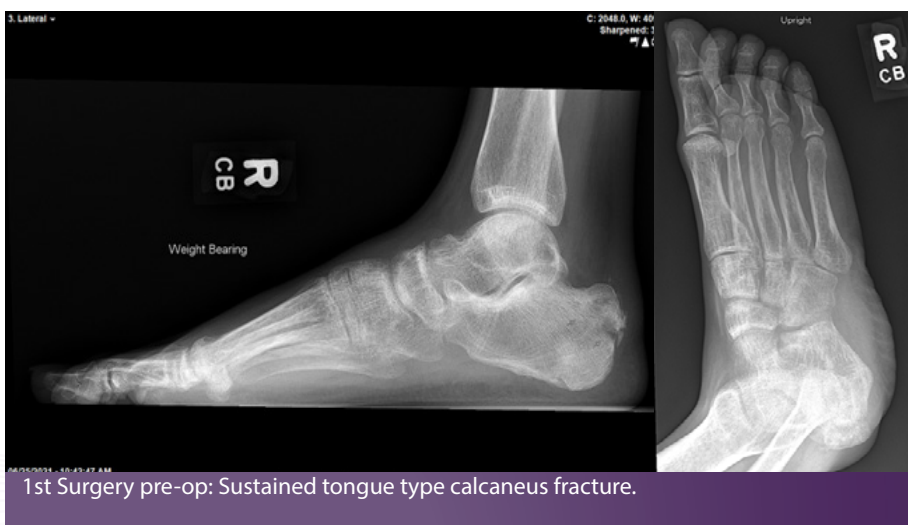
- 1st Treatment – Closed treatment of tongue type calcaneus fracture
- 2nd Treatment – 1 year later Calcaneus osteotomy and Achilles reattachment
- 3rd Treatment – Debridement and removal of anchors and sutures with wound closure
- 4th Treatment – Extensive debridement with injection of CERAMENT G

## CULTURE

Positive for *Serratia marcescens*

## OUTCOME

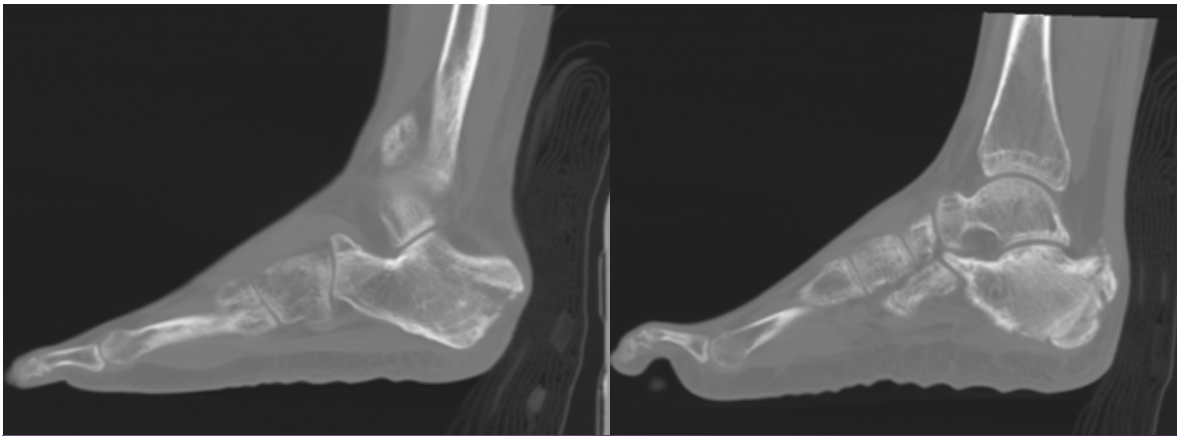
Infection resolution and bone remodeling of CERAMENT G.



# 2nd Treatment



2nd Treatment pre-op: Calcaneus osteotomy and Achilles reattachment.



2nd Treatment pre-op: Calcaneus osteotomy and Achilles reattachment.

### 3rd Treatment



3rd Treatment pre-op: Debridement and removal of anchors and sutures. Wound was closed and patient had IV Cefepime for 6 weeks.

### 4th Treatment



4th Treatment pre-op.



4th Treatment pre-op.



4th Treatment intra-op: Extensive bony debridement and injection of CERAMENT G .



4th Treatment post-op: 3 weeks, degradation of CERAMENT G and generation of a hydroxyapatite-rich matrix.



4th Treatment post-op: 3 months. Visible signs of bone remodeling.

## Advancing Osteomyelitis Management

- Bone remodeling to promote and protect bone healing
- Local antibiotic elution that is safe, consistent and clinically significant<sup>1</sup>



<sup>1</sup> Stravinskas et al. 'Pharmacokinetics of gentamicin eluted from a regenerating bone graft substitute - In vitro and clinical release studies'. Bone Joint Res. 2016; 5:427-435

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