

Medical Education Series

Chronic Osteomyelitis - Calcaneus

Dr. George Ochenjele

*University Hospitals of Cleveland Medical Center
Cleveland, Ohio*



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-operatively the 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 with removal of anchors and sutures. The wound was closed and the patient was prescribed IV Cefepime for 6 weeks. 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 with Gentamicin 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.

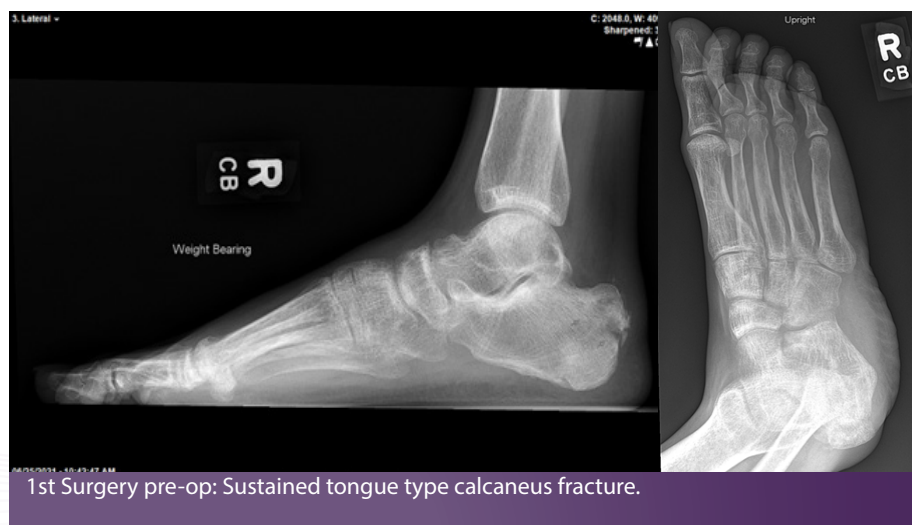
- 1st Treatment – Closed treatment of tongue type calcaneus fracture
- 2nd Treatment – 1 year later calcaneus osteotomy and achilles reattachment
- 3rd Treatment – Debridement and removal of anchors and sutures with wound closure
- 4th Treatment – Extensive debridement with injection of CERAMENT G

CULTURE

Positive for *Serratia marcescens*

OUTCOME

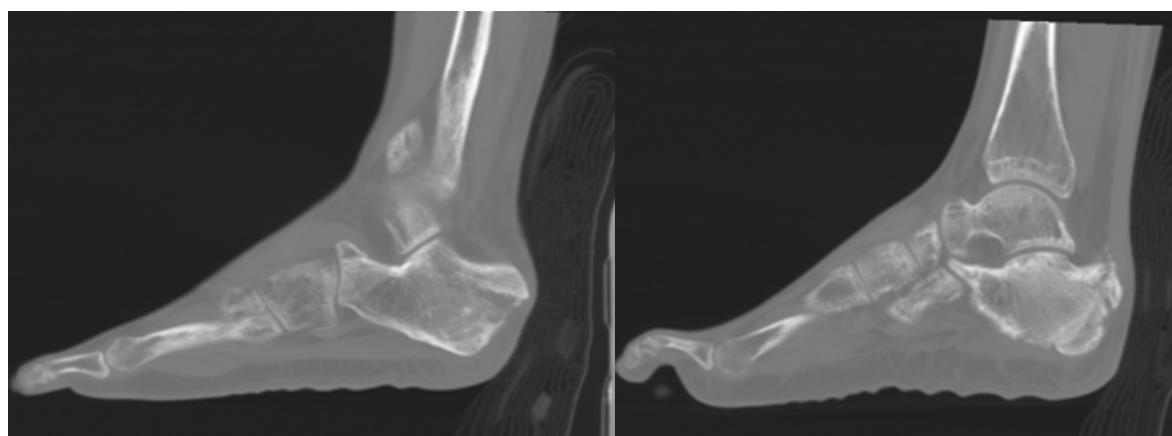
Infection resolution and bone remodeling of CERAMENT G.



2nd Treatment



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



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

3rd Treatment

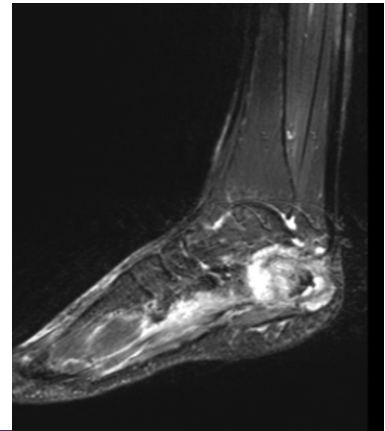


3rd Treatment pre-op: Debridement and removal of anchors and sutures. Wound was closed and patient had IV Cefepime for 6 weeks.

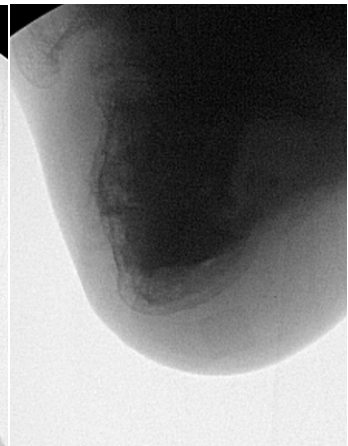
4th Treatment



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.



12 month follow-up: Patient is fully healed and walking.

Advancing Osteomyelitis Management

- Bone remodeling to promote and protect bone healing
- Local antibiotic elution that is safe, consistent and clinically significant¹

¹ 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

TO ORDER

order@bonesupport.com



BONESUPPORT AB
Ideon Science Park,
Scheelevägen 19
SE-223 70 Lund, Sweden

BONESUPPORT, INC.,
117 Fourth Ave, Suite 202
Needham, MA 02494

T: +46 46 286 53 70
F: +46 46 286 53 71
E: info@bonesupport.com

T: +1.877.719.6718
E: us.sales@bonesupport.com
W: bonesupport.com



PR-01394-02 en AU CA EU ROW US 06-2024

