

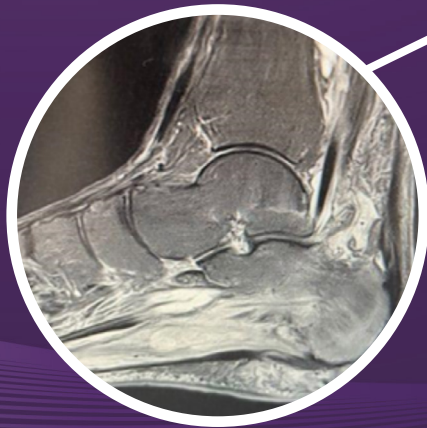
**CERAMENT® G**  
with Gentamicin

CASE REPORT

Medical Education Series

# Diabetic Foot Osteomyelitis with Abscess

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# DIABETIC FOOT OSTEOMYELITIS WITH ABSCESS

## PATIENT HISTORY

A 70 year old male presented with a diabetic ulcer to his right heel for 3 weeks, and subsequently had developed an extensive abscess with osteomyelitis.

## DIAGNOSIS

Diabetic foot osteomyelitis, abscess, gas gangrene.

## CO-MORBIDITIES

Diabetes, malnutrition, peripheral arterial disease.

## TREATMENT

Urgent incision and drainage of the wound with partial resection of the calcaneus. Patient had an angioplasty of the superficial femoral artery by vascular surgery. Secondary wound debridement with injection of CERAMENT® G with Gentamicin via the Silo Technique. The Achilles tendon insertion was additionally repaired and the wound was managed with an acellular dermis graft (DermaPure) with a wound VAC.

## CULTURE

Culture from the initial incision and drainage showed Group B Streptococcus, MRSA, and multiple anaerobic and aerobic bacteria.

## SYSTEMIC ANTIBIOTICS

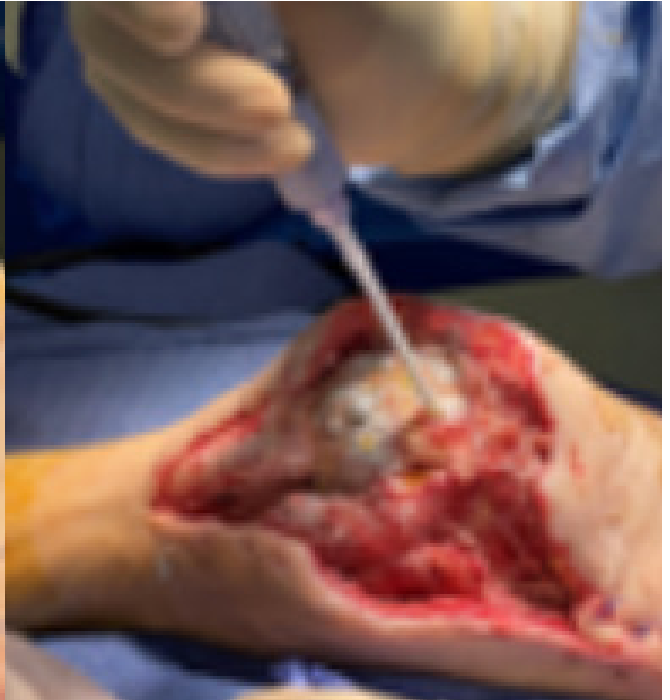
Daptomycin and Unasyn.

## OUTCOME

Final post-operative image showed no evidence of osteomyelitis with the resorption of CERAMENT G and bone remodeling into the drill holes from the Silo Technique. The patient was discharged to a rehab facility.



Pre-op: A large, malodorous ulcer with a palpable abscess was noted on the right heel with evidence of osteomyelitis on xray and MRI.



Silo type tunnels were drilled into the calcaneus and filled with CERAMENT G.



2 days post-op, Dermis graft is stable, viable.



16 days post-op. Granular tissue is already noted to be coming through the dermis graft.



Final post-op x-rays were obtained with resorption of CERAMENT G and no evidence of further osteomyelitis (no periostitis or bone erosions).

## Advancing Osteomyelitis Management

- Bone remodeling to promote and protect bone healing<sup>1</sup>
- Local antibiotic elution that is safe, consistent and clinically significant<sup>2</sup>



1. Ferguson et al. 'Radiographic and Histological Analysis of a Synthetic Bone Graft Substitute Eluting Gentamicin in the Treatment of Chronic Osteomyelitis'. J. Bone Joint Infect. 2019; 4(2): 76-84.

2. 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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