

CERAMENT® G
with Gentamicin

CASE REPORT

Medical Education Series

Management of Calcaneal Osteomyelitis with CERAMENT G and the Silo Technique

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PATIENT HISTORY

39 year old male patient was initially treated for left leg cellulitis. He has a background of Hypertension, Type 2 diabetes mellitus, Peripheral Neuropathy, current everyday smoker. He had been receiving outpatient treatment and antibiotic therapy for an ulcer at the plantar aspect of his left Hallux.

PRESENTATION

One week prior to presenting to the Emergency Department, he reported a dog stepped on the lateral aspect of his left foot resulting in an open lesion. On exam, there was blanchable erythema extending from the lateral forefoot to approximately the mid-calf with two hemorrhagic bulla over the lateral hindfoot and fluctuance of skin. Patient admitted to hospital and started on IV antibiotics.

DIAGNOSIS

Wet gangrene left lower extremity with osteomyelitis of left calcaneus.

TREATMENT

Debridement of dead bone and local delivery of CERAMENT G in drilled tunnels, using the Silo Technique, along with IV antibiotics and local wound care.

CULTURE

Group B Strep.

SYSTEMIC ABX

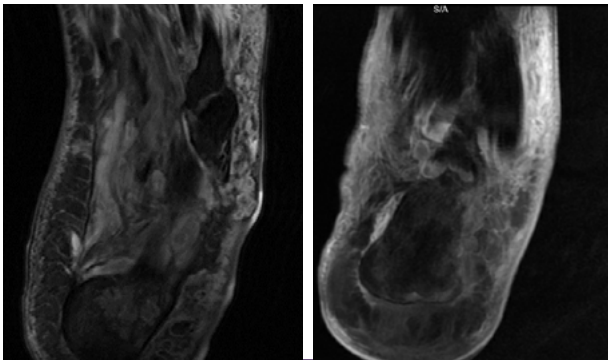
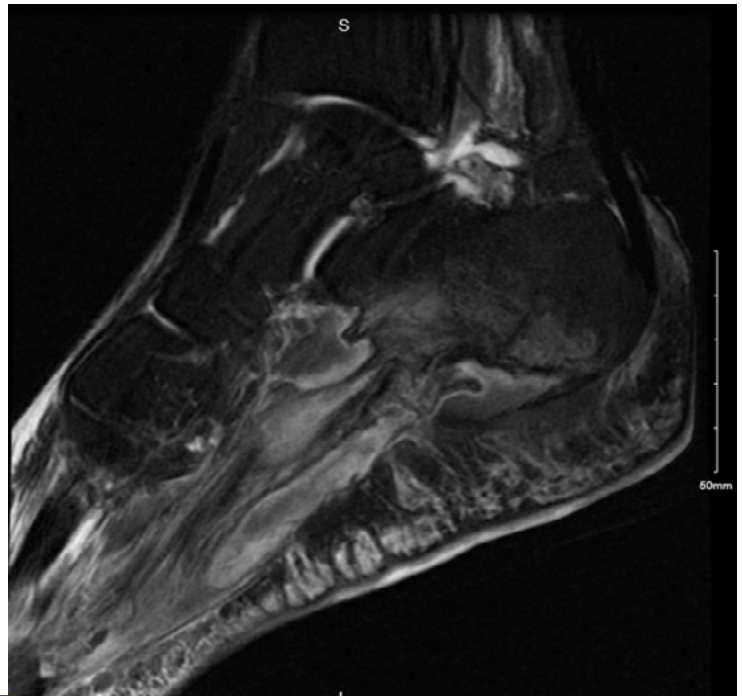
Vancomycin and Piperacillin/tazobactam -> Cefepime -> Ceftriaxone for 6 weeks.

OUTCOME

Patient has no signs of residual osteomyelitis of the calcaneus at 10 weeks. Patient's ulcerations are healed, and he is ambulating without assistance in a tennis shoe.



Pre-op clinical images



Pre-op: Radiologist MRI read: irregular serpiginous region of signal abnormality in the posterior plantar calcaneus, most consistent with osteonecrosis but cannot rule out osteomyelitis.



Intra-op: Silo drilling technique of the calcaneus for the injection of CERAMENT G for the management of osteomyelitis.



Post-op: Lateral Radiograph at 10 weeks post-op.



Post-op: Calcaneal Axial Radiograph at 10 weeks post-op.

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

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