

CERAMENT® G

with Gentamicin

CASE REPORT

Medical Education Series

Chronic Osteomyelitis

JON CARLSON, MD

*University of Louisville
Louisville, Kentucky*



CHRONIC OSTEOMYELITIS

PATIENT HISTORY

A 24 year old male sustained an open distal tibia fracture as a result of a motorcycle accident. Patient is a recovering opiate addict and a smoker. The patient suffered a fall four weeks post-surgery which resulted in a draining wound and loss of reduction with dislocation of the fracture.

DIAGNOSIS

Chronic osteomyelitis

SYSTEMIC ANTIBIOTICS USED

Pre-Op: Bactrim DS

Post-Op: 6 weeks IV Vancomycin

TREATMENT

1st Surgery

Irrigation and debridement with insertion of intramedullary nail.

2nd Surgery

Four weeks post first surgery, patient suffered a fall resulting in draining wound medially, the loss of reduction and dislocation of the fracture. Culture was negative for bacteria.

- Debridement of purulent material
- Reaming of the canal
- Mobilization of fracture
- Additional fixation with exchange nailing and additional plate
- Filling of bony defect and augmentation of hardware by injecting void with of 5mL of CERAMENT® G
- Primary closure of wound

OUTCOME

At seven months, the patient is doing well with stable fixation, good use of leg, and appropriate resolution of infection.



1st surgery pre-op: Open distal tibia fracture.



1st surgery intra-op: Irrigation, debridement and placement of intramedullary nail.



1st surgery post-op.



2nd surgery pre-op. At 4 weeks post first surgery.

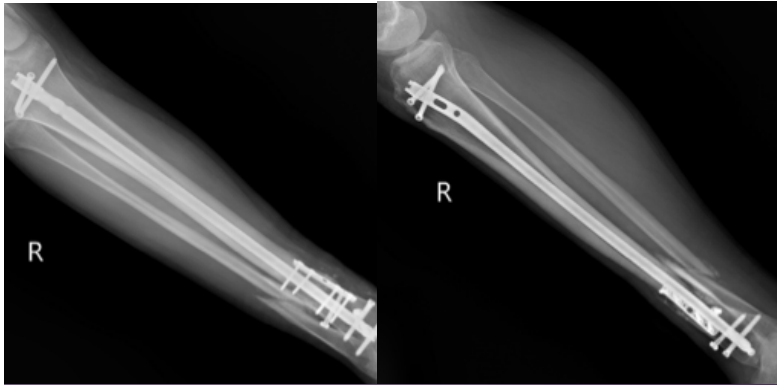


2nd Surgery intra-op: Revision, debridement, reaming of the canal and mobilization of the fracture.

2nd Surgery intra-op: Additional fixation with exchange nailing and additional plate.



5mls of CERAMENT G was injected to fill the bony defect and augmentation of hardware, followed by primary closure of wound.



2 weeks post-op.



4 weeks post-op.

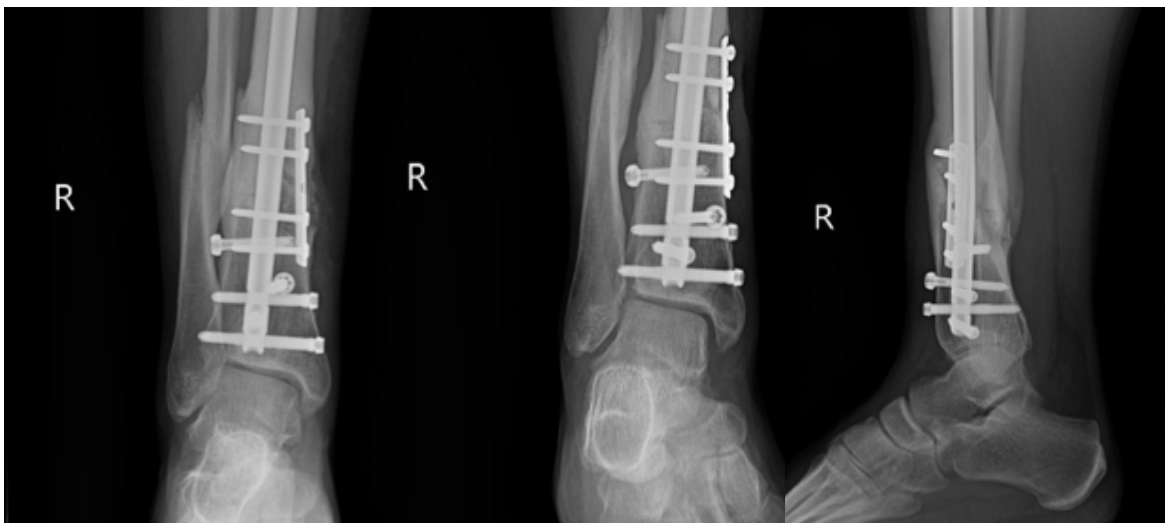


6 weeks post-op: New bone formation is seen with full weight bearing.



10 weeks post-op: Further bone remodeling is seen. Wound healing was uneventful.

Post-op: 4½ months.



Final follow up: At 7 months the patient continues to do well with no recurrence of infection.



Final follow up.

Advancing Osteomyelitis Management

- Bone remodeling to protect and promote 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.,
60 William St, Suite 330
Wellesley, MA 02481

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

