

CERAMENT® G
with Gentamicin

CASE REPORT

Medical Education Series

Chronic Osteomyelitis - Tibia

Dr. Scott Sandilands, DO
*HCA Florida Kendall Hospital
Level 1 Trauma Center
Miami, Florida*



CHRONIC OSTEOMYELITIS - TIBIA

PATIENT HISTORY

A 22 year old male presented with a long standing history of chronic osteomyelitis of his right tibia. He previously had an open fracture which was managed in Cuba, and was initially treated with an external fixator and then converted to plate and screws for definitive fixation and the fracture healed. He then underwent removal of hardware due to a recurrent infection and was treated with antibiotics at that time. He presented to our unit years later with symptoms of chronic osteomyelitis.

DIAGNOSIS

Chronic osteomyelitis of the right tibia.

TREATMENT

Patient presented to our unit with pain in his right tibia and a draining sinus from his soft tissues. He was managed initially with an irrigation and debridement of his right tibia osteomyelitis, including his intramedullary canal, and excision of his sinus tract. The samples were sent for culture and pathology. The following week, he underwent a second irrigation and debridement of the right tibia including intramedullary reaming and then CERAMENT® G was injected with the 2-Can delivery system.

CULTURE

Methicillin-resistant Staphylococcus aureus (MRSA).

SYSTEMIC ANTIBIOTICS

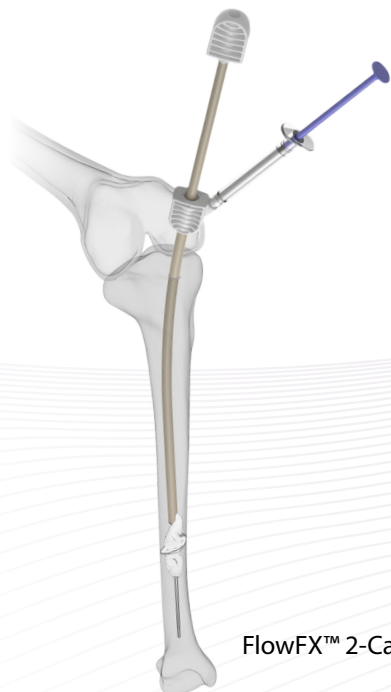
6 weeks of IV ABX Vancomycin.

OUTCOME

6 months post-operatively, he is fully weight bearing and no signs of infection recurrence. In the post-operative xrays signs of remodelling can be seen in the previous defects.

ADDITIONAL DELIVERY DEVICES

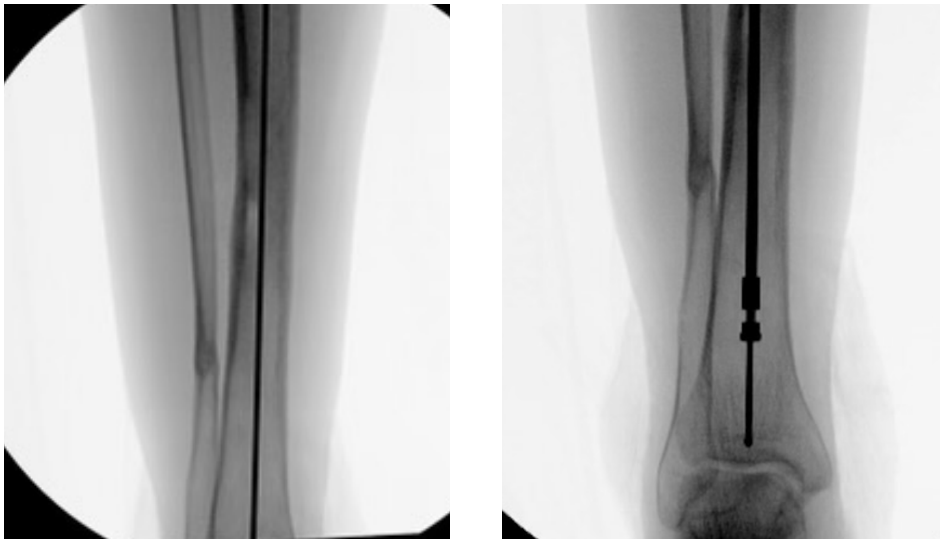
FlowFX™ 2-Can



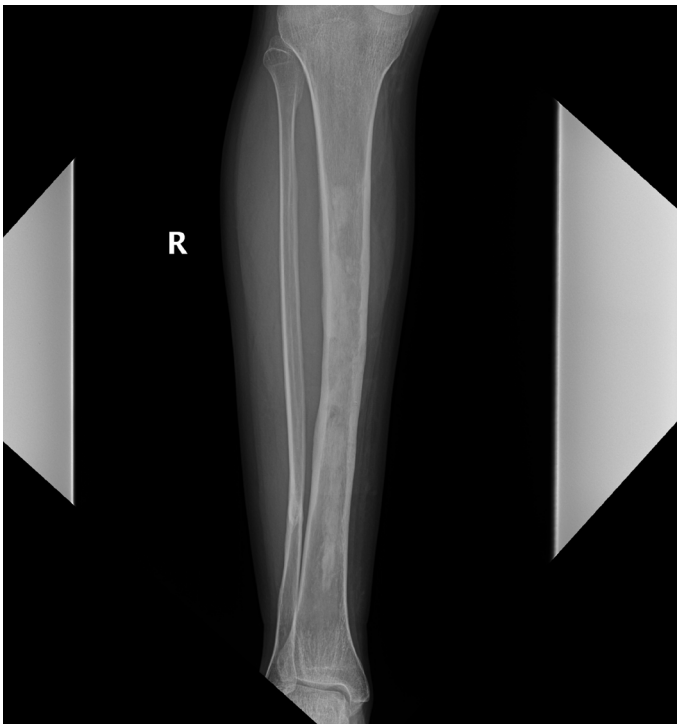
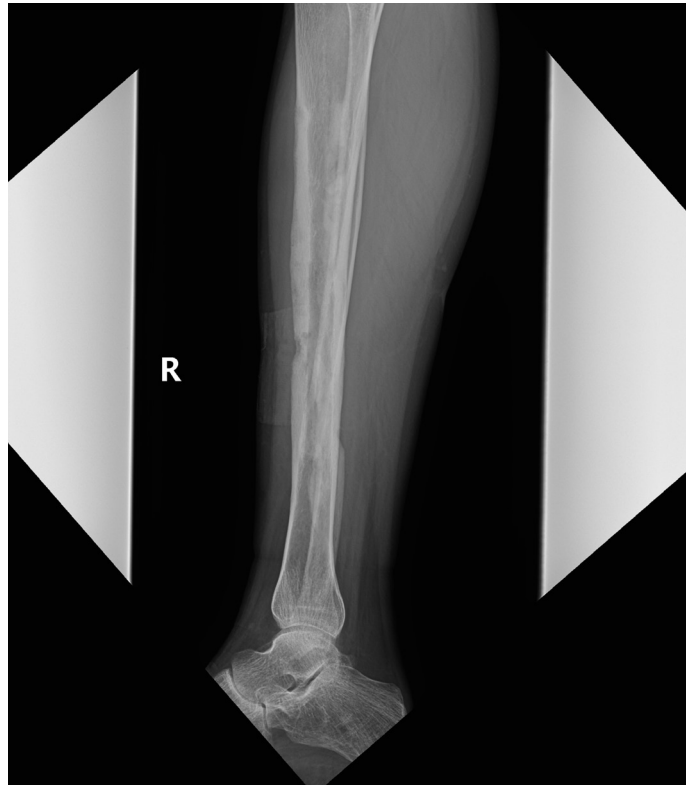
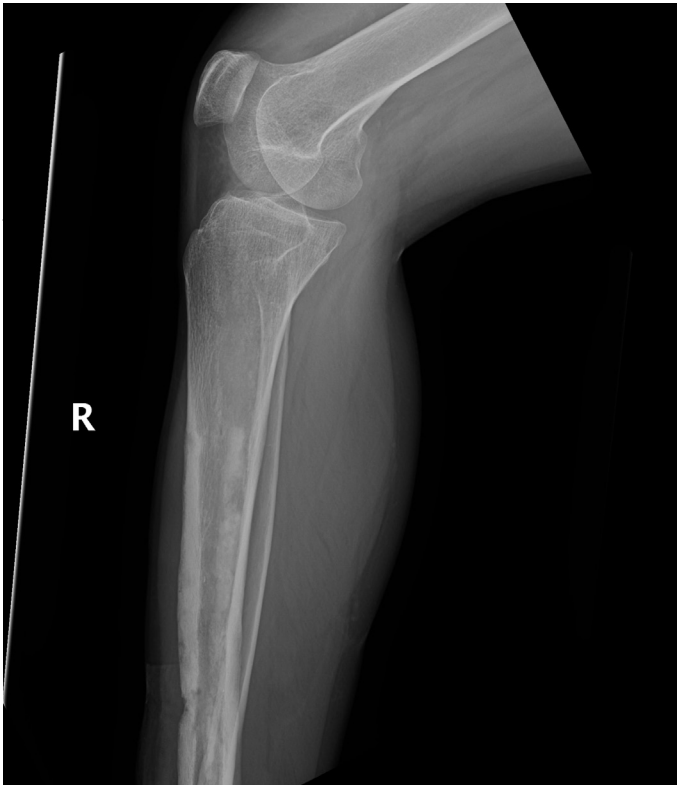
FlowFX™ 2-Can illustration in tibia.



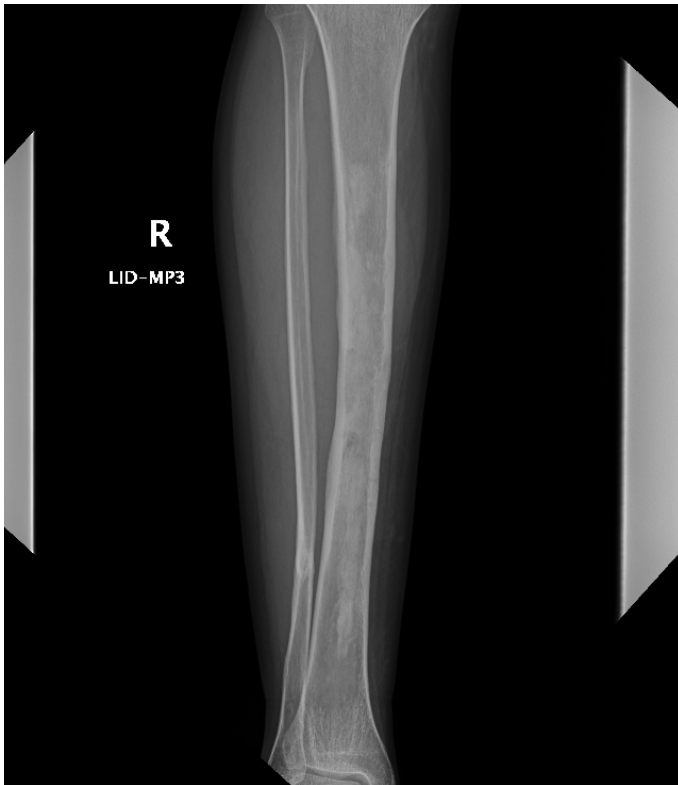
Pre-op images: images demonstrating chronic osteomyelitis changes with sclerosis of the bone.



Intra-op images: guide wire, 2-Can, and then images with CERAMENT G, highlighting the ability to see CERAMENT G under fluroscopy.



2 weeks post-op shows evidence of CERAMENT G throughout the canal within the previous area of infection.



6 month post-op evidence of bone remodeling with improvement of anterior cortical defect and resorption of CERAMENT G.

Advancing Osteomyelitis Management

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



¹ Stravinskias 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



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