

Medical Education Series

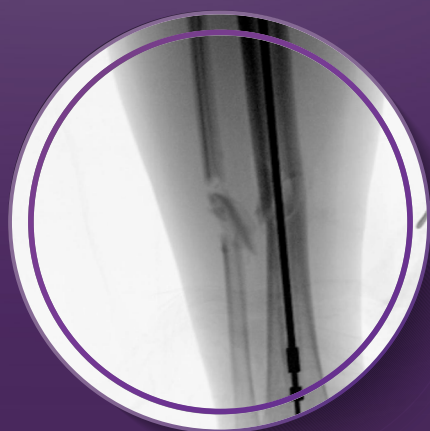
Open Fracture - Tibia

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OPEN FRACTURE - TIBIA

PATIENT HISTORY

A 36 year old female with no past medical history presented with a Gustilo-Anderson Grade IIIA open segmental fracture of the tibia after a motor vehicle accident.

DIAGNOSIS

Gustilo-Anderson Grade IIIA open segmental fracture of the tibia.

TREATMENT

Upon presentation to the emergency department, the patient was given IV antibiotics per the open fracture protocol.

Prior to any surgical fixation, the patient underwent irrigation and debridement. In standard fashion, the nail start point, opening reaming, and passing of the ball-tip guidewire across the fracture site was performed. With the Flow-FX™ 2-CAN™ over the ball-tipped guidewire, 10cc of CERAMENT® G with Gentamicin was injected throughout the canal. After injection, the Flow-FX 2-CAN was removed, and the intramedullary nail was inserted over the guidewire followed by the associated interlocking screws. The wound was closed with 2-0 nylon in a horizontal mattress fashion uneventfully.

HARDWARE

- Intramedullary nail with associated locking screws.

SYSTEMIC ANTIBIOTICS

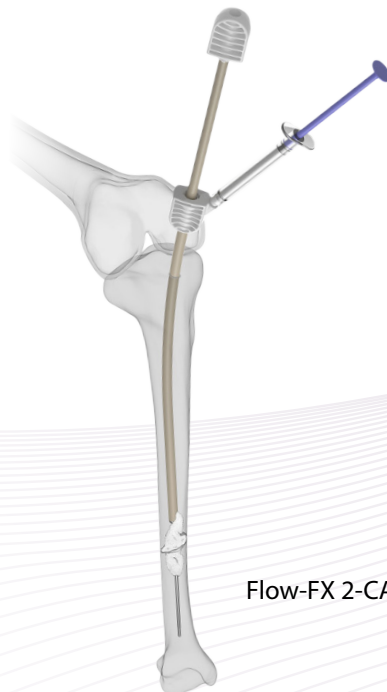
- Rocephin and Flagyl IV for 72 hours post op.

OUTCOME

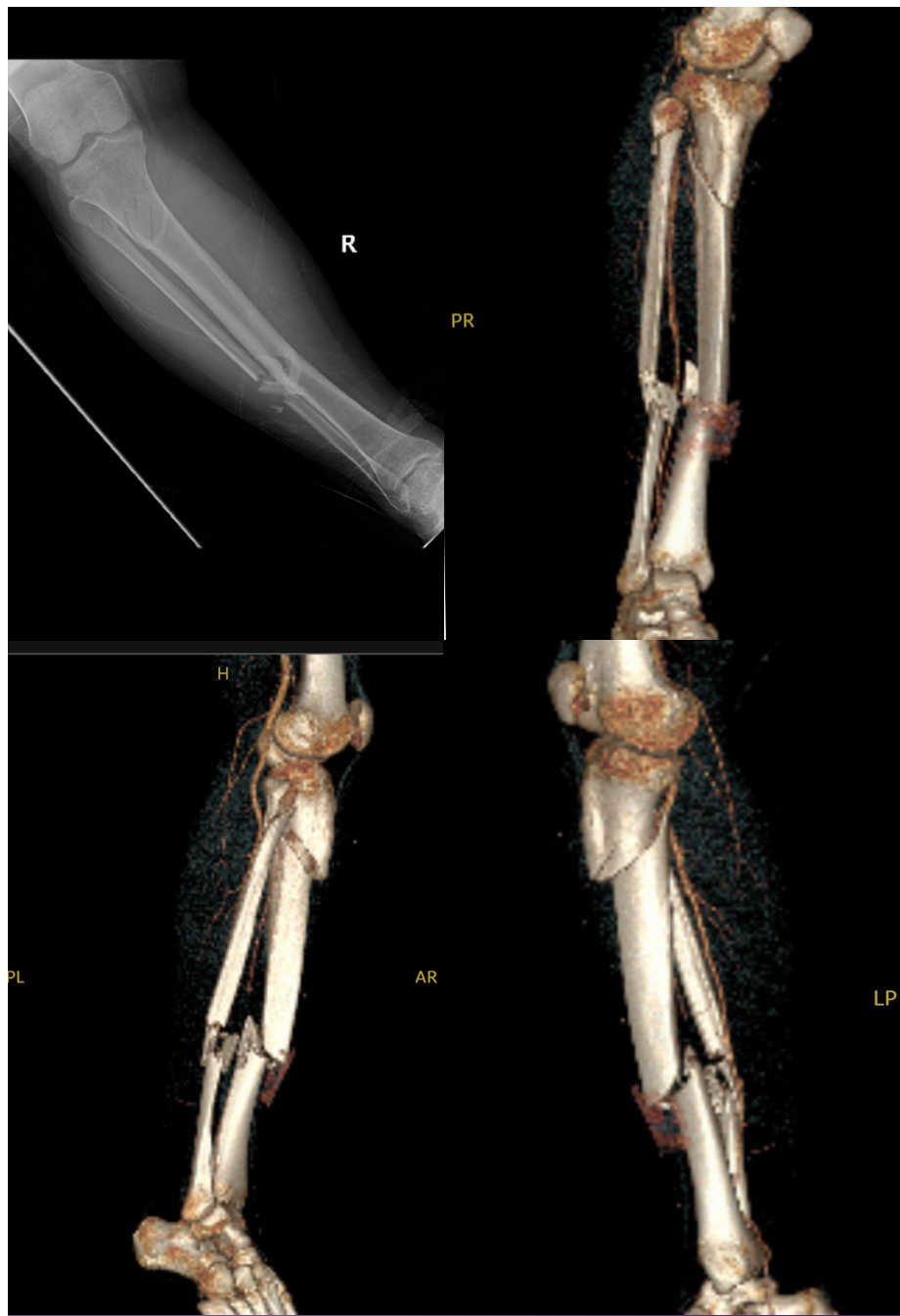
At 6 month follow-up, patient is weightbearing as tolerated with a healed fracture, and returned to previous activities.

ADDITIONAL DELIVERY DEVICE

Flow-FX™ 2-CAN™



Flow-FX 2-CAN illustration in tibia.



Pre-operative imaging demonstrating Gustilo-Anderson Grade IIIA open segmental fracture of the tibia.



Intra-operative fluoroscopic imaging demonstrating injection of CERAMENT G via the Flow-FX 2-CAN and internal fixation of the tibia.



4-week post-operative images following injection of CERAMENT G and intramedullary nail placement. Demonstrating maintained alignment of the tibial shaft fracture and early signs of healing.



6-month post-operative images following injection of CERAMENT G and intramedullary nail placement. Demonstrating continued signs of fracture healing.

Advancing Osteomyelitis Management

- Bone remodeling to promote and protect bone healing¹
- Local antibiotic elution that is safe, consistent and clinically significant²



Availability of CERAMENT® is dependent on regulatory status in individual markets, contact your local representative. For complete product information, including indications, contraindications, warnings, precautions, and potential adverse events, see package insert.

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;4:76-84.

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

TO ORDER

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