

Medical Education Series

Open Fracture - Tibia

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OPEN FRACTURE - TIBIA

PATIENT HISTORY

A 57 year old male, experienced a crush injury to his left lower extremity.

DIAGNOSIS

Gustilo-Anderson Grade 3A open tibia and fibula fracture.

TREATMENT

Patient treated with irrigation and debridement of open fracture and fitted with an external fixation device.

3 days later, the patient returned for definitive fixation. The external fixator was removed and an intramedullary nail was used in the tibia along with the injection of CERAMENT G with Gentamicin via the Flow-FX™ 2-CAN®. The 2-CAN allows for easier access to the fracture site.

CO-MORBIDITIES

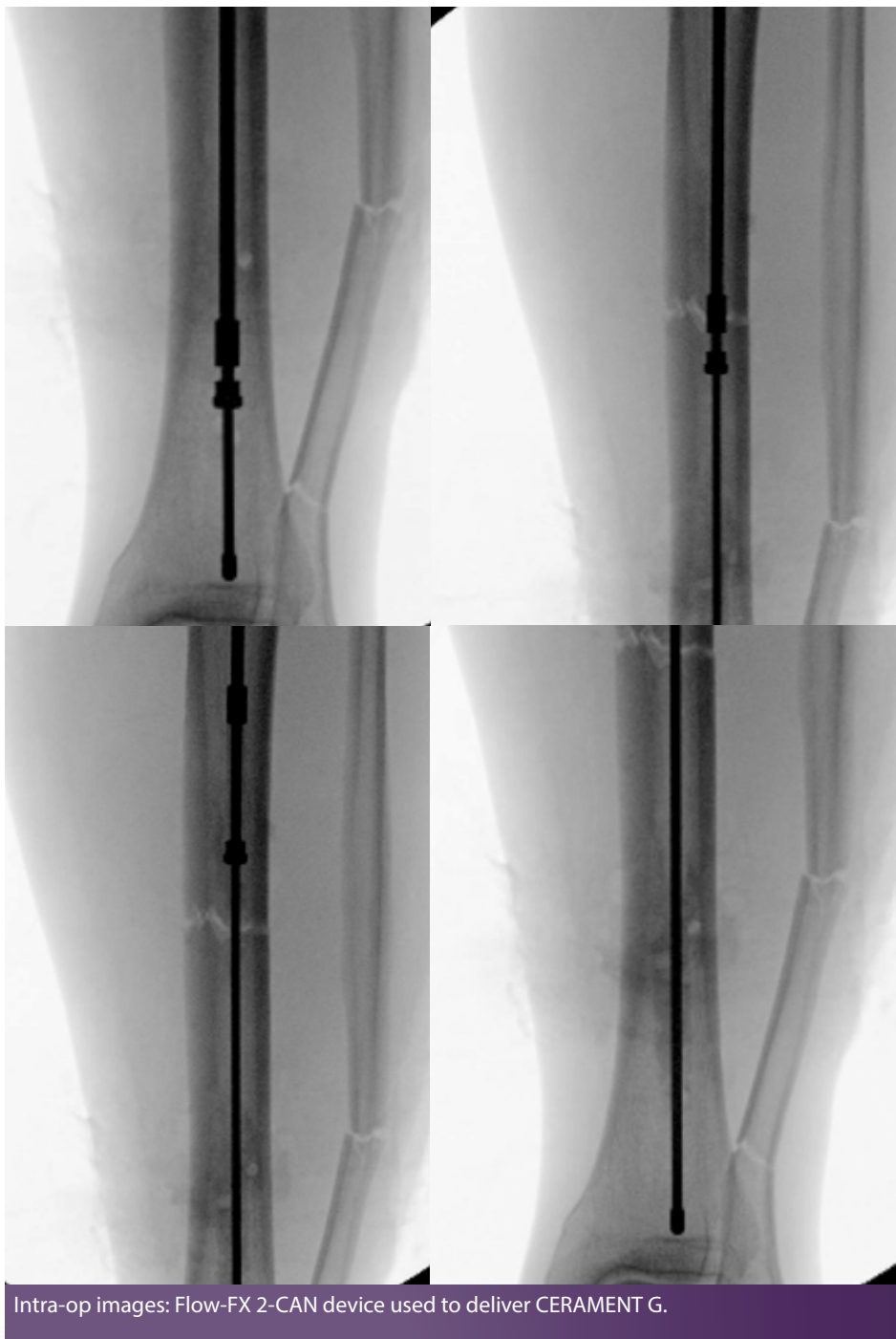
- Hypertension
- Obesity
- Coronary artery disease

OUTCOME

Patient fully weight bearing with intramedullary nail in-situ, there has been no further surgeries.



Pre-op images



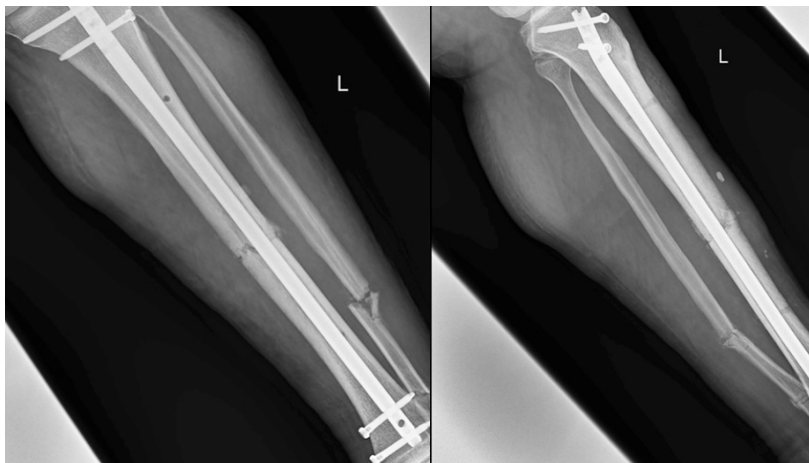
Intra-op images: Flow-FX 2-CAN device used to deliver CERAMENT G.



Final intra-op images: Definitive fixation using an intramedullary nail.



2 week follow-up post-op.



6 week follow-up post-op.



3 month follow-up post-op.

Advancing Osteomyelitis Management

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

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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