

### CASE REPORT

**Medical Education Series** 

# Fracture Related Infection and Delayed Union in a Distal Tibia

**DR. SPRANGER** *Germany* 





# **CERAMENT** G with Gentamicin

#### Fracture Related Infection and Delayed Union in a Distal Tibia

#### DIAGNOSIS

## 77 year old with hypertension & hypothyroidism

Following a distal tibia & fibula fracture (Fig. 1), treated by plating (Fig. 2), the patient returned to hospital with wound dehiscence. Migration of the distal-most screw of the fibula plate was visible on X-ray (Fig. 3), so the fibula plate was removed (Fig. 4). Staph. aureus & Staph. Epidermidis were identified, & the patient was treated with IV flucloxacillin, oral co-trimoxazole & oral clindamycin.

4 months later, the tibial plate broke, with incomplete fracture healing & malalignmentof the distal tibia evident on X-ray (Fig. 5).

#### TREATMENT

Resection of the pseudoarthrosis, fibular osteotomy, limb realignment and re-plating using a medial plate osteosynthesis (ALPS). CERAMENT G was injected in the resulting bone defect of the tibia to address the locally reduced bone stock and protect bone healing (Fig. 6).

Sampling was undertaken during surgery, and 2 of 3 samples revealed Cutibacterium acnes. Antibiotic therapy was started: penicillin G i.v. for 5 days and oral rifampicin and amoxicillin for 6 weeks.

#### OUTCOME

One year later, the patient is infection-free, weight bearing without pain and the X-ray demonstrates good bone remodeling with a well-aligned limb (Fig. 7)





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** 



PR 01233-02 en AU CA EU ROW US 07-2022