

CASE 3

**SEPTIC
NON-UNION IN
DIAPHYSEAL TIBIA**

Courtesy of BG Unfallklinik Duisburg,
Germany

DIAPHYSEAL TIBIA (CASE 3)

- **Patient:** 70-year-old male
- **Preoperative status:** Type I° open distal tibial and fibula fracture, diagnosis of tibial osteomyelitis 4 months after injury.
- **Bacterial culture:** *Staphylococcus aureus* and *Streptococcus agalactiae*

DIAPHYSEAL TIBIA (CASE 3)



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4 months post-op after injury

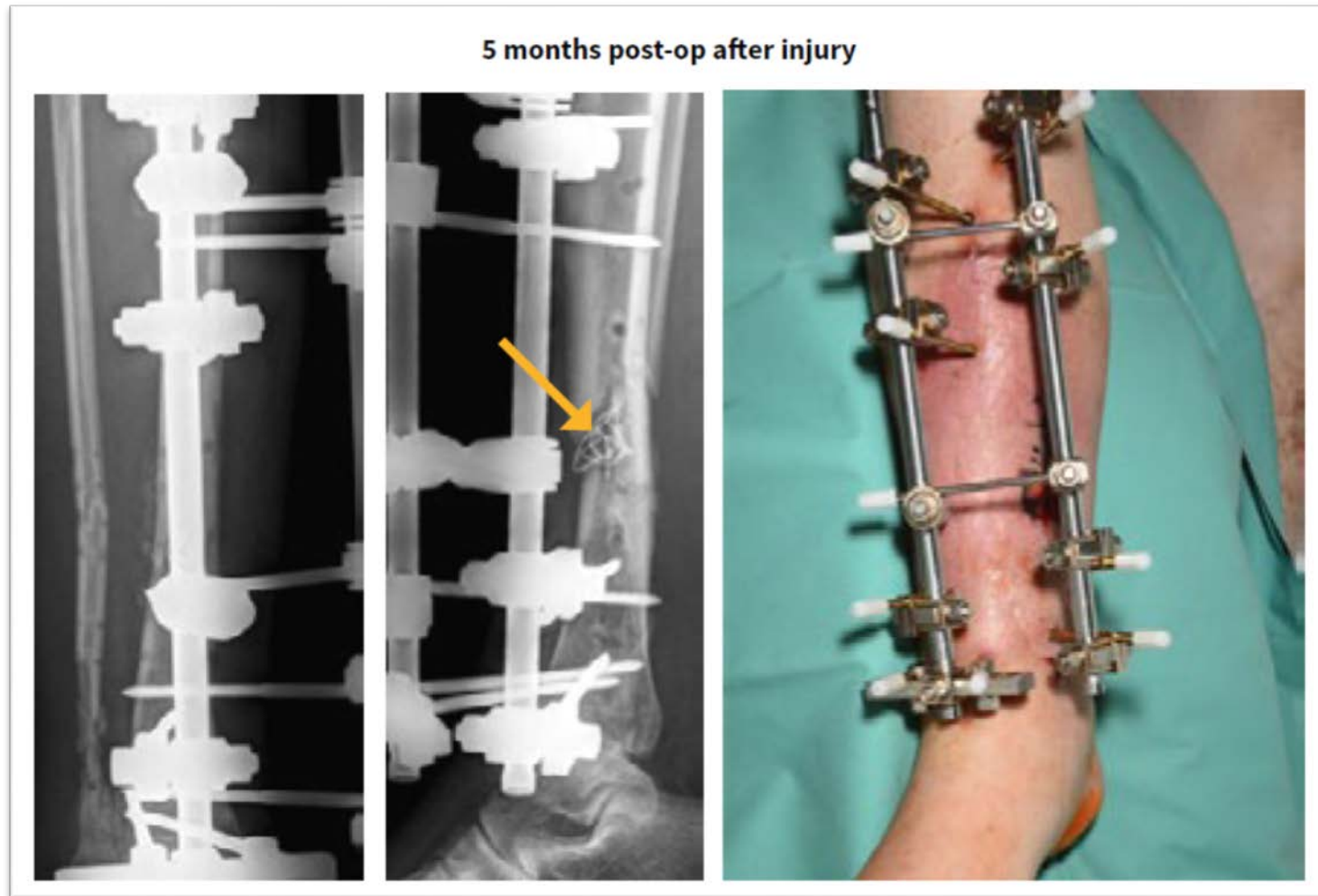
Diagnosis of tibial osteomyelitis



Problem with soft tissue

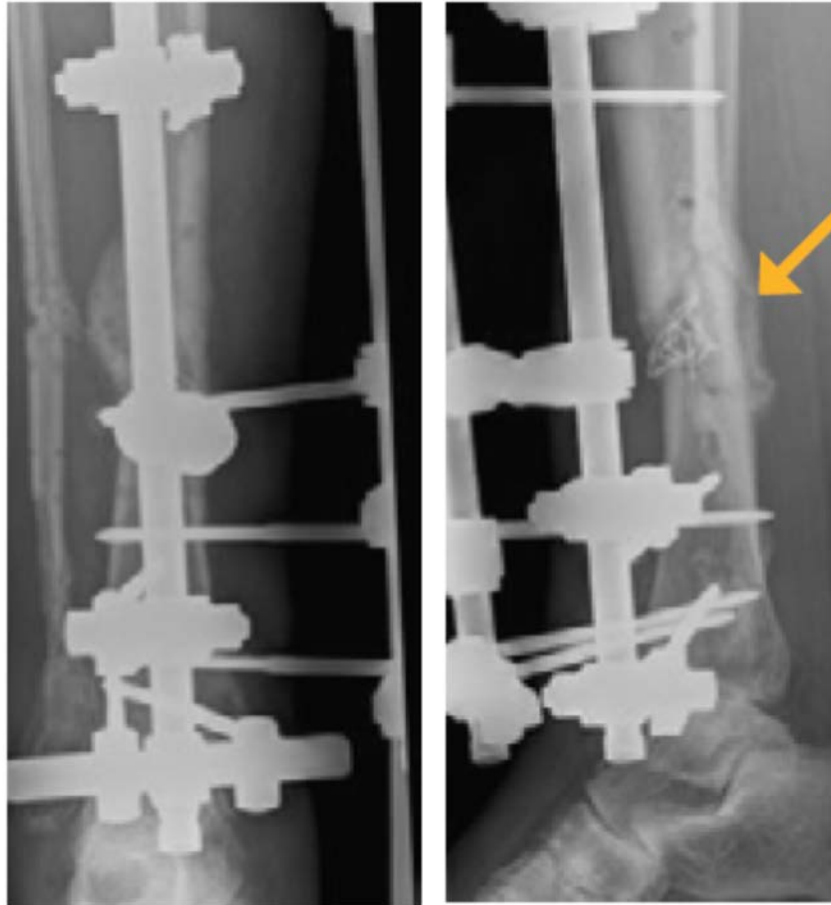


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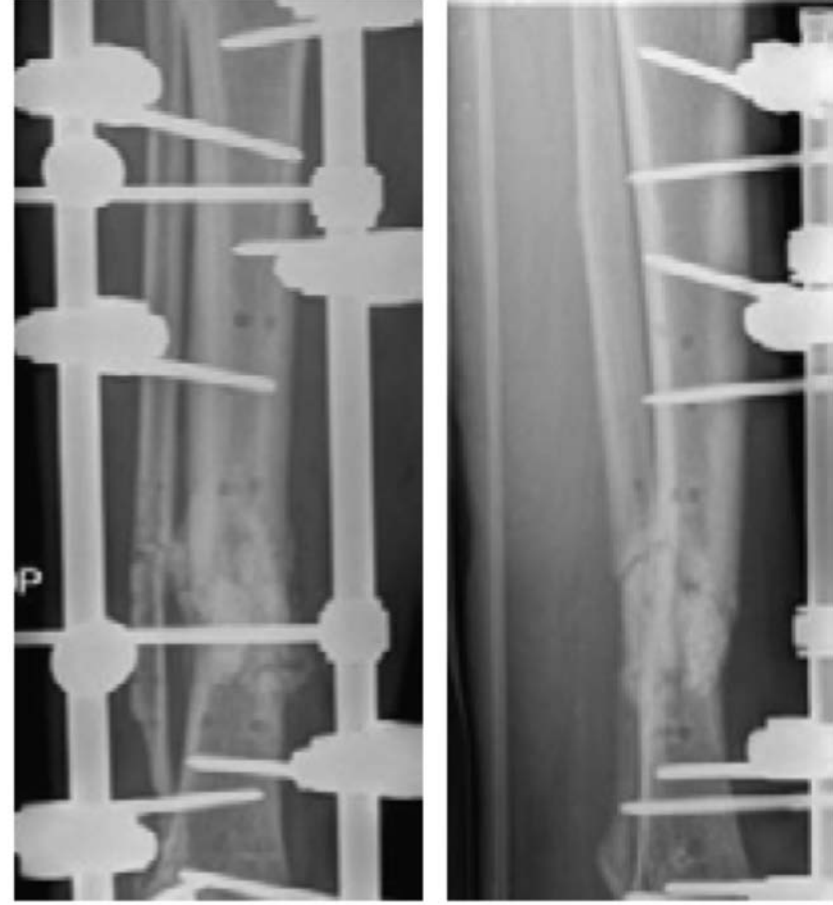


DIAPHYSEAL TIBIA (CASE 3)

Multiple revisions, persistence of bacteria

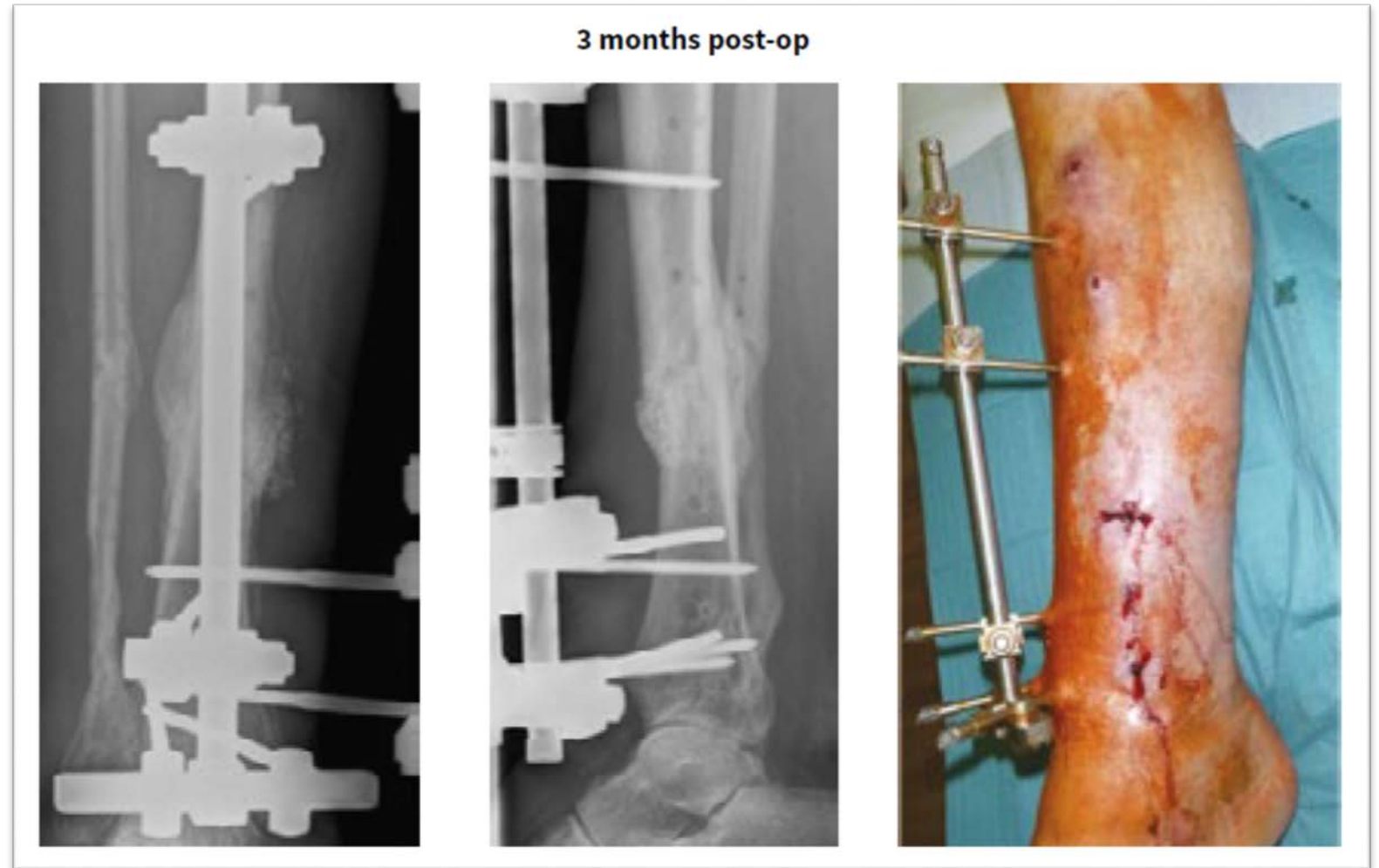


Implantation of 10 cc bioactive glass



DIAPHYSEAL TIBIA (CASE 3)

- **Clinical outcome:**
New bone and callus formation was observed 3 months postoperatively.



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- **Final clinical outcome:**
11 months after treatment with bioactive glass, a full consolidation of the septic nonunion was achieved and the patient was free of infection. The limb was fully load bearing.

