

CASE 7

**SEPTIC
NON-UNION IN
DISTAL TIBIA**

Courtesy of BG Unfallklinik Duisburg,
Germany

DISTAL TIBIA (CASE 7)

- **Patient:** 73-year-old female
- **Preoperative status:** Closed distal tibial fracture with Pilon tibiale affected. The patient had previously received a plate and a Tricalcium phosphate (TCP) bone substitute at another hospital. Diagnosis of tibial osteomyelitis 10 months after injury (only with Histology). Problem with soft tissue.
- **Bacterial culture:** No detection of bacteria

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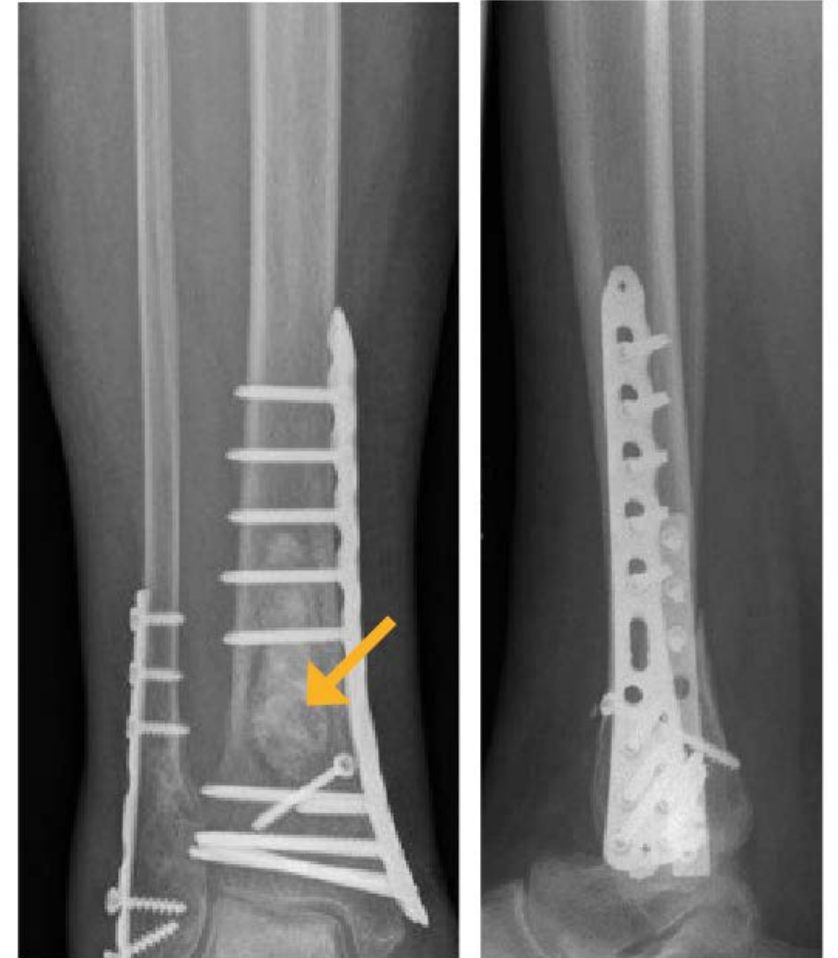


DISTAL TIBIA (CASE 7)

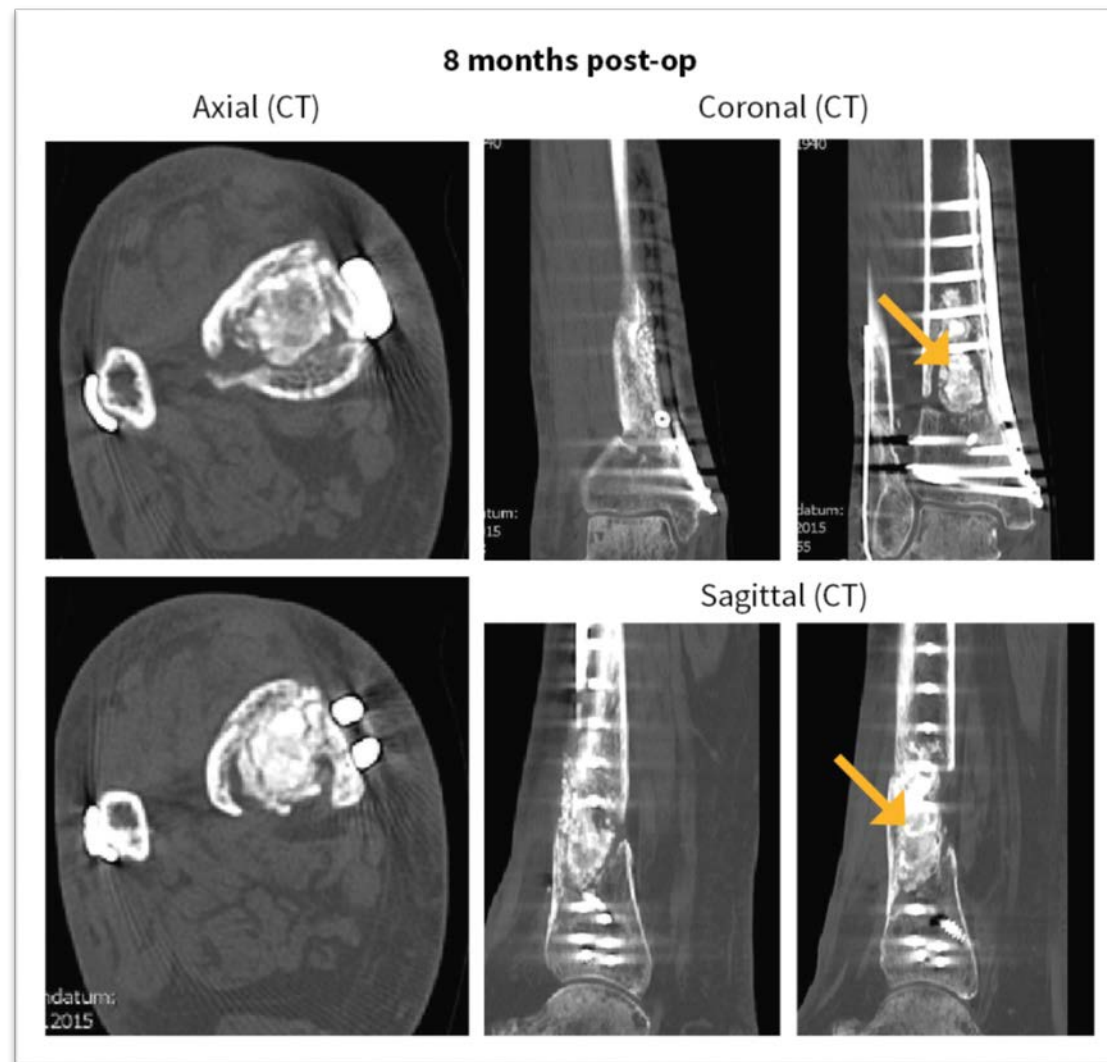
- **Complication:**
Diagnosis of non-union and non-osteointegrated TCP bone substitute clearly visible on CT.

Previously implanted TCP unintegrated in bone.

8 months post-op

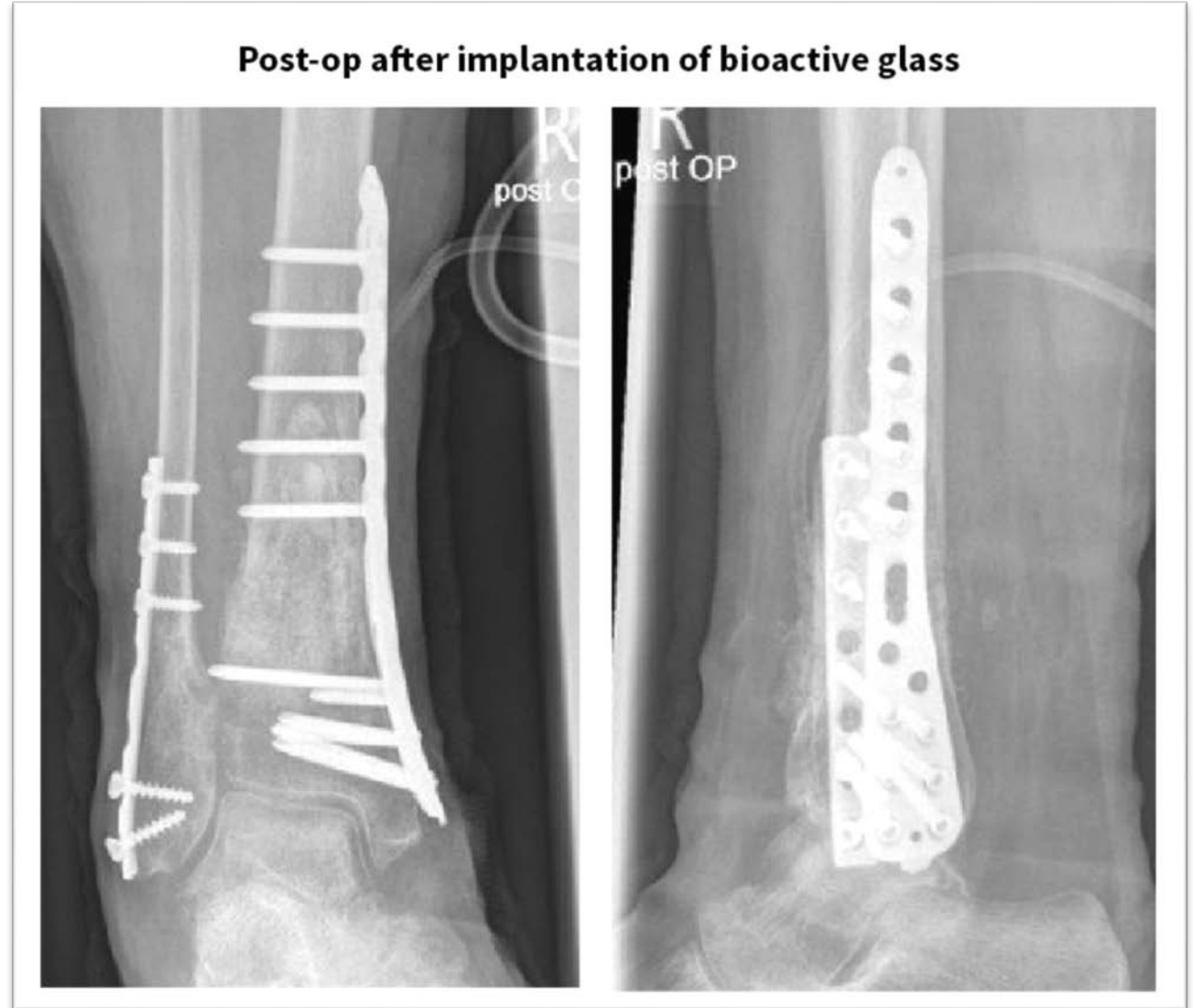


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- **Operation:**
10 months after injury, revision surgery with thorough debridement of the septic focus and implantation 20 cc of bioactive glass.



DISTAL TIBIA (CASE 7)

4 weeks post-op



10 weeks post-op



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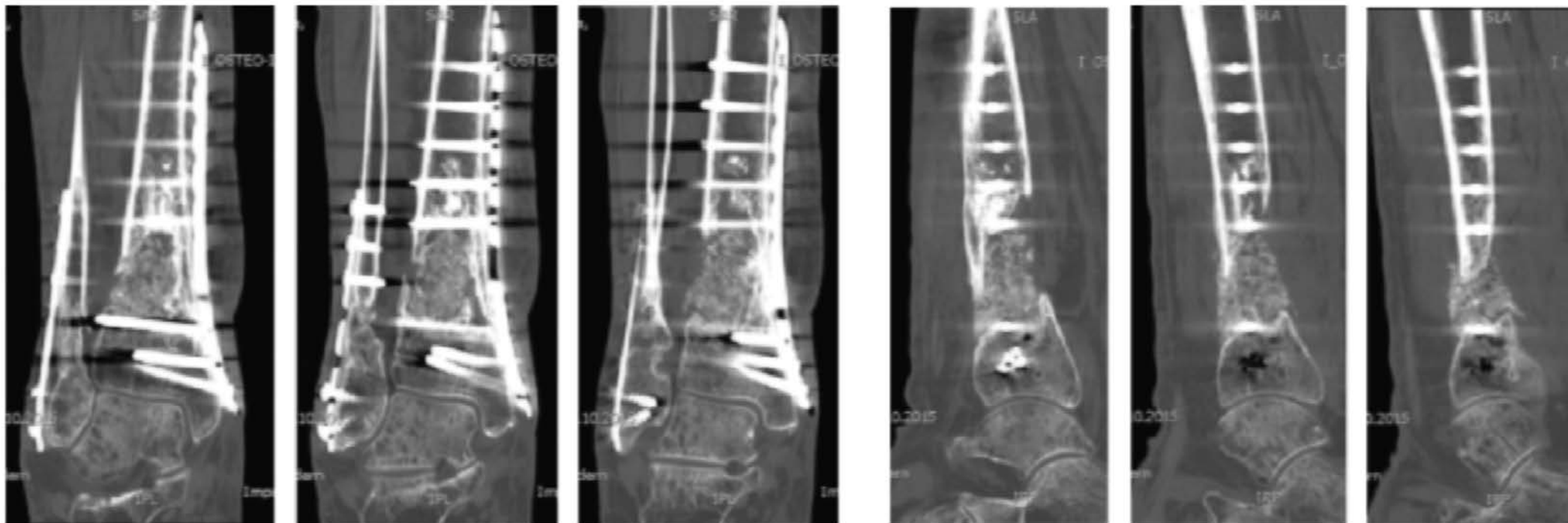
- **Clinical outcome:** Gradual formation of new bone structure after 4 months and complete consolidation visible after 12 months post-op seen with CT.

DISTAL TIBIA (CASE 7)

4 months post-op

Coronal (CT)

Sagittal (CT)



DISTAL TIBIA (CASE 7)

12 months post-op



DISTAL TIBIA (CASE 7)

12 months post-op

Axial (CT)

