



DYNANAIL[®]

NAIL SYSTEM

HOW WOULD YOU TREAT SEVERE HINDFOOT DEFORMITY WITH MULTIPLE COMORBIDITIES?

By Jeffrey Covell, MD

INITIAL PRESENTATION

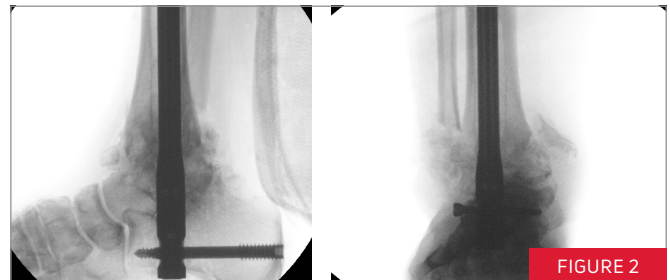
A 71-year-old female presented with end-stage arthritic ankle deformity in varus malalignment and associated chronic medial malleolar fracture. She was treated with bracing and injections, but had difficulty ambulating. As a result, she developed progressive superficial ulceration and significant pain. The patient's history included diabetes, hypertension, previous myocardial infarction, and smoking.



Pre-op radiographs

INTRA-OPERATIVE

A TTC arthrodesis was performed using the DynaNail[®] TTC Fusion System. Allograft, Bone Marrow Aspirate Concentrate (BMAC) and Recombinant Human Platelet-derived Growth Factor BB (rhPDGF-BB) impregnated tricalcium phosphate were applied across the joints. The hindfoot alignment was successfully corrected during surgery, and the maximum amount of NiTiNOL compression (6 mm) was applied through the DynaNail.



Intraoperative radiographs

12 WEEKS POST-SURGERY

Radiographs indicate the DynaNail® maintained compression, aiding in continued bony apposition. The patient began partial weight-bearing at 10 weeks post-surgery, progressing to full weight-bearing in a normal shoe at 14 weeks.

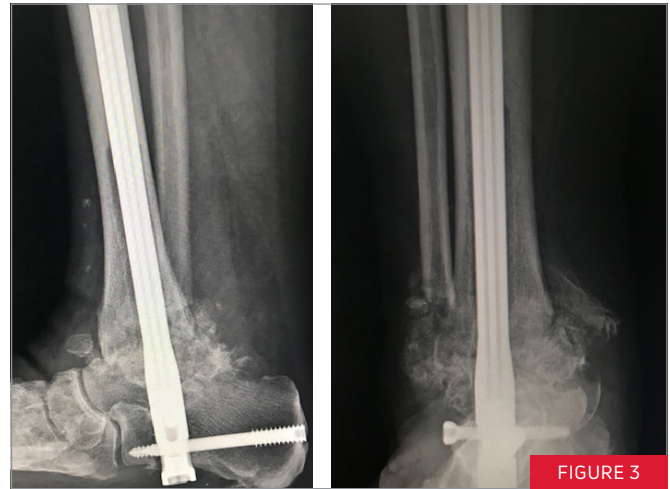


FIGURE 3

Radiographs showing maintained compression at 12 weeks post-op

6 MONTHS POST-SURGERY

CT scans show a stable bridging callus across both fusion sites, confirming fusion.



FIGURE 4

6 months post-op CT scan

6 MONTHS POST-SURGERY

Patient has pain-free independent gait without the use of assistive devices or braces, and continues to be happy at her last follow-up.



FIGURE 5

6 months post-op radiographs showing successful joint fusion



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MK-10185 Rev 2

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