

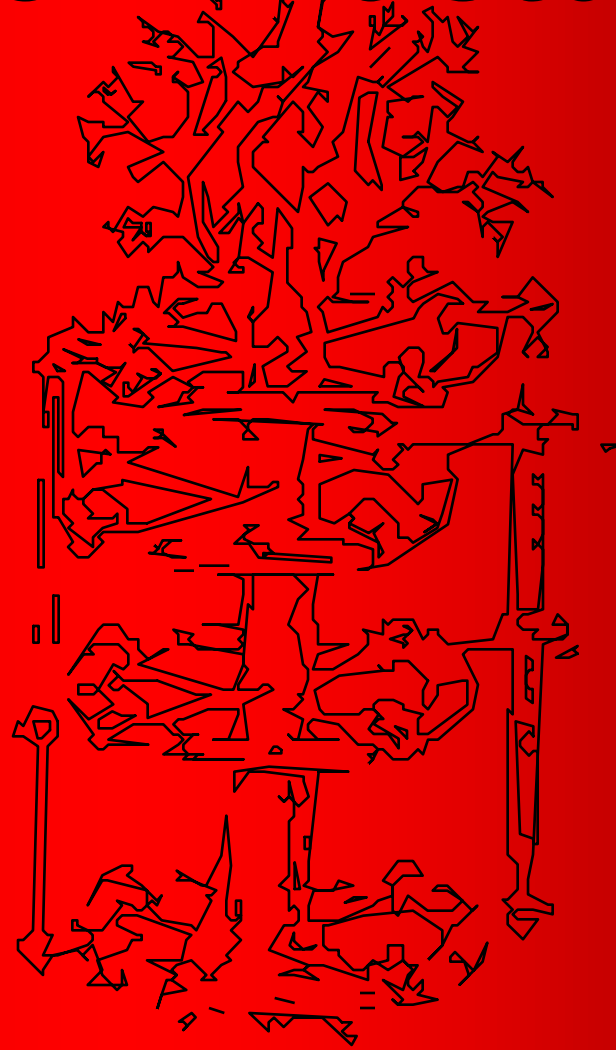
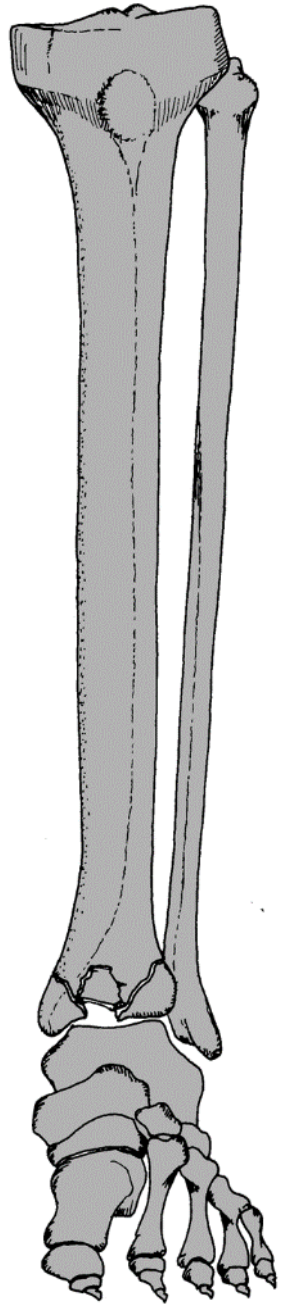
Ankle reconstruction treatment with external fixation system



Daniele Pili
Ilizarov Centre Lecco



Pylon Fractures



Traditional treatment:

- *High risk of nonunion
- *High risk of infection

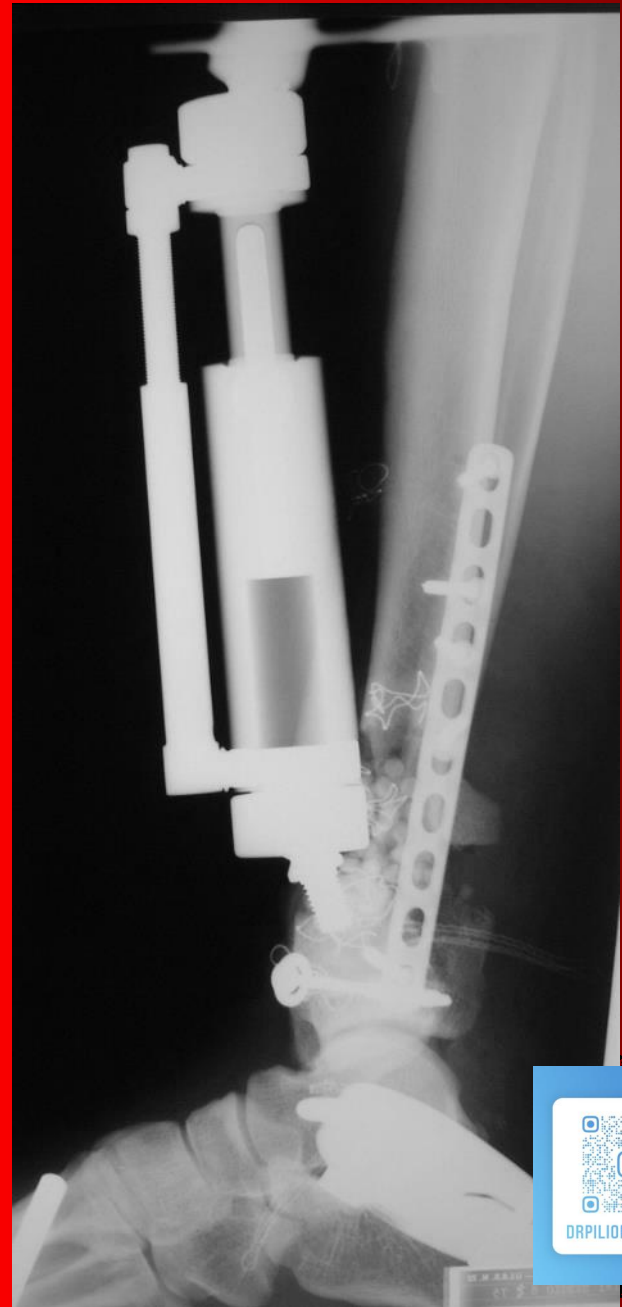


Segmental fracture



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Bone loss, synthetic graft

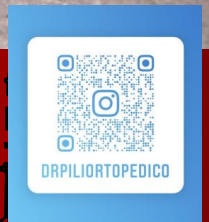


Skin necrosis

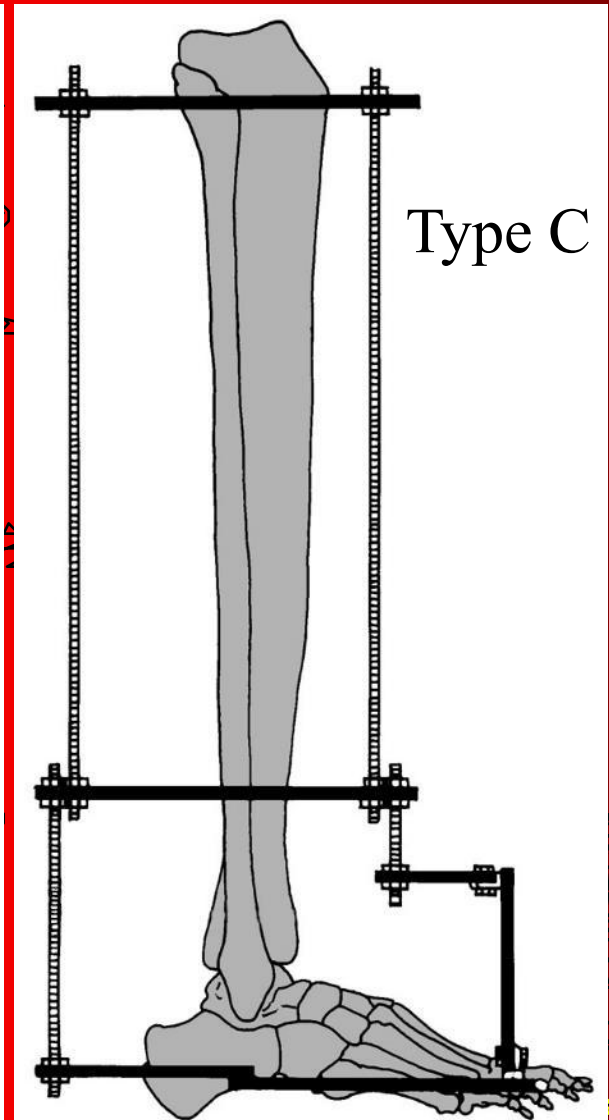
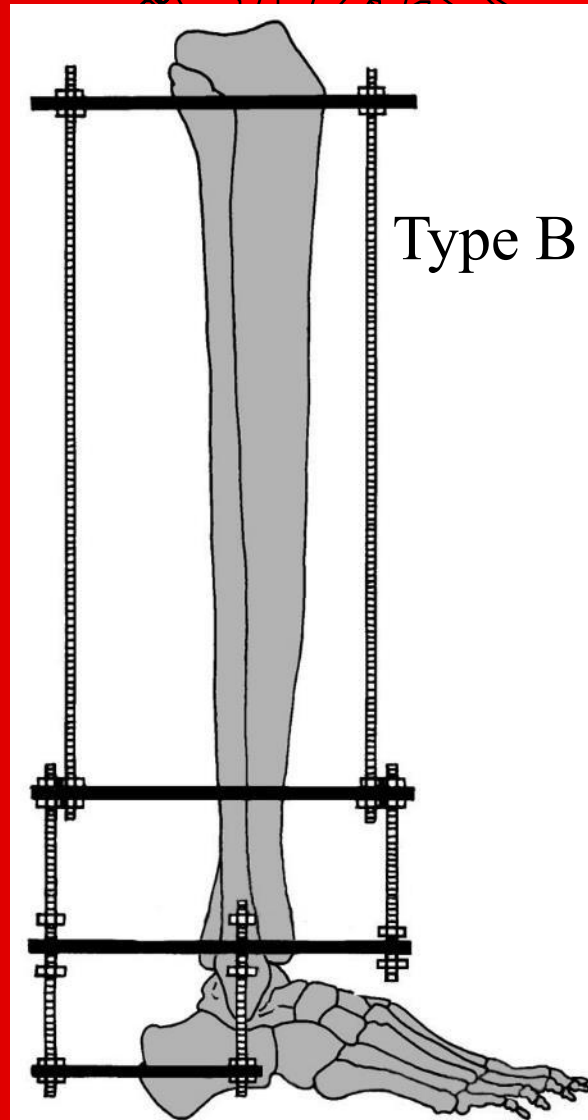
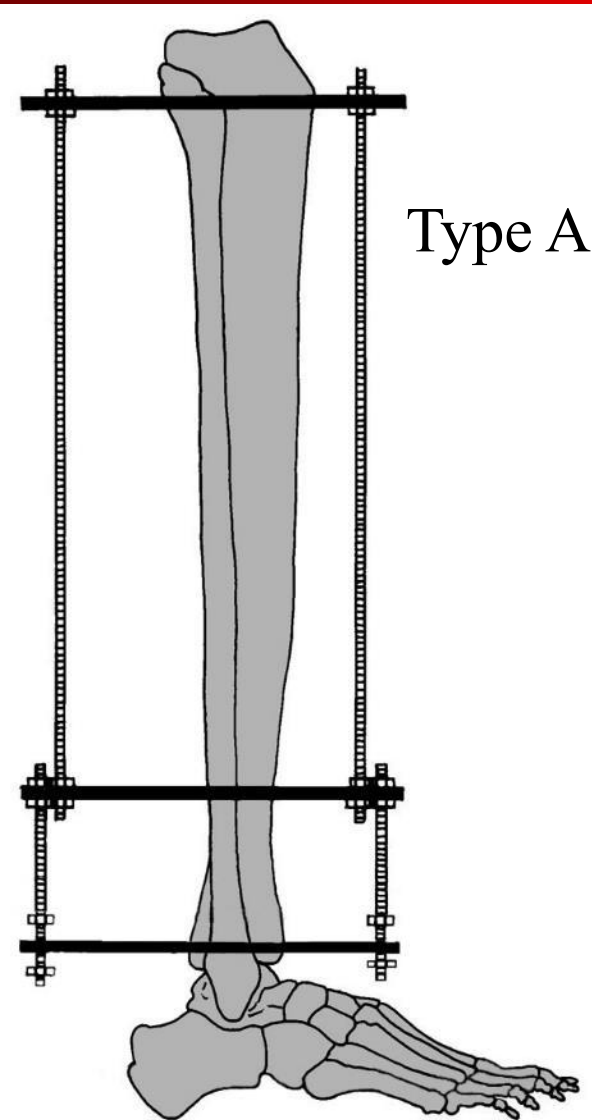


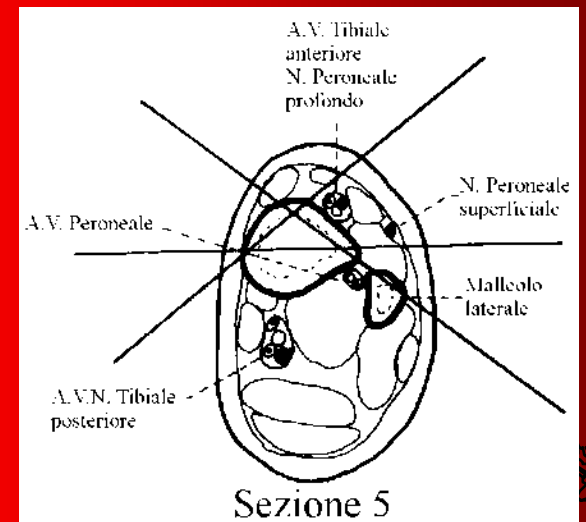
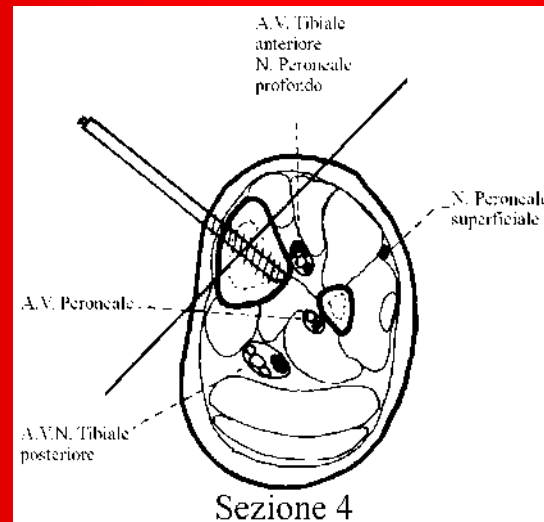
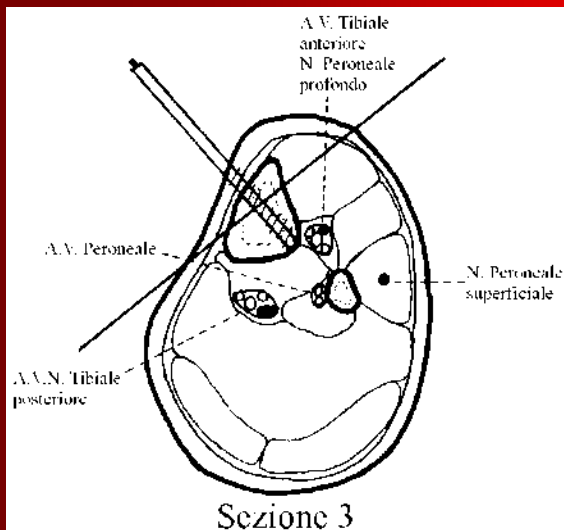
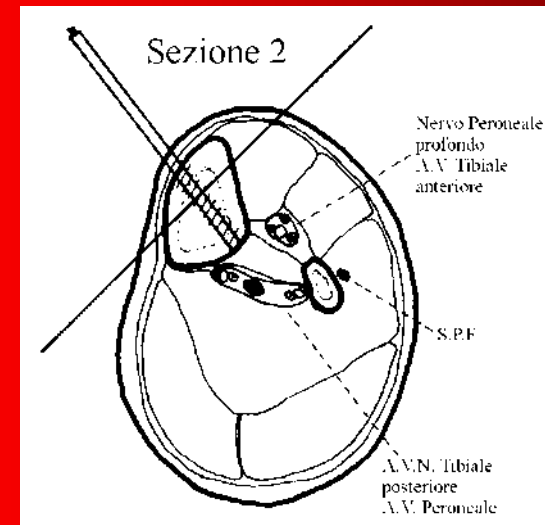
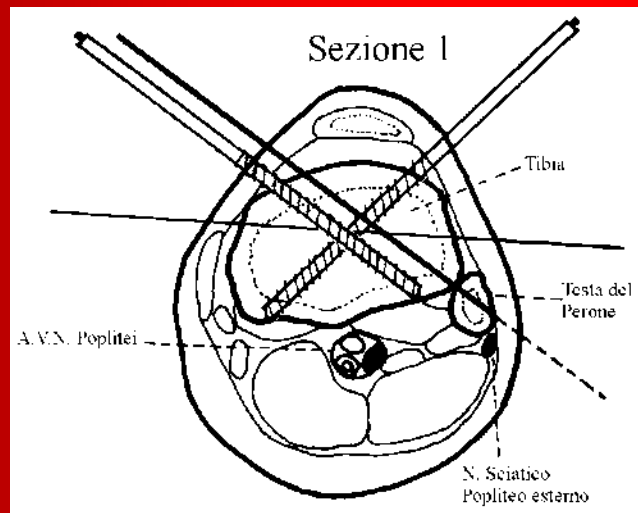
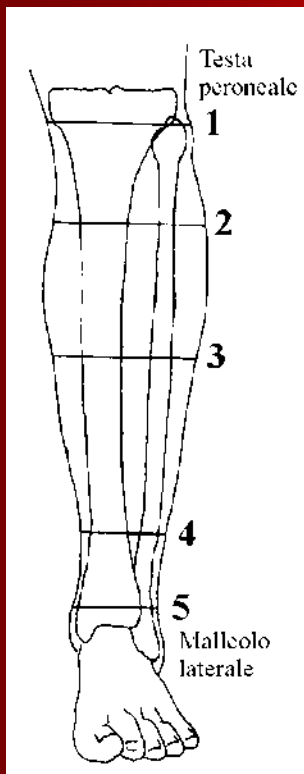
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**Result: deformity
and stiffness**



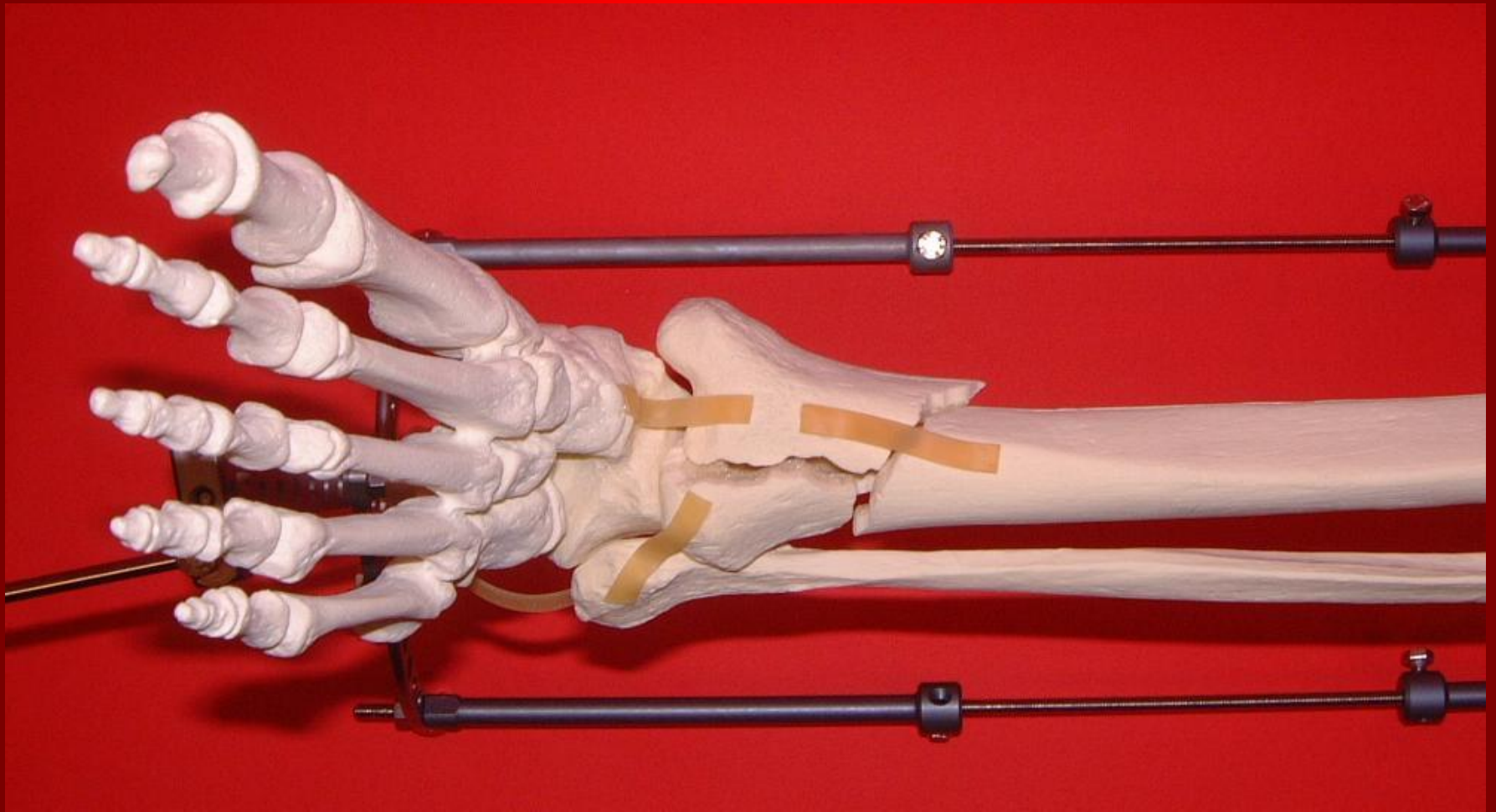
Different frame possibility





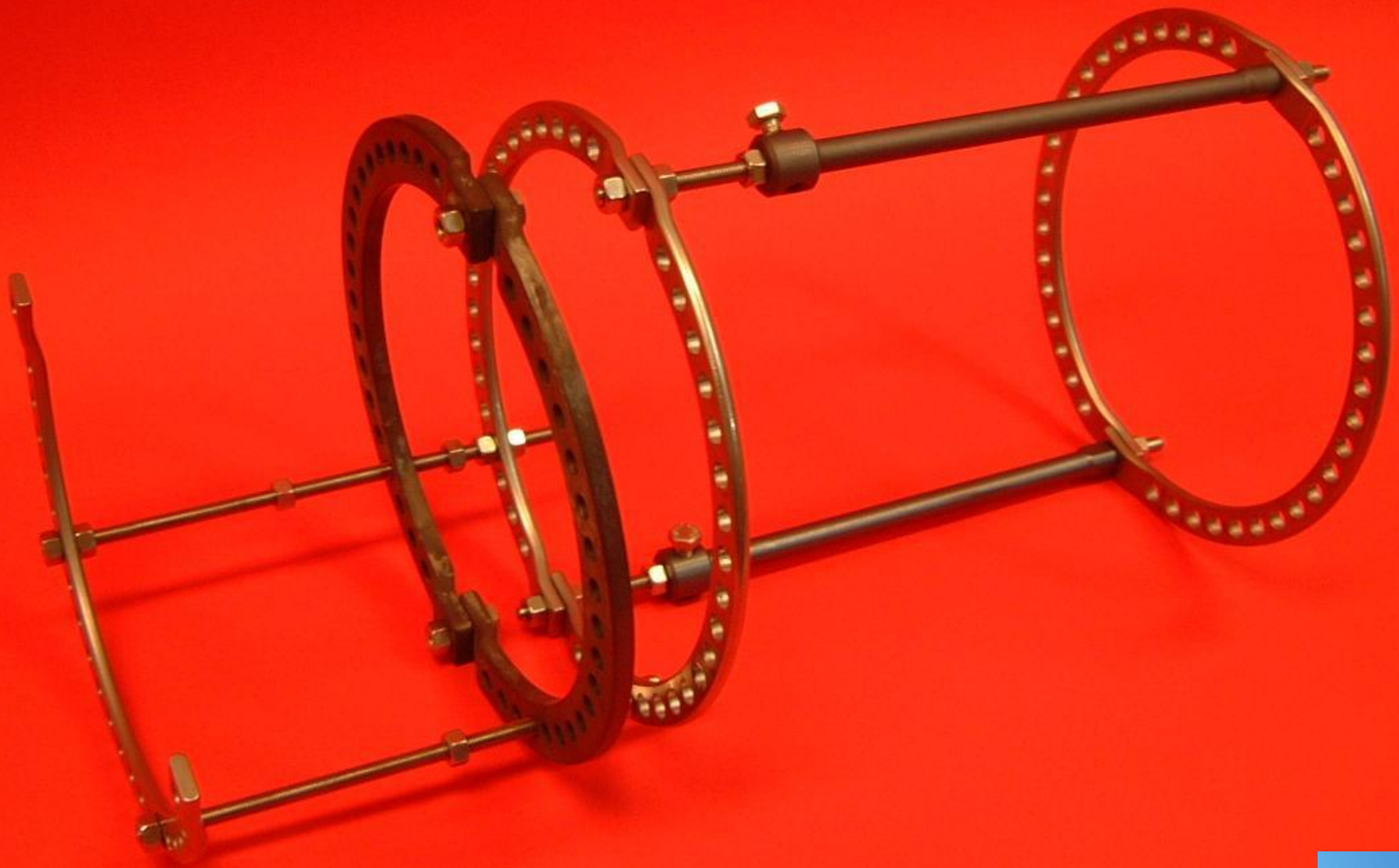
Hybrid in the Tibia

M. A. Catagni



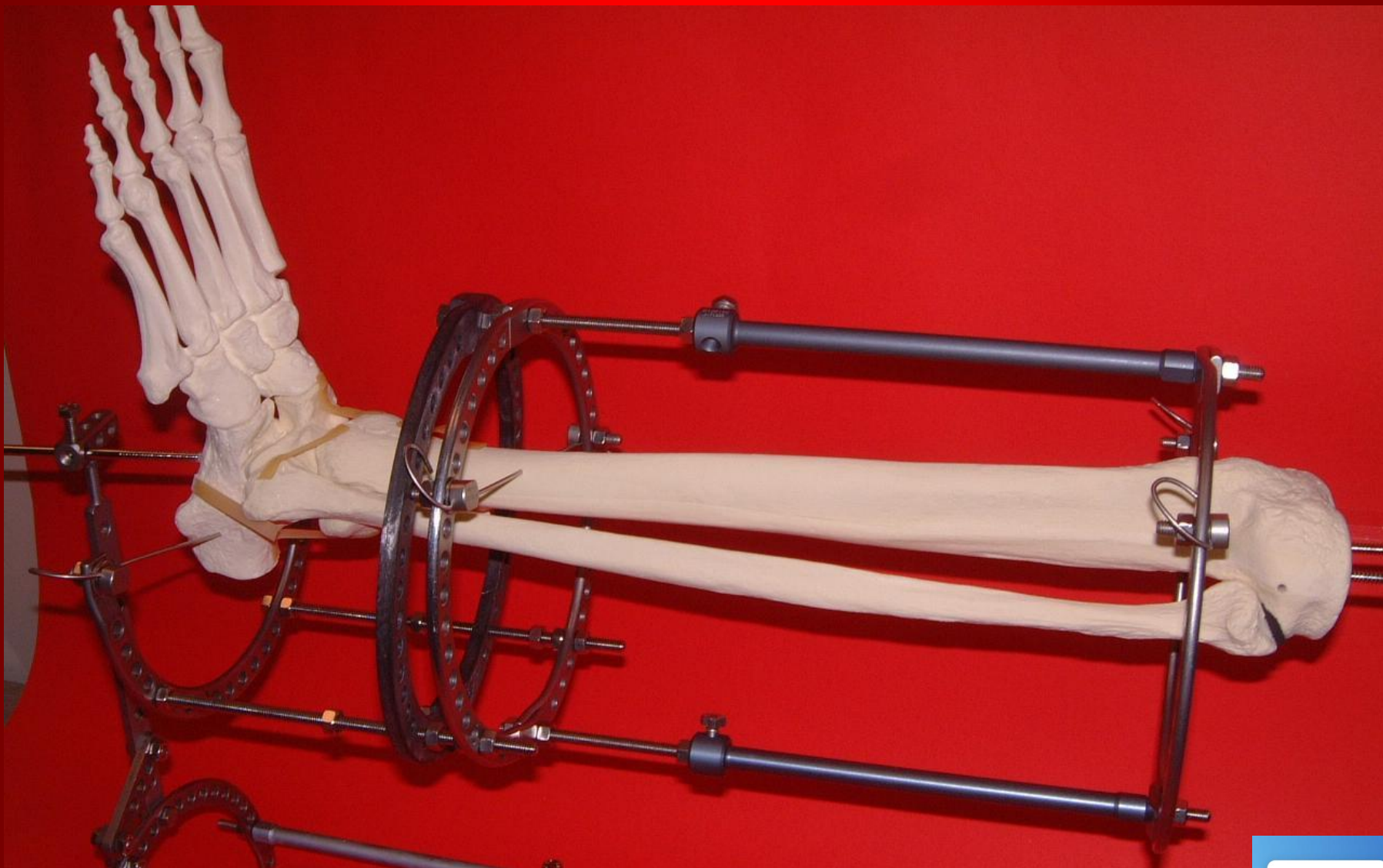
Pylon fracture





Preassembled frame





Proximal wire





Comminuted fracture in plaster with varus deformity

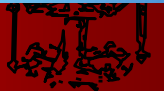


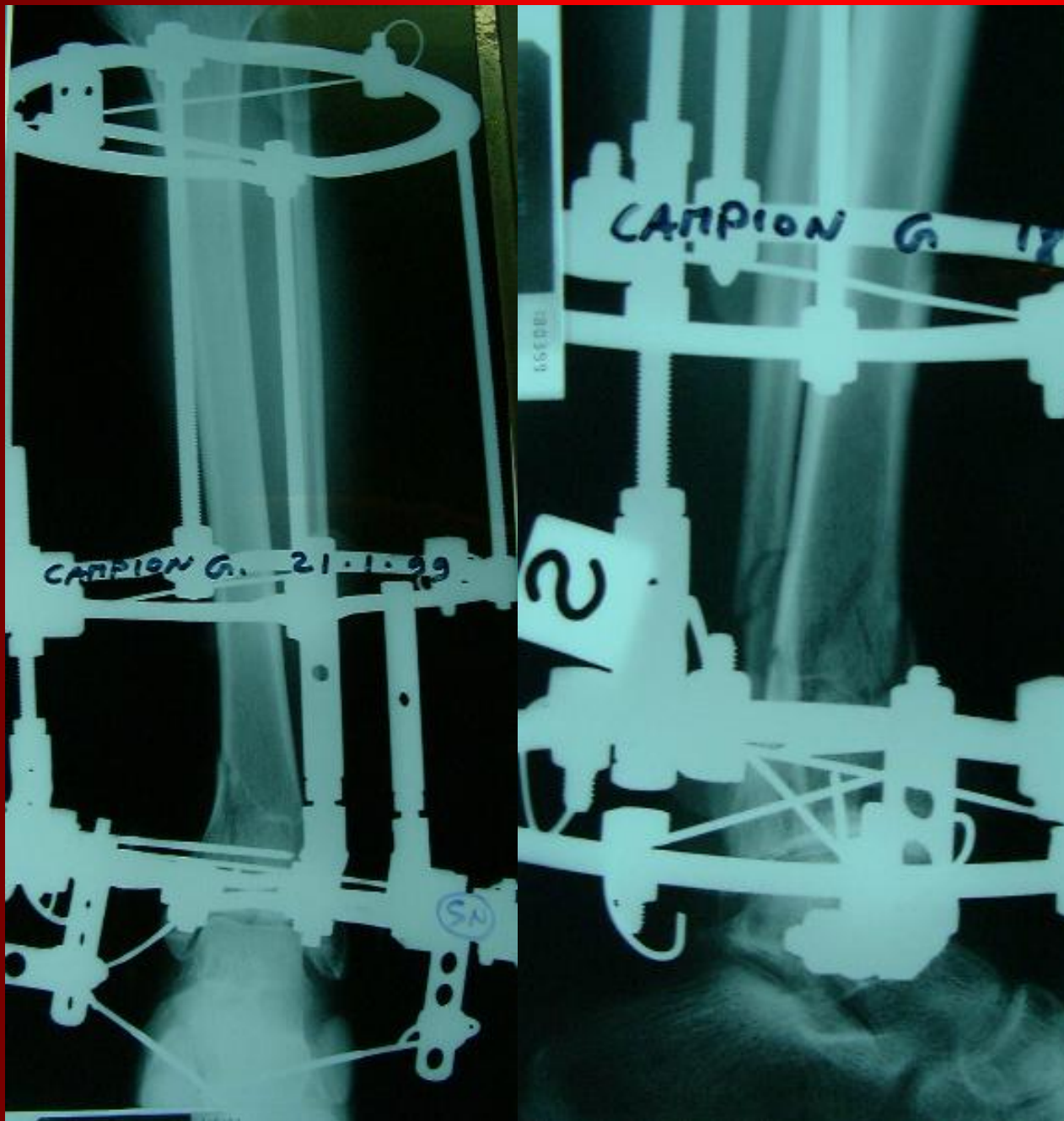
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Distal reference wire



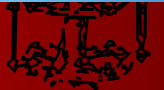


Hinges for correction





**Clinical
appearance**



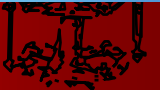


Progressive joint realignment





Final X-rays





Final result



POST TRAUMATIC INFECTION





**Open fracture, ex-fix application
but skin and bone necrosis**



M. A. Catagni

**This is evident infected
situation and the surgeons
doesn't need a special tests
to define the strategy!**





Such step has
always been
successfully one
the bone
fragments have
been stabilized
and all necrotic
tissue debrided



Once the patient has been stabilized, skeletal reconstruction can be carried out with whatever procedure the surgeon is comfortable with. If familiar with bone transport with external fixation, the surgeon can apply it for large bone defects, whereas for small defects, other methods are available (i.e. Masquelet, vascularized fibular transplant)



Post traumatic Ankle Reconstruction



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Post traumatic Ankle Reconstruction



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Post traumatic Ankle Reconstruction



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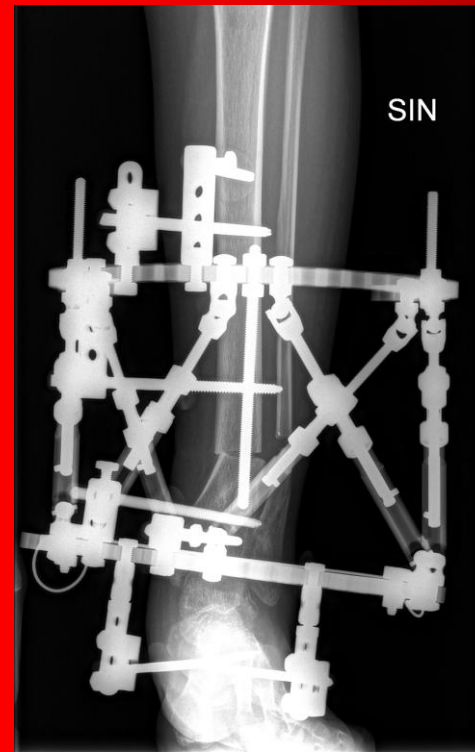
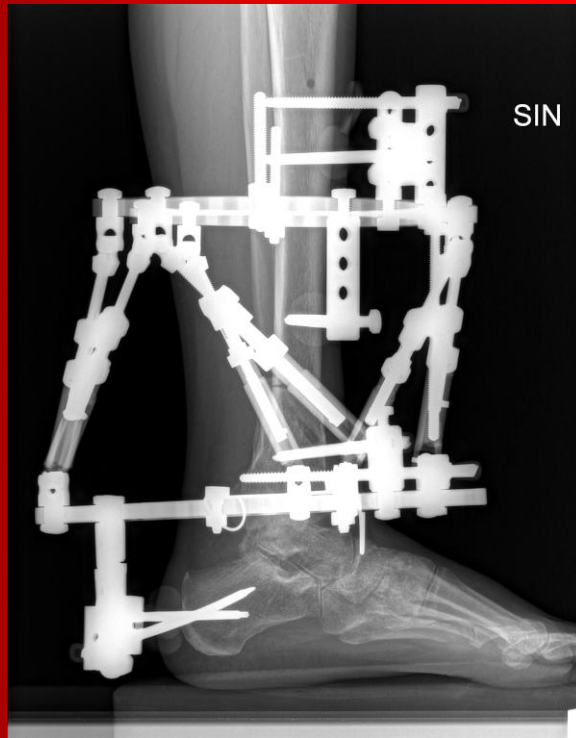
Post traumatic Ankle Reconstruction



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Post traumatic Ankle Reconstruction



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Post traumatic Ankle Reconstruction



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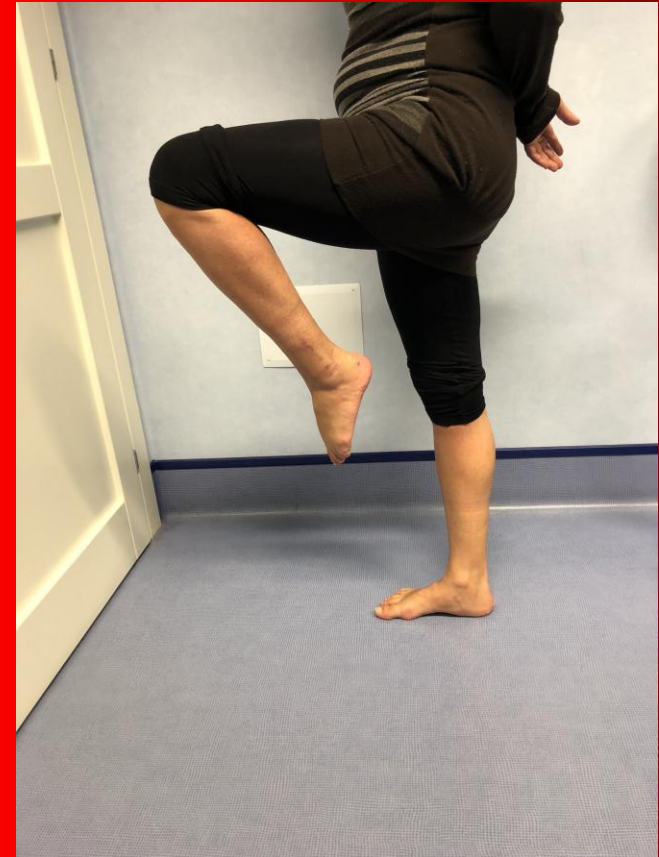
Post traumatic Ankle Reconstruction



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Post traumatic Ankle Reconstruction



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Ankle Arthrodesis





Before



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During treatment



During



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After



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Post traumatic arthritis



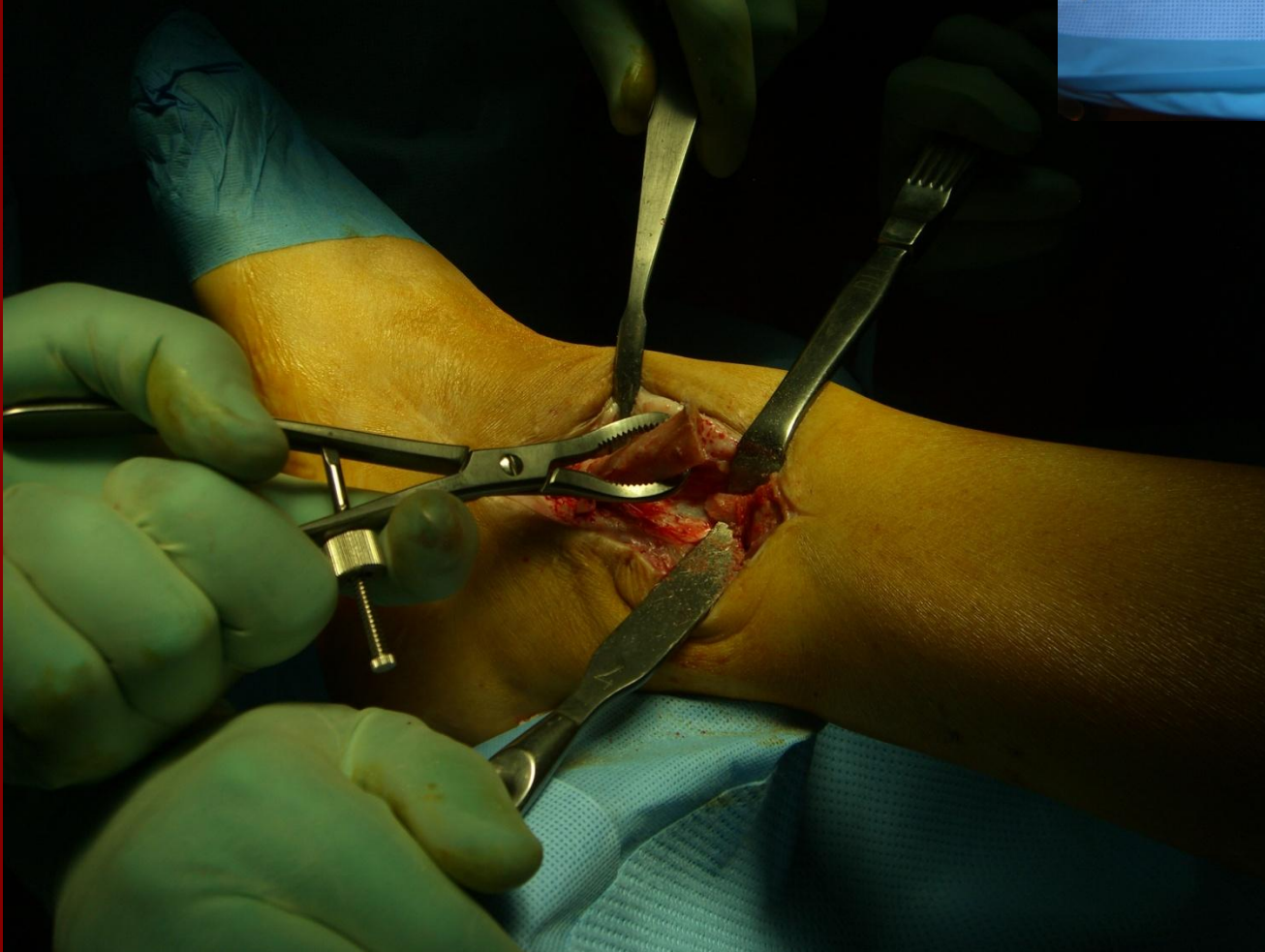
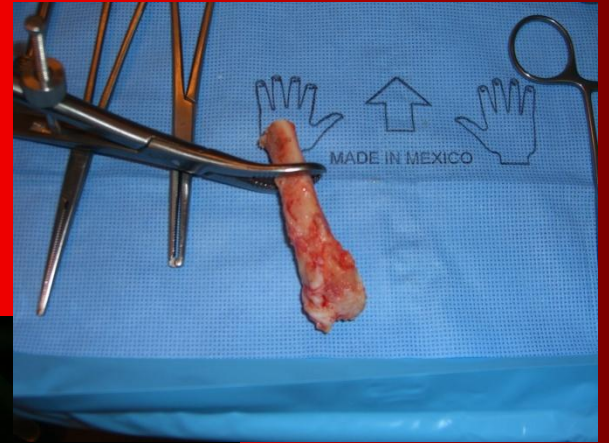
Clinically



Frame



Fibula resection



Fibula resection



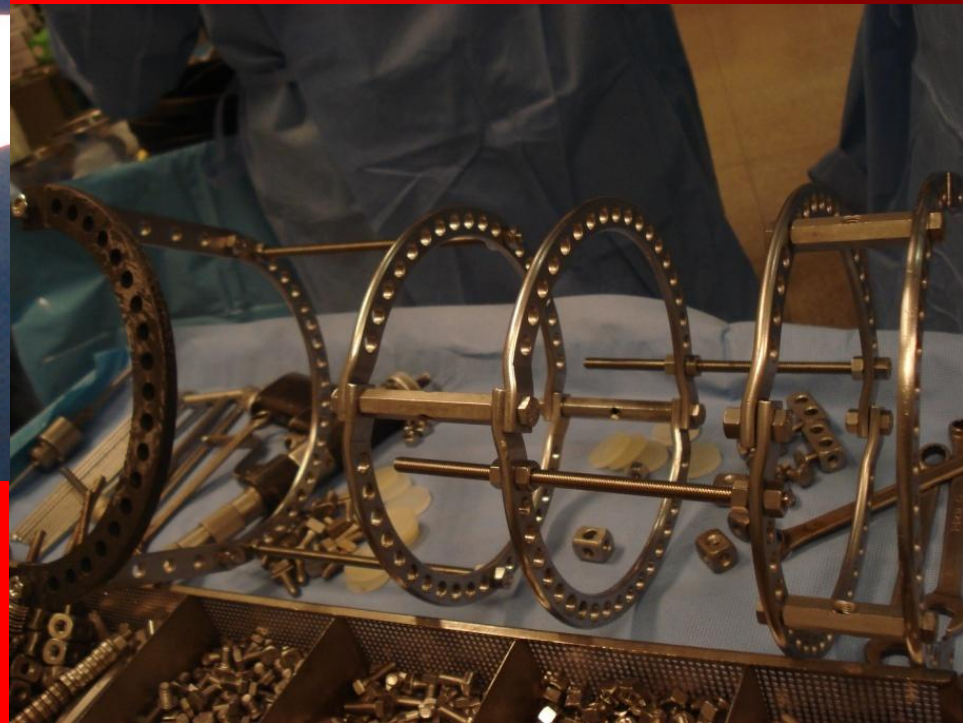
Fibula resection



Consolidation



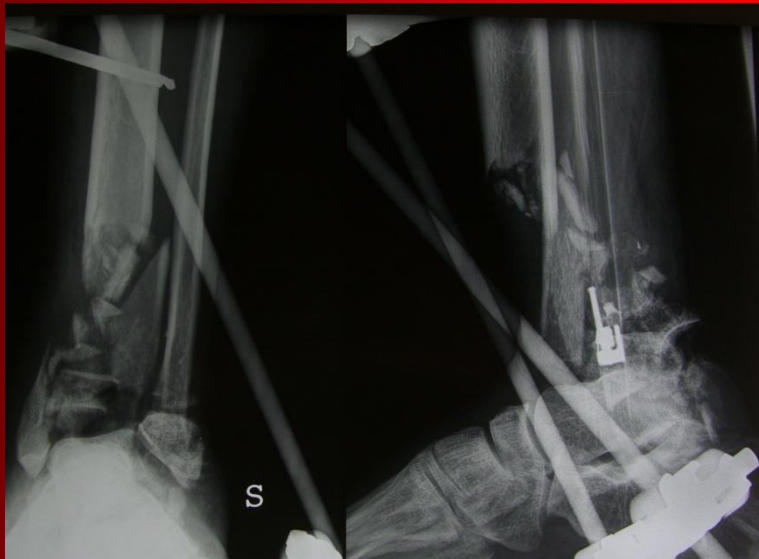
Surgical technique



Post op X-Rays result

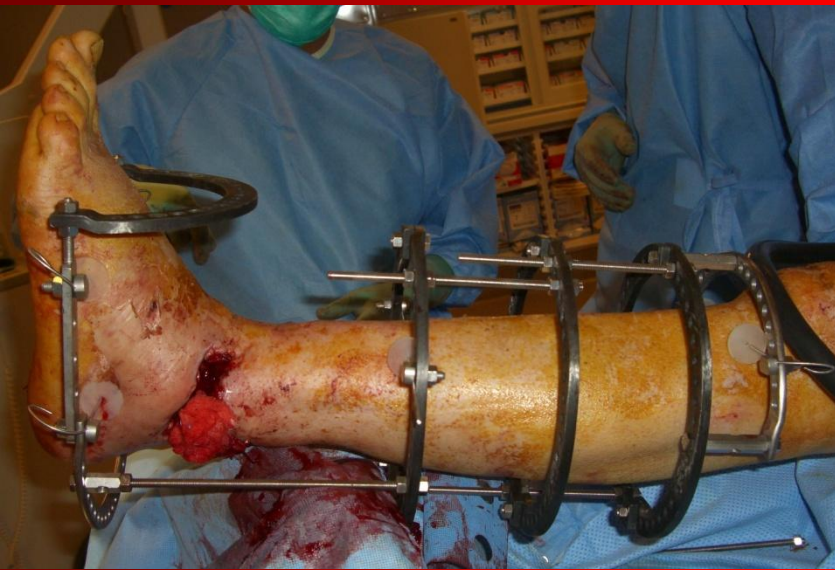


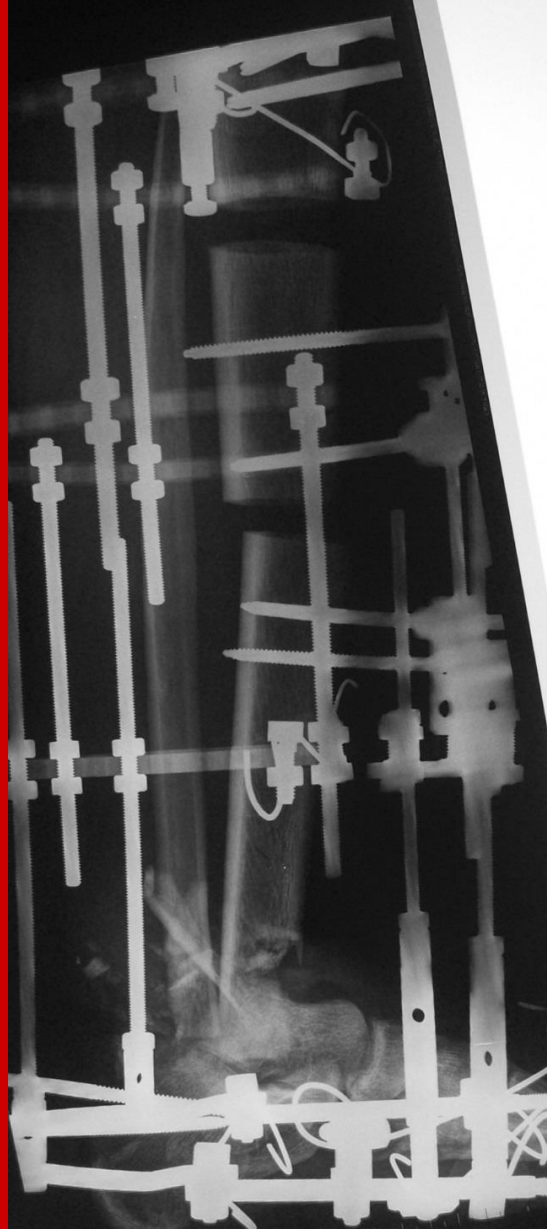
CASE 2



CASE 2

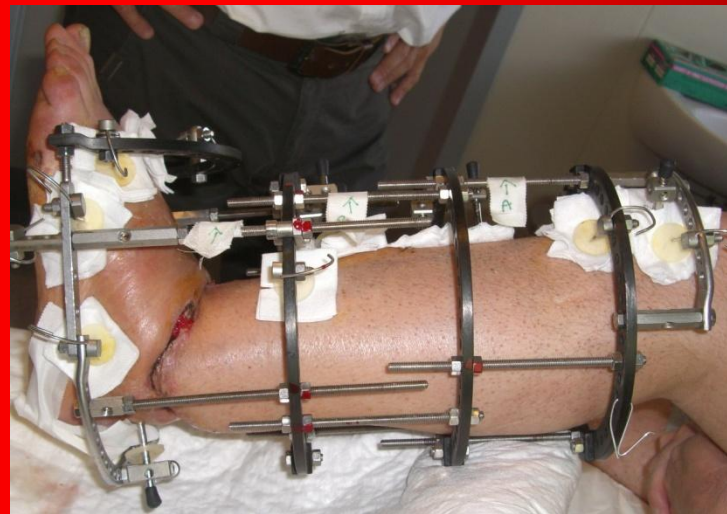
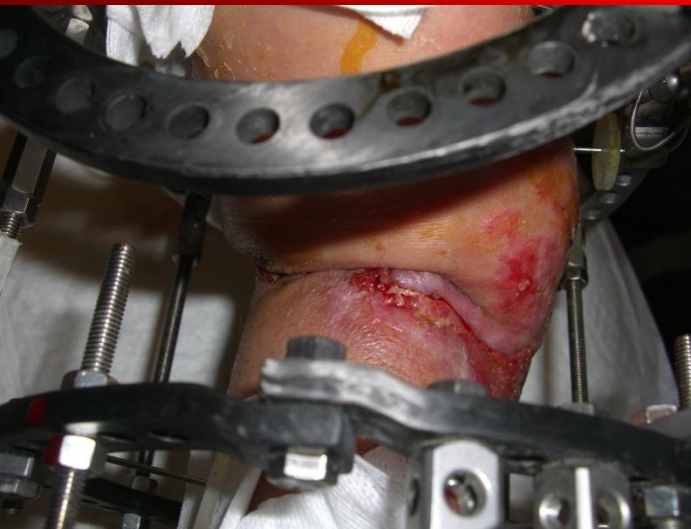






Trifocal





Wound clousure





Final

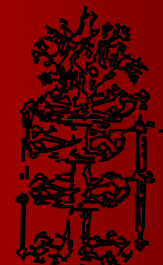




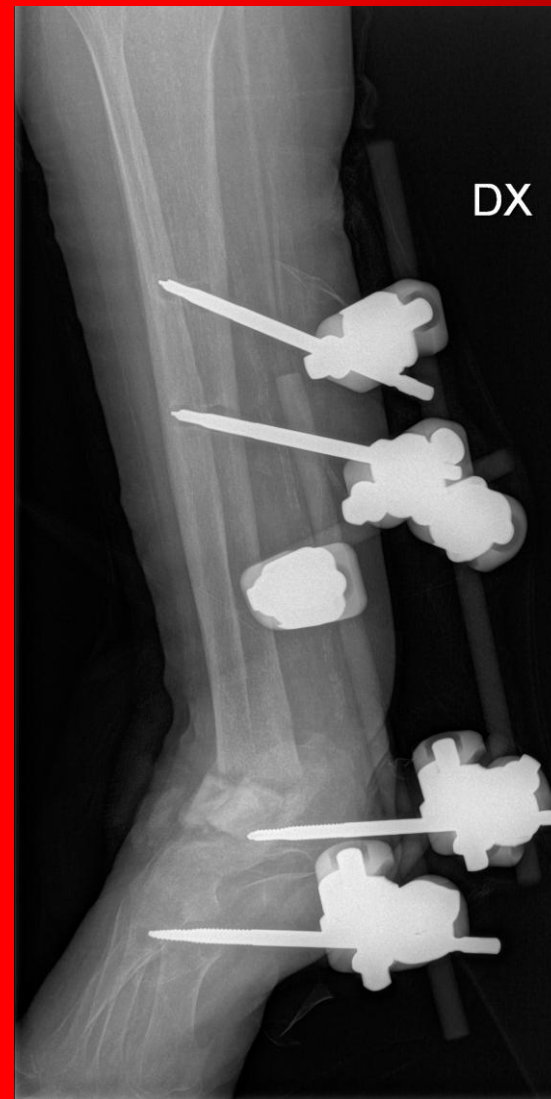
DIFFICULT CASE



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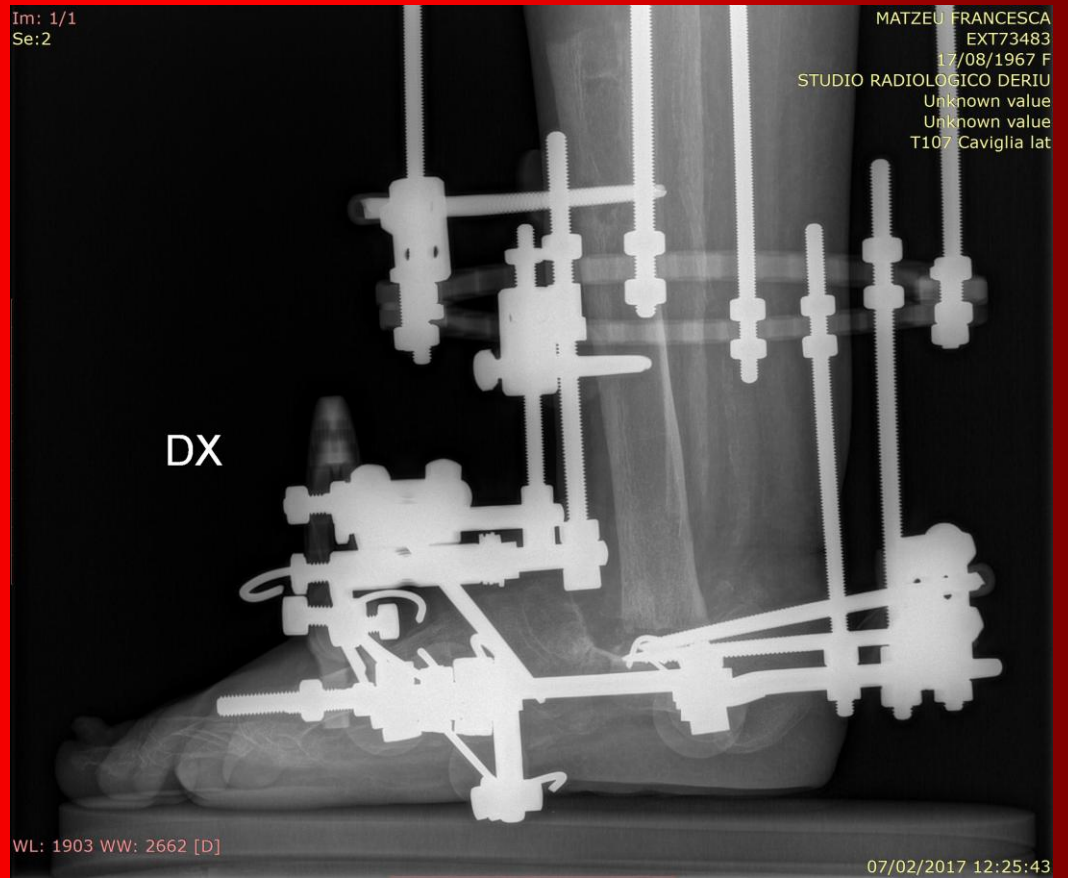
Daniele Pili



CASE



Daniele Pili

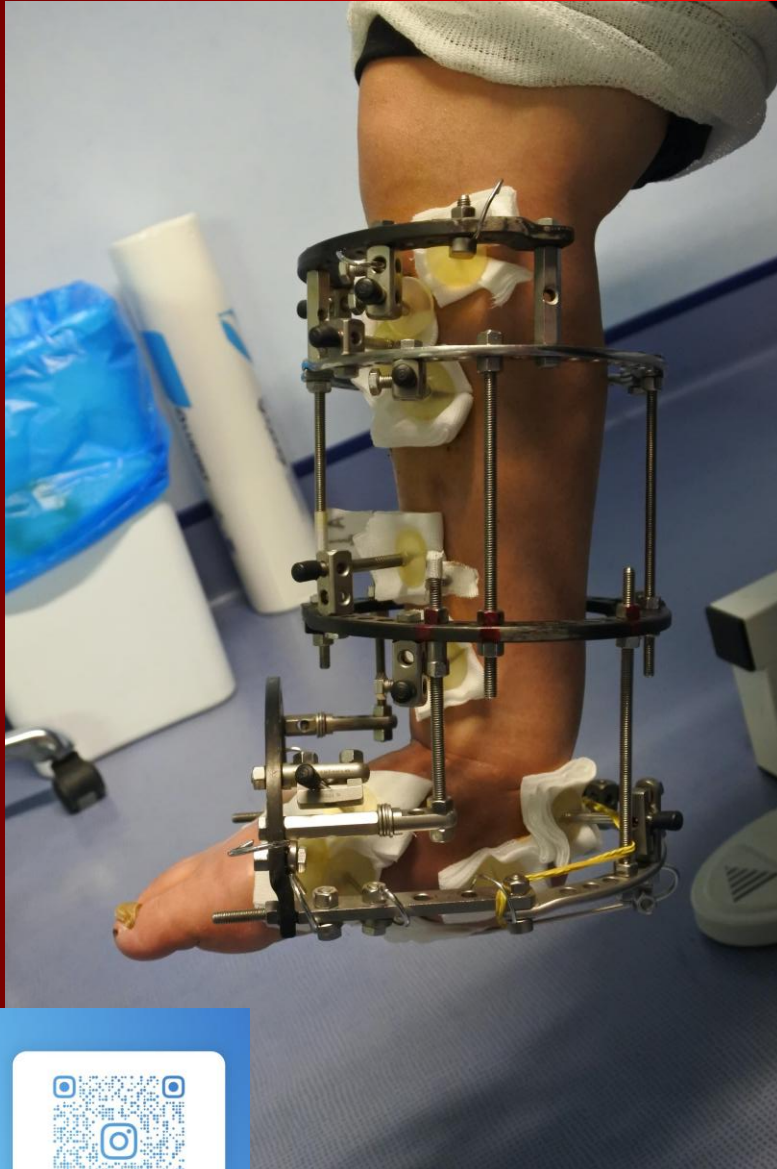


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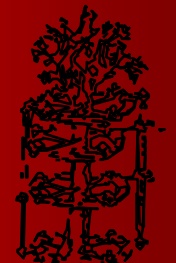
CASE



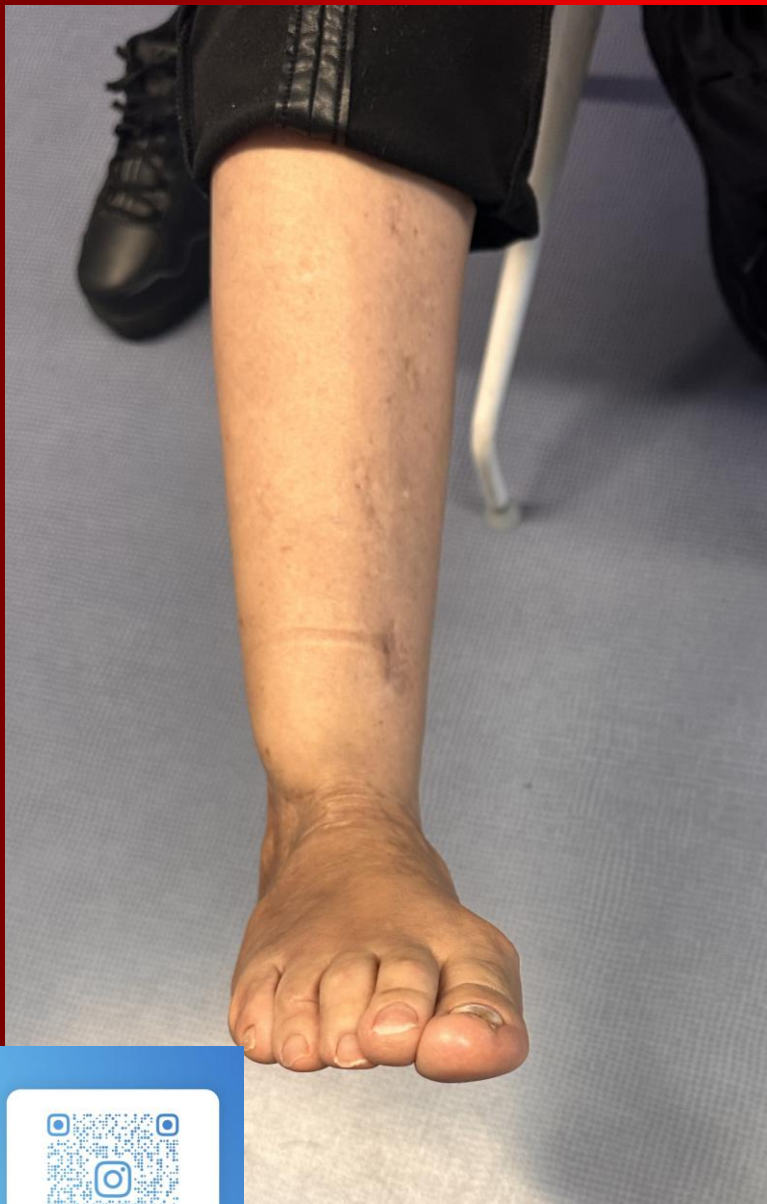
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CASE



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CASE



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CASE



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CASE



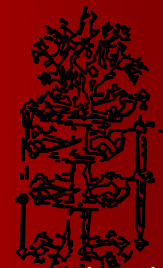
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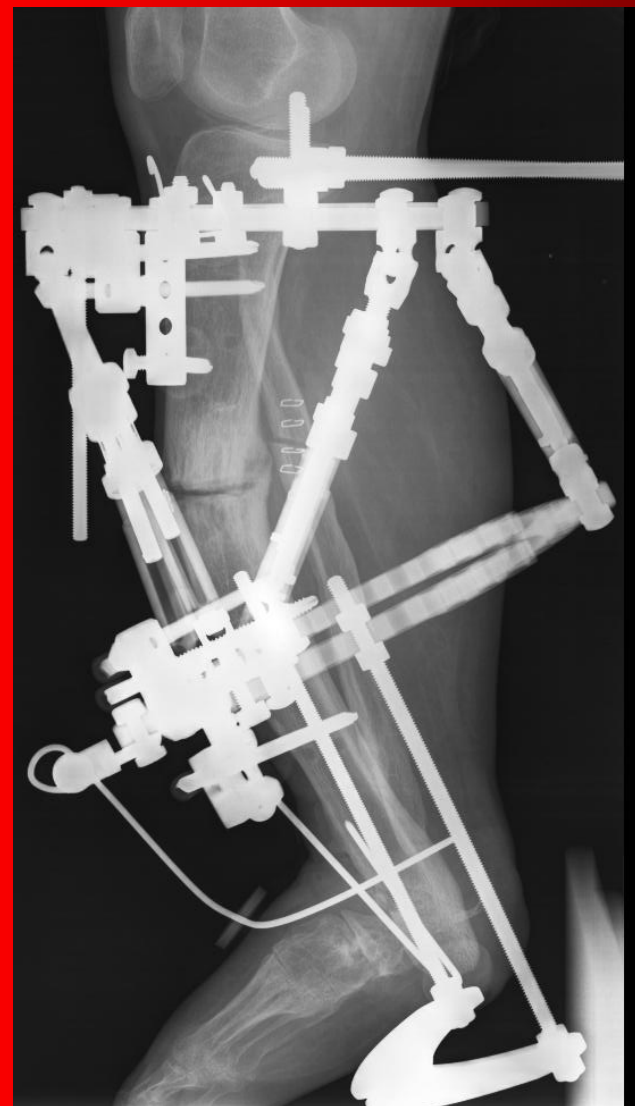
DRASTIC SOLUTION CASE



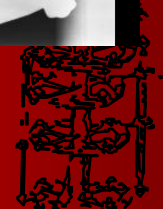
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CASE



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CASE



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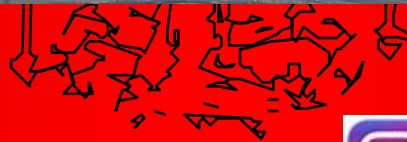
Thank you



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Thank you



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Thank you



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