

**CONGRESSO NAZIONALE
SOCIETÀ ITALIANA
FISSAZIONE ESTERNA**

Fissazione esterna nel
trattamento delle emergenze
e traumi militari, tecniche
di ricostruzione degli arti
e trattamento degli esiti
postraumatici

ROMA

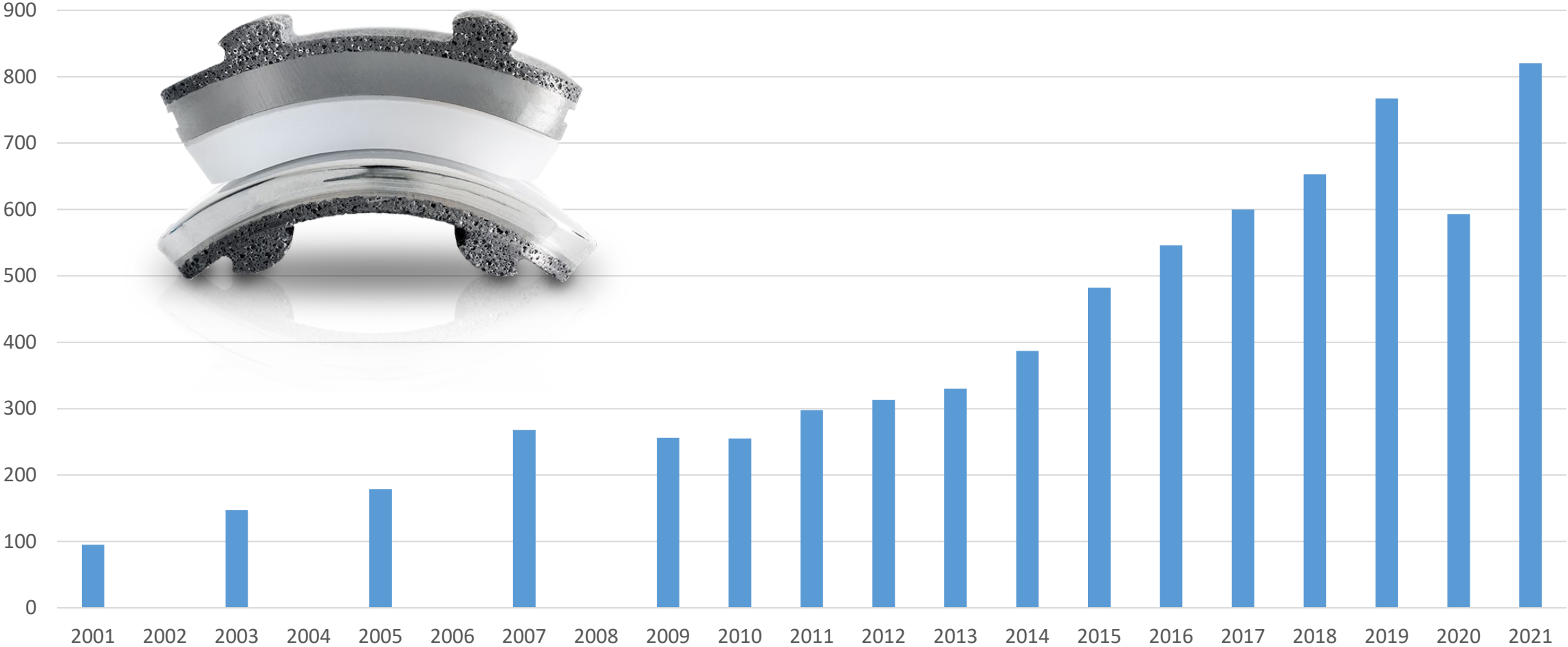
2025

16-17 MAGGIO 2025

**ARTRODESI TIBIOTARSICA CON
APPARATO DI ILIZAROV
IN 8 CASI DI FALLIMENTO DI
PROTESI DI CAVIGLIA**

Malagoli E, Kirienko A, Vandenbulcke F.

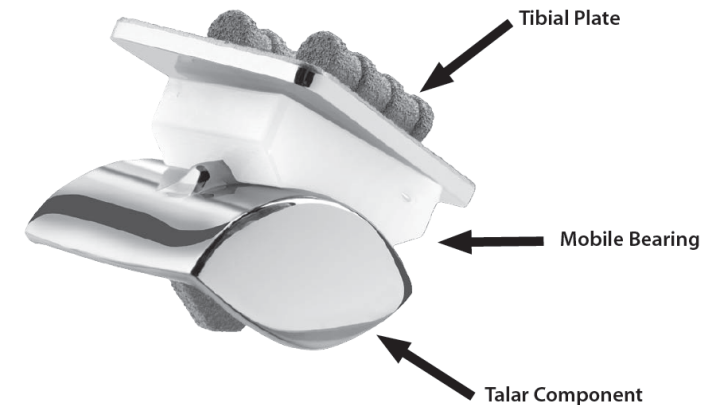
Total Ankle Arthroplasty in Italy



Registro Italiano Artroprotesi, Report Annuale 2022

Ideal candidate

- reasonably mobile,
- *middle aged or older patient*
- no obesity or overweight
- well aligned and stable hindfoot



- A.J. Guyer and E. G. Richardson, "Current concepts review:total ankle arthroplasty," *Foot and Ankle International*, vol. 29,no. 2, pp. 256–264, 2008.
- M. P. Clare and R.W. Sanders, "Preoperative considerations in ankle replacement surgery," *Foot and Ankle Clinics*, vol. 7, no 4, pp. 709–720, 2002.
- C. L. Saltzman, "Perspective on total ankle replacement," *Foot and Ankle Clinics*, vol. 5, no. 4, pp. 761–775, 2000.

Abstract ▼

Send to: ▼

Foot Ankle Int. 2015 Apr 10. pii: 1071100715579863. [Epub ahead of print]

Survival Analysis of the Single- and Double-Coated STAR Ankle up to 20 Years: Long-Term Follow-up of 324 Cases From the Swedish Ankle Registry.

Henricson A¹, Carlsson Å².

⊕ Author information

Abstract

BACKGROUND: The Scandinavian Total Ankle Replacement (STAR) has been used widely in Europe and more recently in the United States. We studied the results of the single-coated and the double-coated STAR with long-term follow-up.

METHODS: All STARs (n = 324) used in Sweden (first implanted in 1993) were included. Prosthetic survival was estimated according to Kaplan-Meier.

RESULTS: The 14-year survival of the single-coated STAR was 0.47 (95% confidence interval [CI], 0.38-0.66), and the 12-year survival of the double-coated STAR was 0.64 (95% CI, 0.57-0.71). Women younger than 60 years with osteoarthritis had a statistically significantly higher risk of revision than men and than patients with other diagnoses.

CONCLUSION: The long-term results of the STAR prosthesis are not encouraging. The results seem to deteriorate by time.

LEVEL OF EVIDENCE: Level IV, retrospective case series.

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Lista dei problemi

1. Rimozione dell'impianto
2. Scarso bone stock
3. Tessuti molli (scarsa qualita')
4. Deformità associate
5. Accorciamento
6. Infezione

2009 frattura complessa esposta...





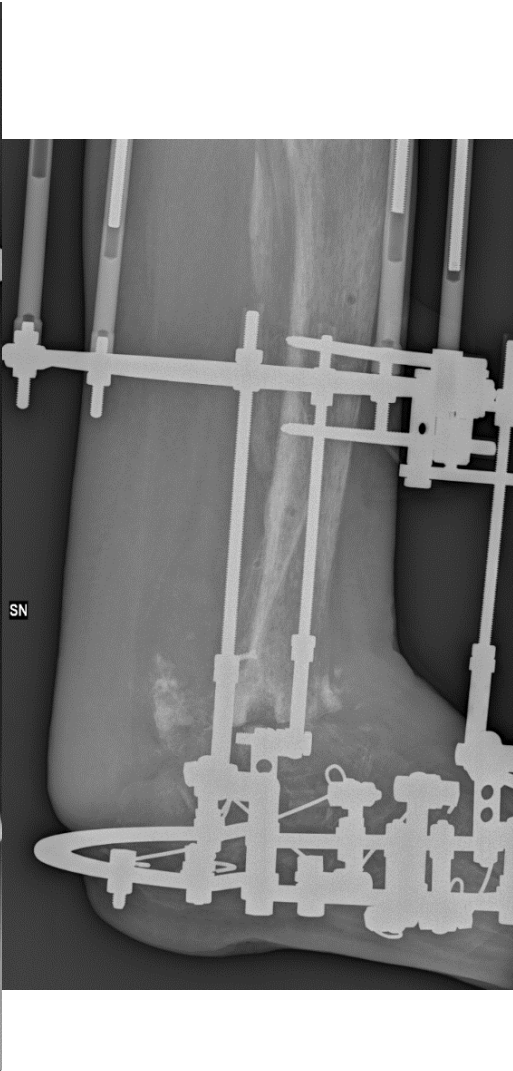


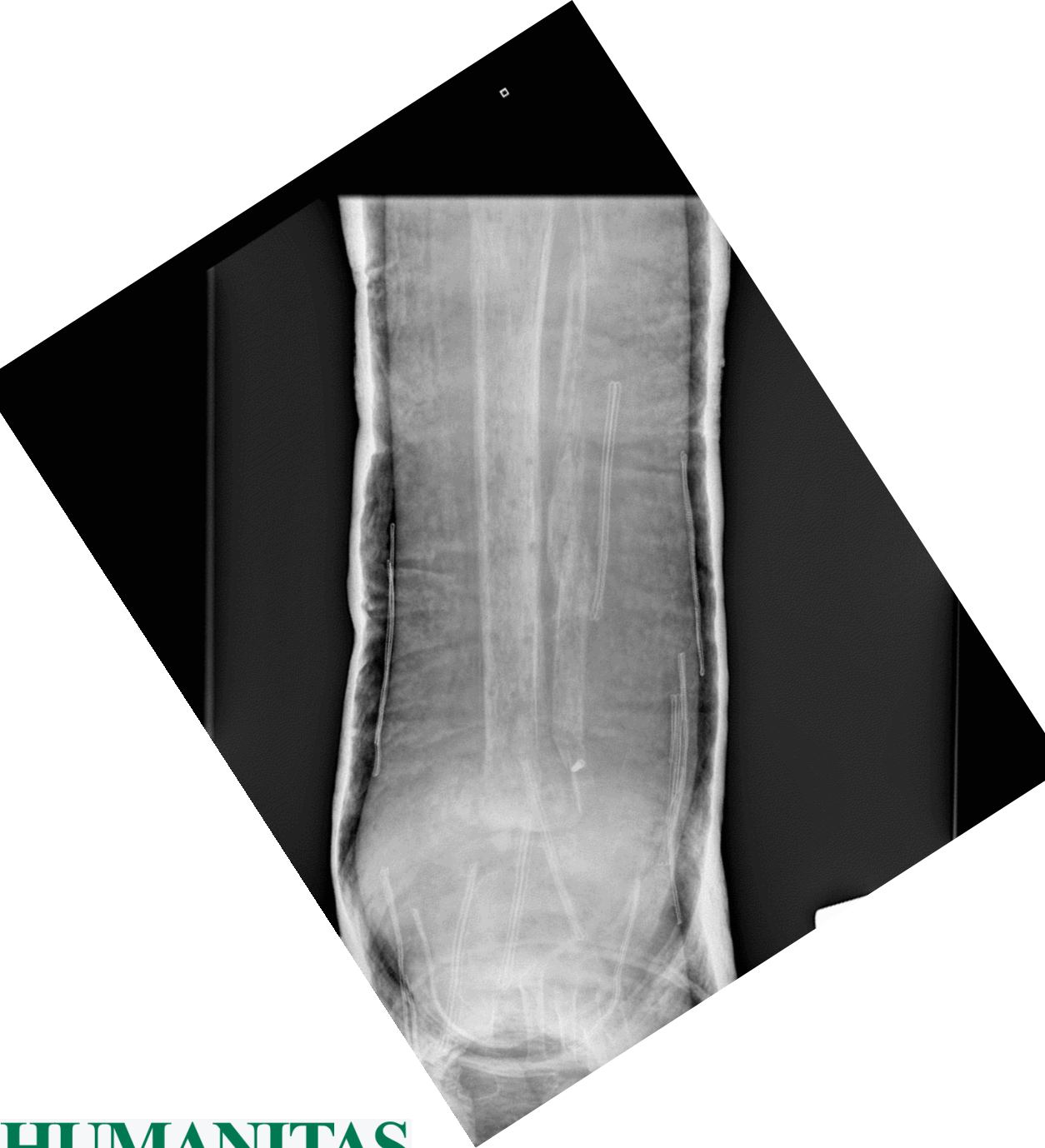
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CARBONI DIEGO M
1-1976 246813070451309
© Corona Decimomannu (CA)

....2021 dopo circa 10 anni, deartrodesi.











Our case series: 8 patients (5M:3F)

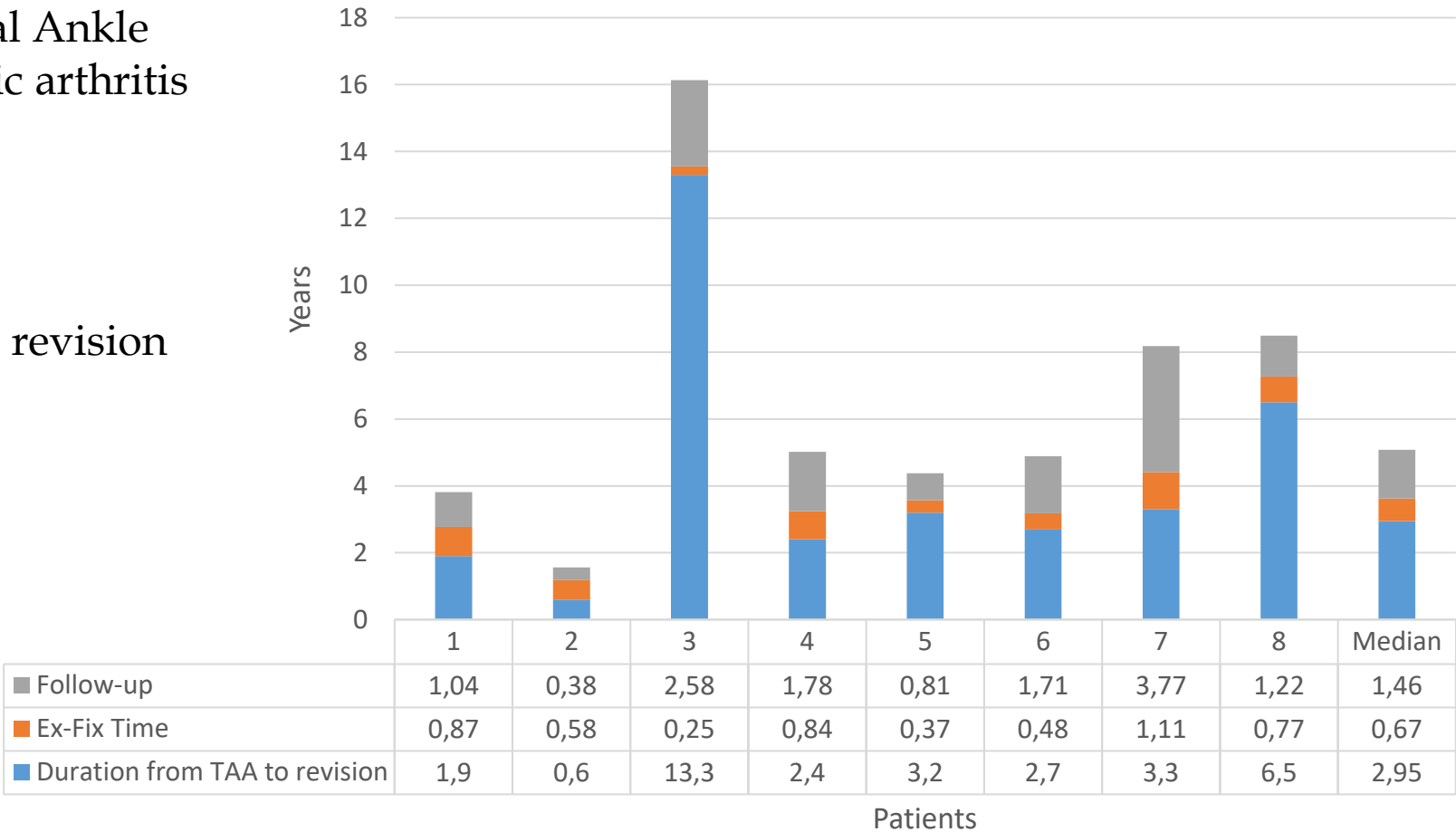
All patients underwent to Total Ankle Arthroplasty for post-traumatic arthritis

Median age at TAA
43.0 [39-45] years

Median duration from TAA to revision
2.95 [2.28-4.1] years

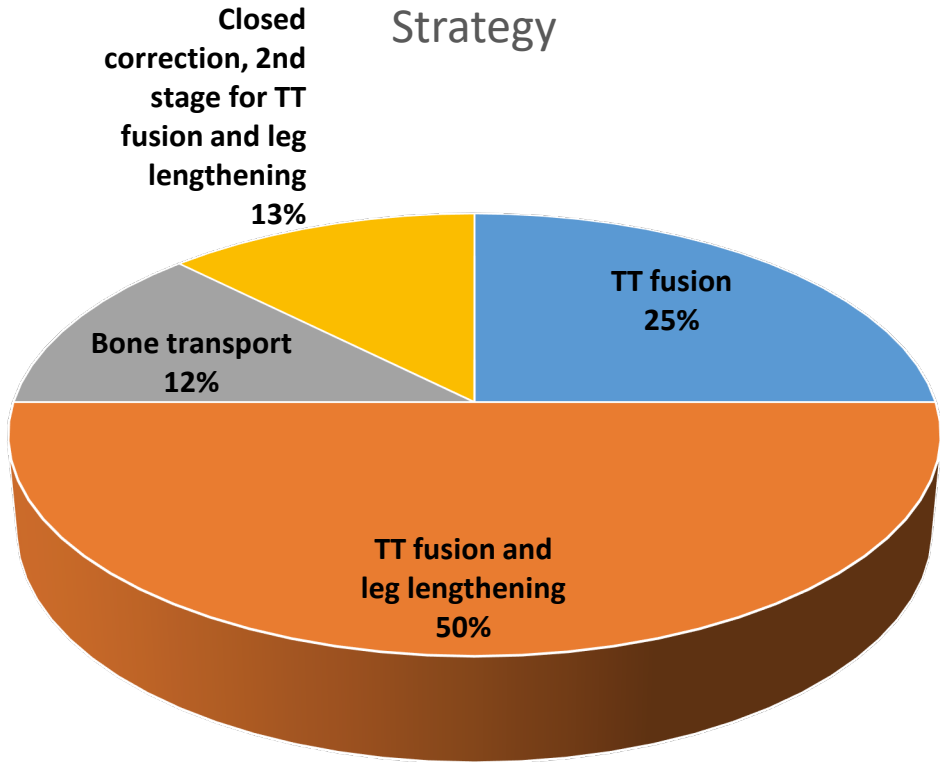
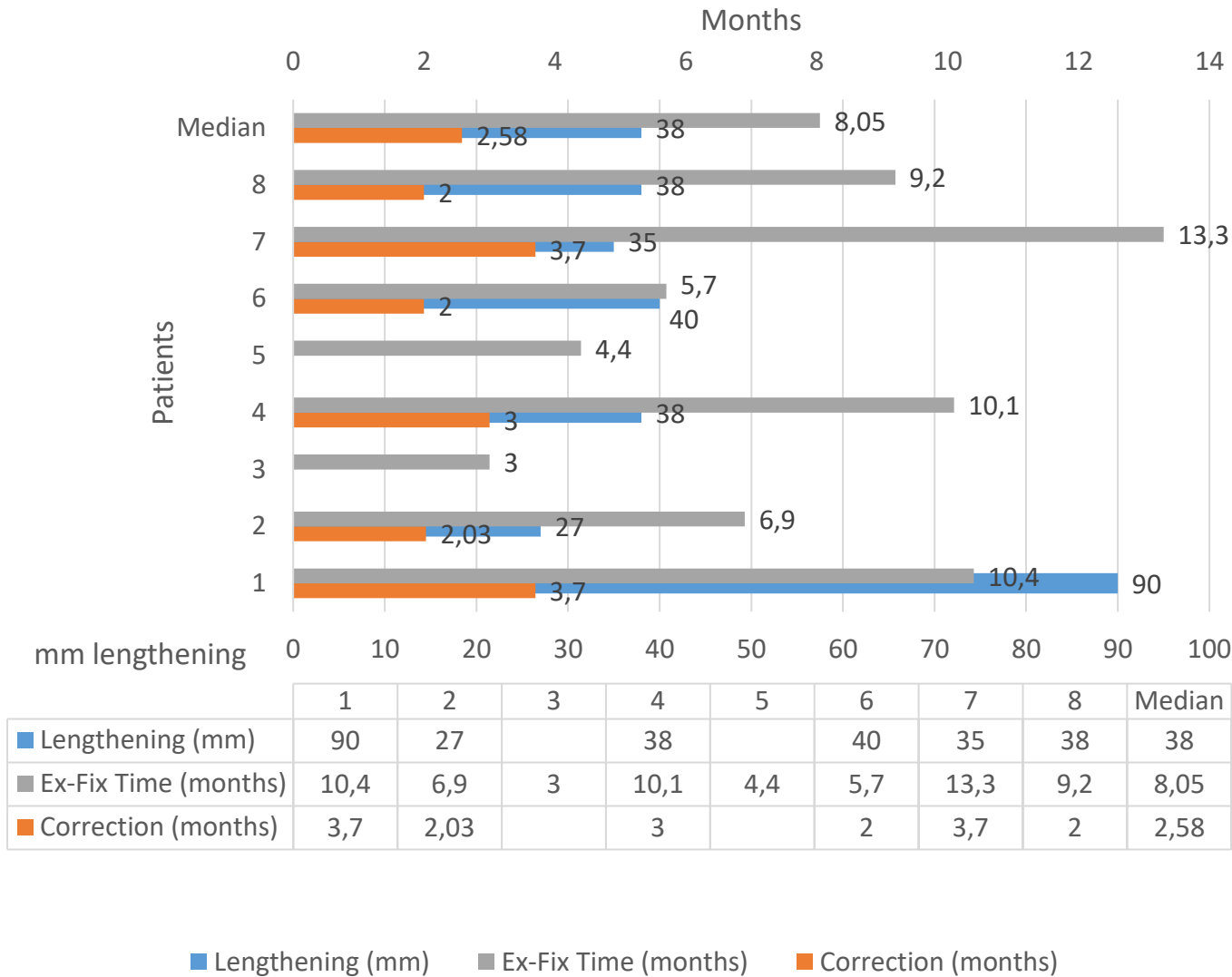
Median Ex-Fix Time
8.05 [5.38-10.18] months

Median follow-up
17.55 [11.8-23.7] months



■ Duration from TAA to revision ■ Ex-Fix Time ■ Follow-up

Treatment strategy



Median leg lengthening
38 mm (range 27 to 90)

Median duration of correction
77.5 [61.25-105.75] days

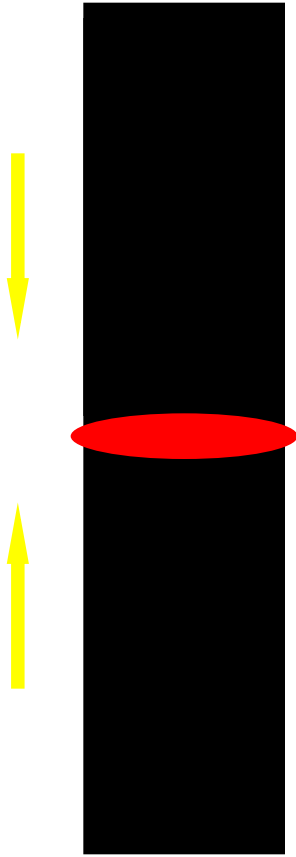
COMPLICATIONS

No further unplanned surgical revision were necessary

One reintervention for local infection debridement

Ilizarov Treatment

Types of osteosynthesis



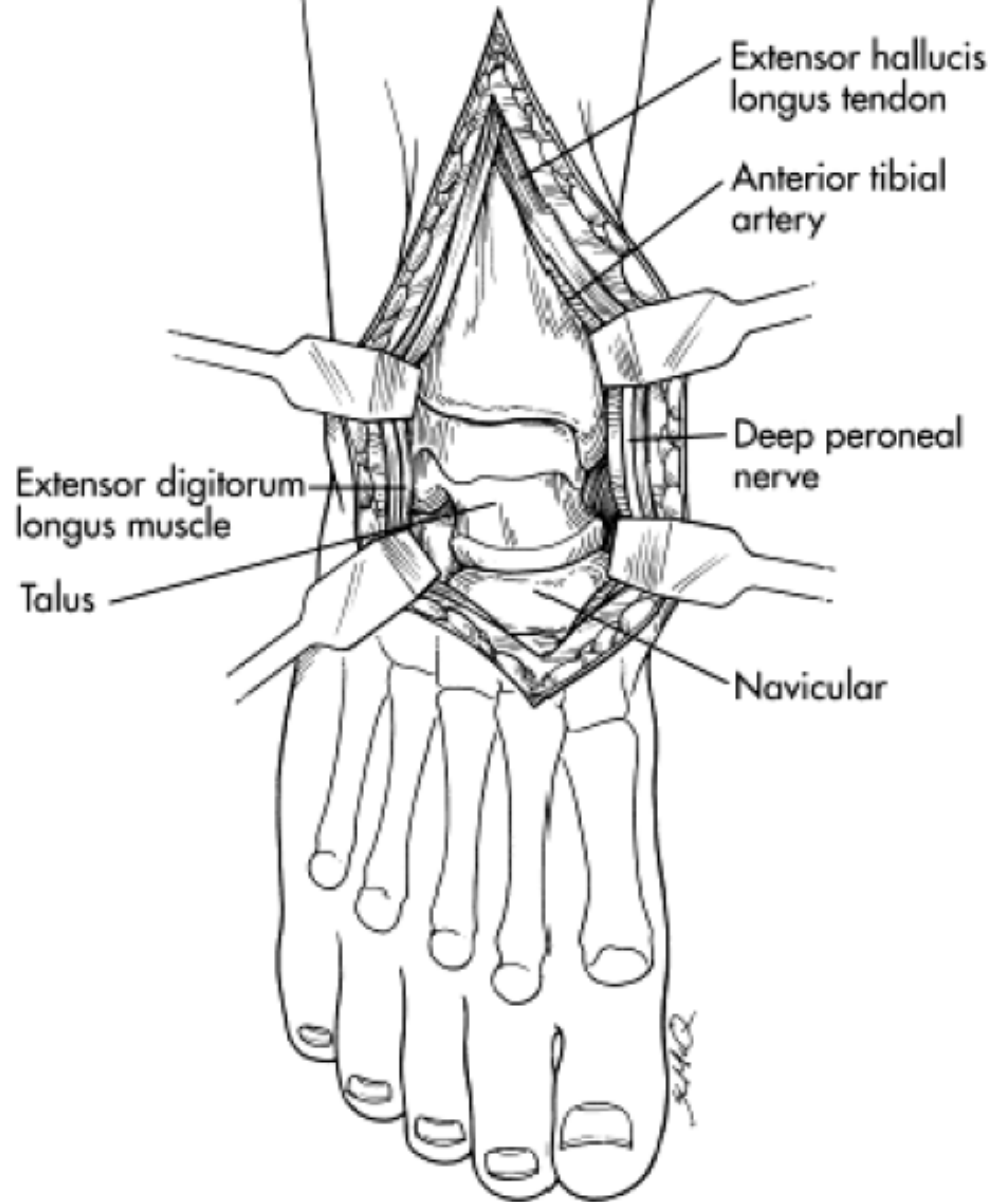
- Compression monofocal

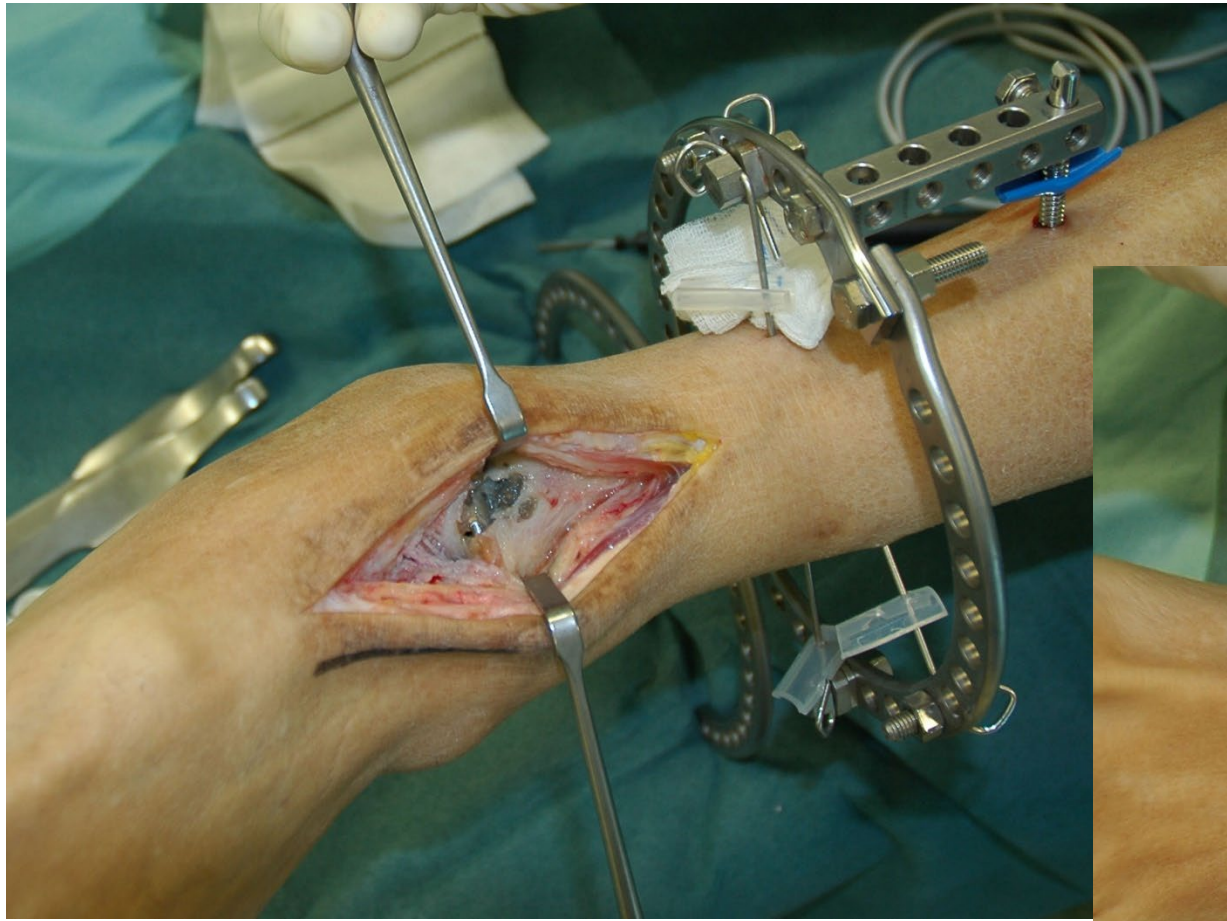
36 y.o. Male. TOTAL ANKLE REPLACEMENT FAILURE



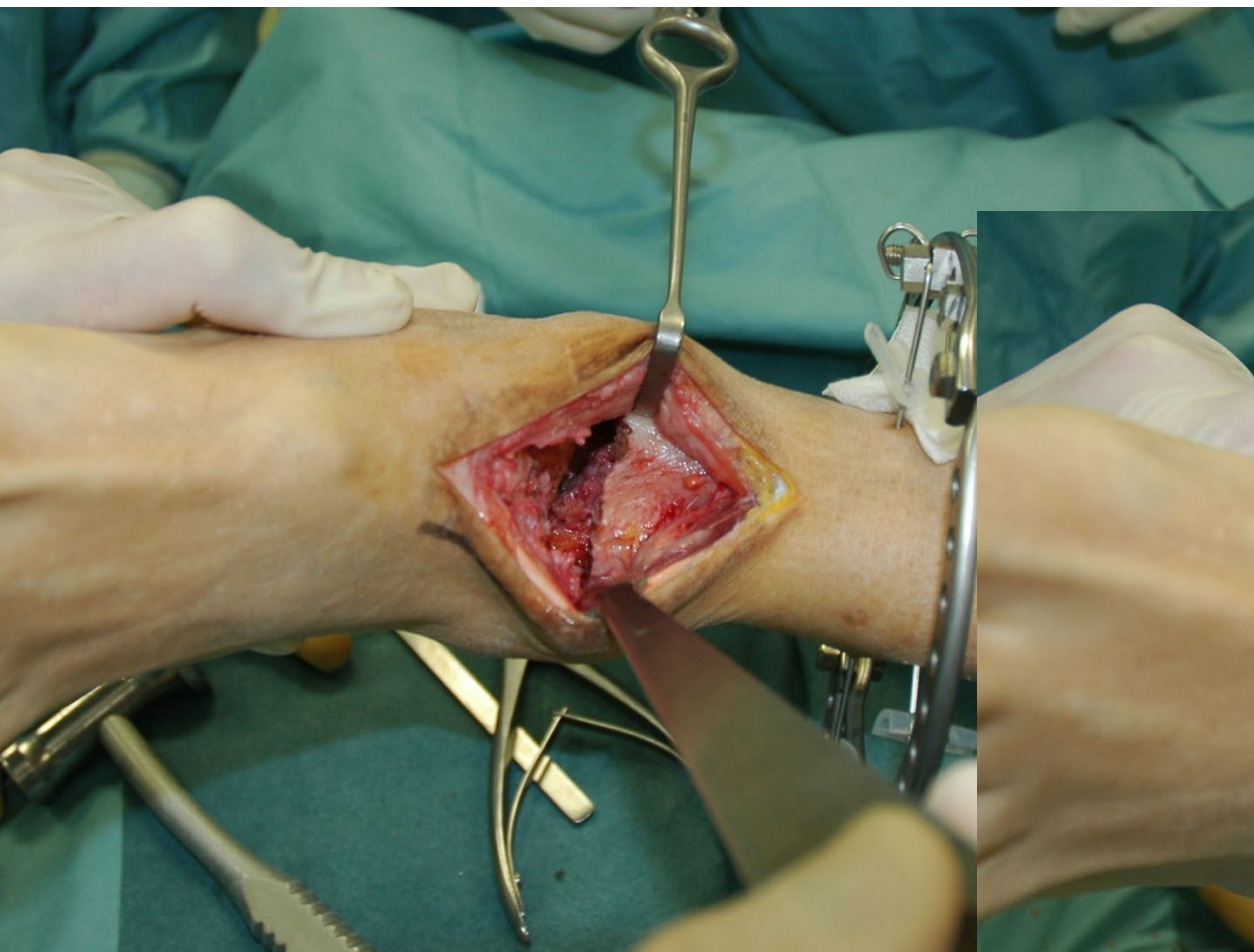


Anterior approach











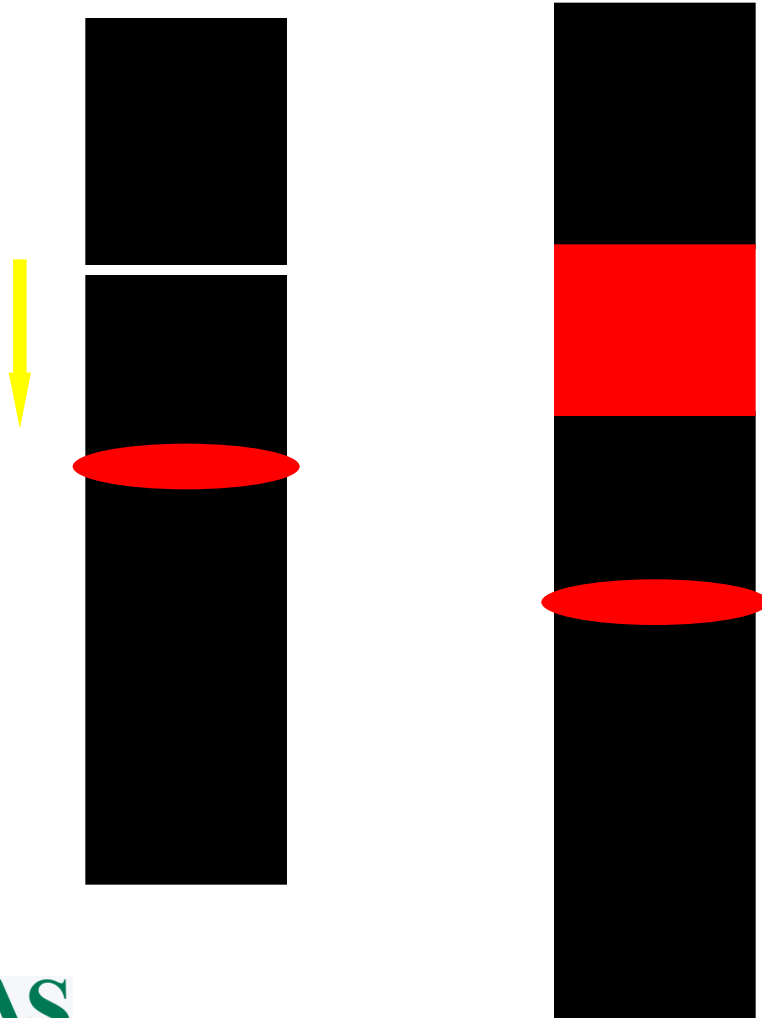


1 month
after
frame
removal

X-rays after 4
month

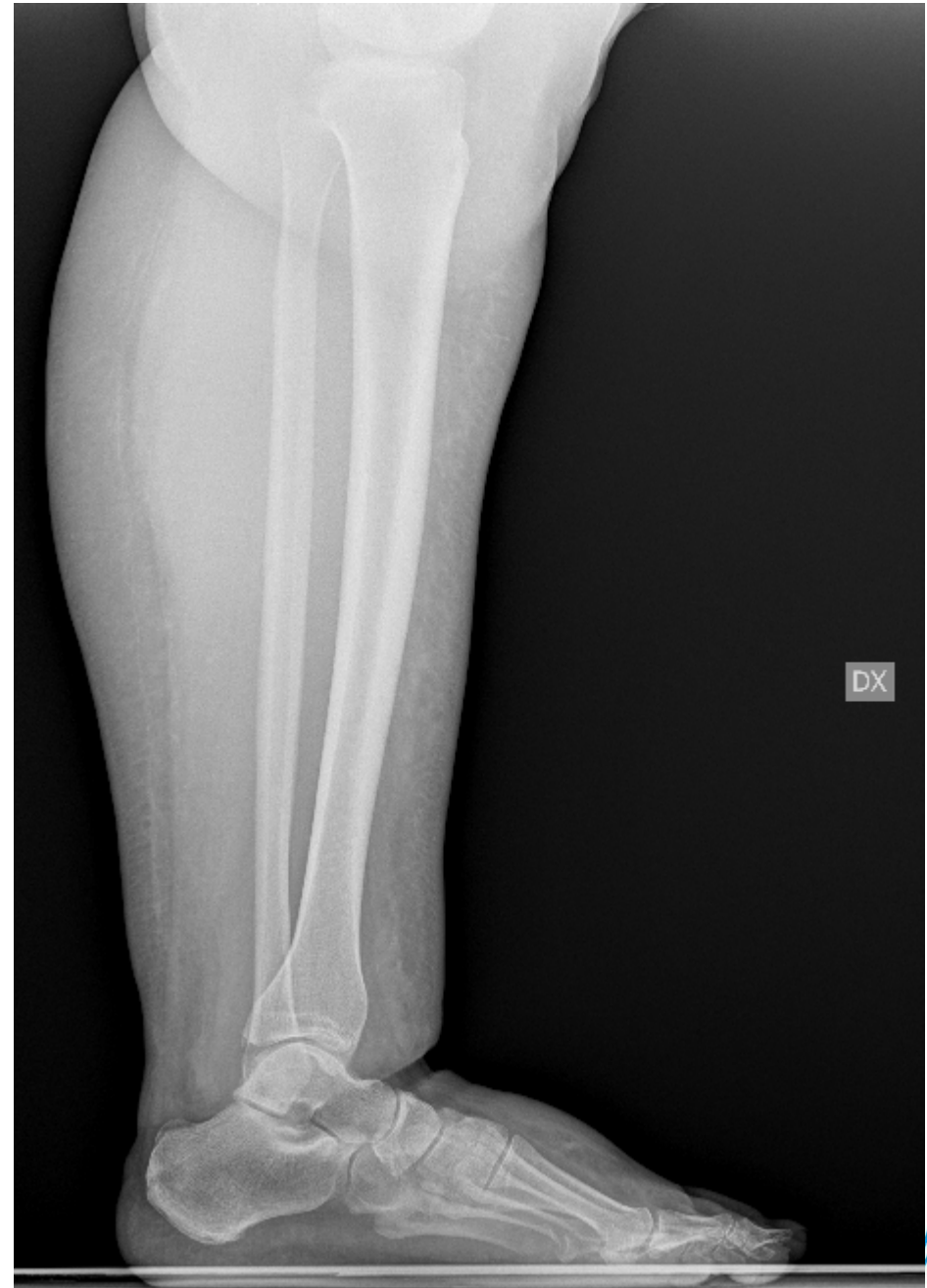


Types of osteosynthesis



- Bifocal osteosynthesis.
- Bifocal distraction and compression

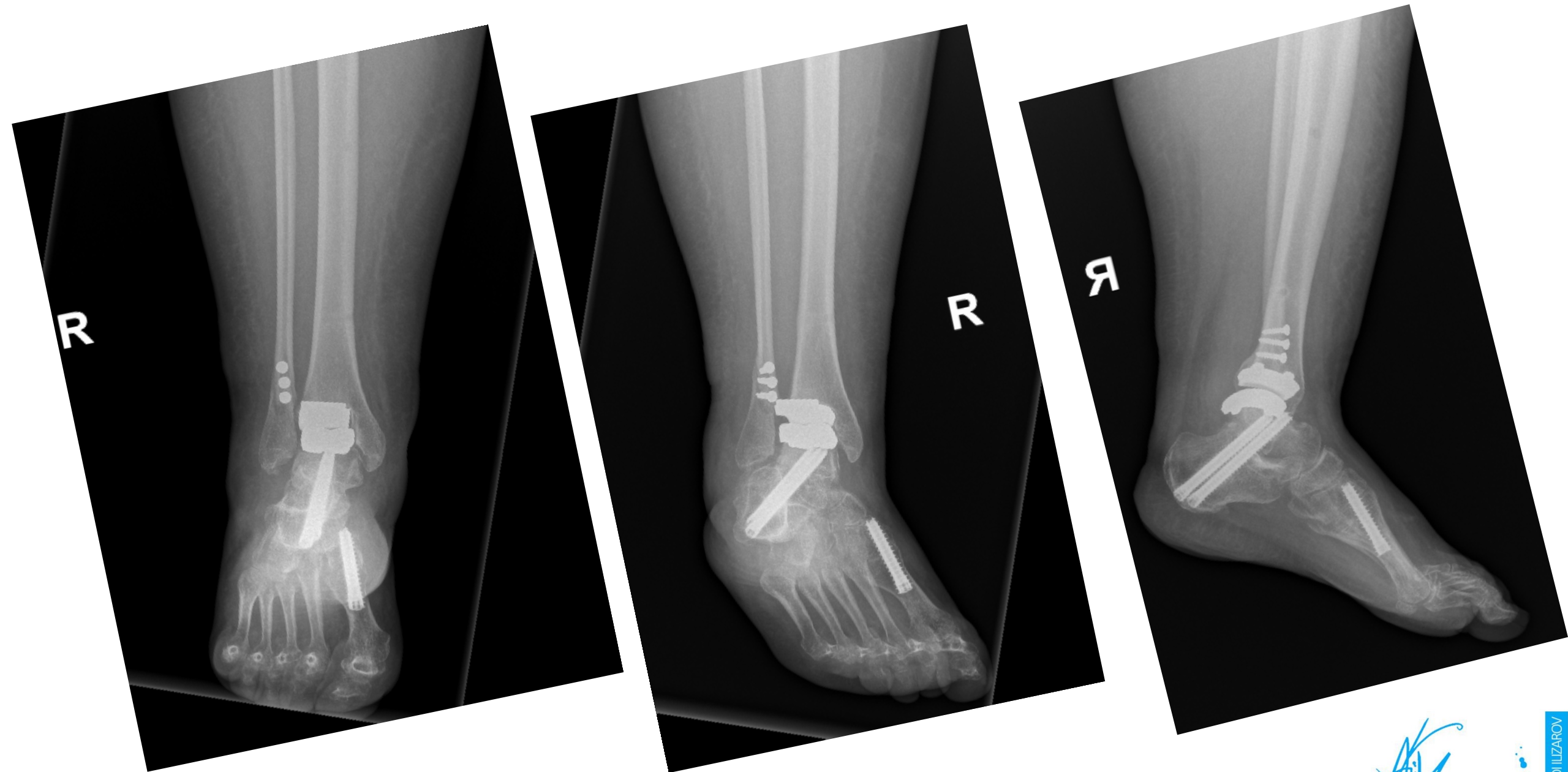




Kirienko A, Malagoli E, Vandenbulcke F.

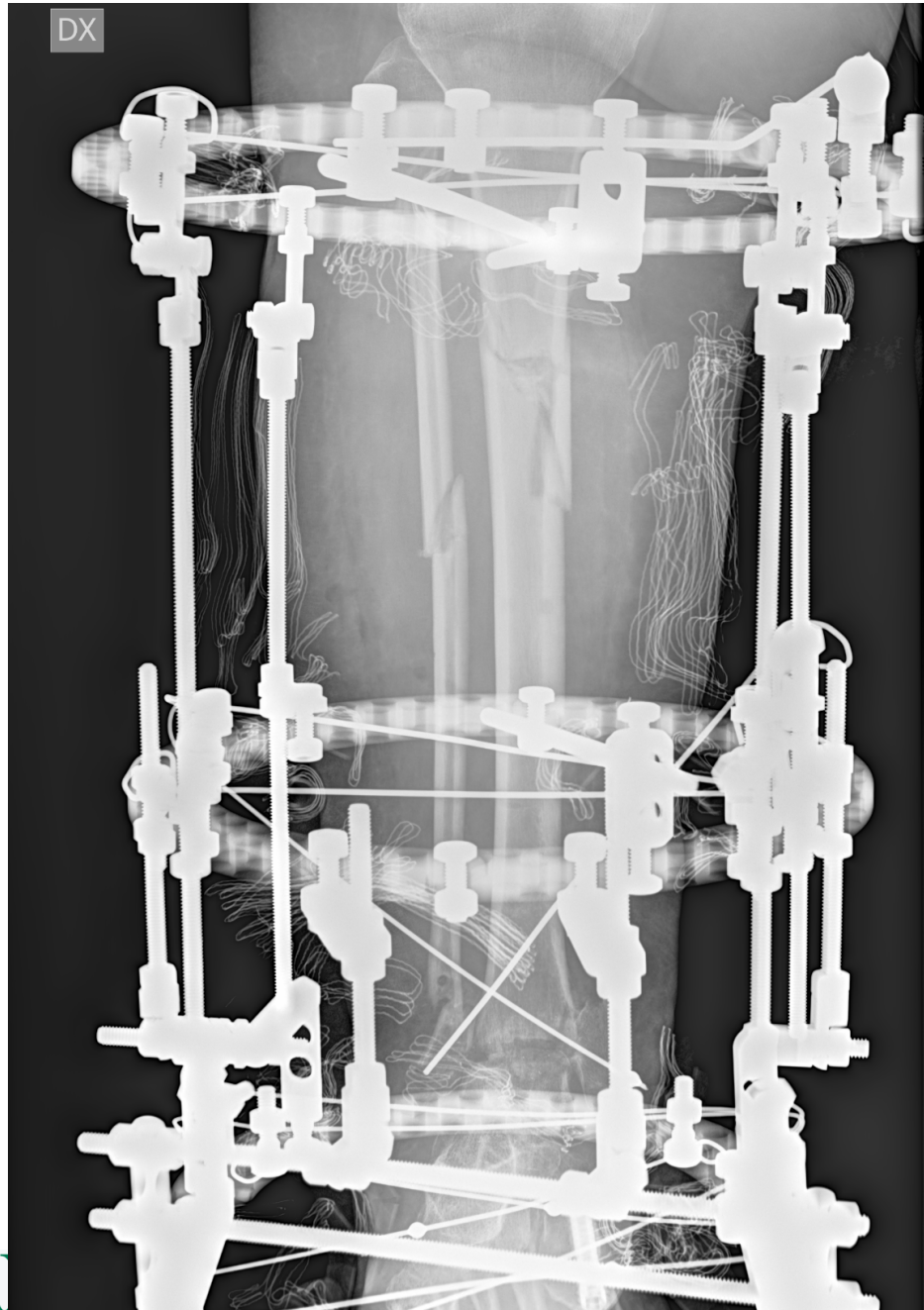


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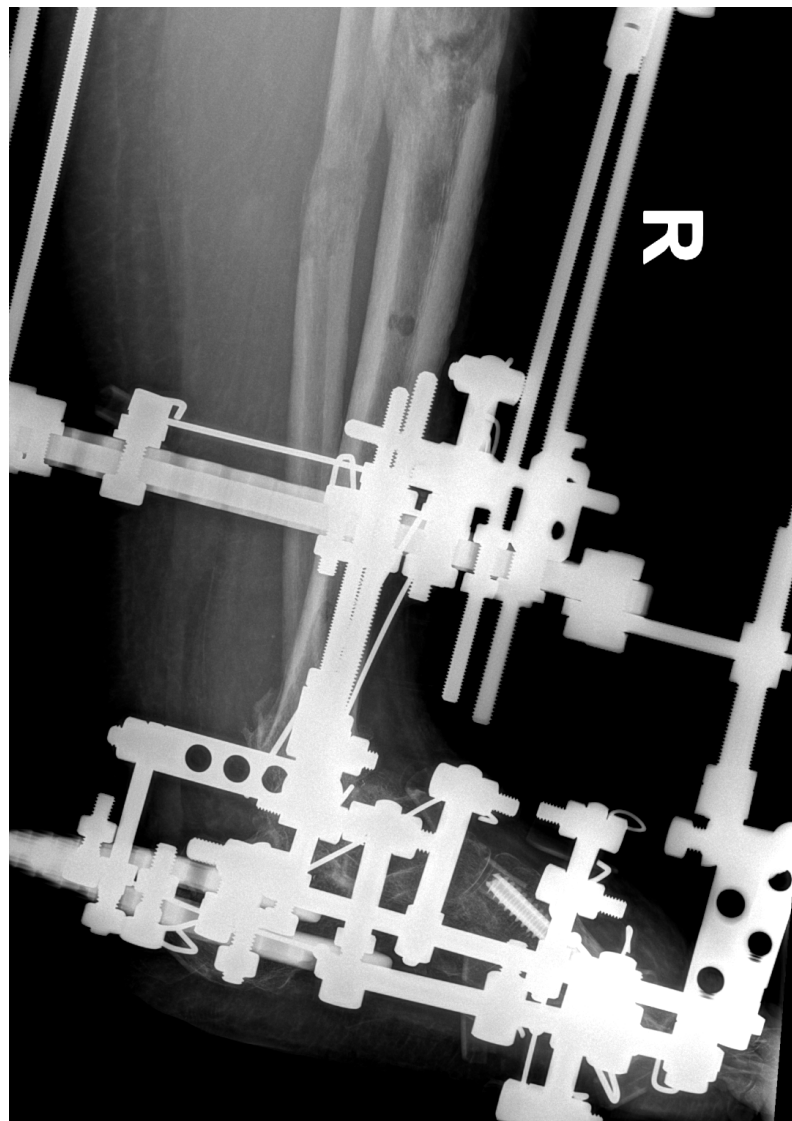




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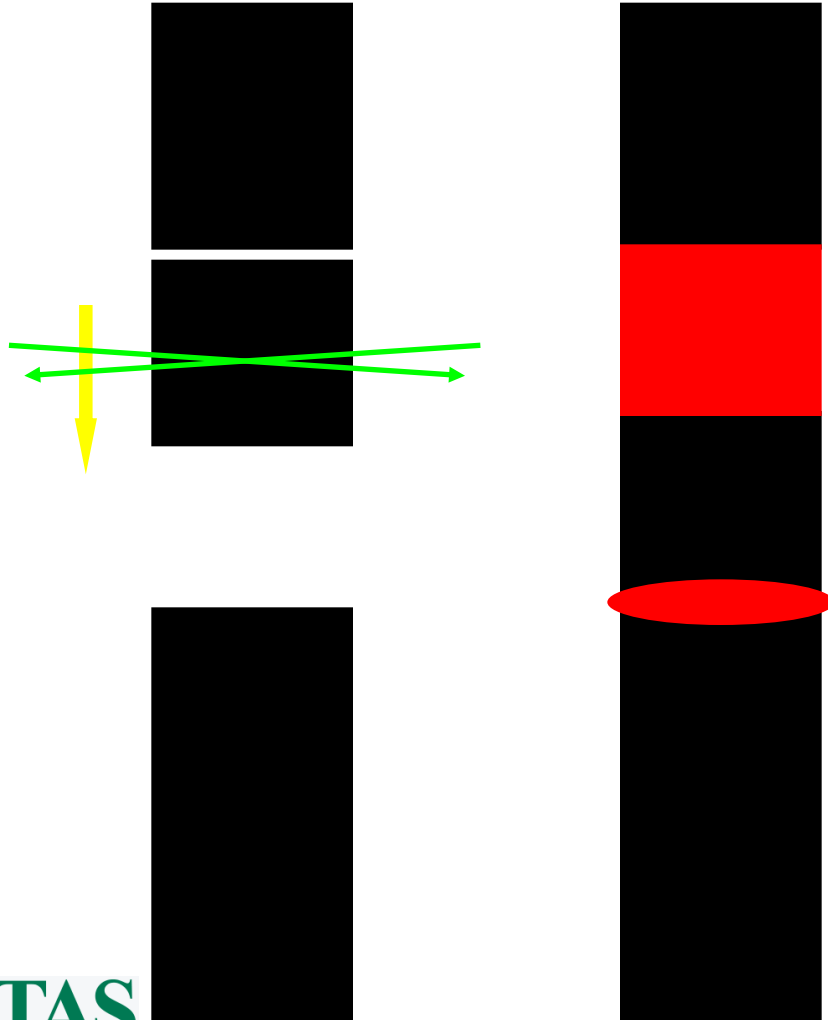






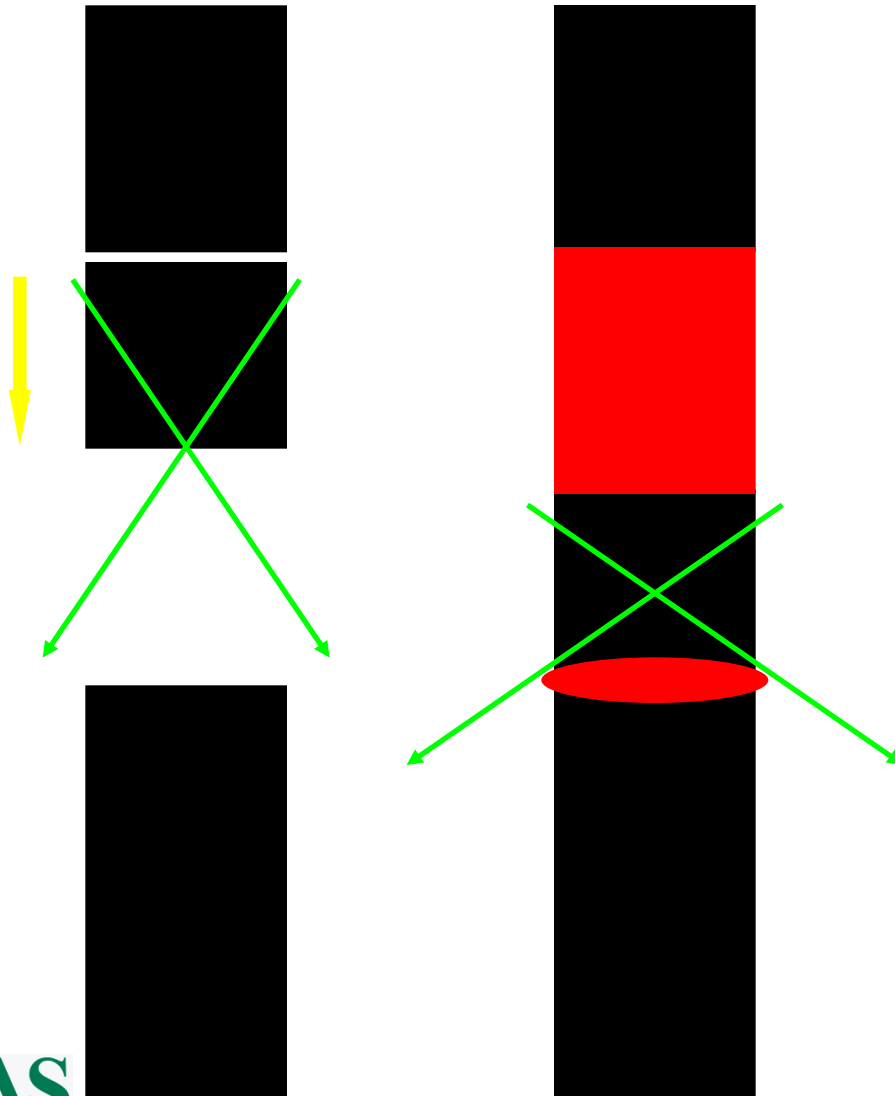


Types of osteosynthesis



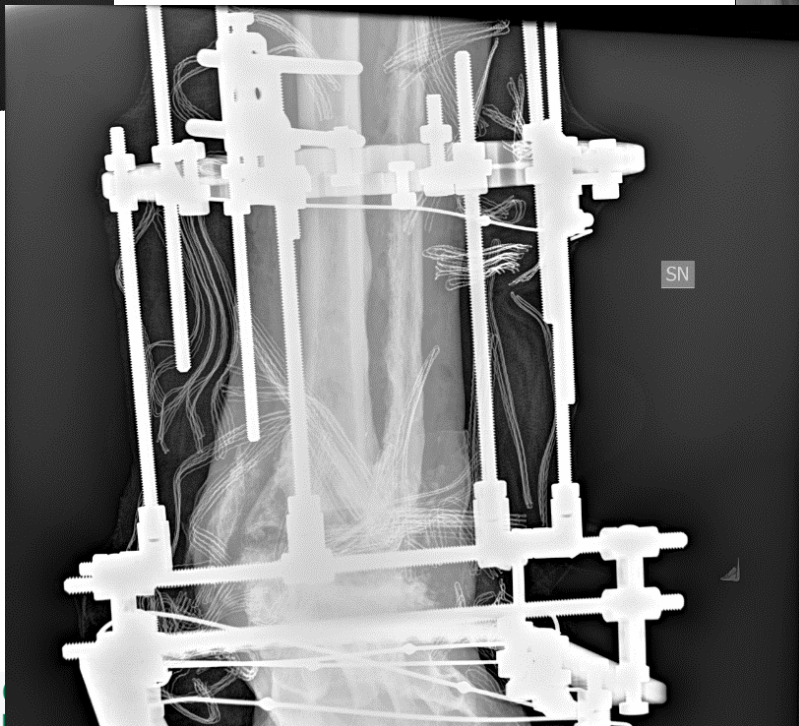
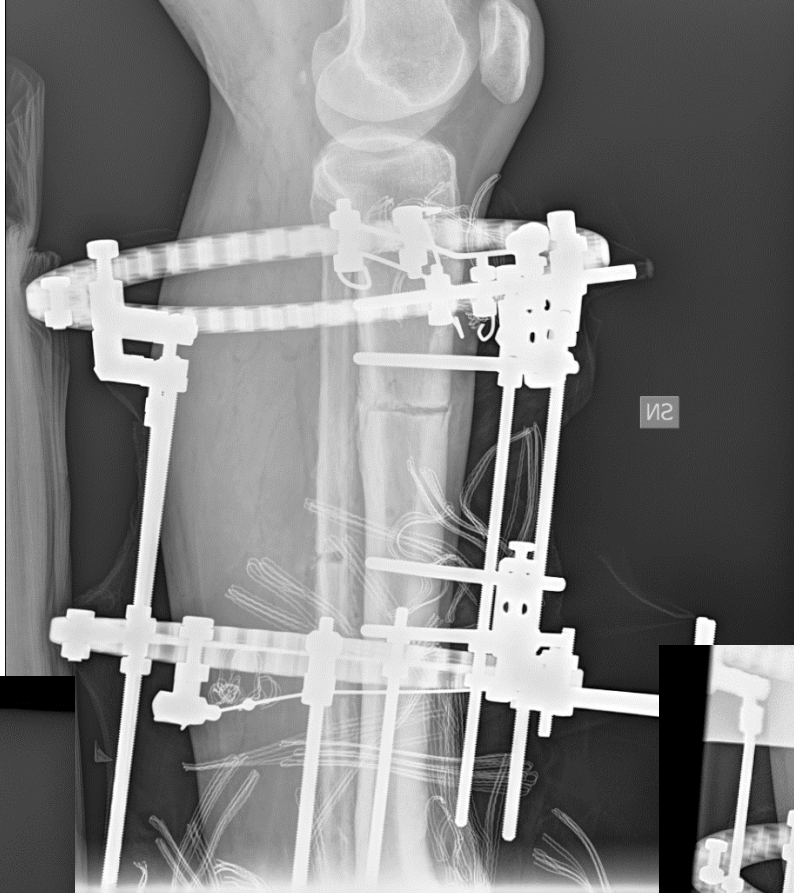
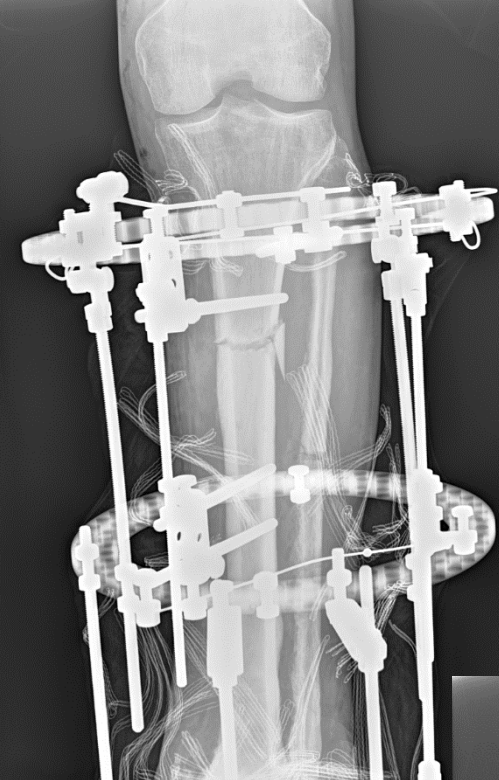
- Bifocal osteosynthesis.
- Distraction and subsequent compression with transverse wires

Types of osteosynthesis



- Bifocal osteosynthesis.
- Distraction and subsequent compression with oblique olive wires



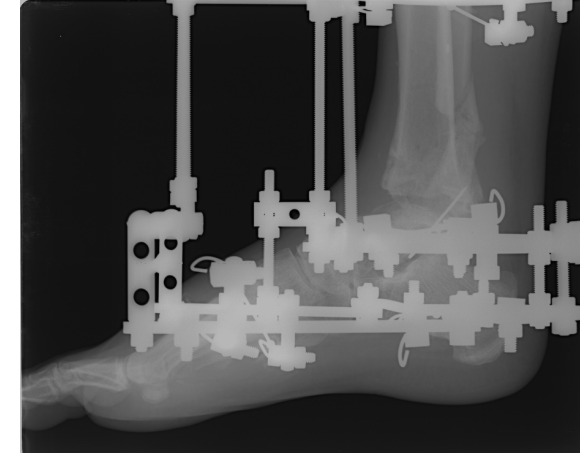


CONCLUSIONS



- PERFECT INDICATION
- NO RISK WITH COMPLICATED PATIENTS

CONCLUSIONS



- ILIZAROV METHOD EFFECTIVE TO SOLVE INFECTION and BONE LOSS PROBLEMS

Orthopade. 2011 Nov;40(11):1008, 1010-2, 1014-7.

[Ankle arthrodesis after failed total ankle replacement].

[Article in German]

Espinosa N, Wirth SH.

Orthopädische Uniklinik Balgrist, Forchstr. 340, CH-8008, Zürich, Schweiz. norman.espinosa@balgrist.ch

A wide-angle, high-angle photograph of the Milan skyline at dusk. The sky is a mix of deep blue and orange from the setting sun. The city lights are visible, with the most prominent feature being the tall, illuminated spire of the Pirella Göttsche Alinari Building (formerly the Pirella Tower) on the left. Other skyscrapers and city buildings are scattered across the horizon and midground, their lights reflecting on the surfaces. The overall atmosphere is vibrant and modern.

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