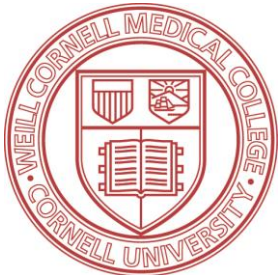


Segmental Defects of Femur: Shortening & then Lengthening Bone Transport

Masters of Disaster: Managing Osteomyelitis in the 21st Century Course
Baltimore, Maryland
August 25, 2016

S. Robert Rozbruch, MD

Chief, Limb Lengthening & Complex Reconstruction Service
HOSPITAL FOR SPECIAL SURGERY
Professor of Clinical Orthopedic Surgery



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Disclosures

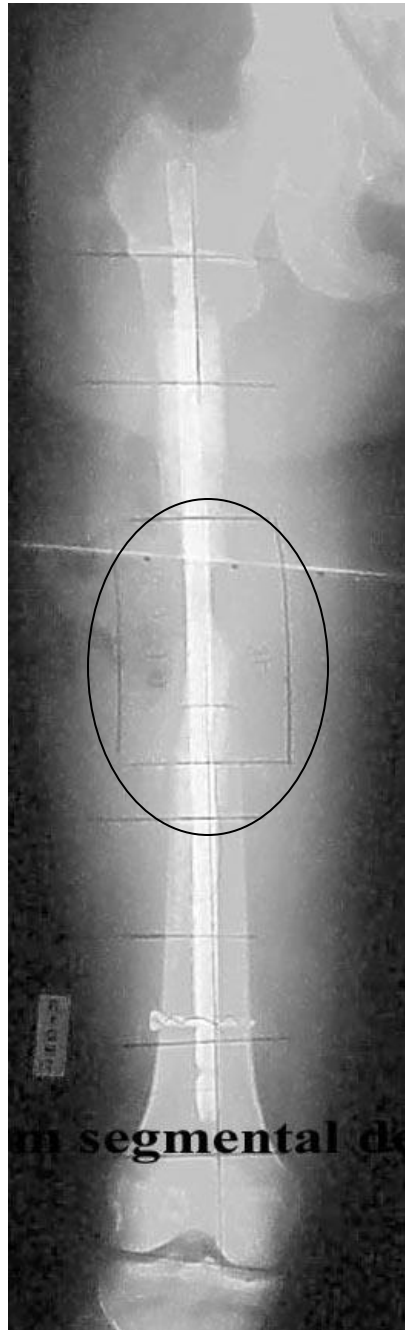
- Smith and Nephew: consultant
- Stryker: consultant, royalties
- Nuvasive/ Ellipse: consultant
- Springer Publishing: book editor

- The FDA has approved the products/devices in my presentation for the uses described

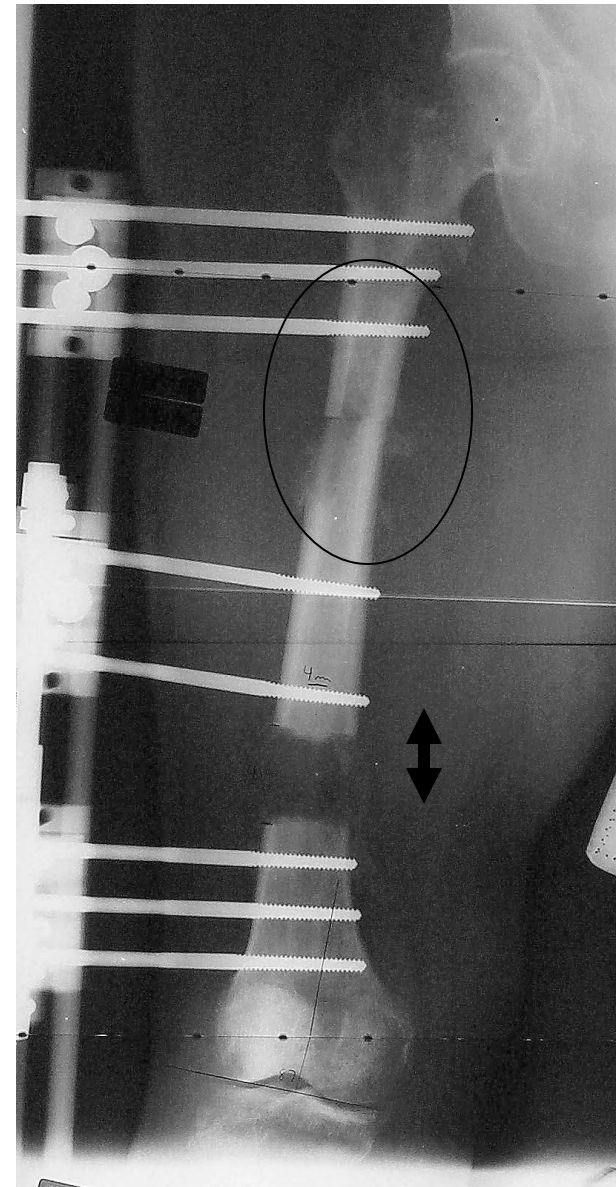
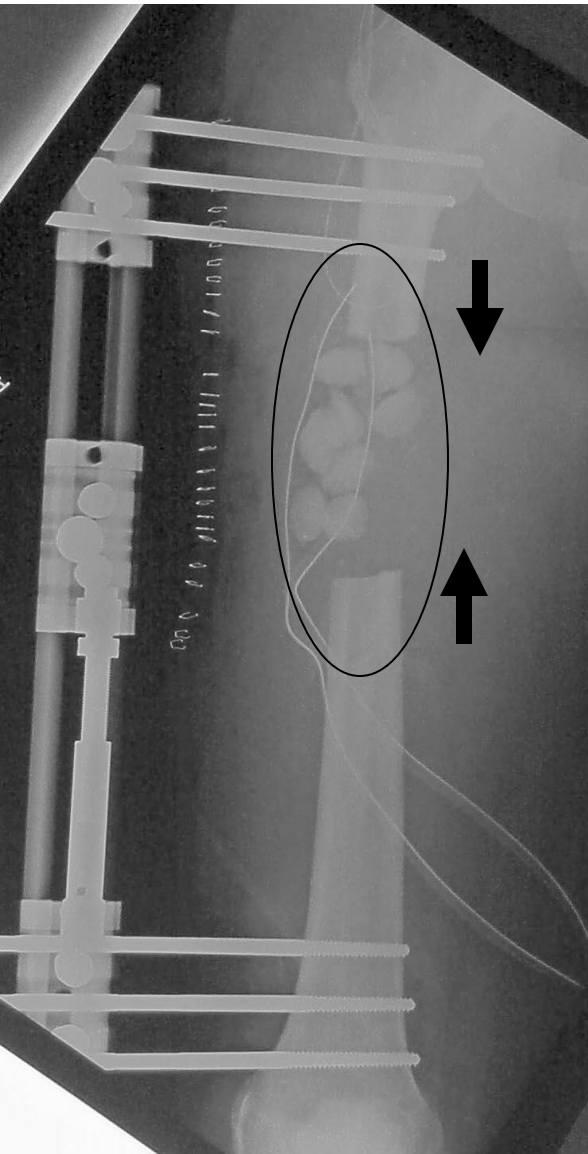
8.5 cm segmental defect, osteomyeli



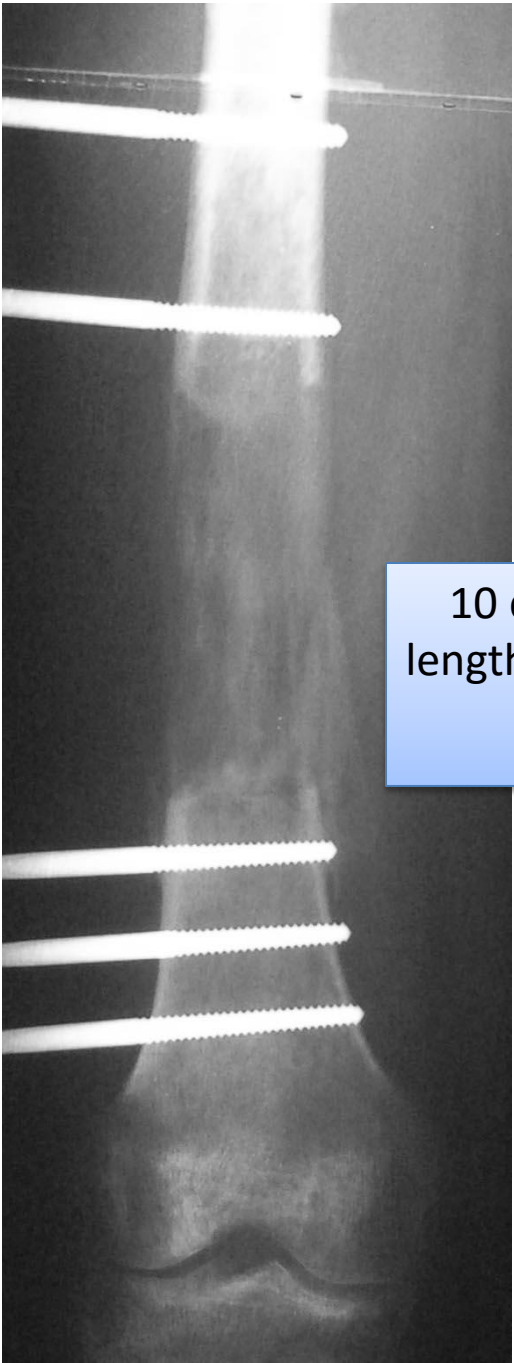
5 cm segmental defect, osteomyelit



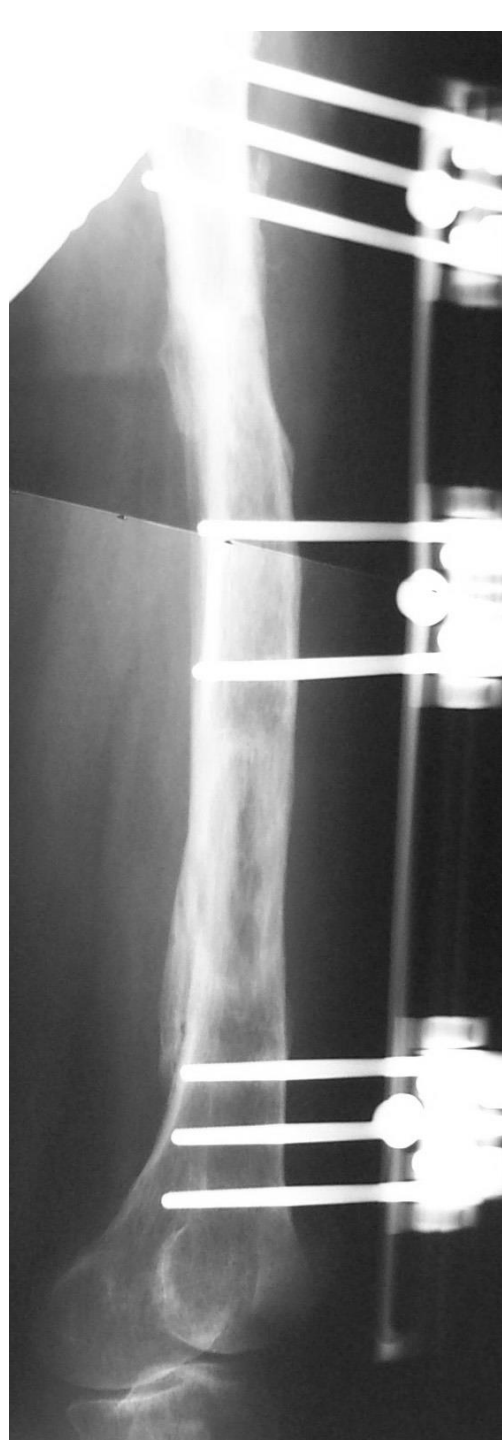
VREF osteomyelitis



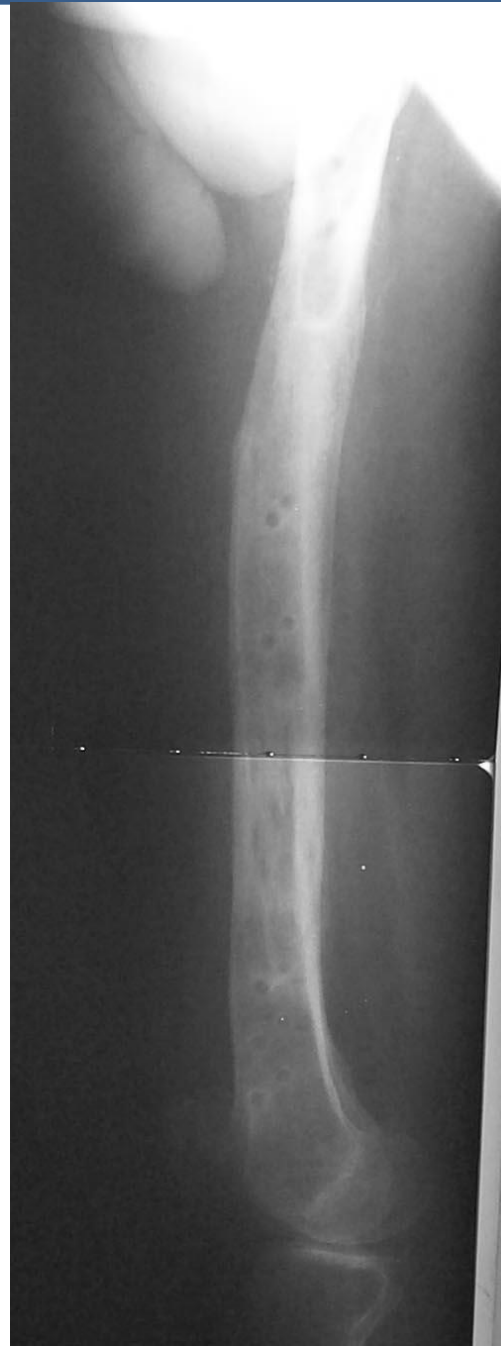
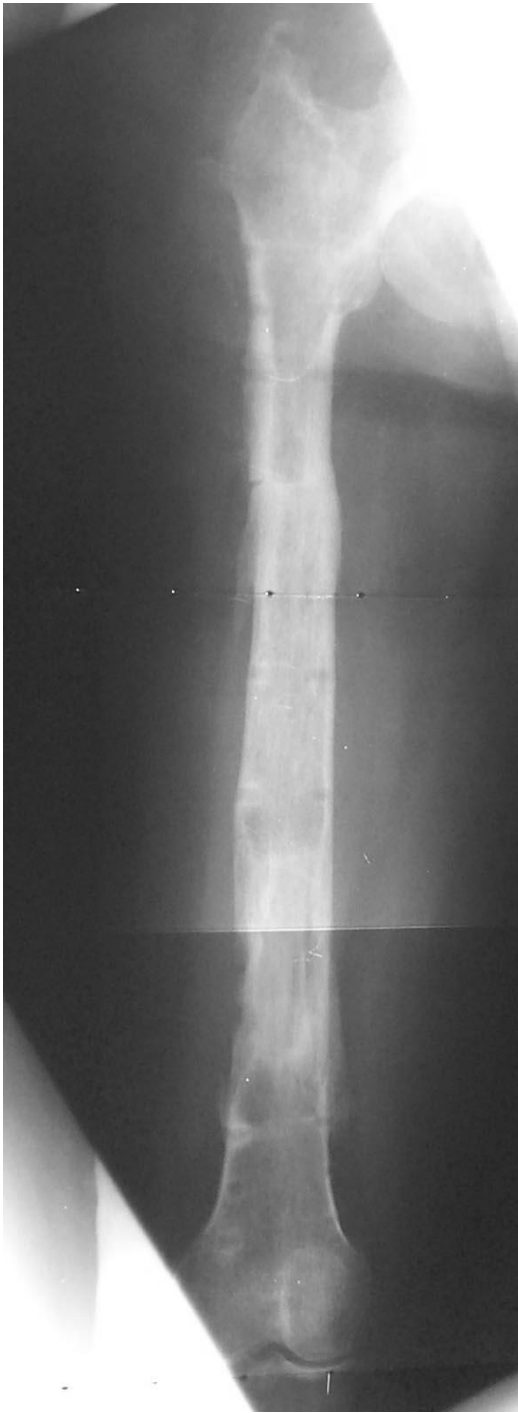
6 months



10 cm lengthening



15 months

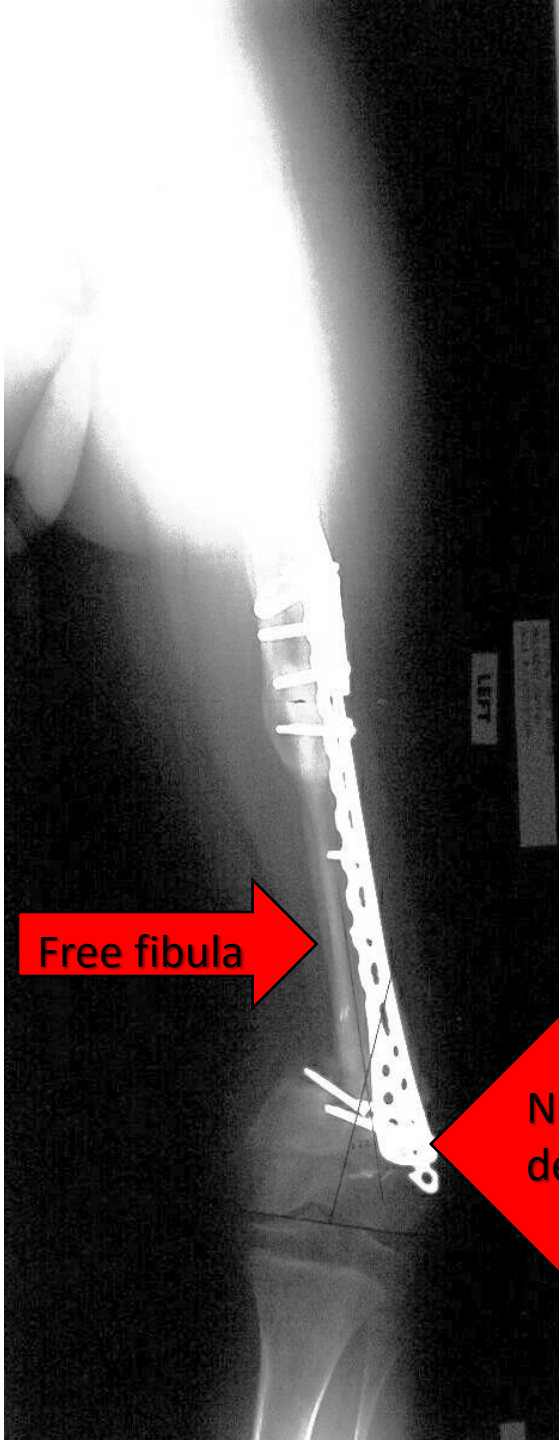


Failed free fibula reconstruction of Osteosarcoma resection



LLD=
6 cm



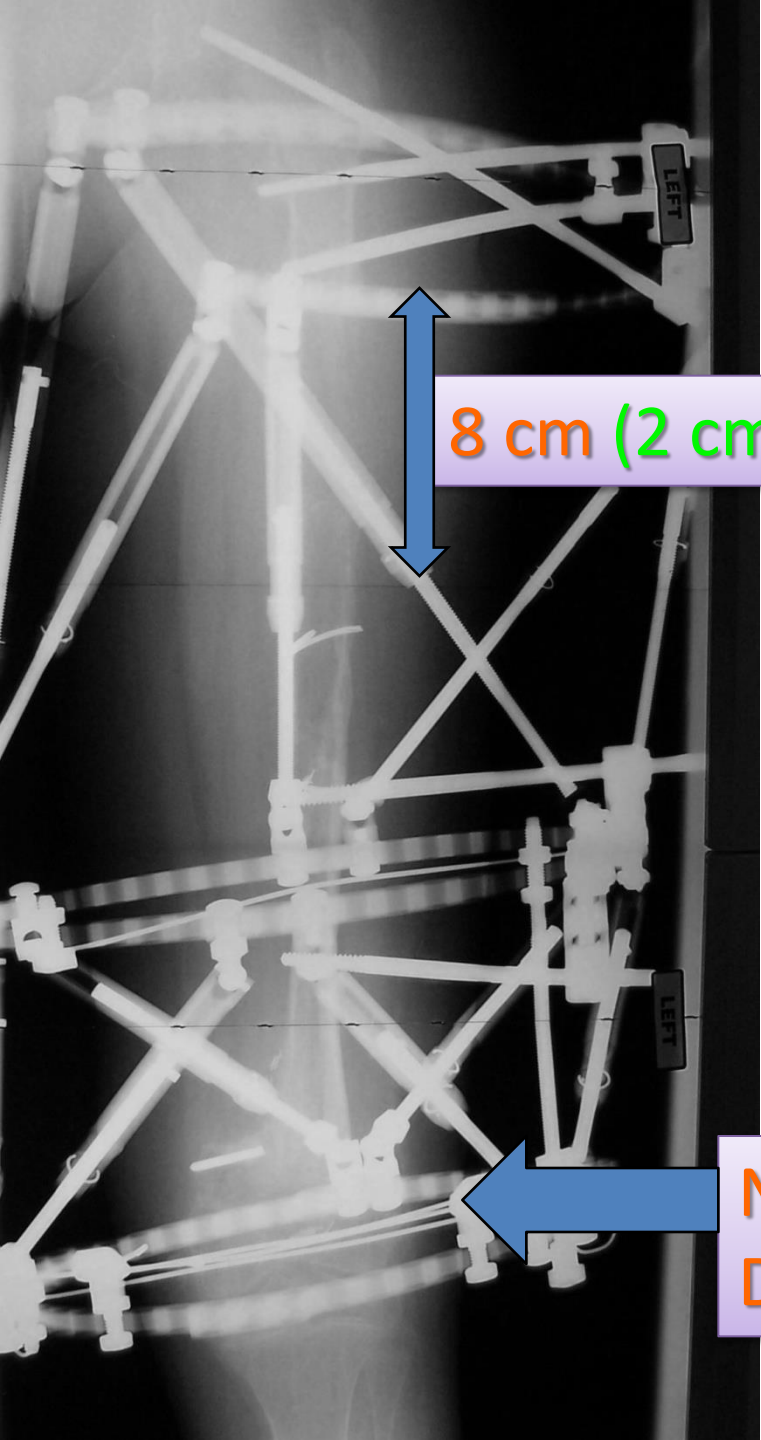


LLD

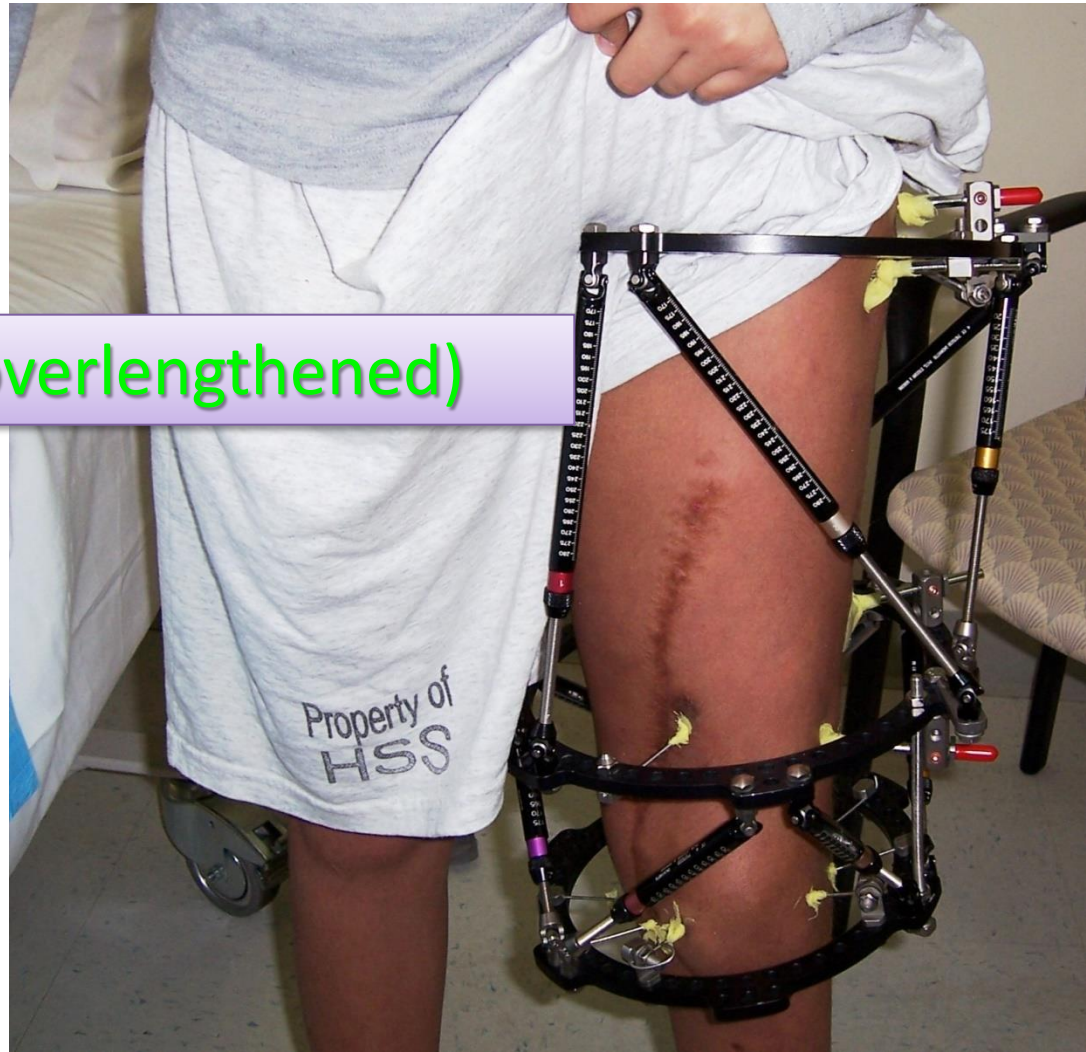
Free fibula

Nonunion +
deformity



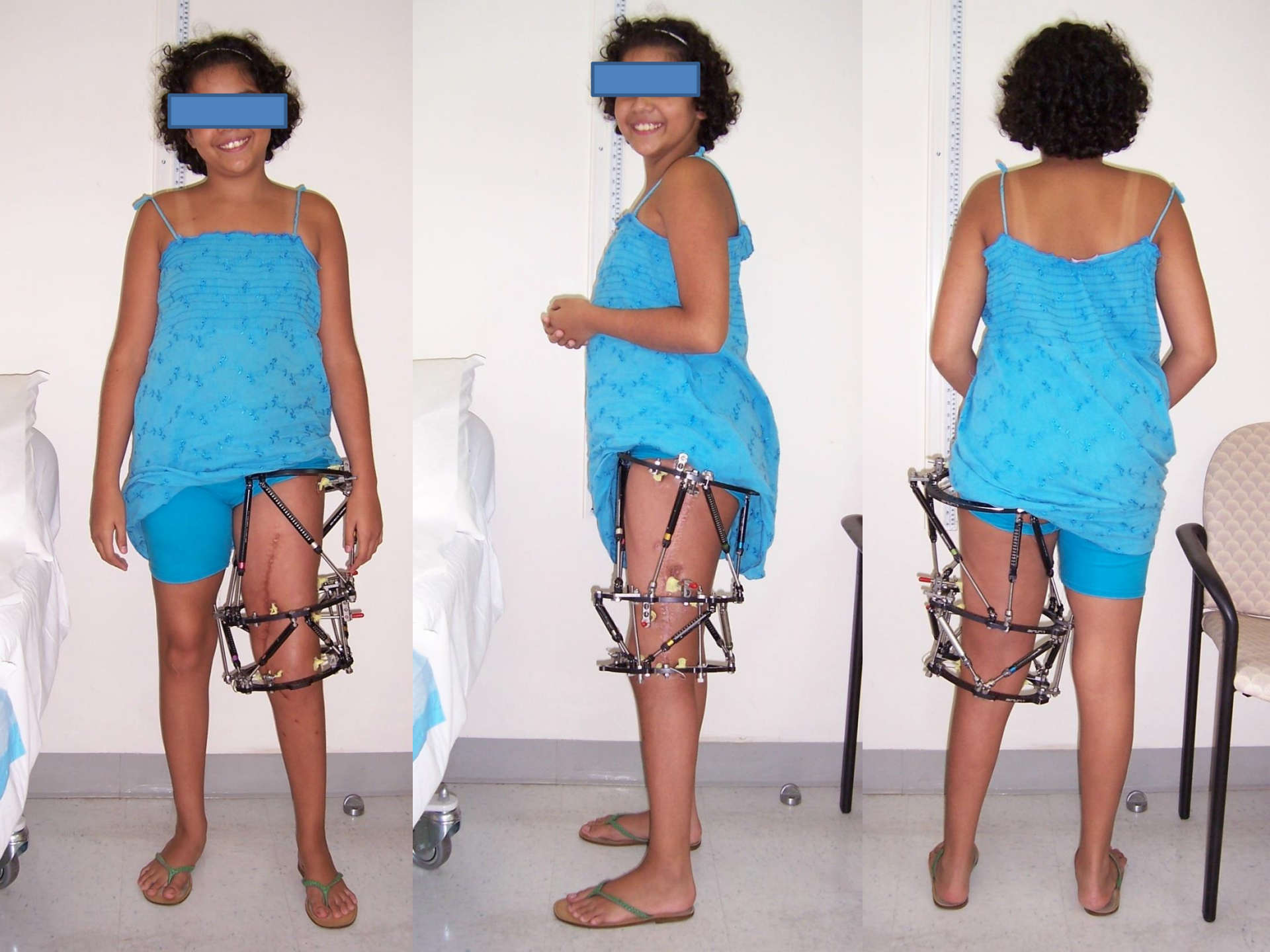


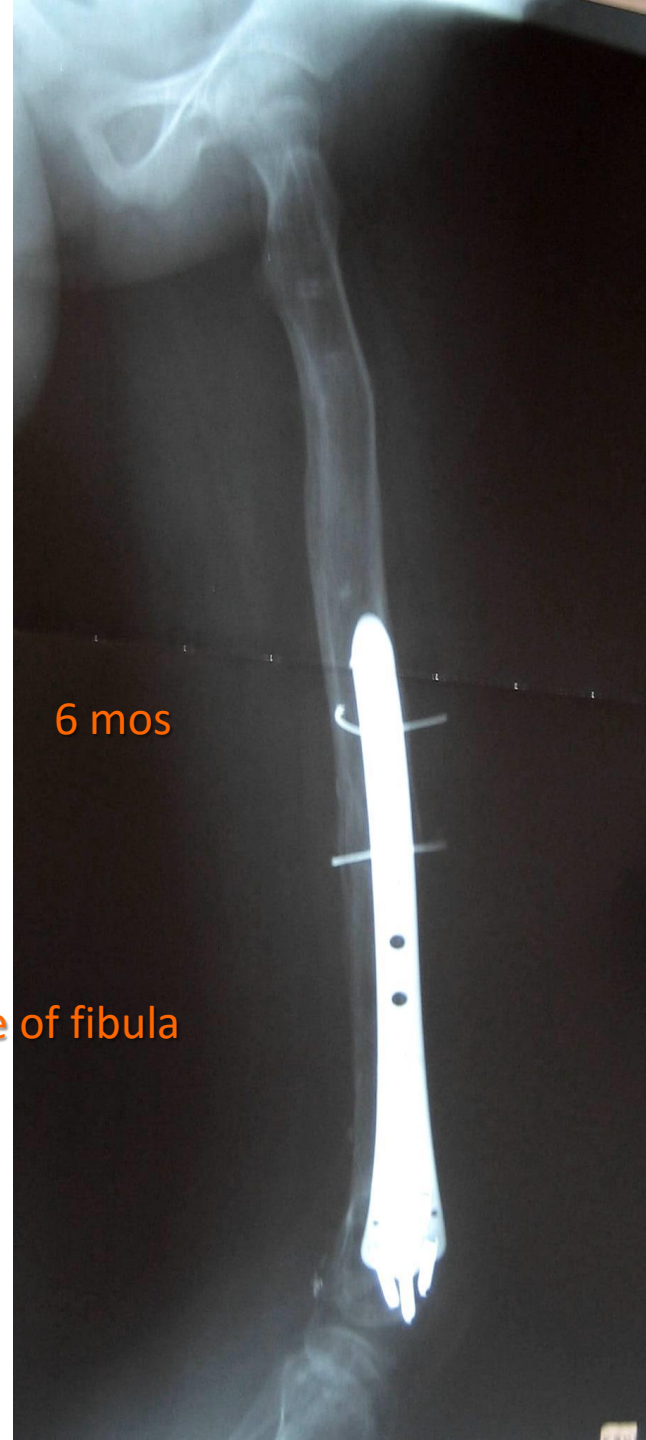
8 cm (2 cm overlengthened)



Nonunion repair
Deformity correction









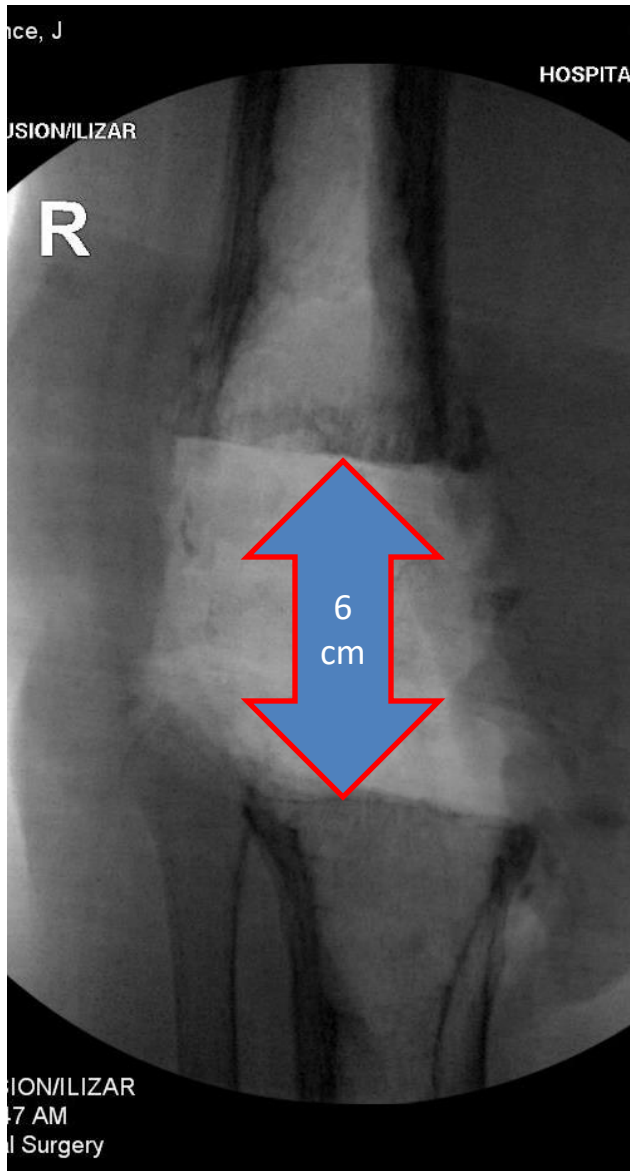


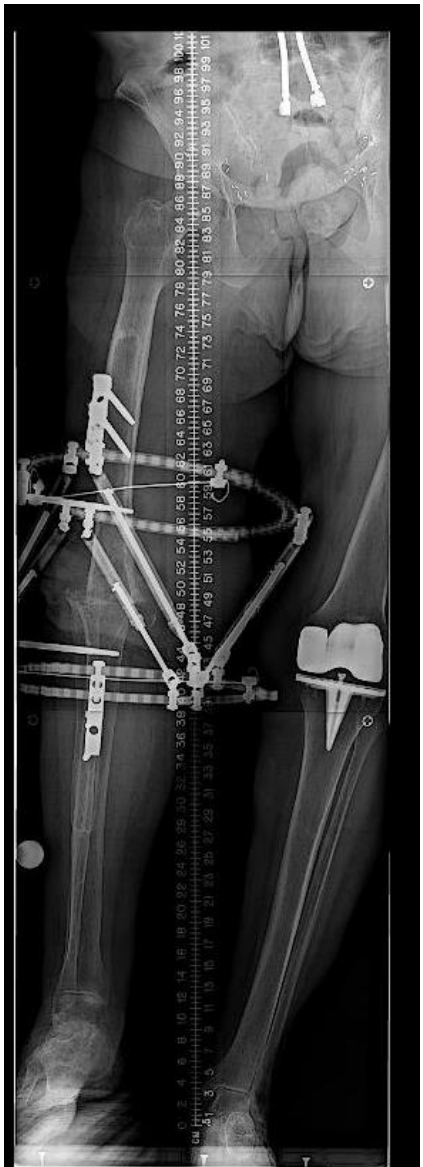
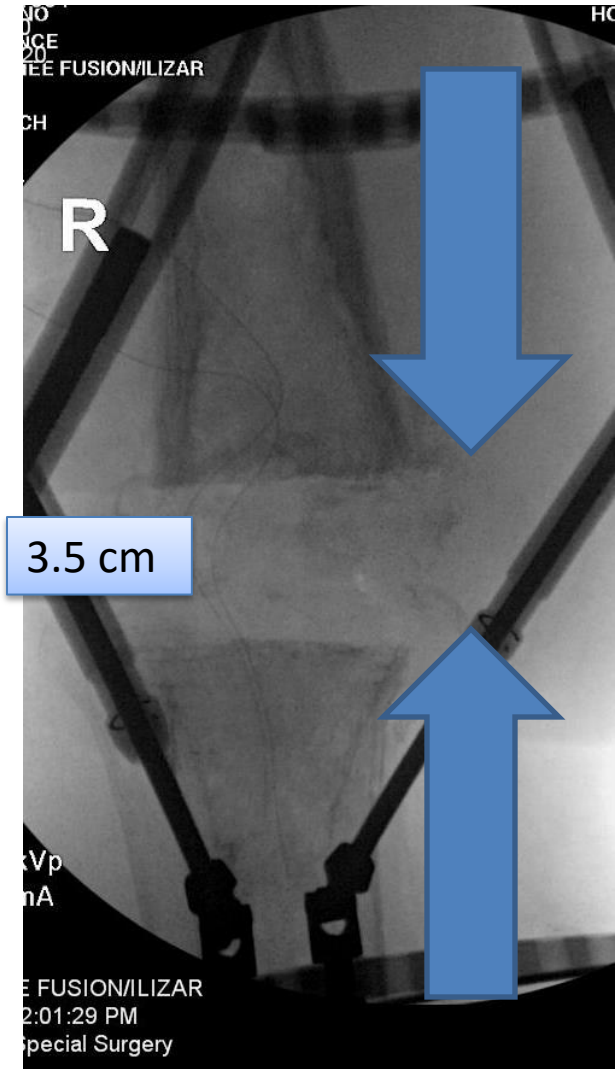
1 year



Failed infected TKR, recurrent







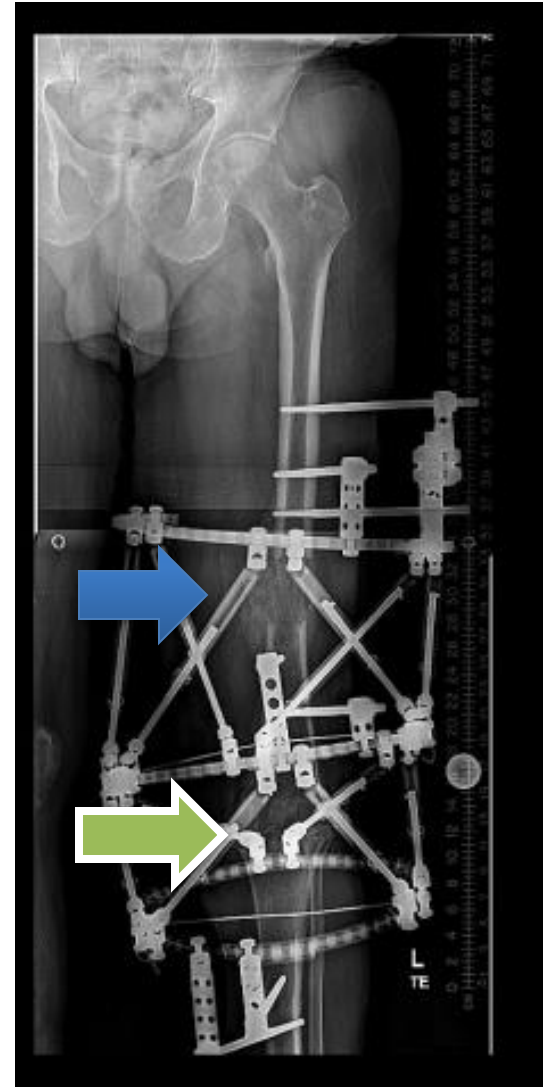
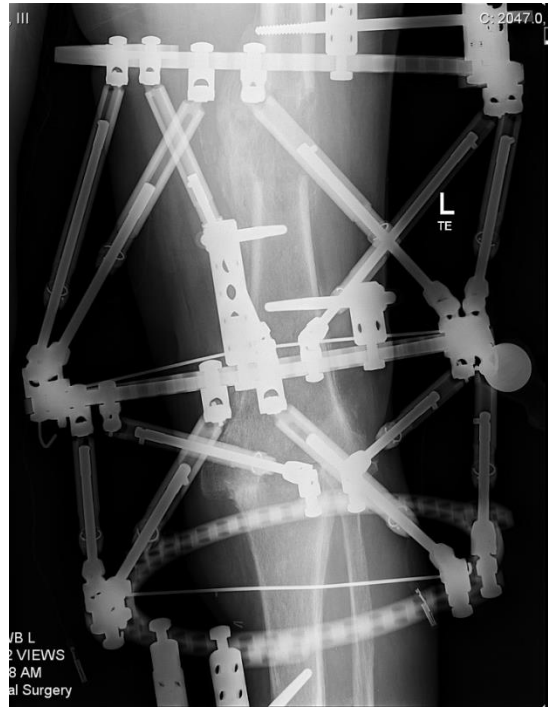
Acute shortening of 2.5 cm followed by gradual shortening of 3.5 cm



Staged insertion of antx coated IM nail after 6 weeks; use shoe lift for LLD

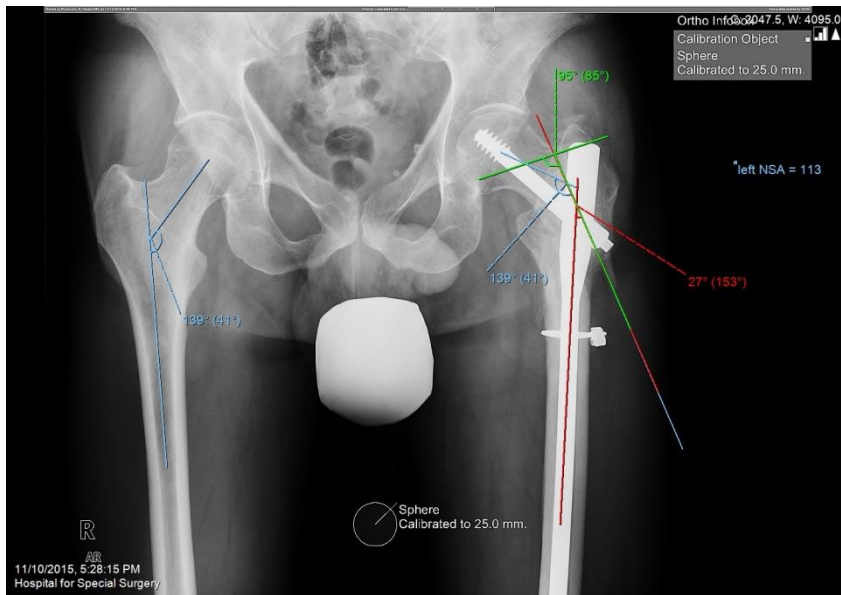
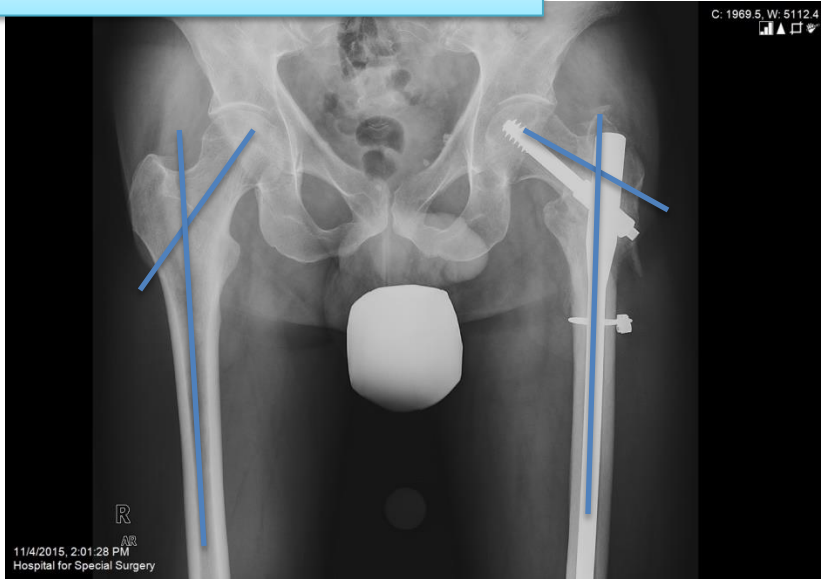
Fungus and bacterial osteomyelitis

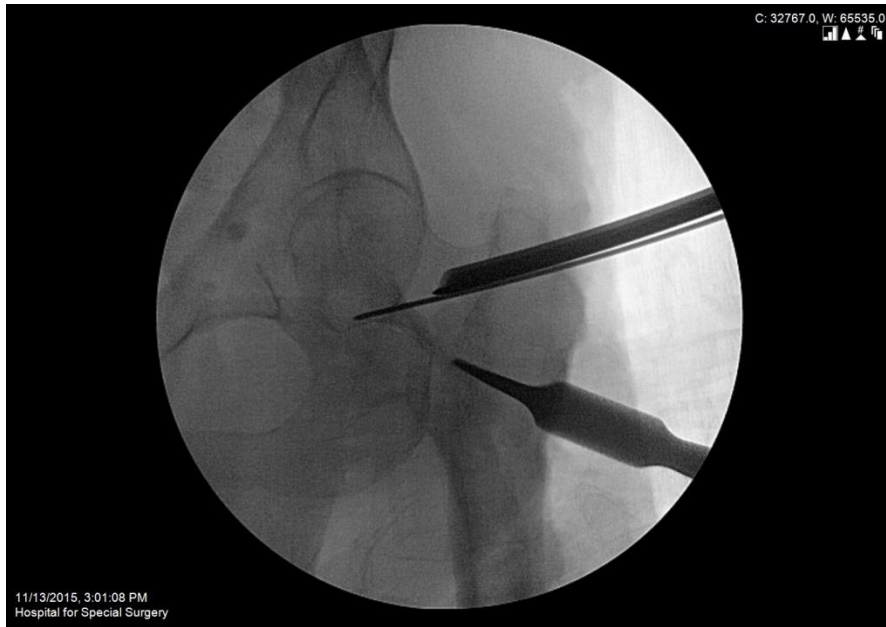






LLD 2.5 cm, varus malunion

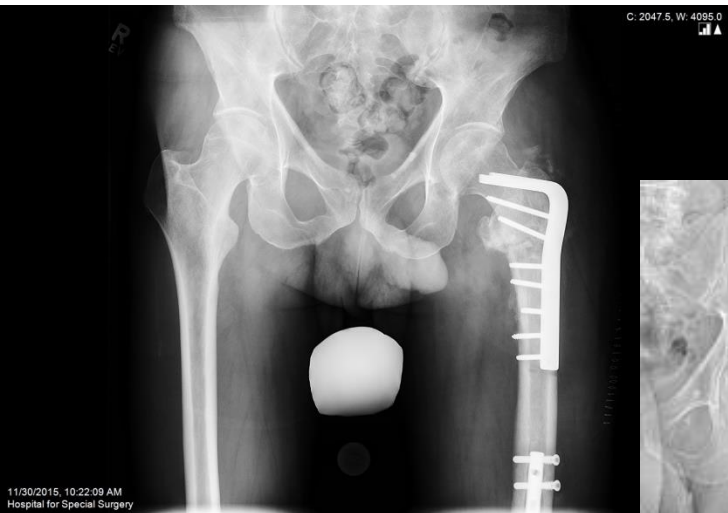




1. Proximal femur osteotomy with blade plate
2. Retrograde femur lengthening With internal nail



11/30/2015, 10:22:09 AM
Hospital for Special Surgery







Neonatal hip sepsis
 LLD = 43 mm
 Painful unstable hip



Residual LLD of 25 mm
After THR

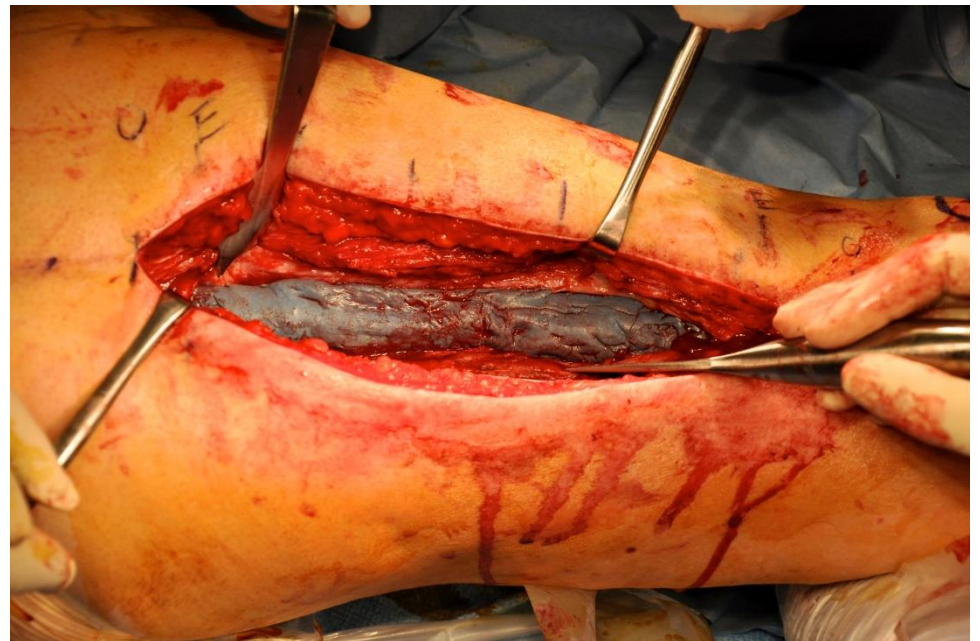
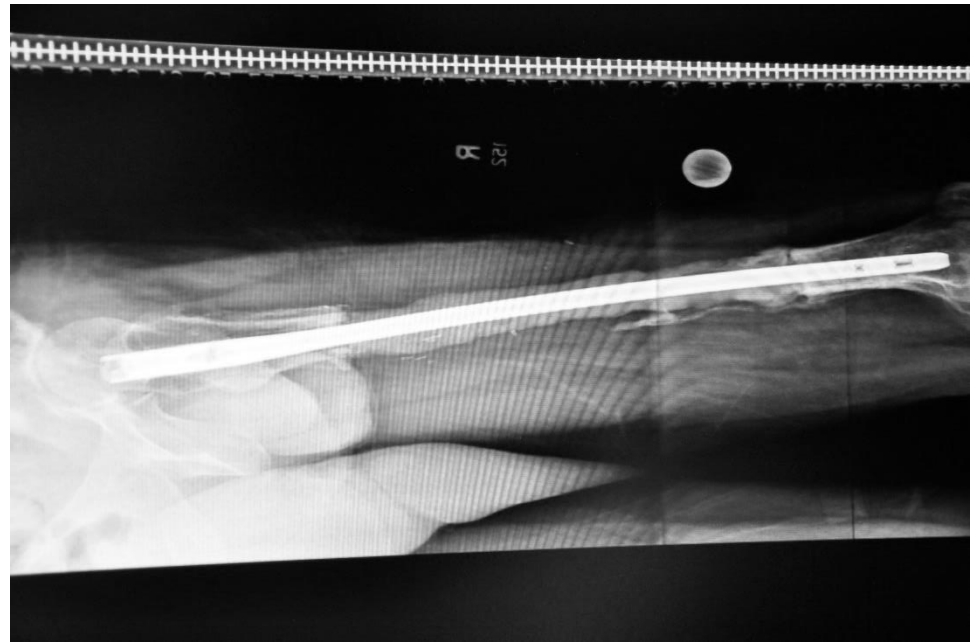
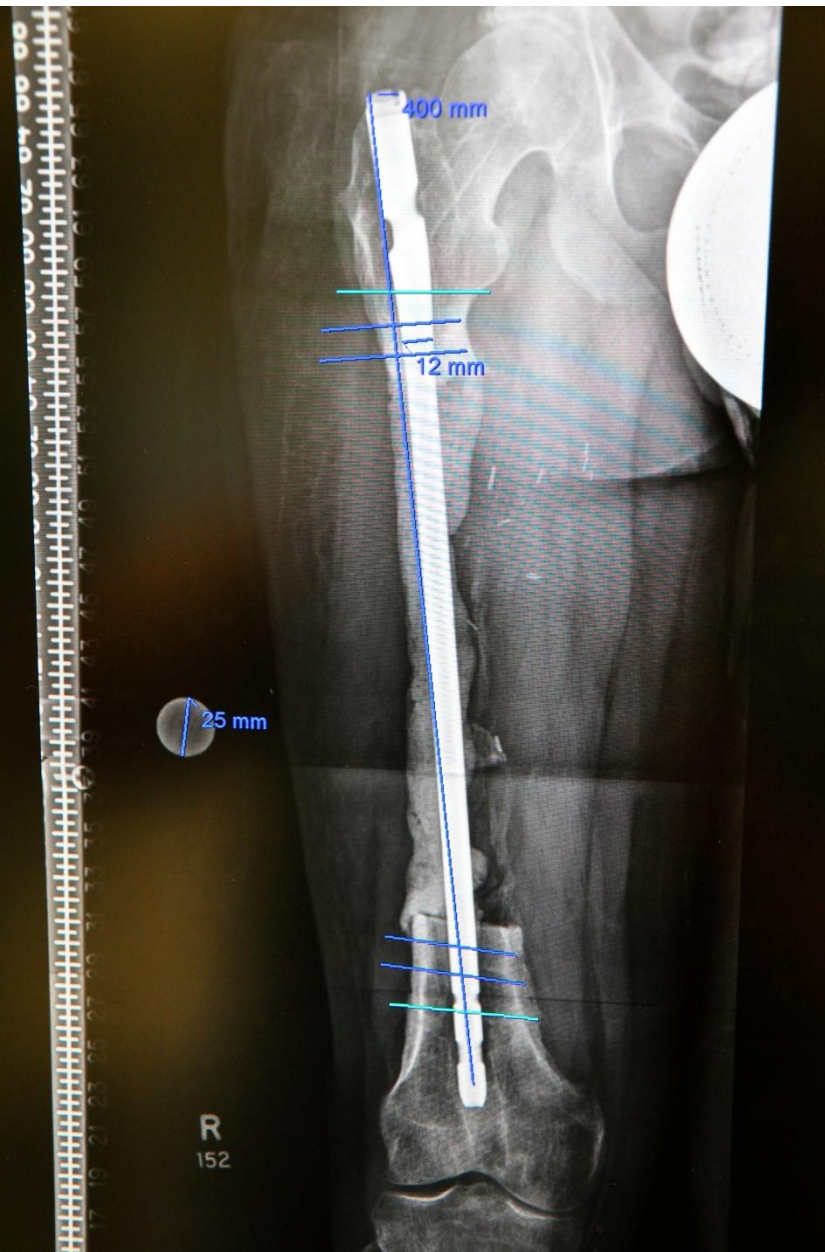
Difficult to predict exact lengthening
To be gained with THR

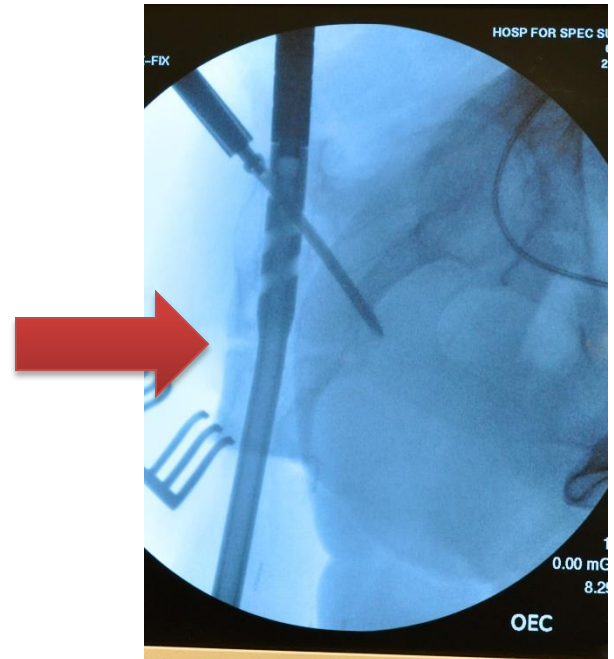
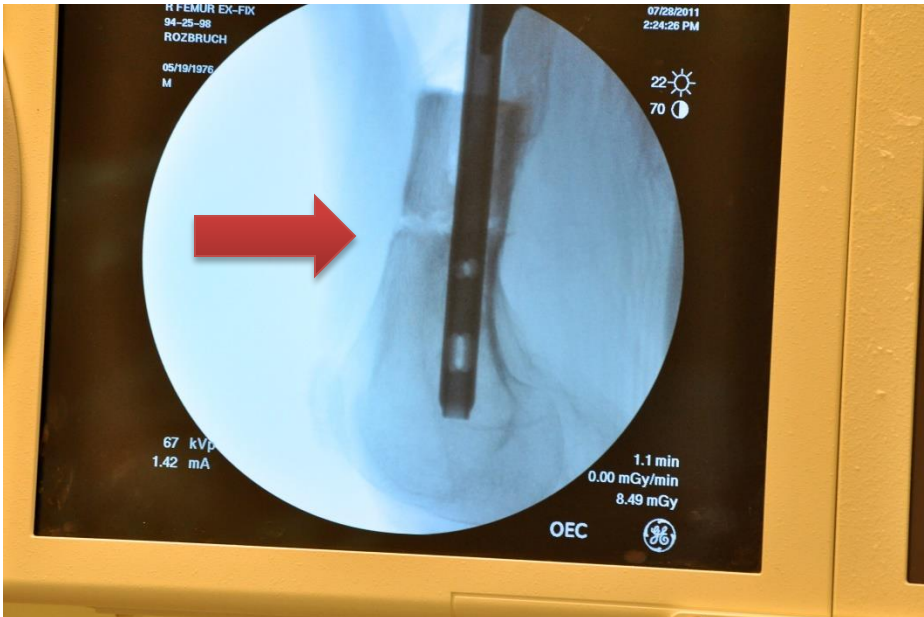
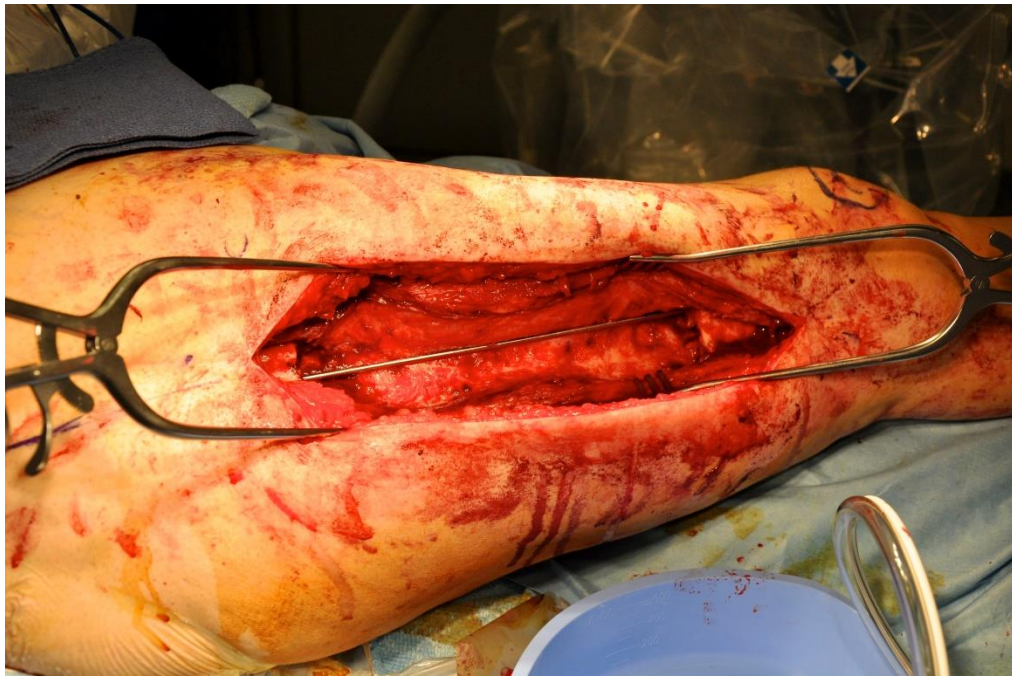


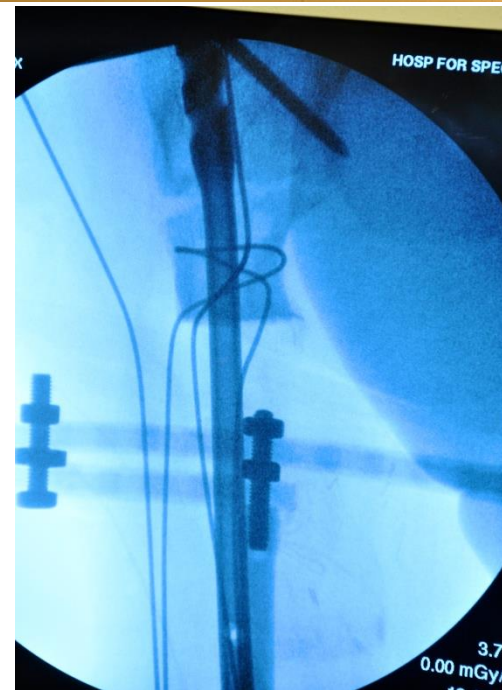
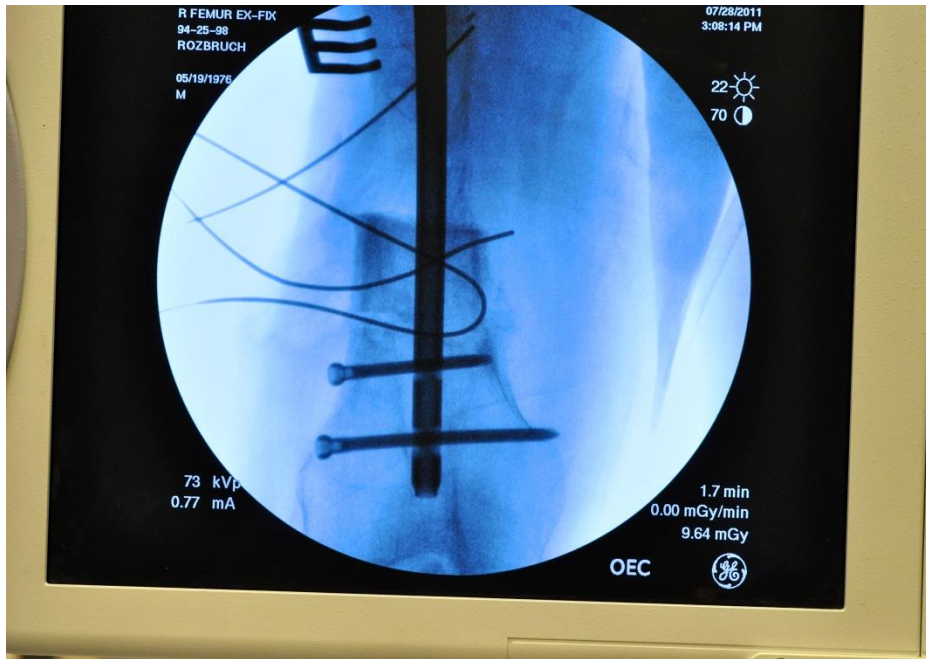
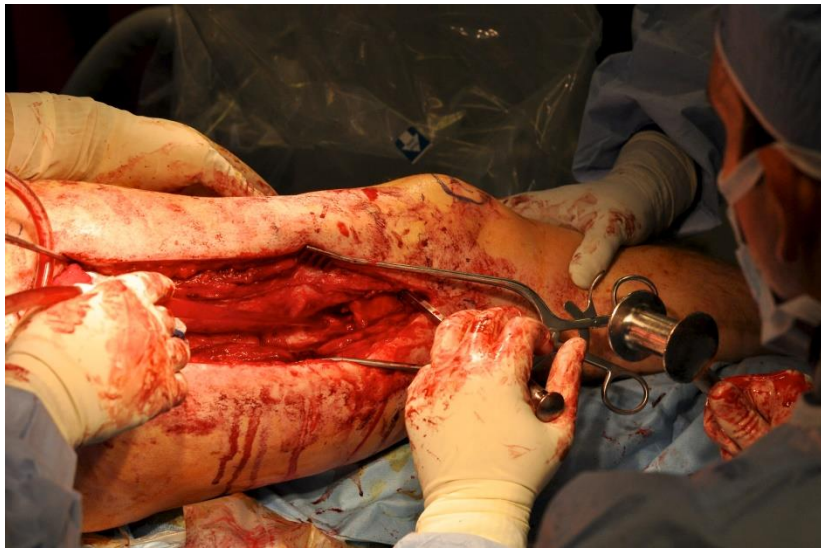
RETROGRADE
INTERNAL
LENGTHENING NAIL

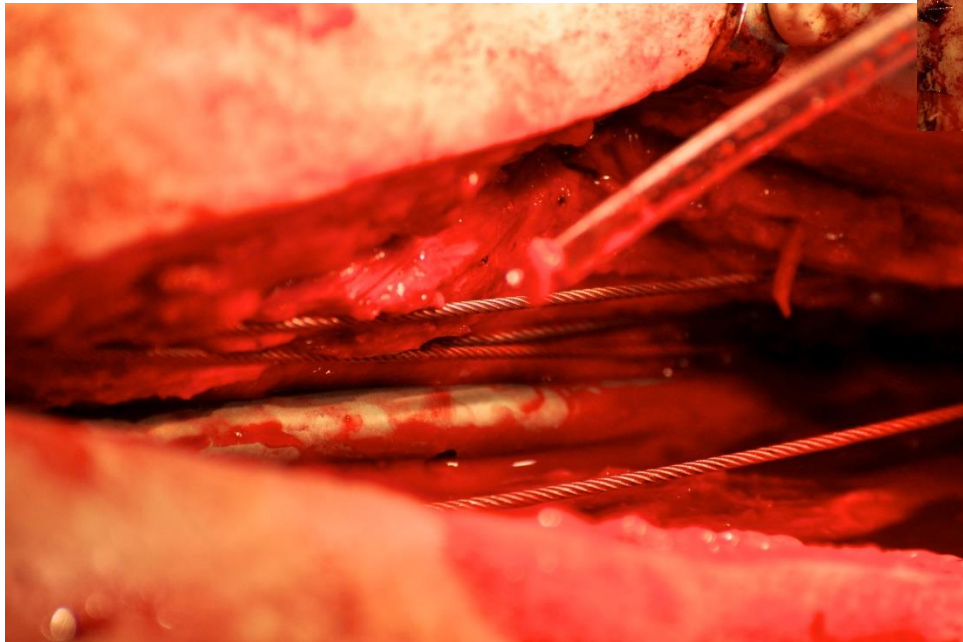
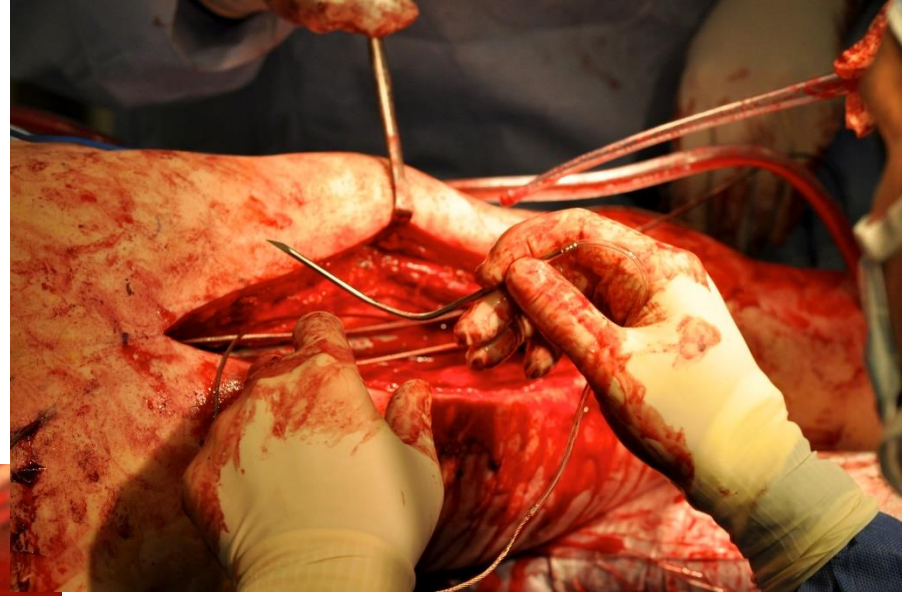
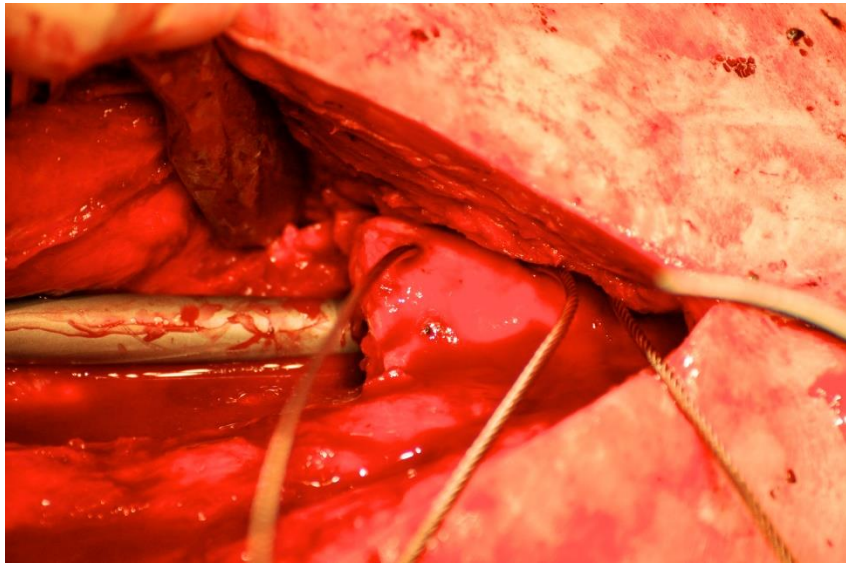


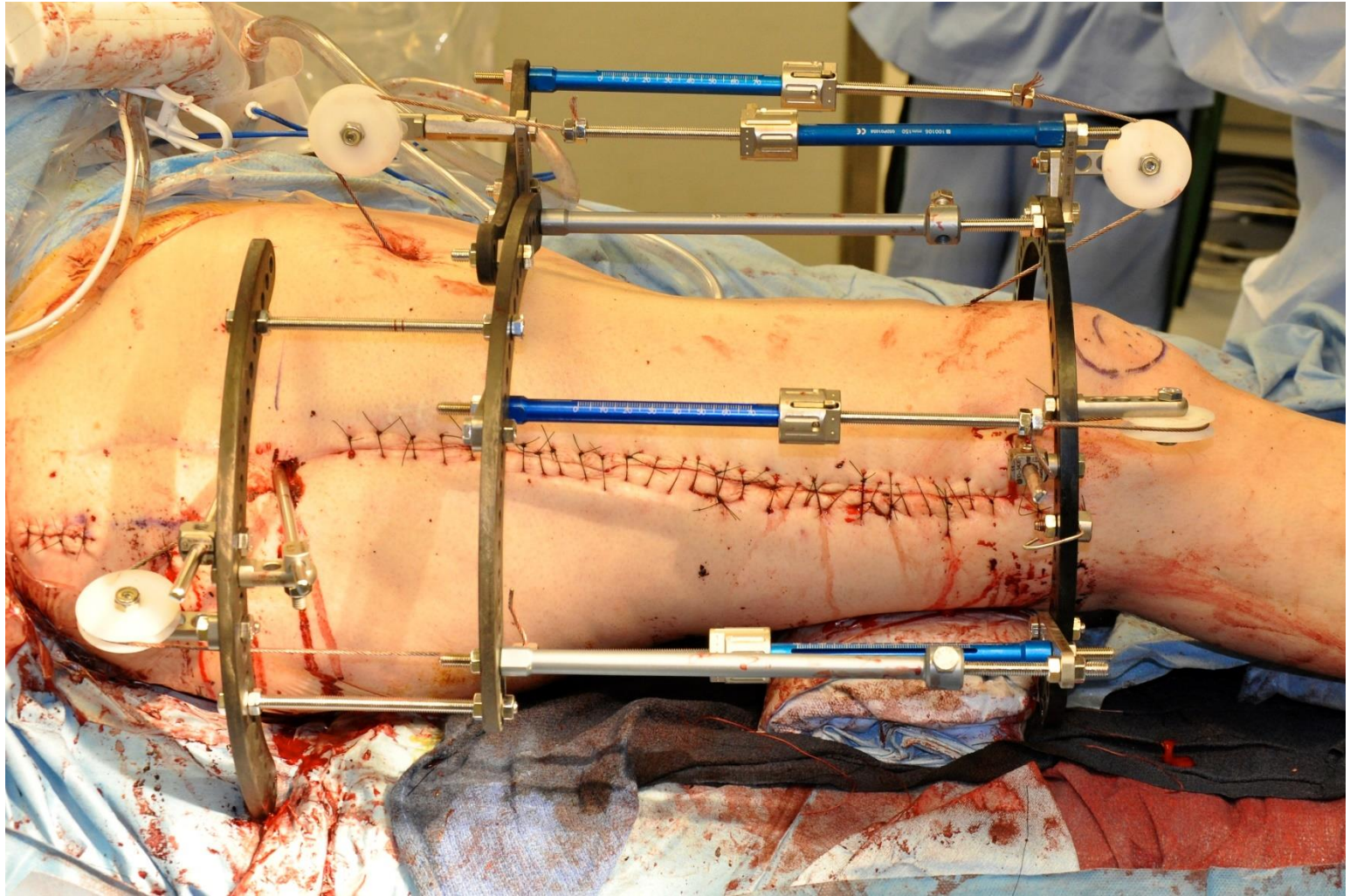
21 cm bone defect
s/p infection
Cement over rod
Offered hip
disarticulation or
total femur
prosthesis

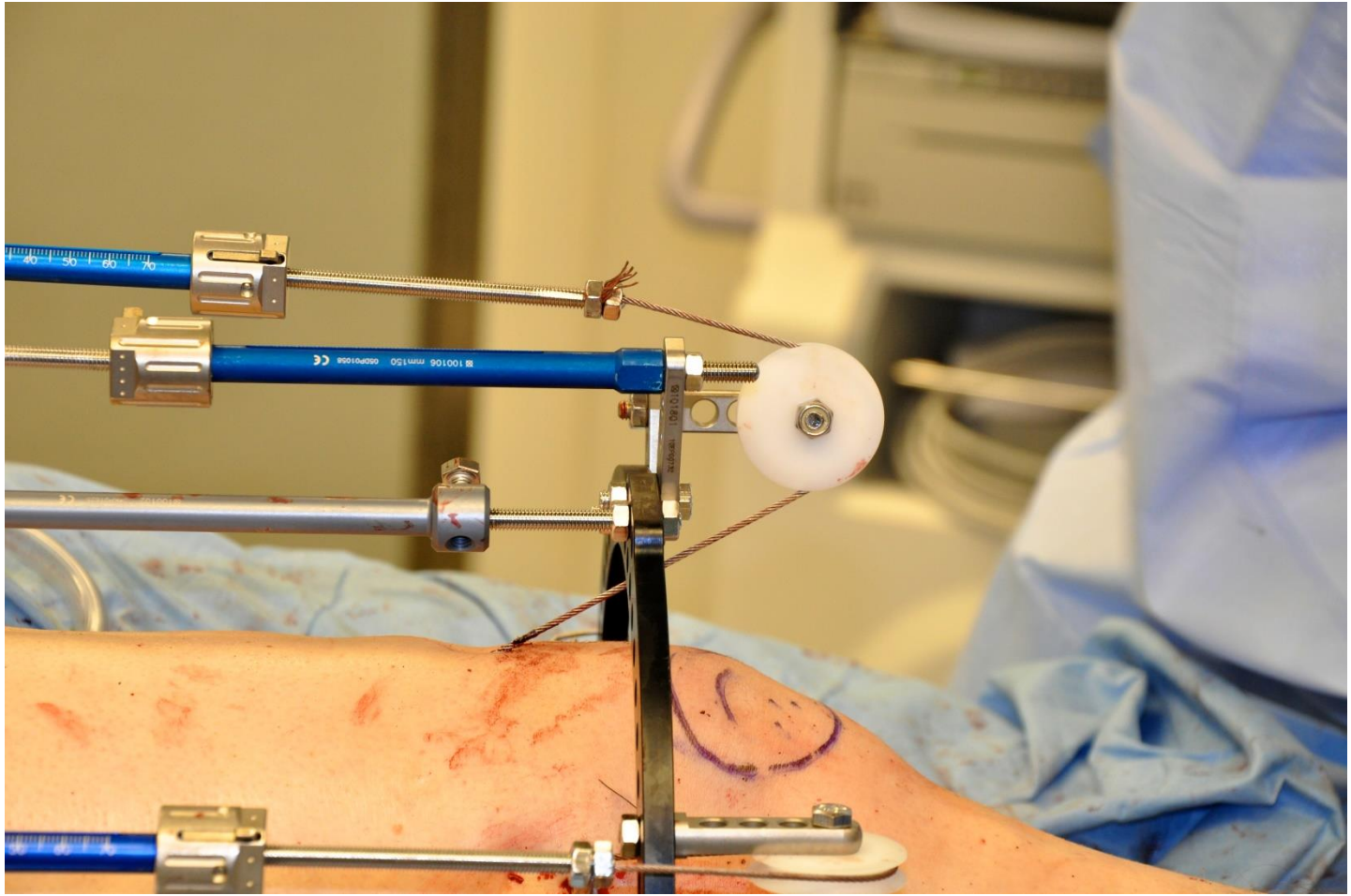


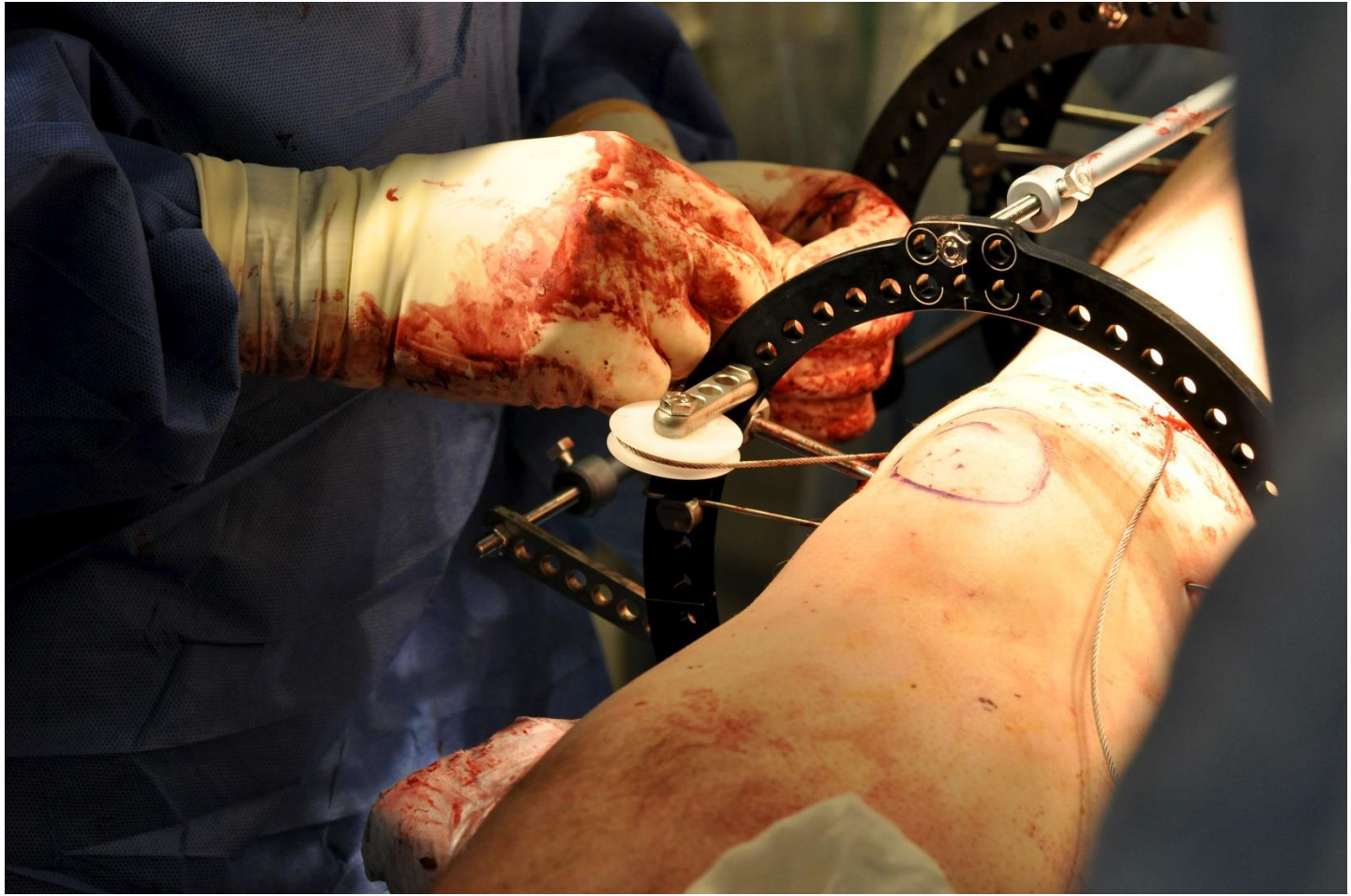


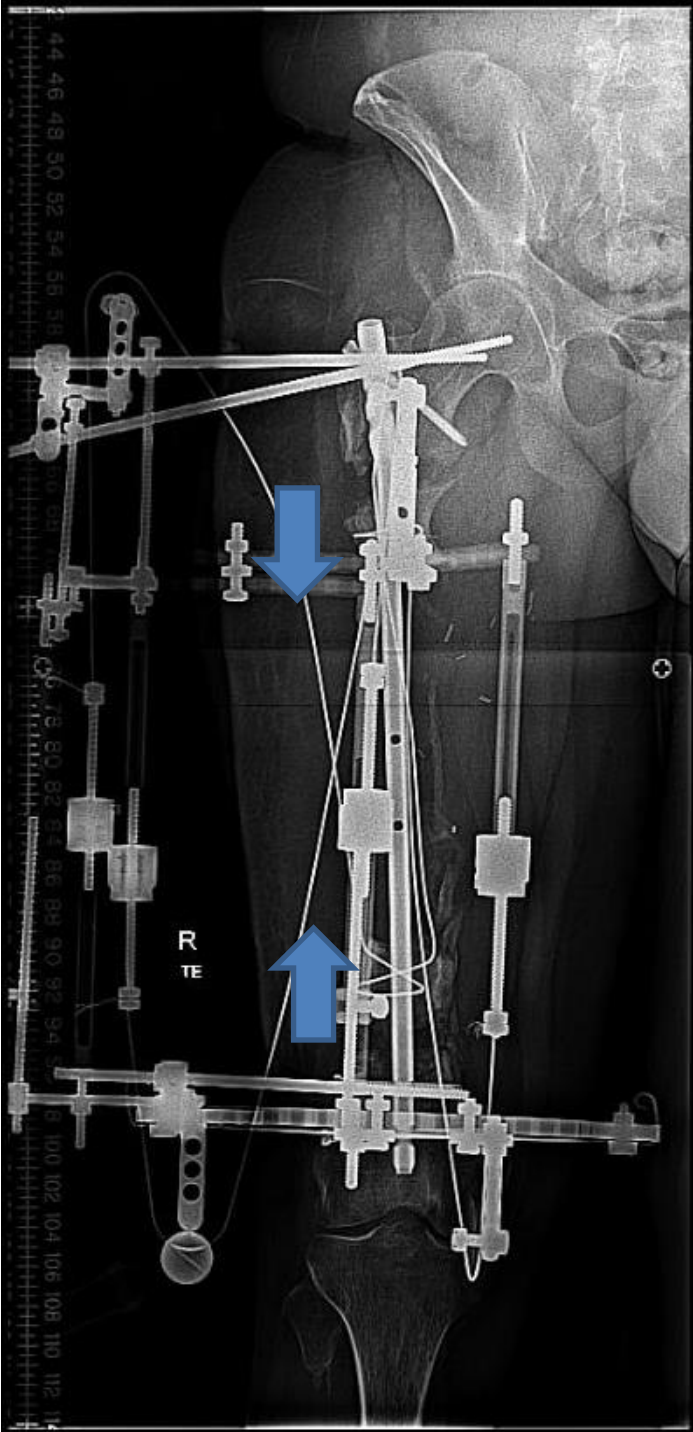


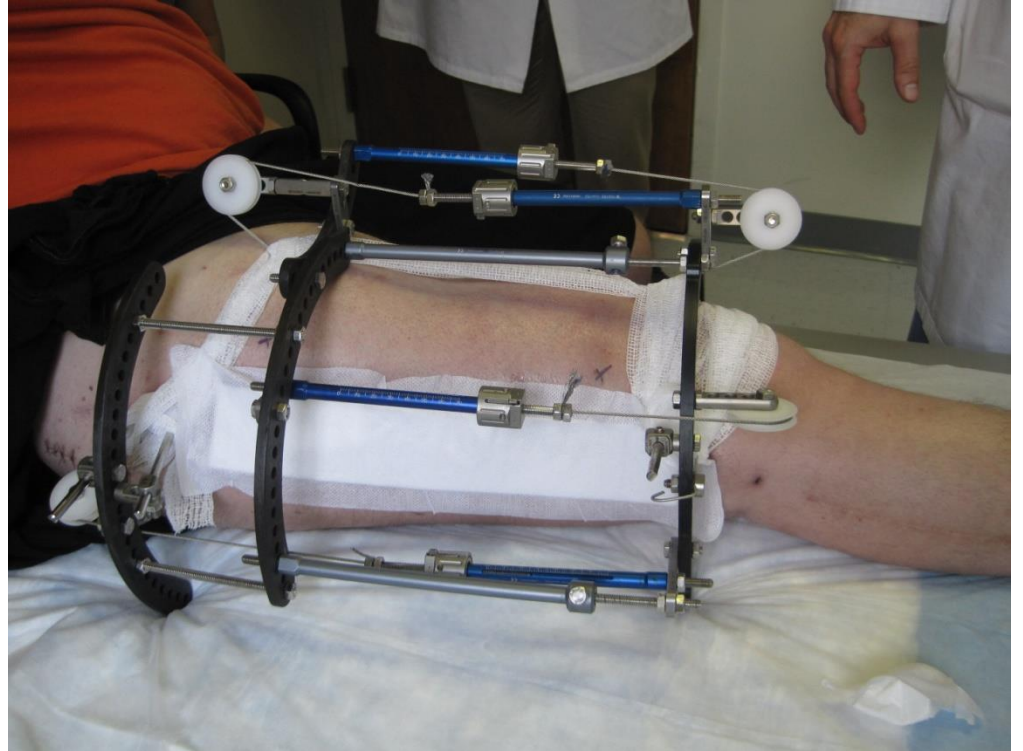


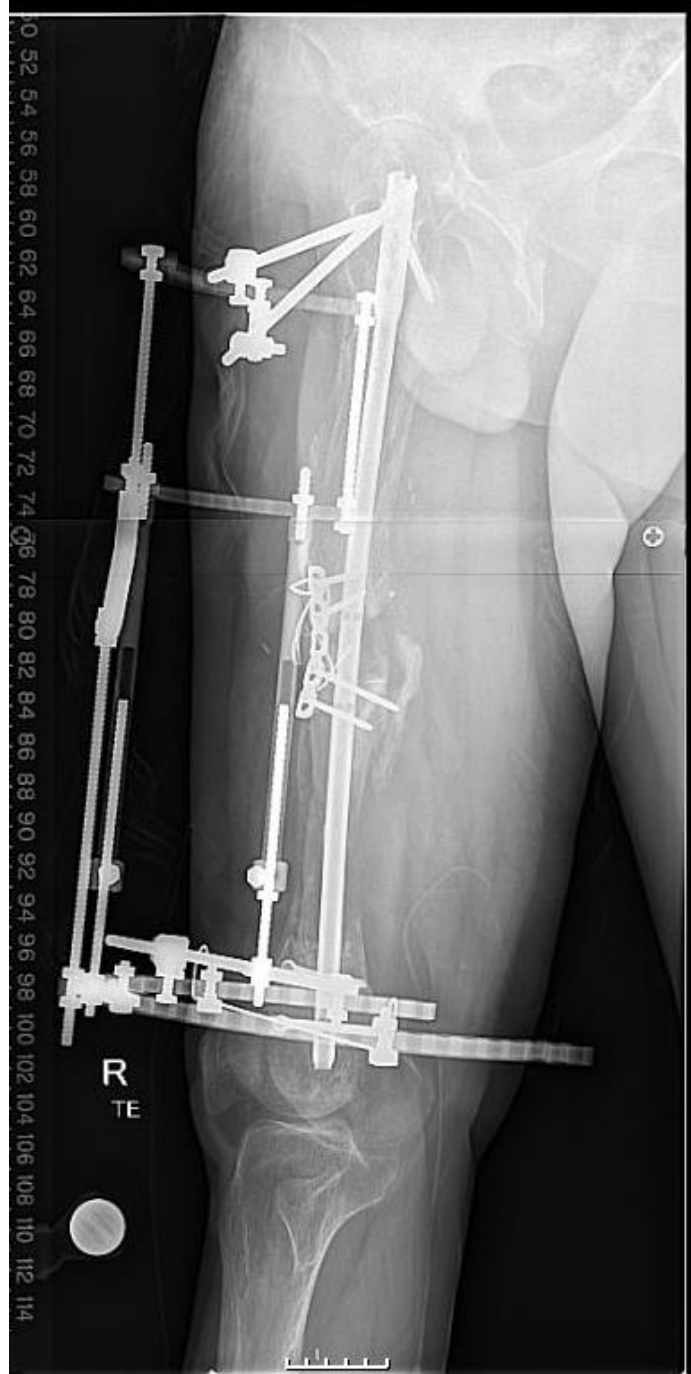
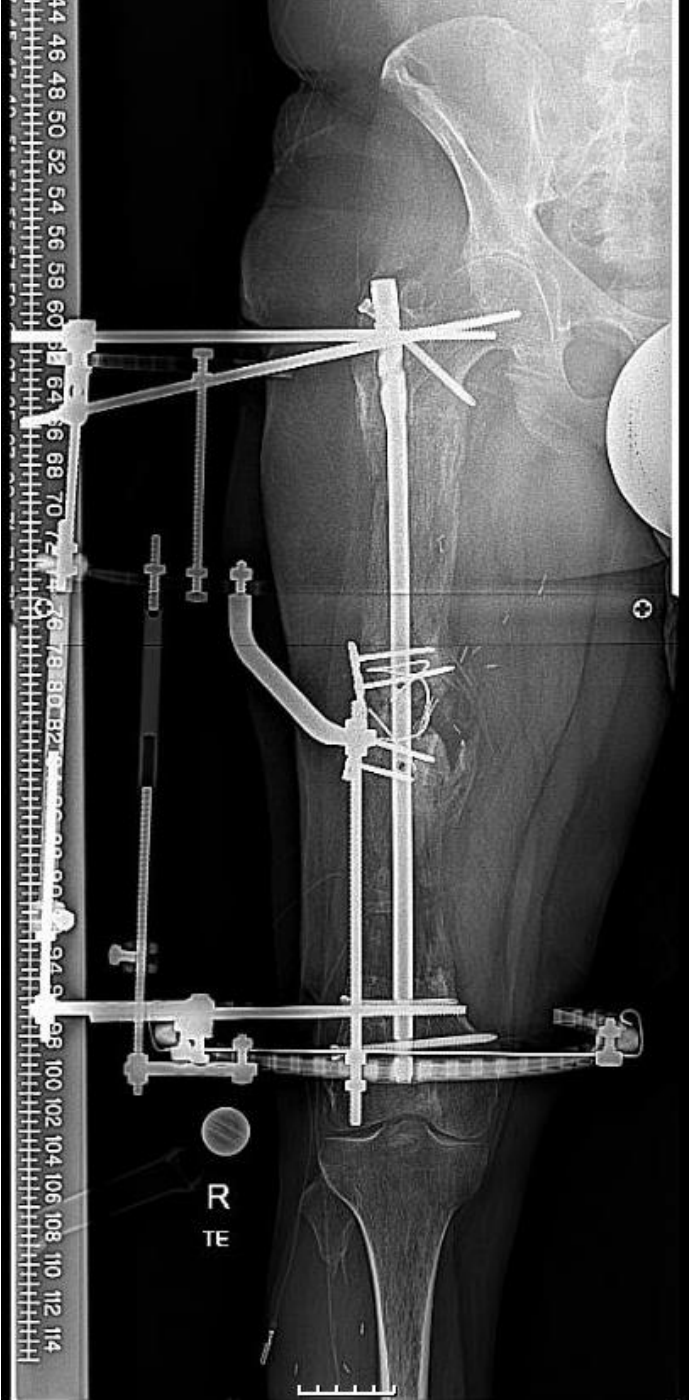


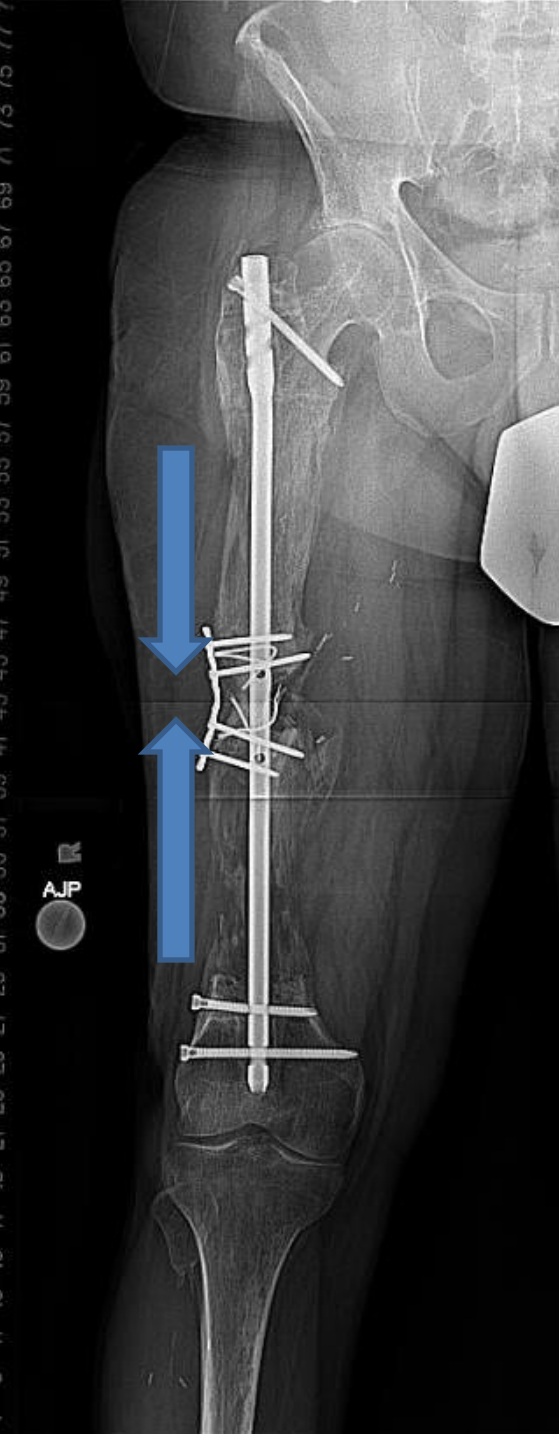












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2. Trauma
Foot and Ankle
3. Adult Reconstruction
Tumor
Upper Extremity

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Limb Lengthening and
Reconstruction Surgery
Case Atlas Vol. 1

S. ROBERT ROZBRUCH
REGGIE C. HAMDY
EDITORS

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Thank You



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