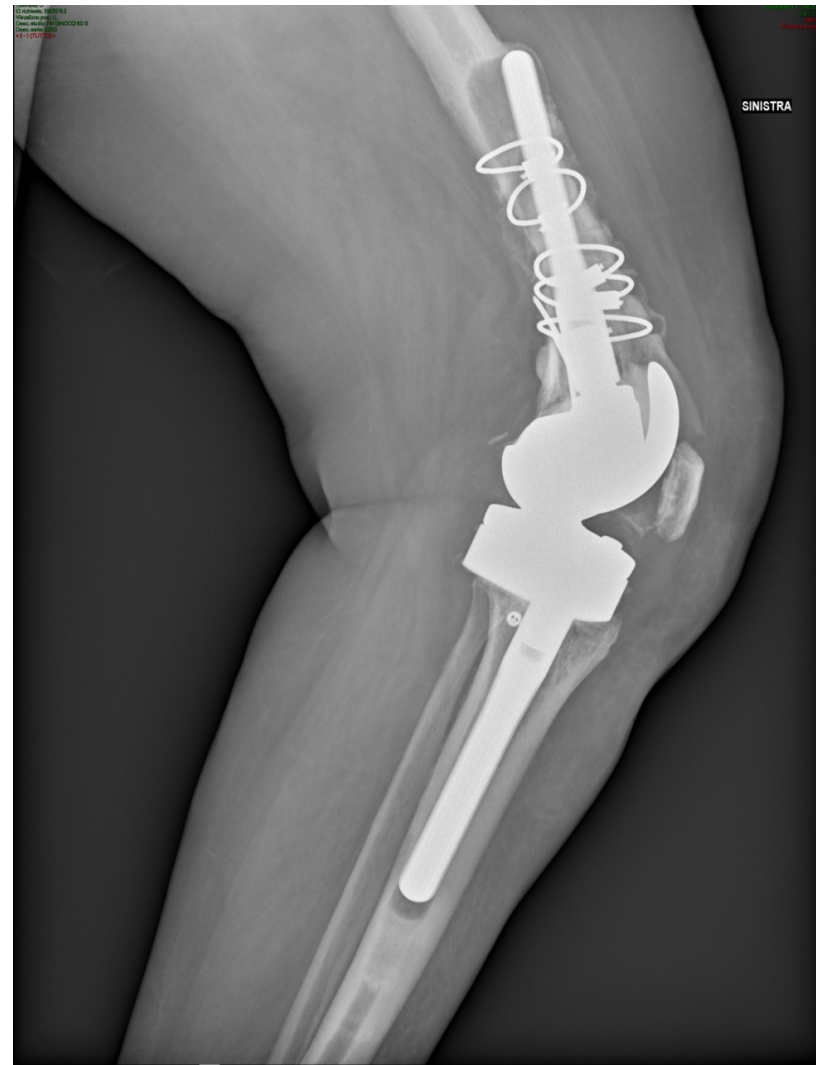
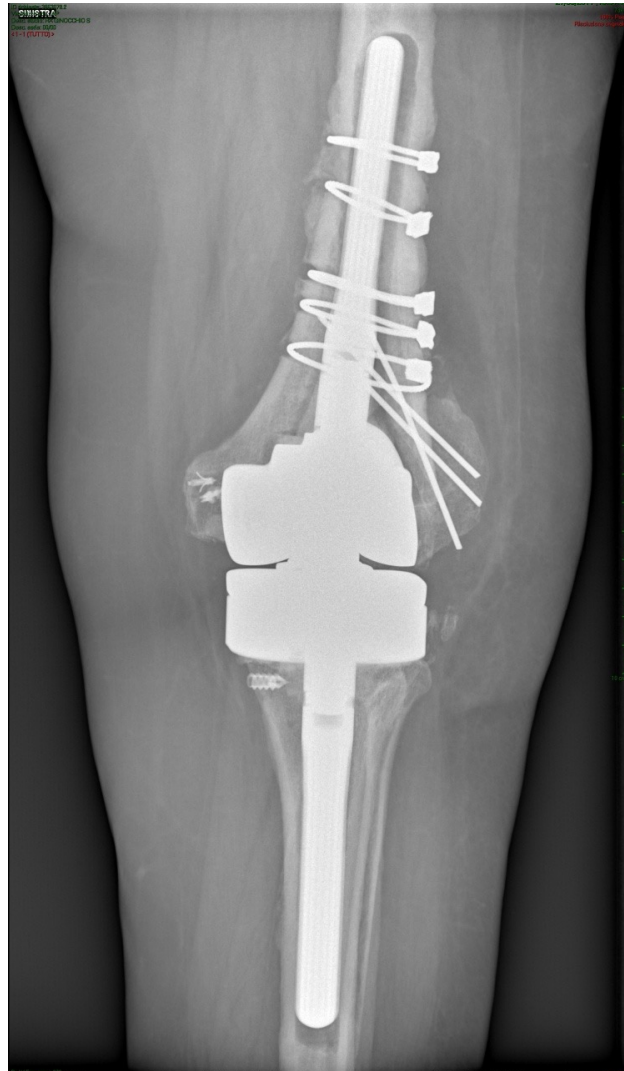




Complex TKA Revisions

Prof. M. Marcacci

Sept 2011: PCR: 0.29, VES: 29



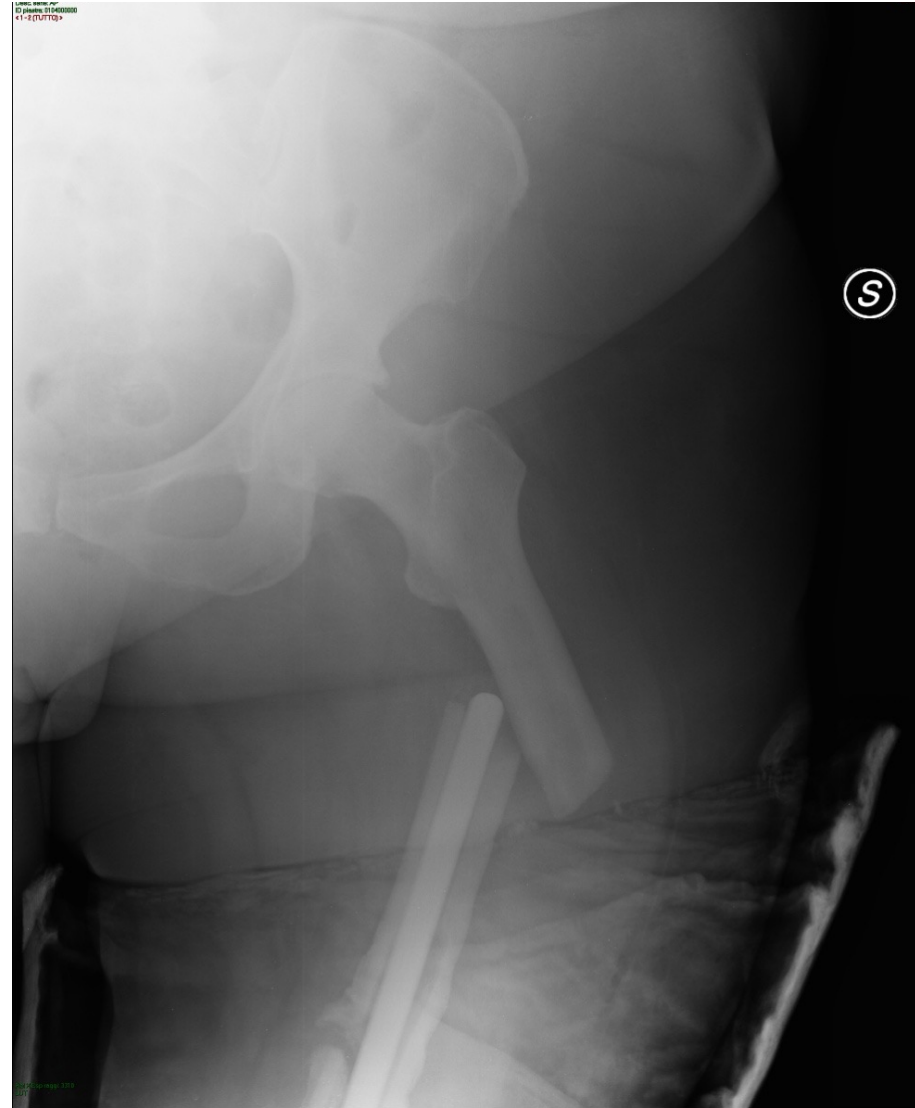
Sept 2011: Radical Explant



Febr 2012: Leukocyte Scintigraphy NEG, CRP: 0.31, ESR: 39



Apr 2012: Apical Periprosthetic Fracture



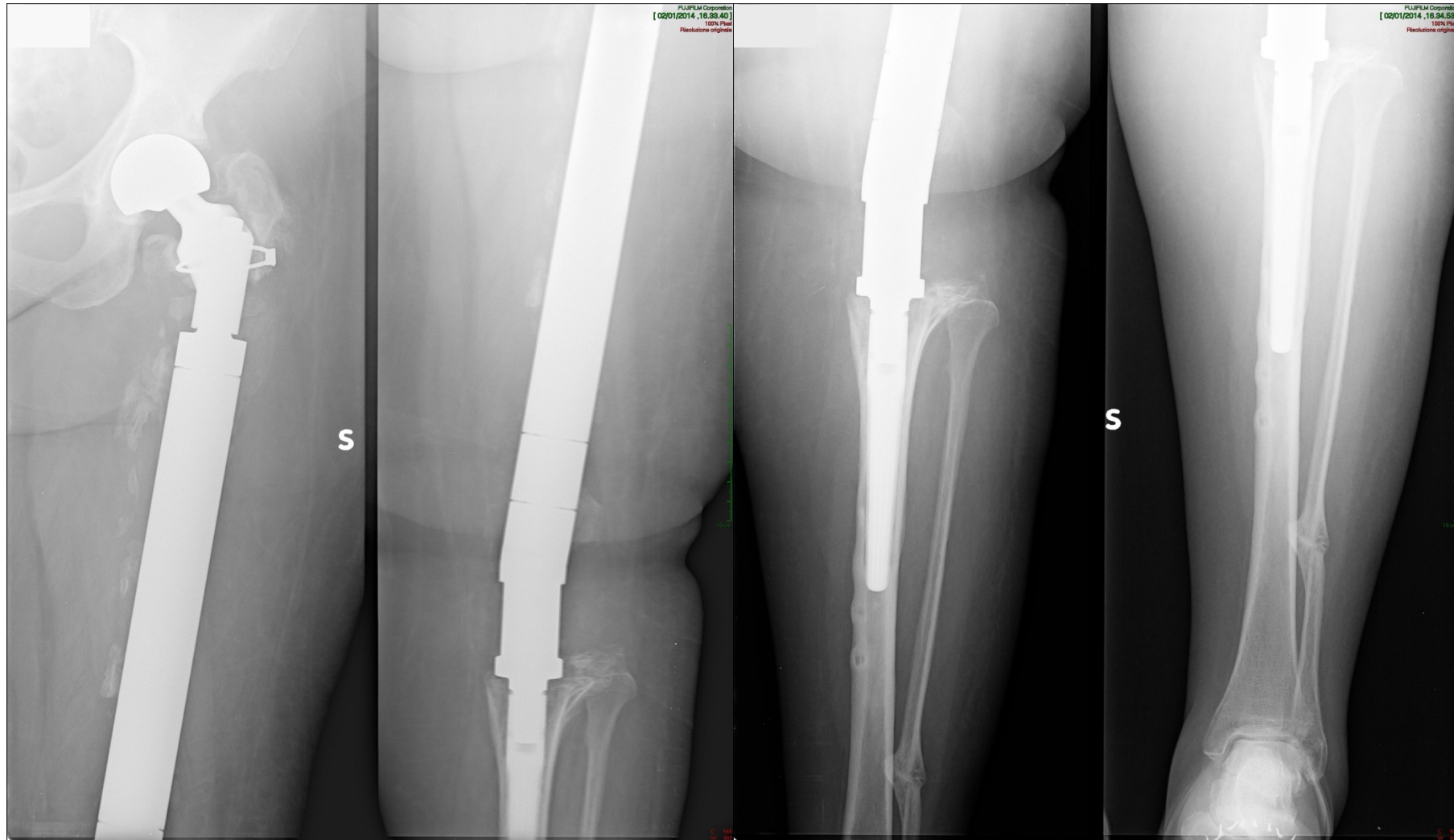
Apr 2012: Osteosynthesis with Plate, Screws, Cerclages and Splint on the opposite side



Jan 2013: Failure of the Osteosynthesis



March 2013: Revision with Custom-made Megaprosthesis



Septic Revision

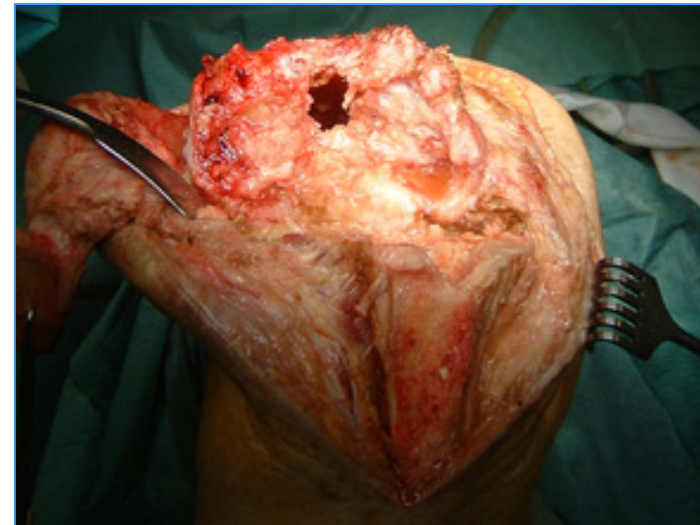
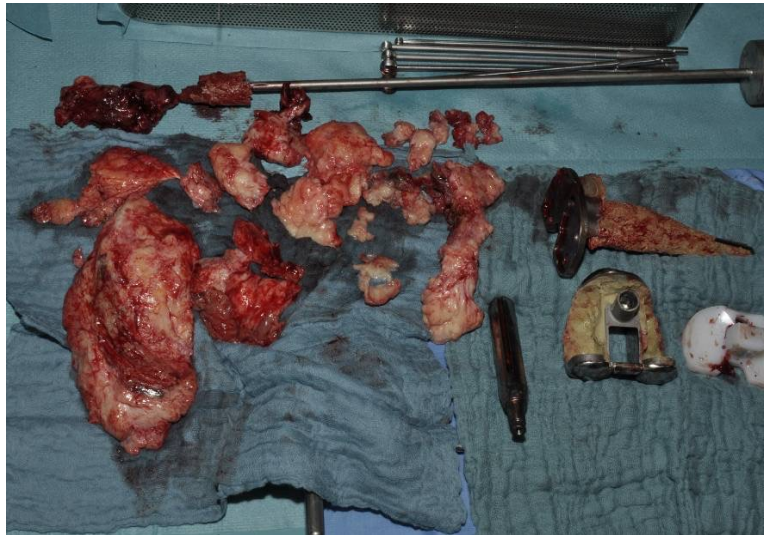
RADIAL DEBRIDEMENT REQUIRES BIG EXPOSURE

COMPROMISED STABILIZING STRUCTURES

MARKED BONE LOSS



NEED FOR HINGE IMPLANT



SEPTIC REVISION

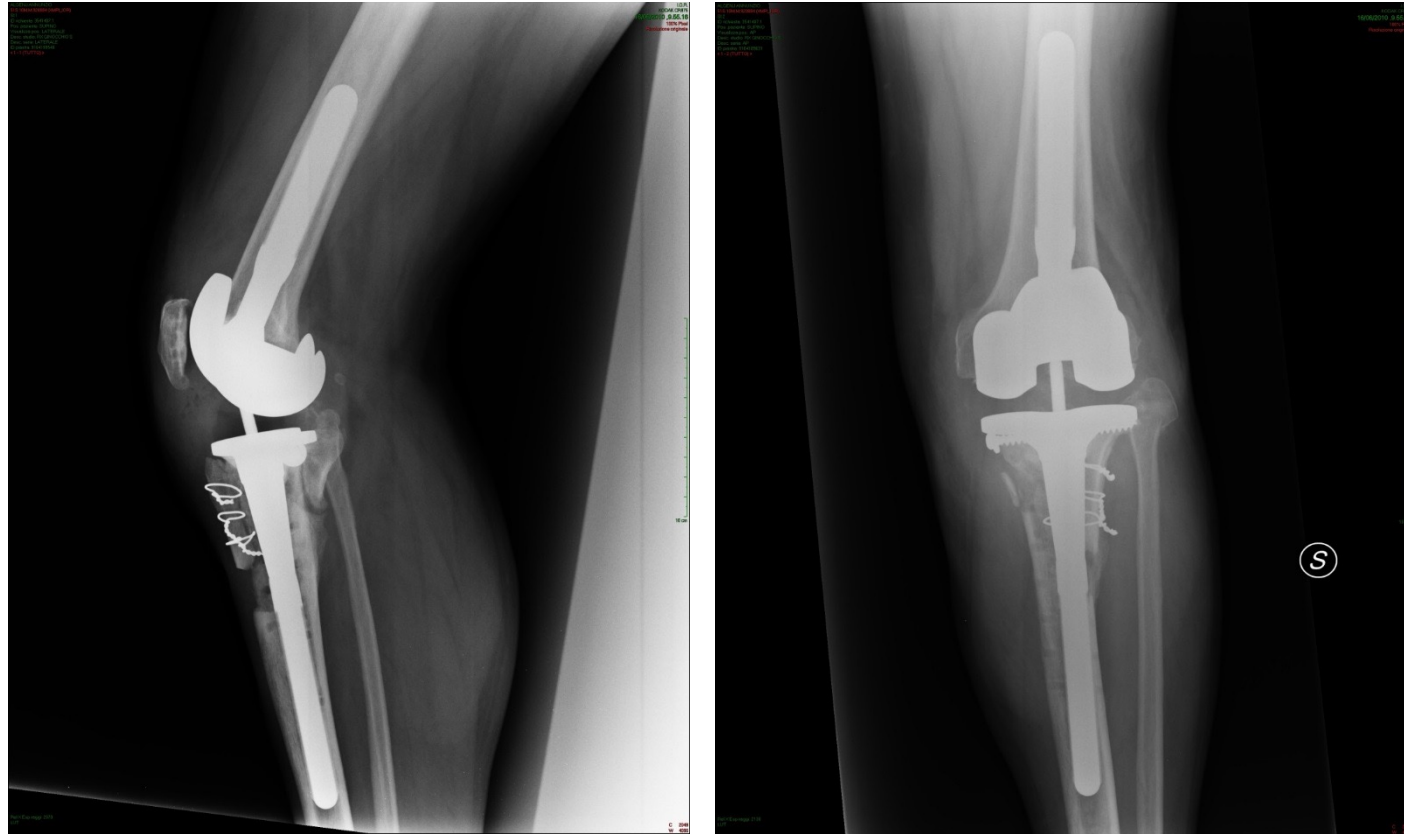
2) MALE, 60 YRS

POST-TRAUMATIC OA



SEPTIC REVISION

3 weeks later: fever (38°) pain and wound redness;
PCR: 25.24 mg/100ml; VES: 120 mm/h



I&D / Intraoperative coltures: S.Epidermidis multiresistant

SEPTIC REVISION

2 months later : wound dehiscence at the level of the cerclage
PCR: 2.79 mg/100ml VES: 94 mm/h



SEPTIC REVISION

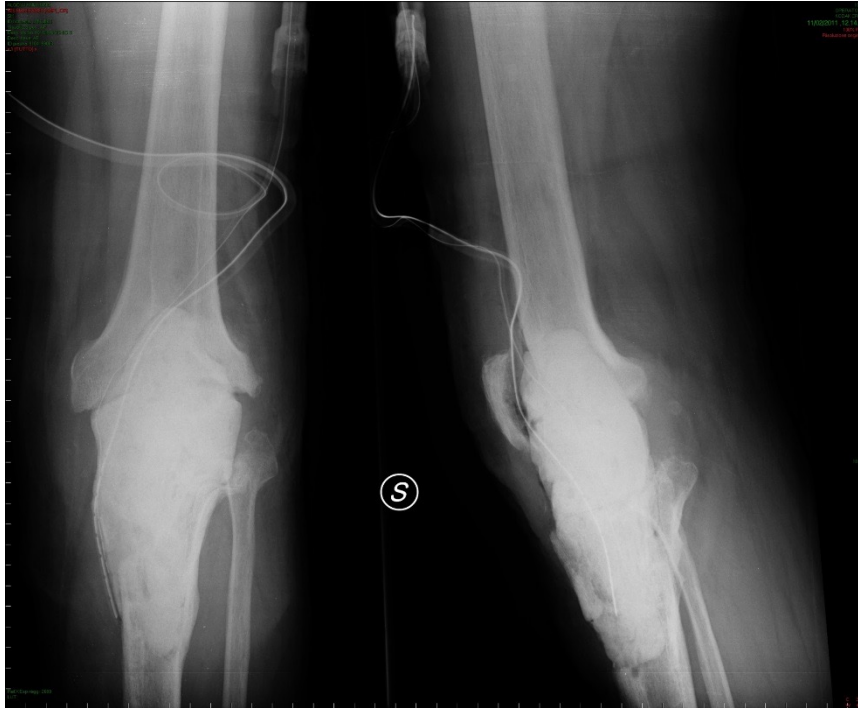
2 months later new admission for swelling, fistula; PCR: 7.56 mg/100ml;
VES: 120 mm/h; Scintigraphy with labeled granulocytes



Intraoperative coltures: S. Aureus

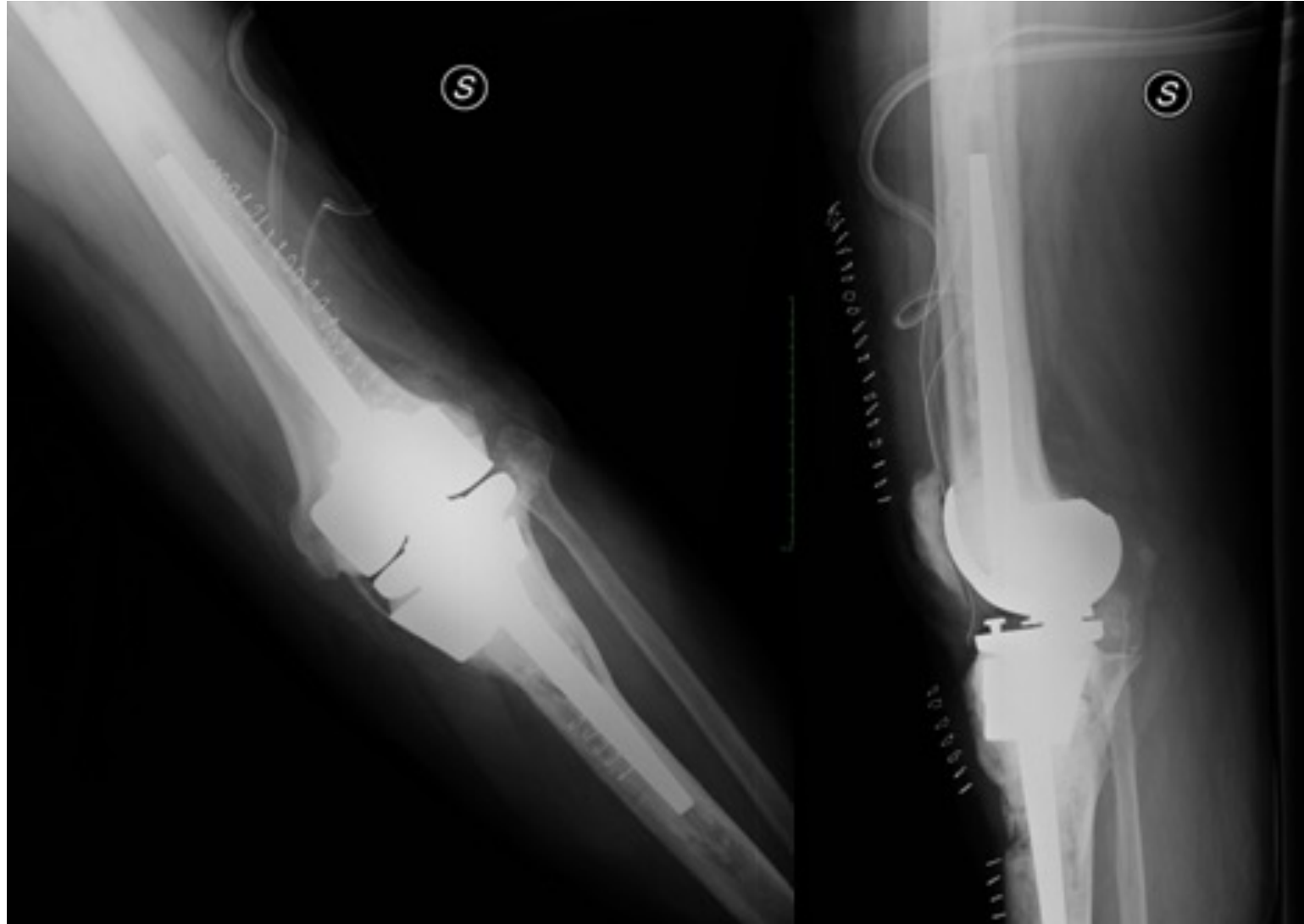
SEPTIC REVISION

Next months : 2 antibiotic cement exchange
Scintigraphy with labeled granulocytes +;



Intraoperative coltures: Negative

SEPTIC REVISION



F, 62y

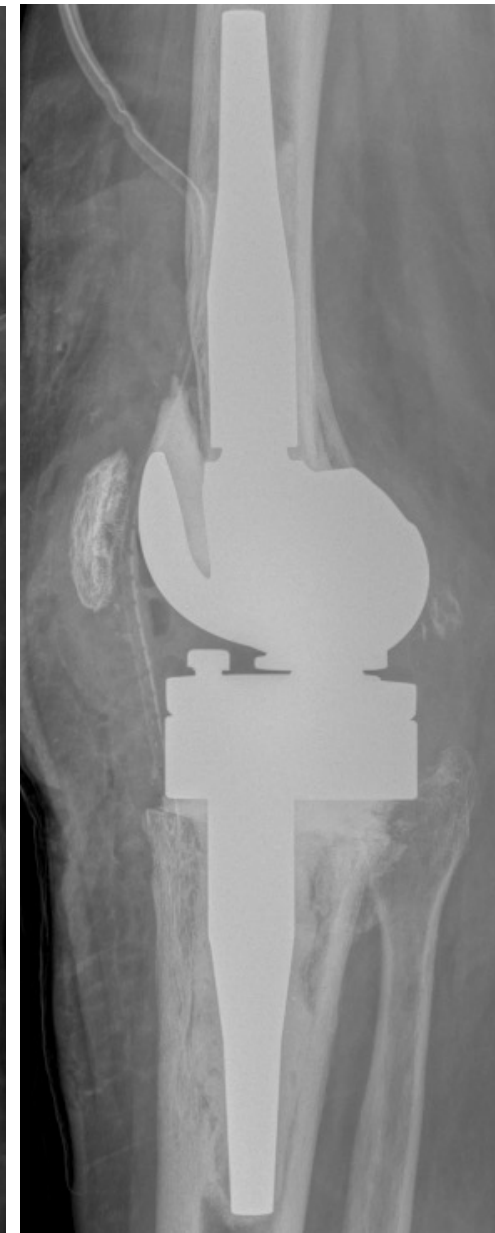
- 2014, PMMG sin
- 2020, implant loosening because of PJI → PTG sin
- 2021 Feb, new consult because of
 - pain +++
 - ROM 0-95°
 - medial instability



2-stage revision

- 2022 June, PTG removal

→ - cultures



M, 69y

- 2010, PTG sin
 - 2018, implant loosening
 - pain +++
 - ROM 0-90
- 1st arthrocentesis → ++ for *S. aureus*
→ 2nd arthrocentesis → - cultures



- 2018 April, **1-stage** revision



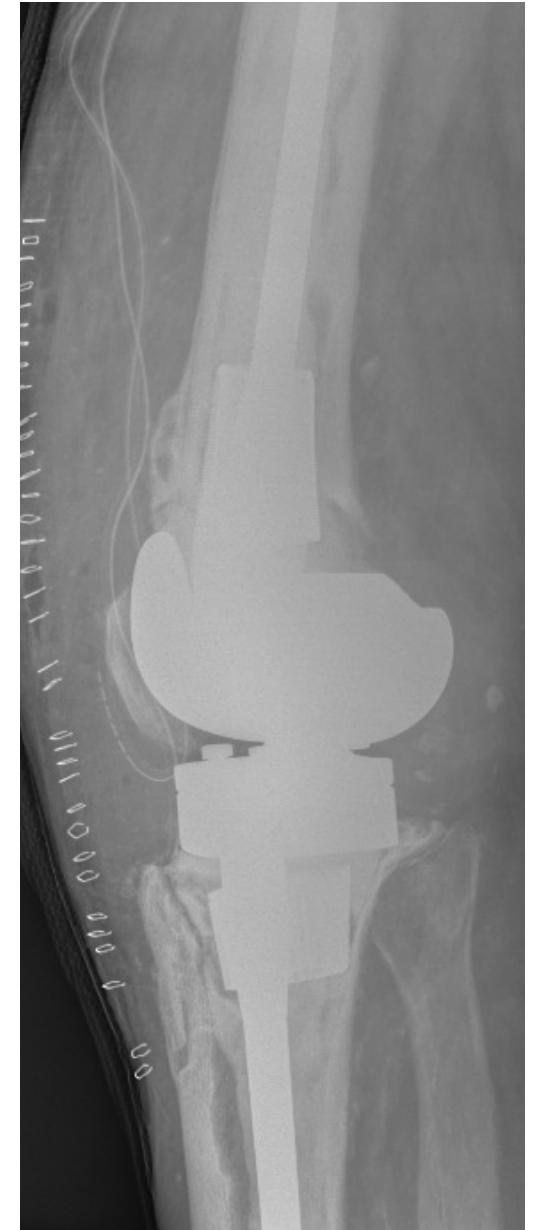
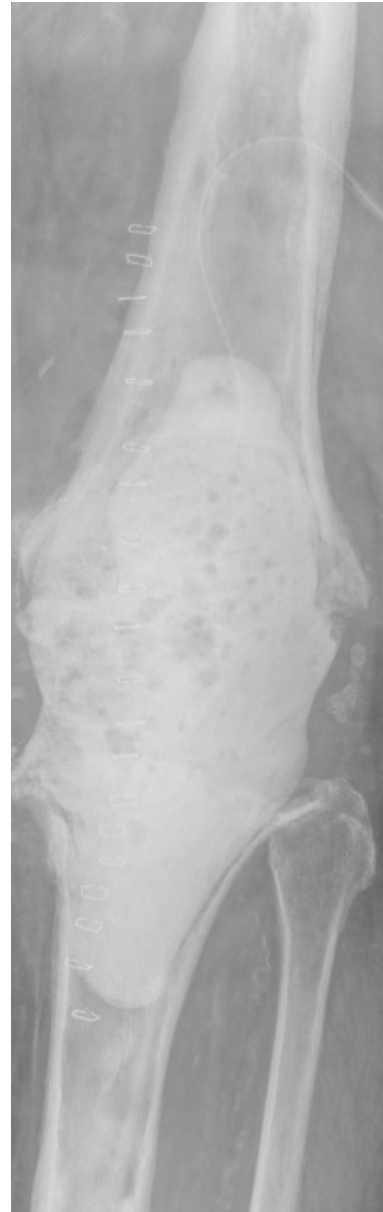
- 2018 April, **1-stage** revision
 - 2019 October, ER because of left knee swelling + fever
 - 2019 Oct, PTG removal
- cultures → + S. aureus



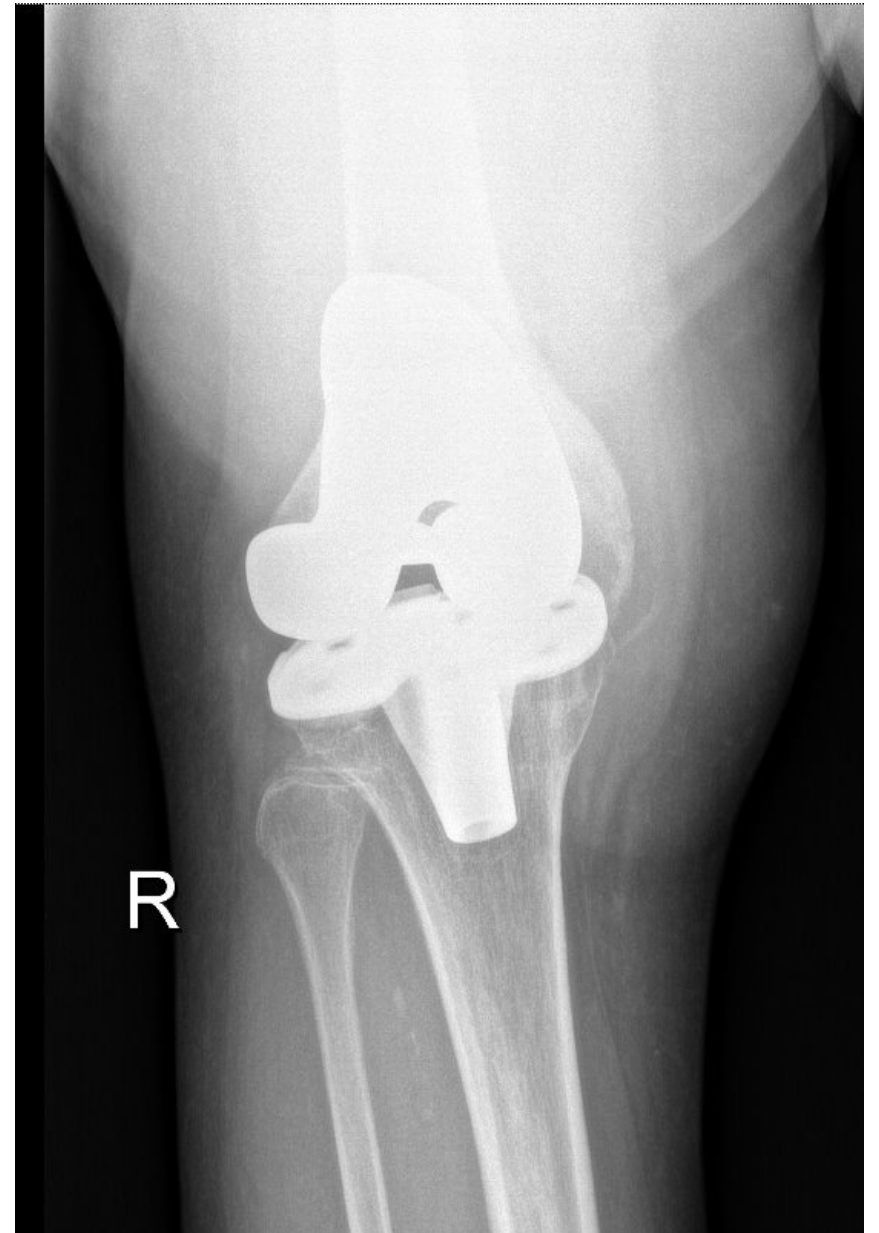
- 2020 Feb, revision surgery



- 2020 Feb, revision surgery
- 2023 April, new onset of pain →
+ scintigraphy → implant loosening
- 2023 Nov, 2-stage revision → cultures → +
S. epidermidis
- 2024 Jan, revision surgery

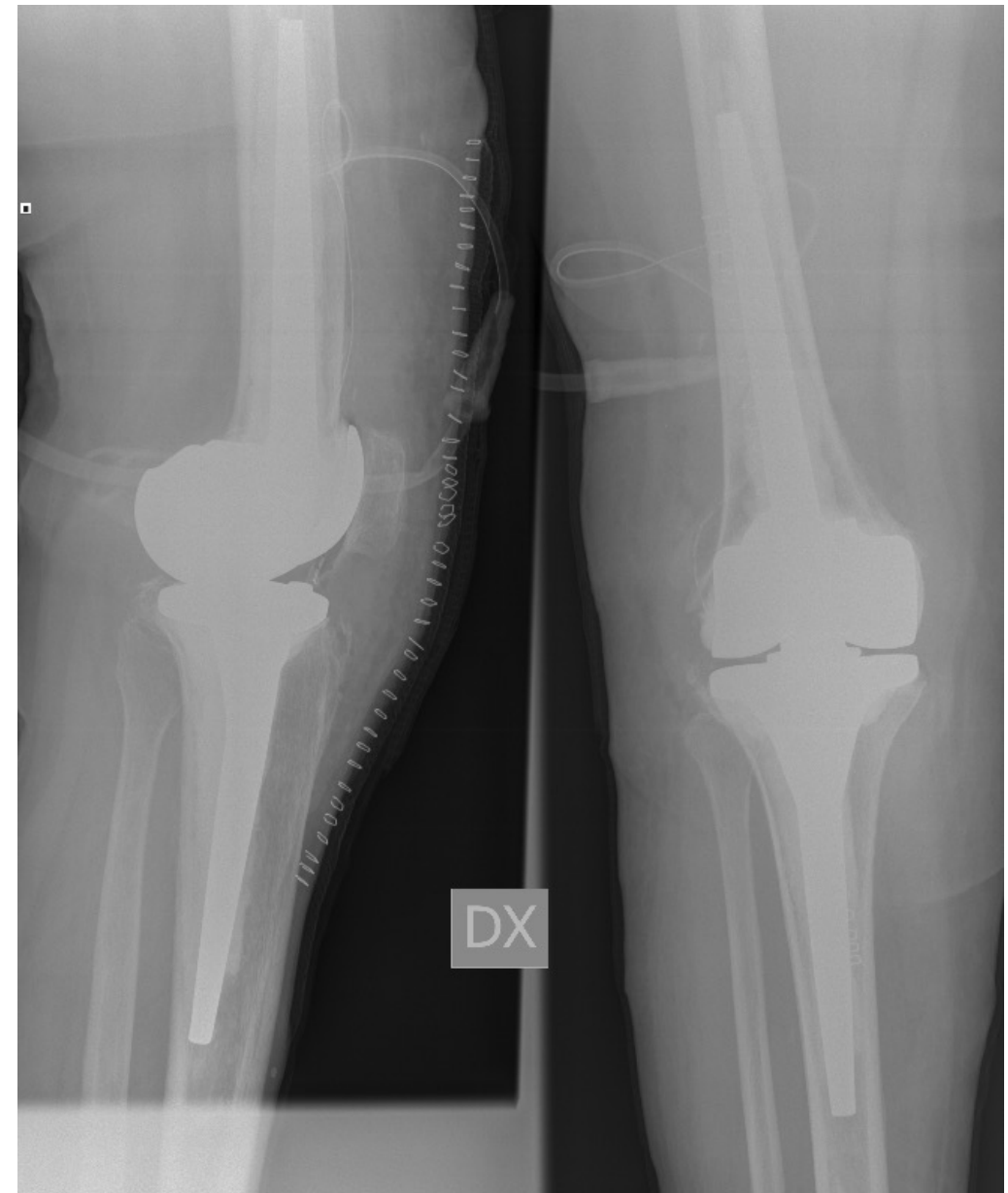


F, 69y
- 2015, PTG dx



F, 69y

- 2015, PTG dx
- 2018 September, implant loosening
 - pain ++
 - ROM 0-85
 - medial and lateral instability
- 2018 October, **2-stage** revision → - cultures
- 2019 Jan, revision surgery



- Jan 2021, PTG sin



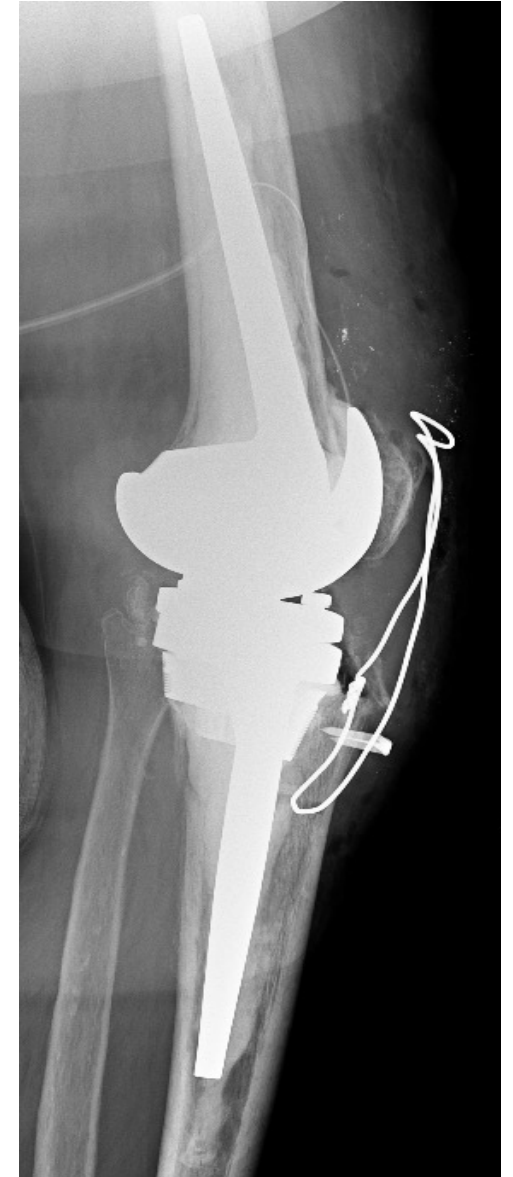
- 2021 Jan, PTG sin, S&N Legion PS
 - 2023 June, periprosthetic fracture
- implant removal bc of extensive synovitis



Jan, 2021



June, 2023



F, 70y

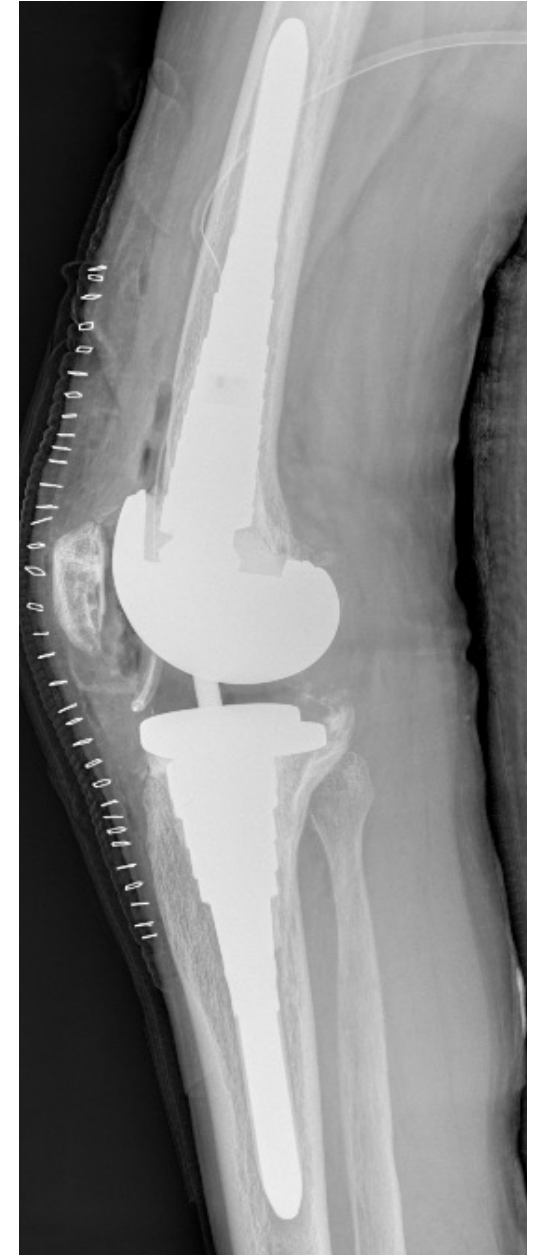
- 2010, PTG sin

- 2022, implant loosening

→ + scintigraphy and TC

→ arthrocentesis → - cultures





M, 66y

- 2022, PTG dx

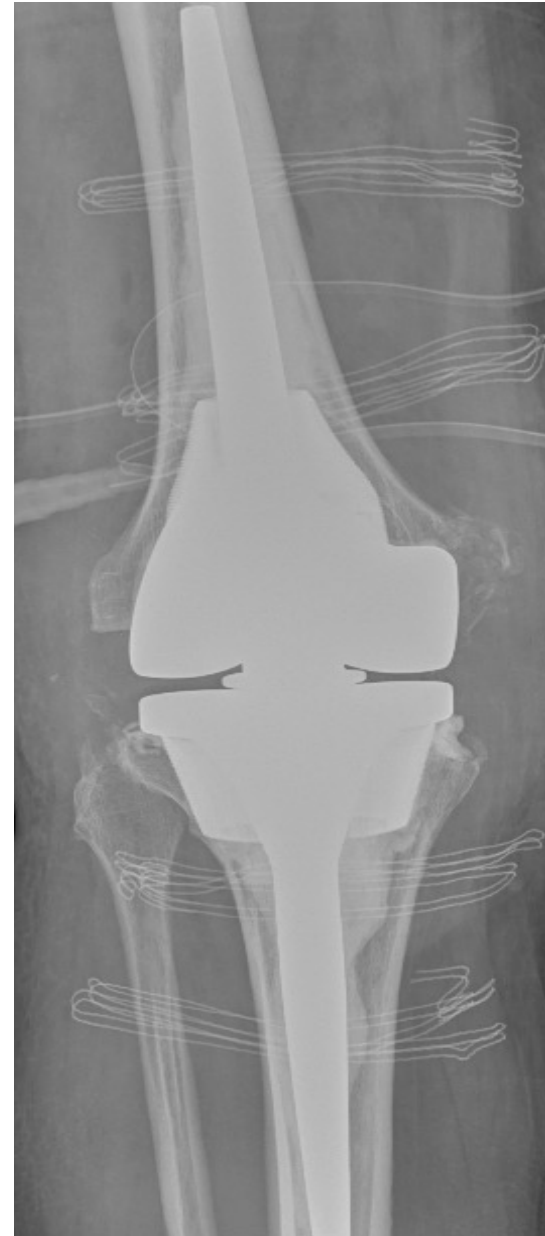


M, 66y

- 2022, PTG dx (Rejoint)
- 2023 Feb, implant loosening
- pain +++
- PET +

Hw, - cultures → dapto + piptazo → levofloxa + minocycline

- March 2023, Link ENDOMODEL 2023



M, 34y

History: right knee fracture following a gunshot wound
with loss of osteo-articular substance

- Pain +++
- ROM 0-30





DX

F, 26Y

Hx: dysplasia epiphysealis

- 2019, left and right knee instability



F, 26y

Hx: dysplasia epiphysealis

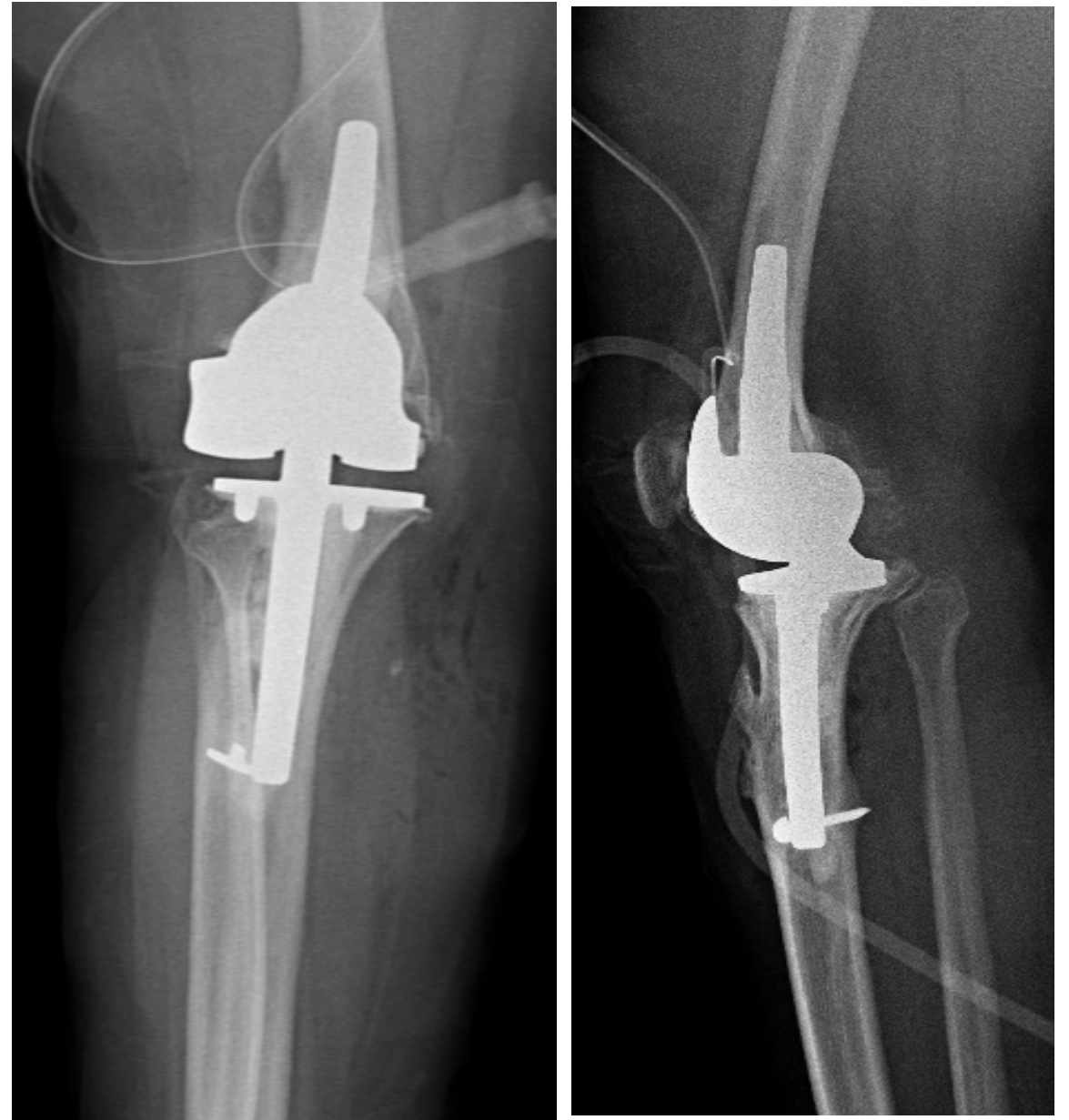
- 2019, left and right knee instability
- 2020, bilateral TKA custom made (Rejoint) - SIN



F,

Hx: dysplasia epiphysealis

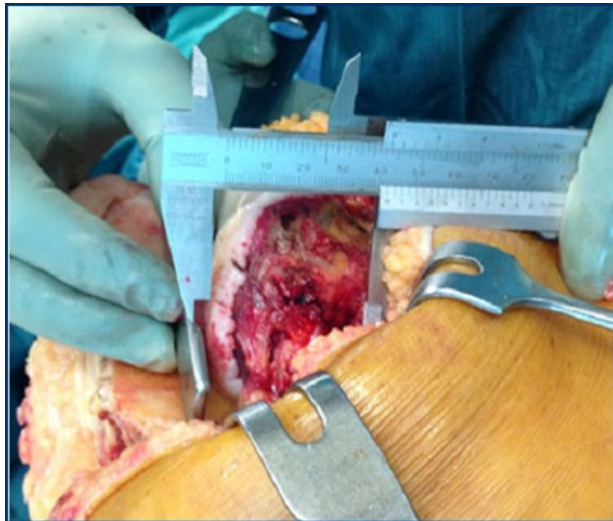
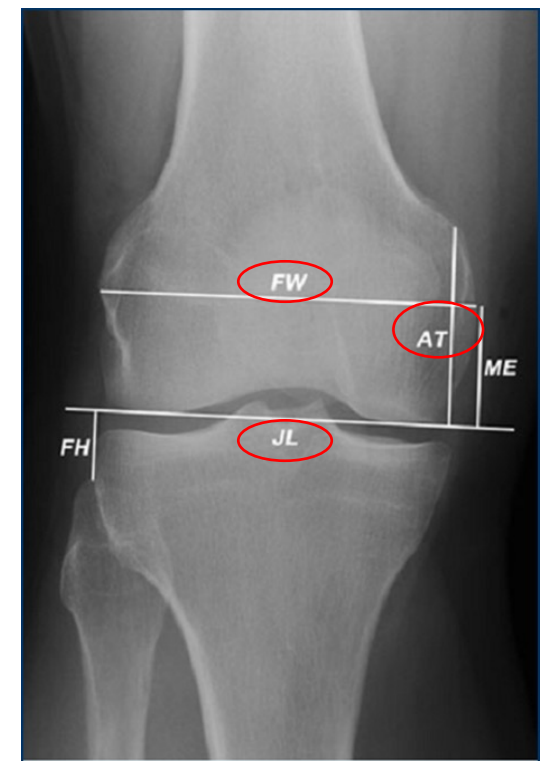
- 2019, left and right knee instability
- 2020, bilateral TKA custom made (Rejoint) - DX



> Knee Surg Sports Traumatol Arthrosc. 2016 Oct;24(10):3212-3217.
doi: 10.1007/s00167-015-3556-1. Epub 2015 Mar 12.

The adductor tubercle: an important landmark to determine the joint line level in revision total knee arthroplasty

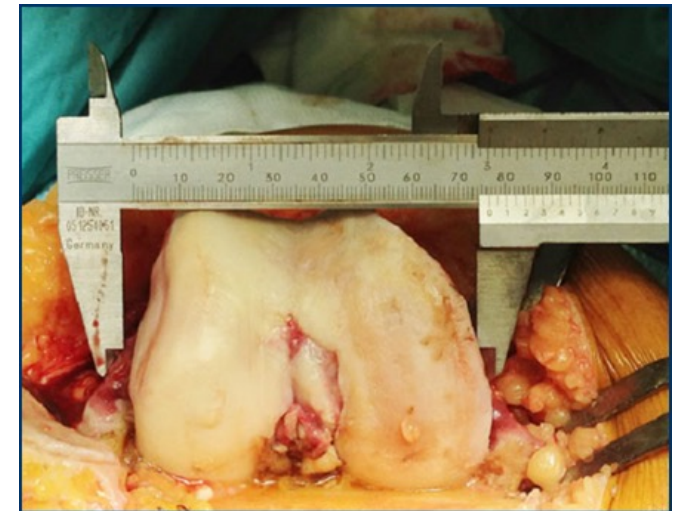
Francesco Iacono¹, Giovanni Francesco Raspugli², Giuseppe Filardo², Danilo Bruni²,
Stefano Zaffagnini², Simone Bignozzi², Mirco Lo Presti², Ibrahim Akkawi², Maria Pia Neri²,
Maurilio Marcacci^{2,3}



$$ATJL / FW = 0,53$$

$$ATJL = FW \times 0,53$$

AT= adductor tubercle
JL= joint line
FW= femoral width



Grazie
alla salute!

