

TKA on multioperated knees

M Bonnin. Centre Orthopédique Santy. Lyon France

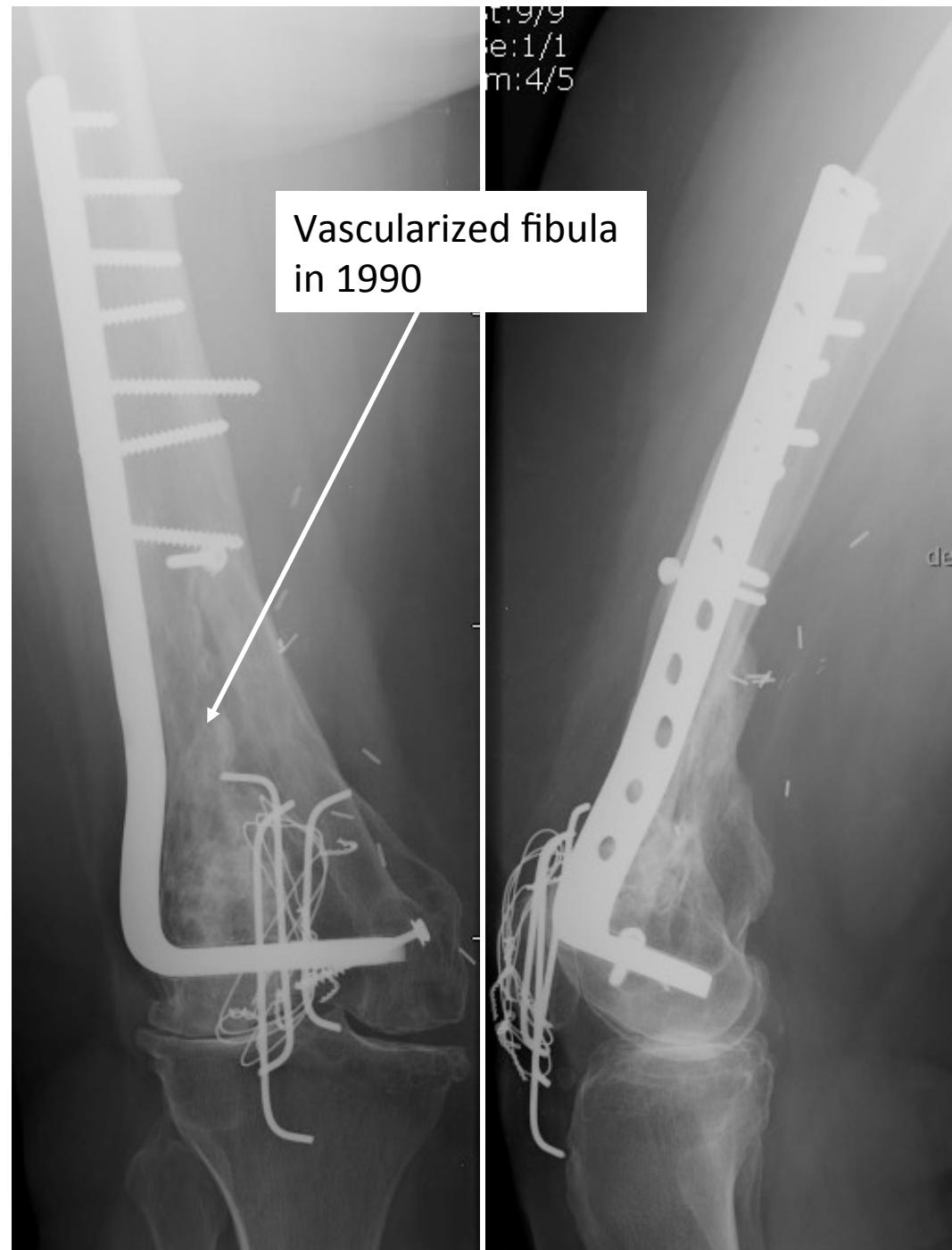
The 10 traps of the multioperated knee

1. Skin
2. Exposure
3. Hardware removal
4. Extra articular deformity
5. Intra articular deformity
6. Stiffness or pseudo stiffness
7. Patella-infera
8. Bone loss/Bone quality
9. Extensor apparatus
10. Infection

1

Post-traumatic knee

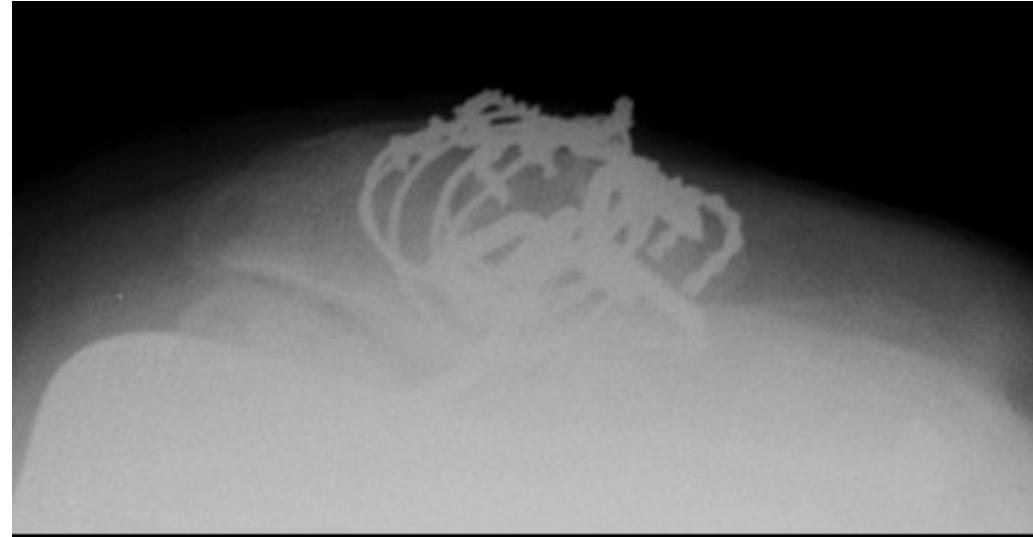
- Woman born in 1940
- Fracture distal femur in 1985
- No-union
- Operated 12 times
- Vascularised fibular graft
- Patellar fracture in 2008
- ROM: 0-10-80
- Visit 2015



MILLOT Christine
D: SIR21067
3/05/1940

CENTRE D' IMAG

OIT



- ✓ Skin
- ✓ Exposure
- ✓ Hardware

Extra articular deformity

Intra articular deformity

- ✓ Stiffness or pseudo stiffness
- ✓ Patella-infera
- ✓ Bone losses/quality
- Extensor apparatus
- ✓ Infection





1. Previous lateral approach
2. Biopsy
3. Osteotomy of tibial tubercle (approach)
4. No intra-medullar rod
5. Extended tibial stem
6. Patella infera
7. Careful rehab



2

*Complex situation
in elderly*

- Woman born in 1924
- Fracture distal right femur in 1943
 - Bullet from world war II
 - In hospital at end of the war
 - No treatment
 - Malunion
- Active life
- Visit 2015 (91 y)
- Two crutches/severe pain both knees









Right knee one month later





extra@varus deformity of the femur

👉 accept some residual varus



3

Dysplasia

- Woman born in 1939
- Polyepiphyseal dysplasia
 - Two THA
 - Osteotomies of the right femur
 - HTO right knee
 - Small size (148cm)
- Visit 2012 (73 y)
- Two crutches/severe pain right knee





Face/Profil (L)

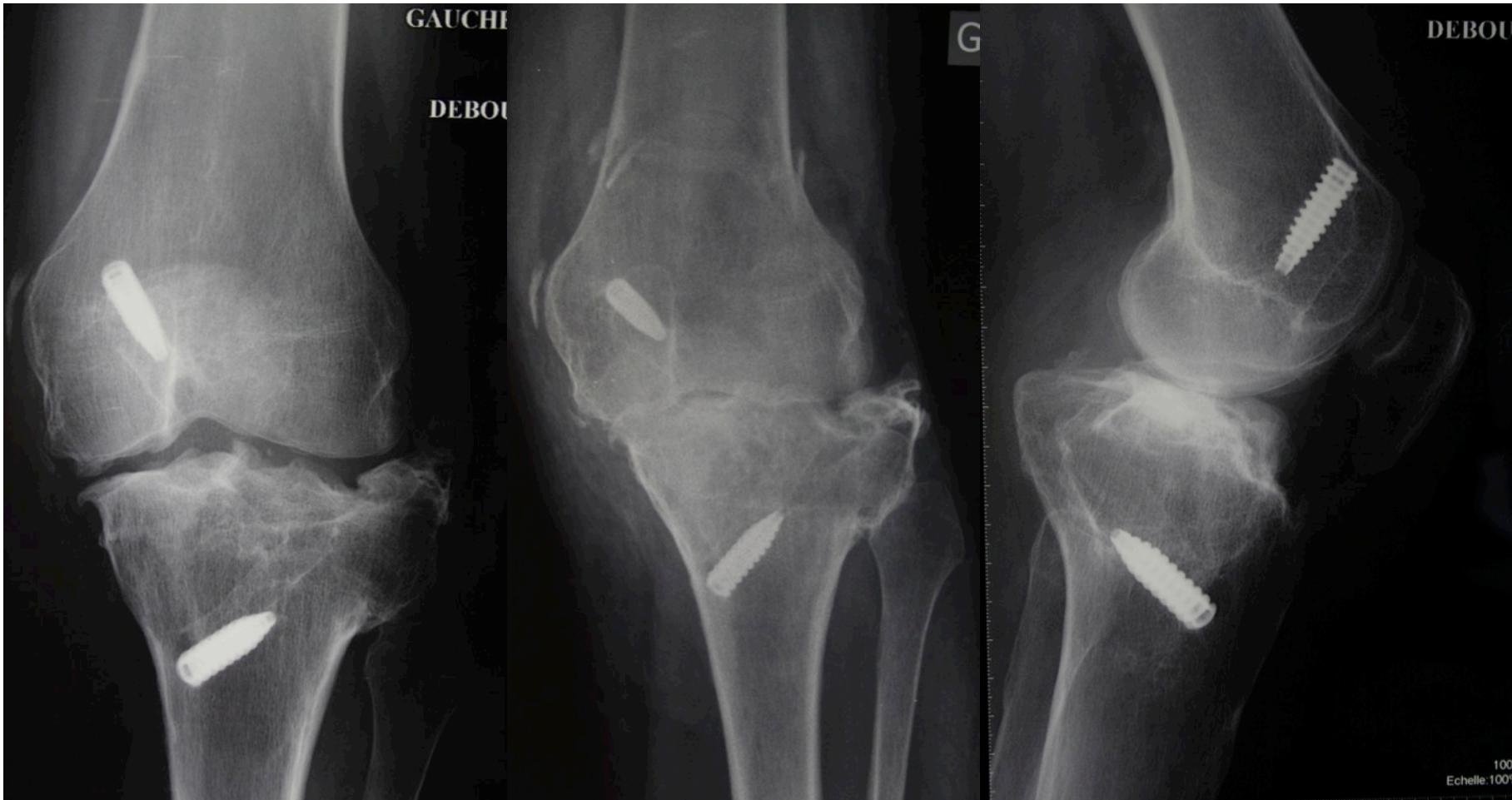


4

Multi-ligament surgery

- Born in 1972
- Knee dislocation in 1999
- External fixator
- HTO in 2000
- PCL reconstruction: 2001
- Totally disabled
- Walking distance <100m
- ROM: 0-0-90°

First visit: 36 years old, multioperated



100
Echelle:100%

1 months before planned surgery: supra condylar fracture



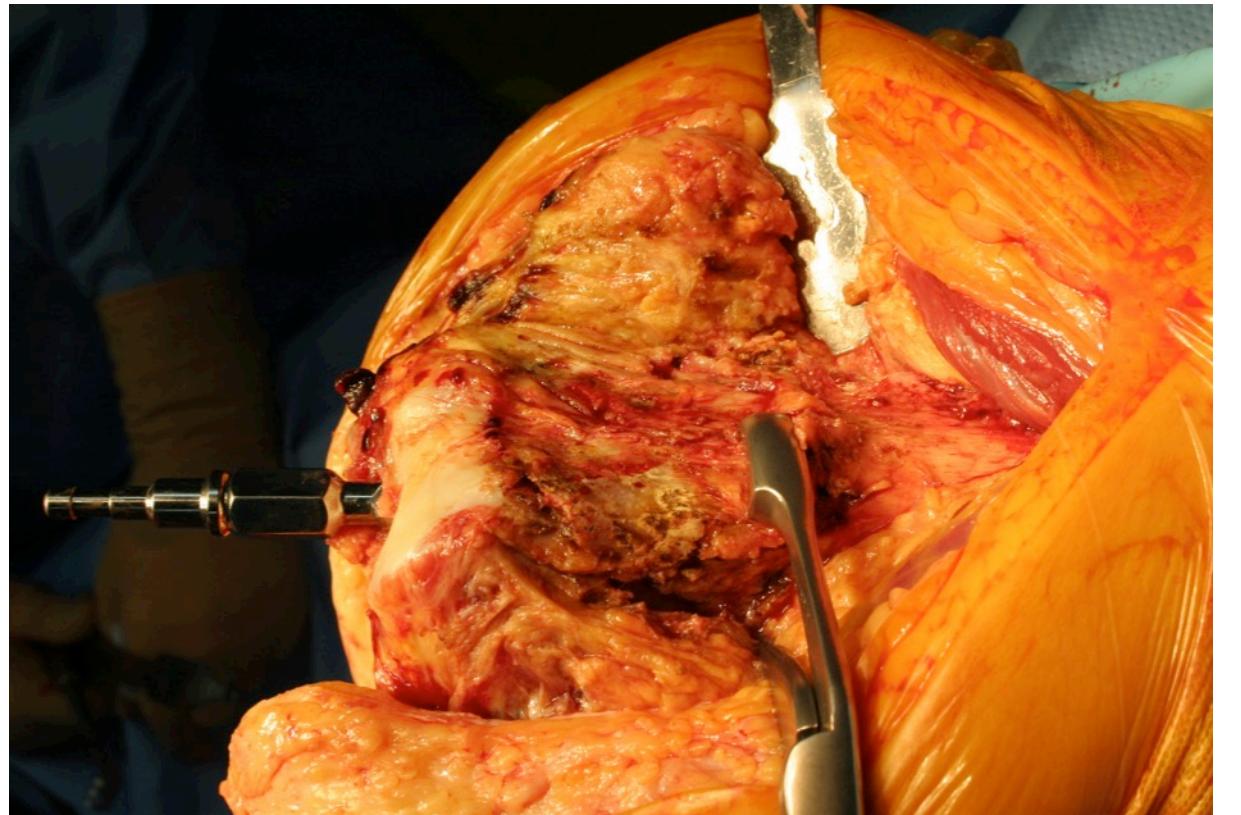
AP 2.28 QS_LGM

30/10/2007 14:25

Reduction with intra-medullary rod

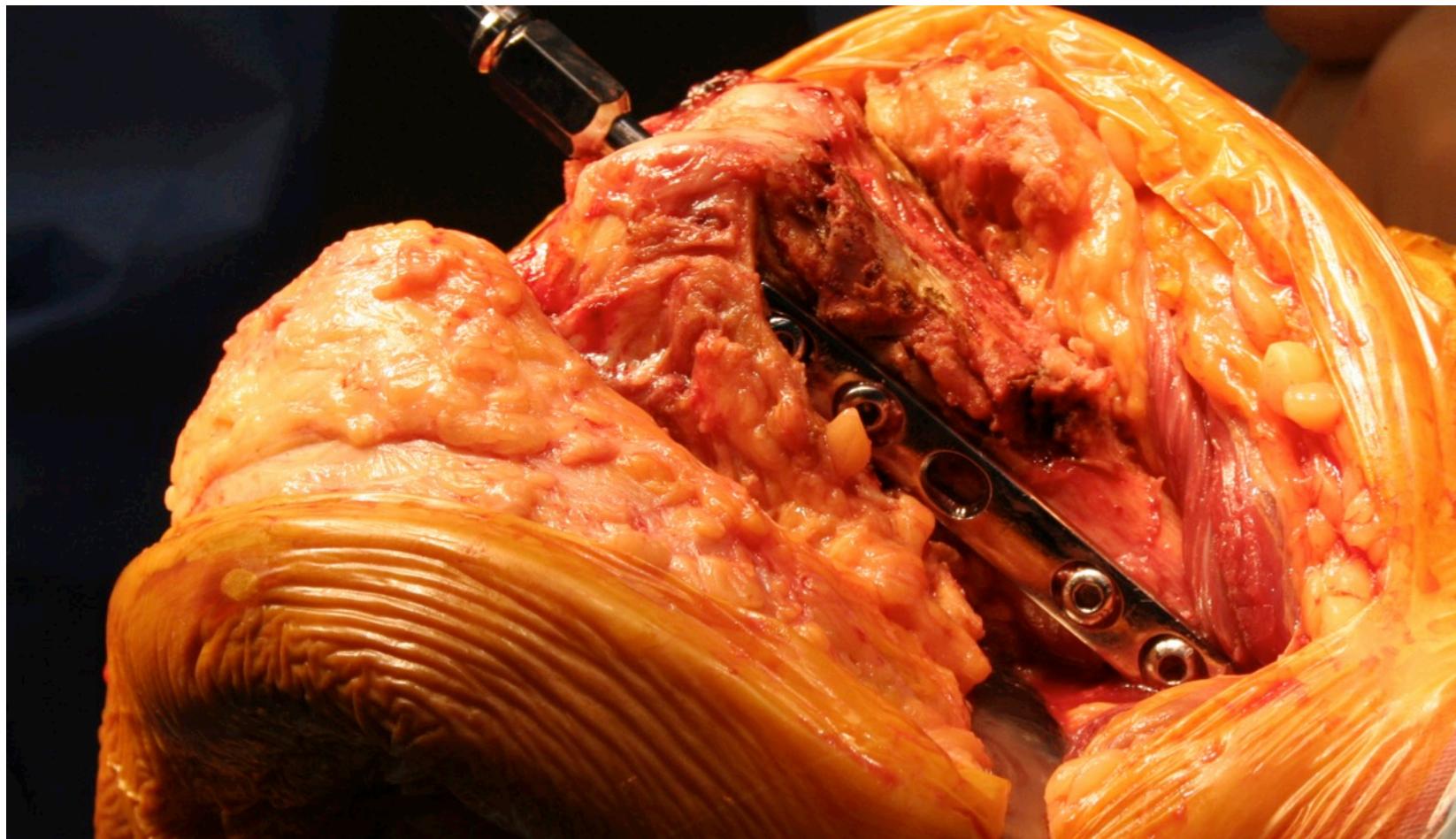


Osteotomy ATT



Case #1

Fixation with plate + Intra medullary long stem



1972-02-26

Im:1

CAP600K



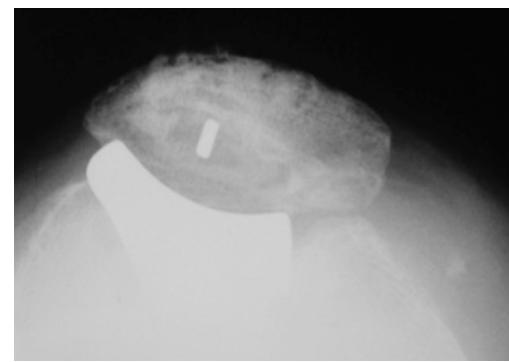
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Infection

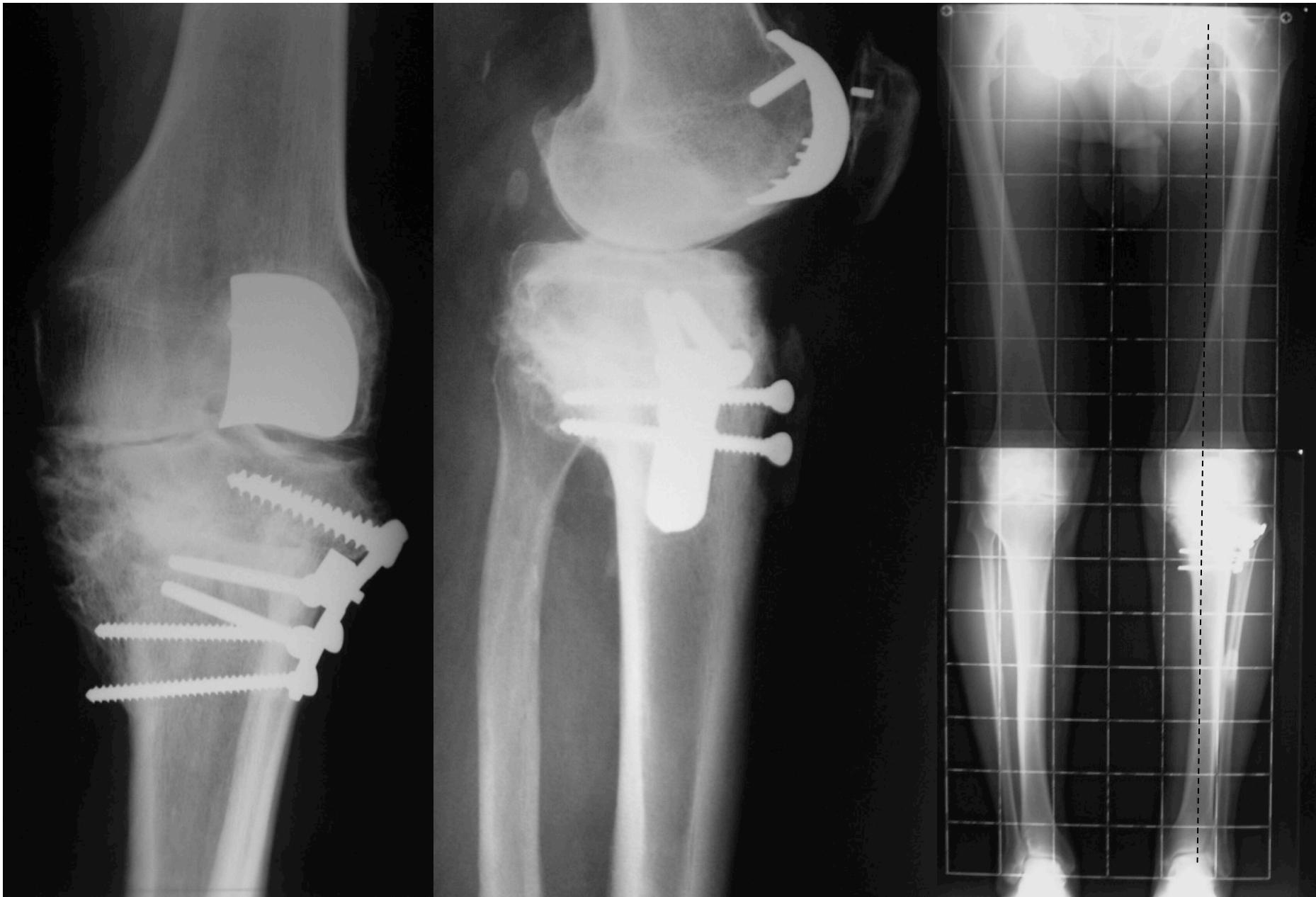
- Male 78 years old
- 1999: PFP+ OWHTO
- Infection: Drainage, plate removal
- 2000: Opening wedge (autograft)
- Major residual pain







First step: HTO Closing Wedge



2nd step: TKA



6

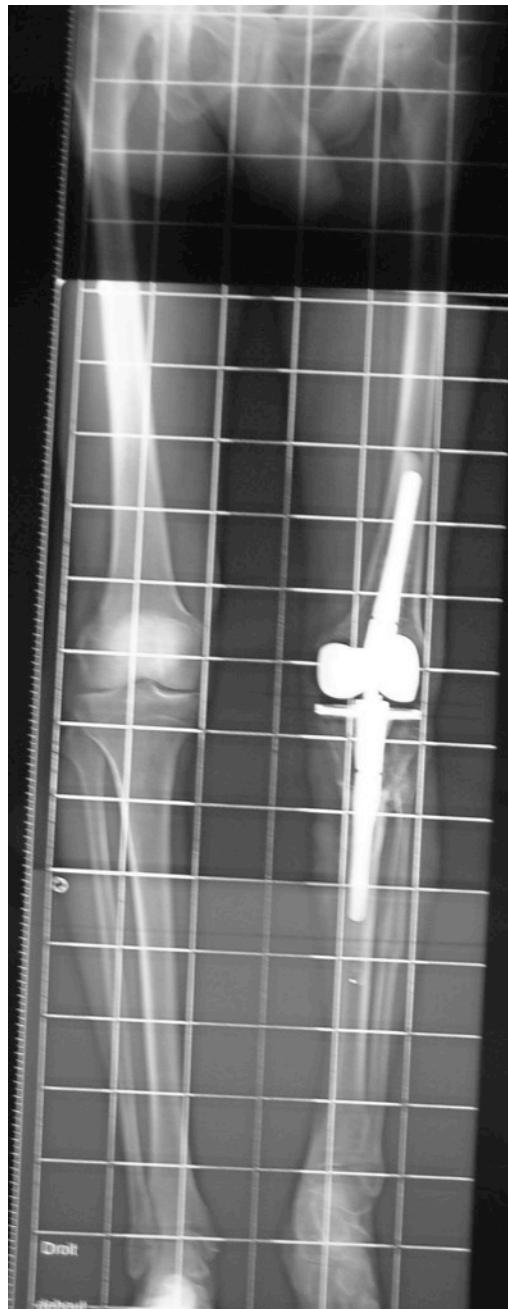
Post-radiotherapy

- Mr V. 77 years old
- Radiotherapy at 6 months of age (skin)
- Epiphysiodesis
- Valgus deformity



1. Intra@ approach
2. Removal of exostosis
3. Osteotomy fibula mid $\frac{1}{3}$
4. Tibial osteotomy distal / ATT
5. Fixation with plate
6. TKA
7. Fixation with tibial stem
8. Removal of the plate
9. Bone grafts





7

Post traumatic bone loss

- 47 y
- Car Accident 2005
- Fracture medial condyle
- Fixation with plate
- Non union
- Revision: 2007
- Two germs
- Totally disabled
- 2 crutches + full leg hinged brace
- Medial laxity

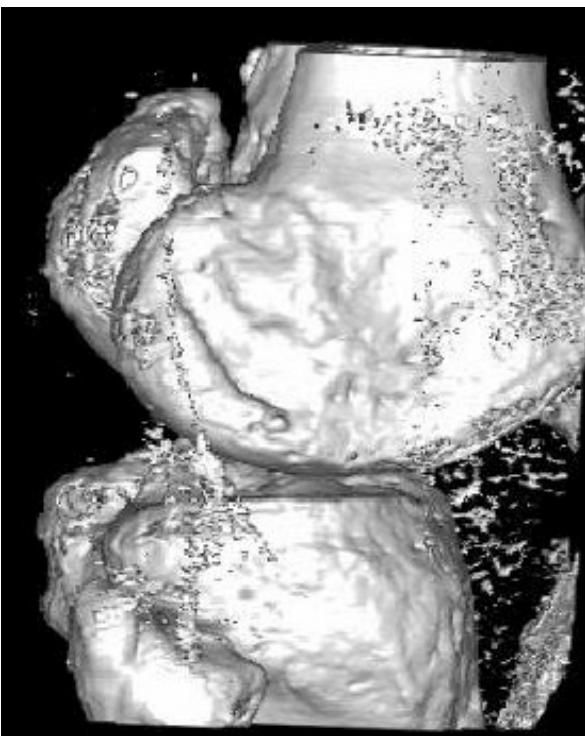
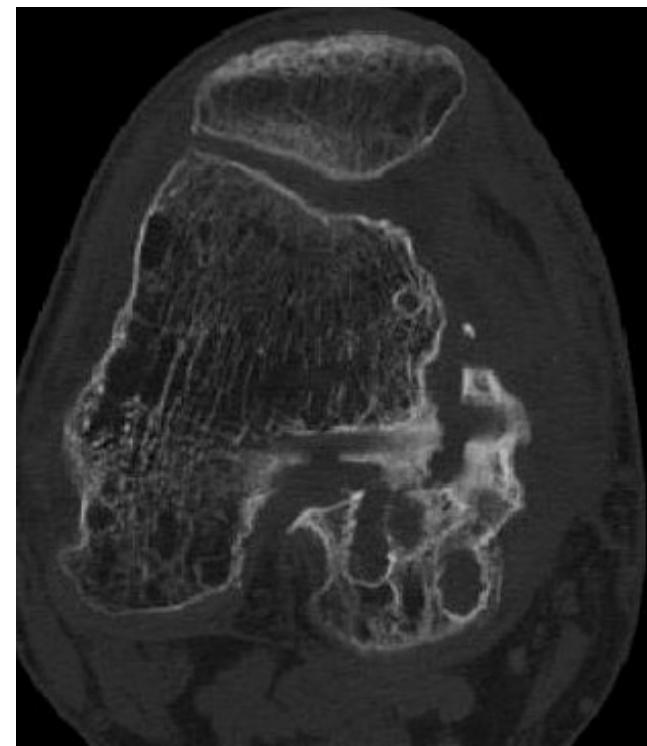


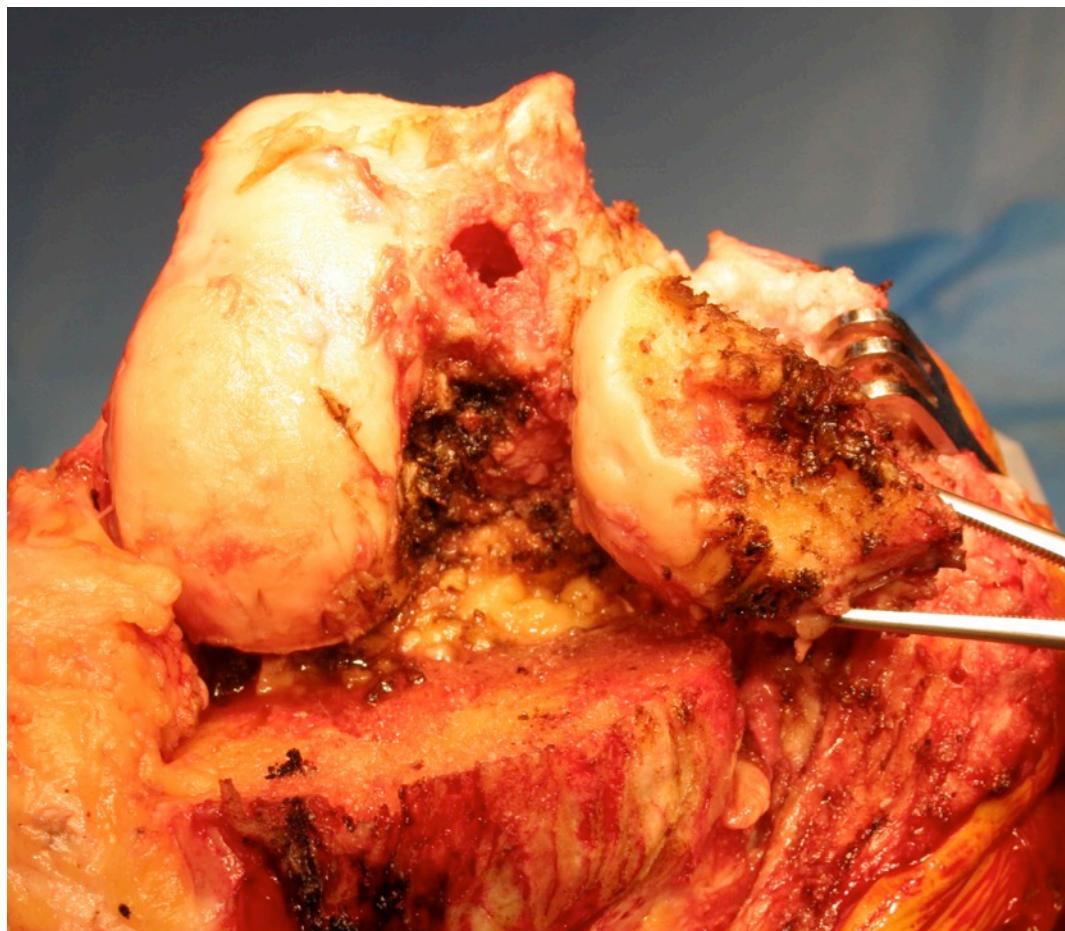
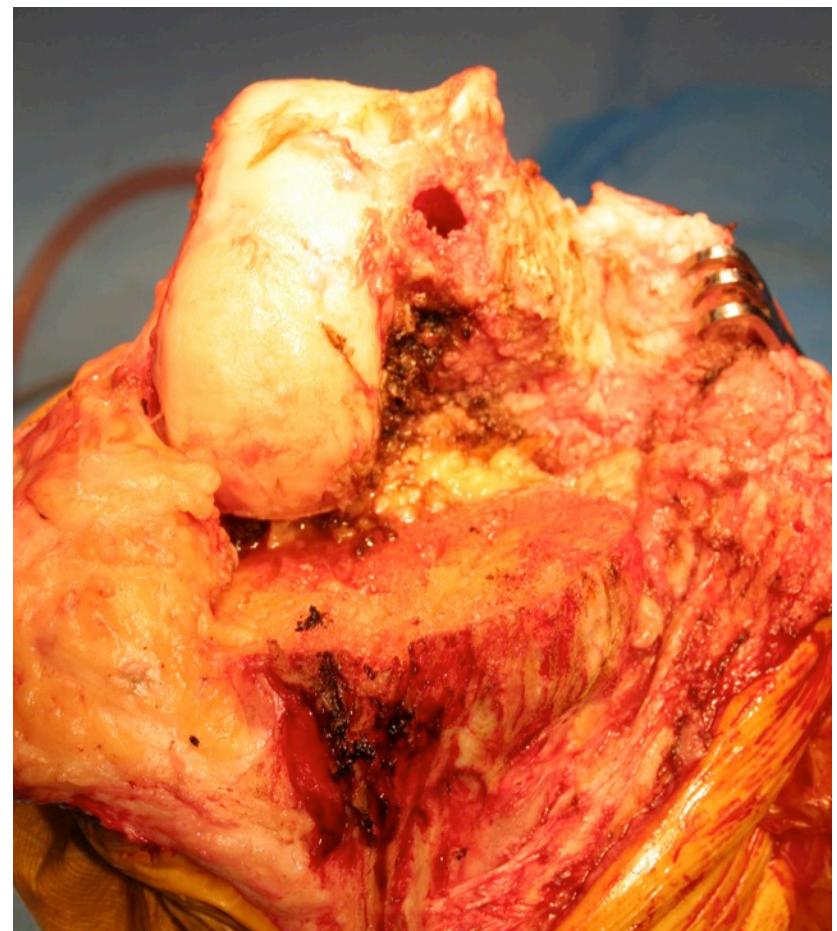
1961-08-14

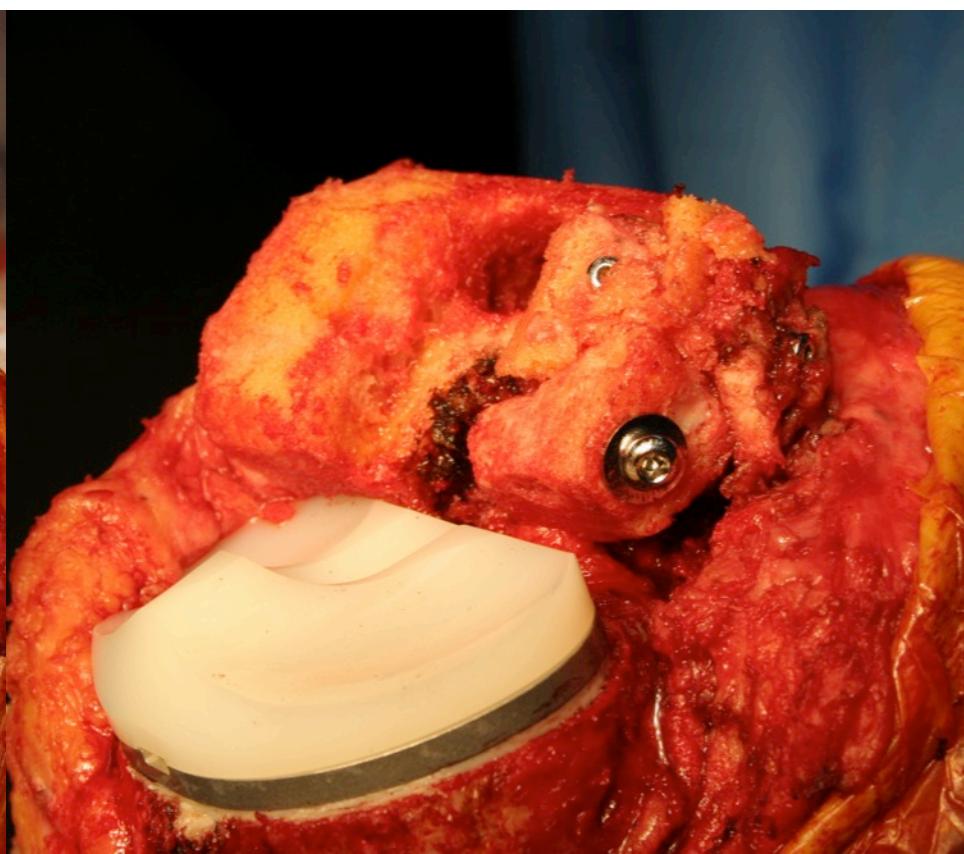
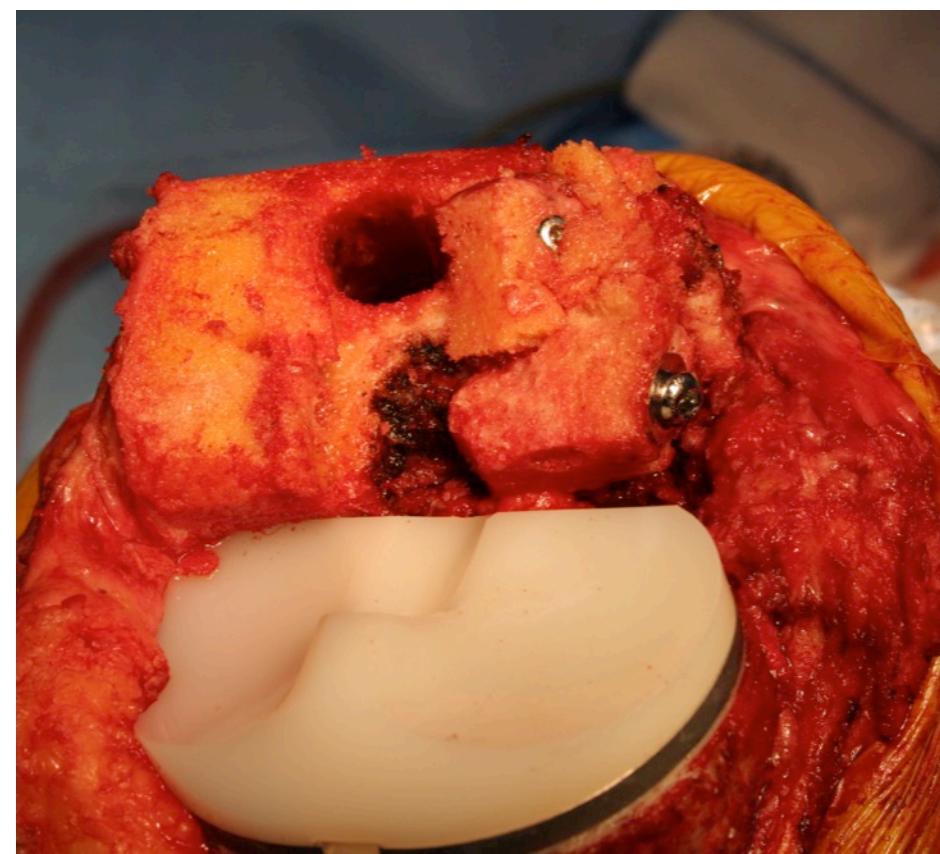
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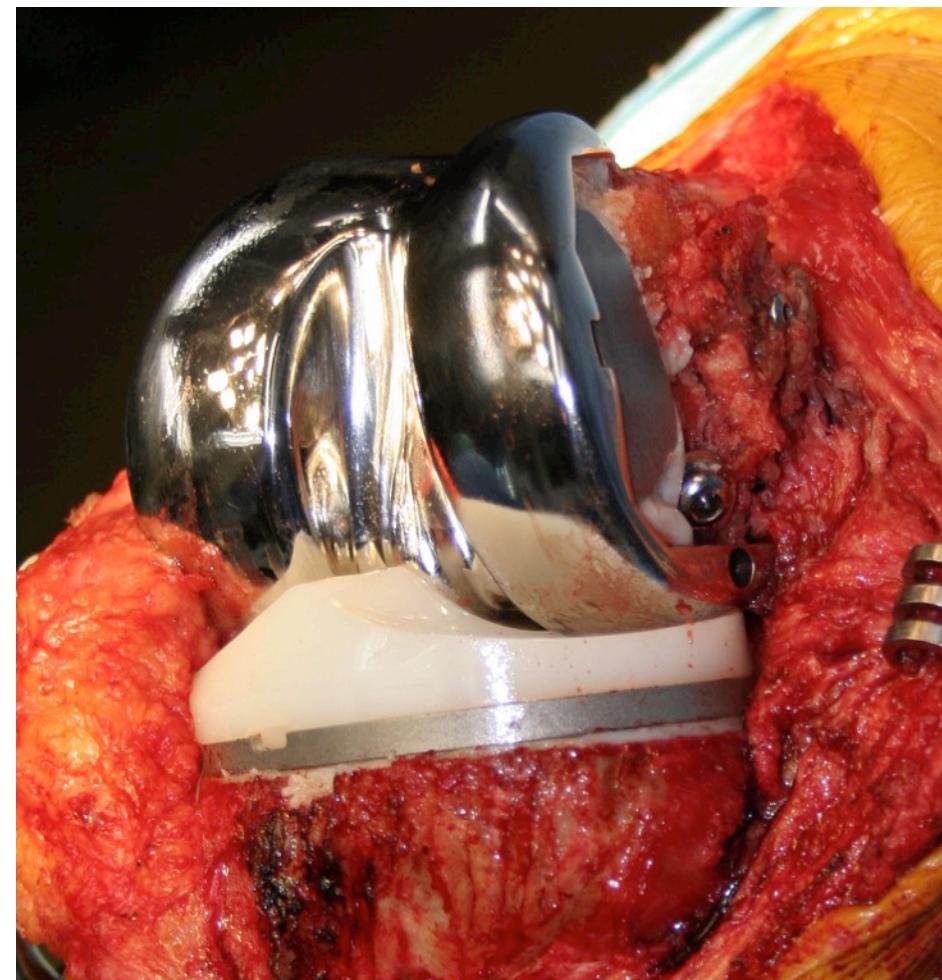
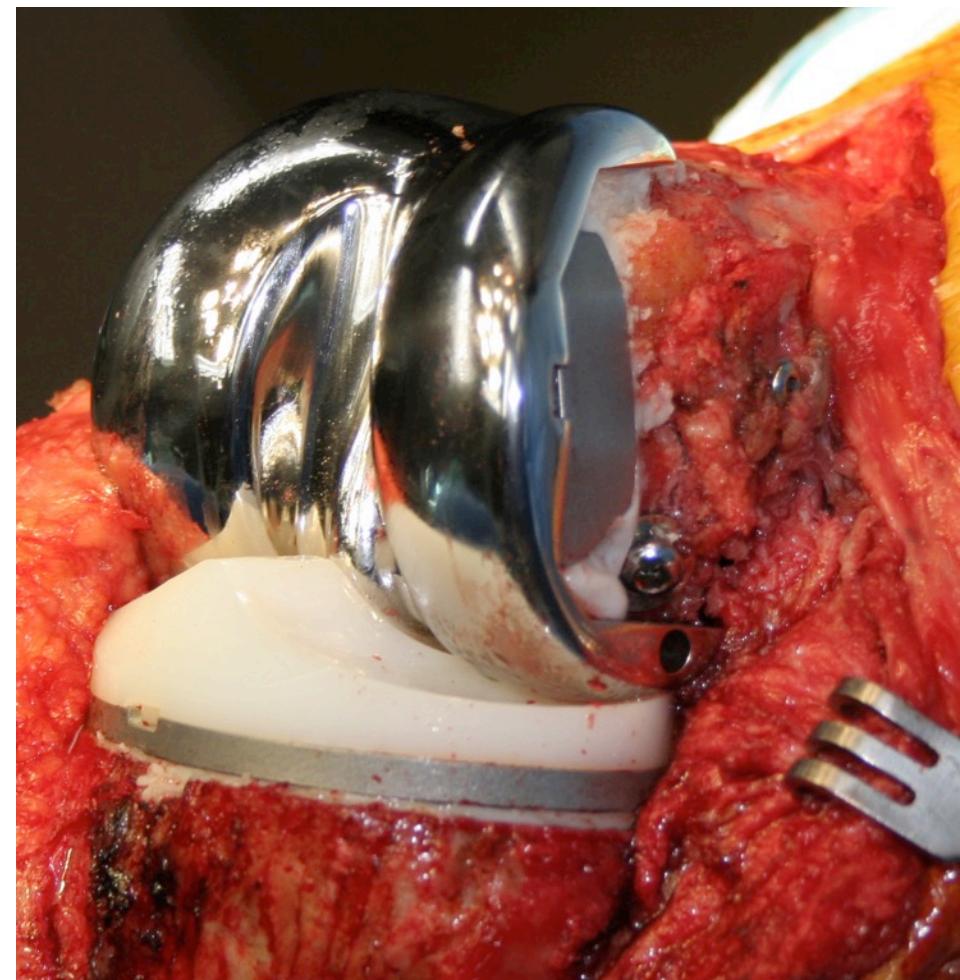
DROI











- PS TKA
- Stem 100mm
- Cemented
- Auto graft
- 1 distal block
- Back to active work
- Normal life



Conclusion

- Analyse the patient's history
- Be prepared to technical difficulties
- TKA is the « art of anticipating »

A photograph of a snowy Lyon cityscape. In the foreground, a bridge with a red roof spans a river, its reflection visible in the water. The bridge is partially covered in snow. Above the bridge, several black cable car lines extend from left to right. In the background, a hillside is covered in snow, with numerous buildings of various architectural styles, some with prominent roofs and crosses. The sky is overcast and grey.

Thank you