



Surgical tips and tricks for re-TKA

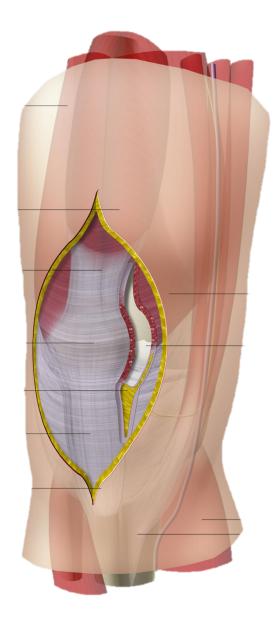
# Implant/cement removal

Francesco Benazzo



# Exposure

- Adequate exposure to avoid injury to the collateral ligament structures, extensor mechanism avulsion, or bone fractures during removal
- No role for minimal access surgery
- To safely remove the implants, the surgeon must access the prosthesis-bone interface
- A surgeon who spends time obtaining adequate exposure should achieve a less destructive implant removal. Typically, the surgical exposure equates directly to implant interface access.

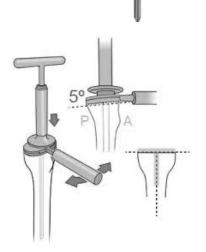




## Instrumentation

- Osteotomes and Chisels
- Disimpaction punches
- Component extraction devices
- Power saw→ my choice of preference
- Thinner and smaller saw on femoral side
- Gigli saw  $\rightarrow$  not my choice of preference
- Occasionally, manufacturer specific extraction tools are available
- Surgeons should be familiar with the implants that are being removed and contact the company sales representative for specific information regarding extraction tools

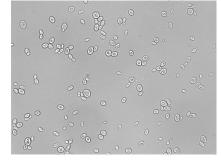


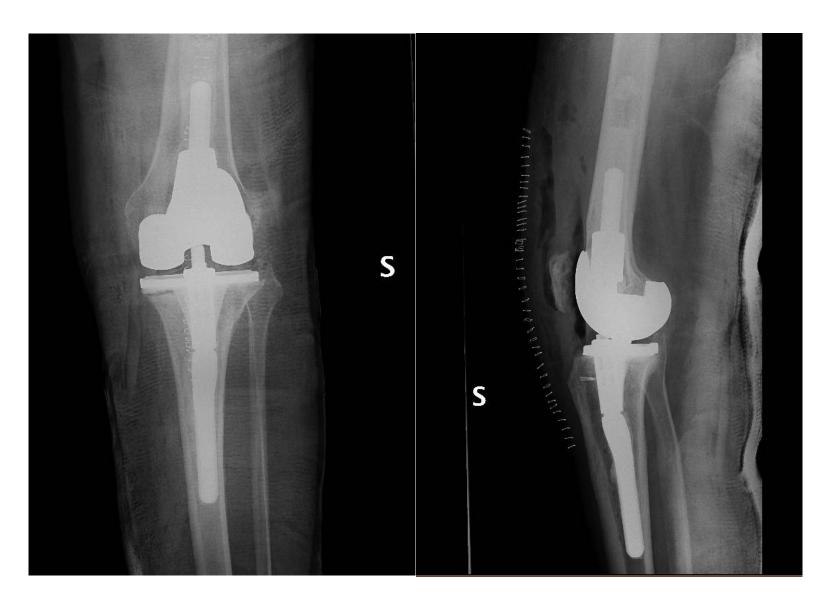


P.G. M, 59 y Candida Glabrata, Staph. Aureus infection

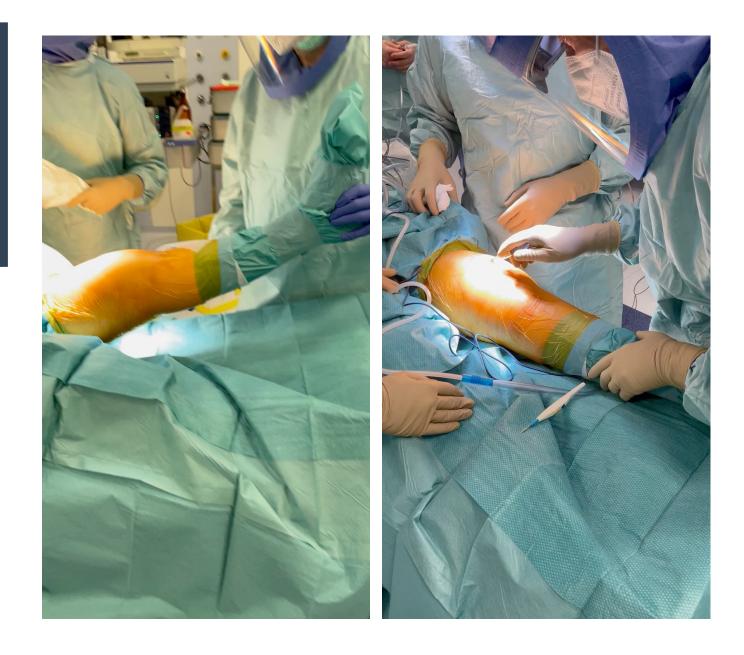
No sinus

#### DAIR ineffective

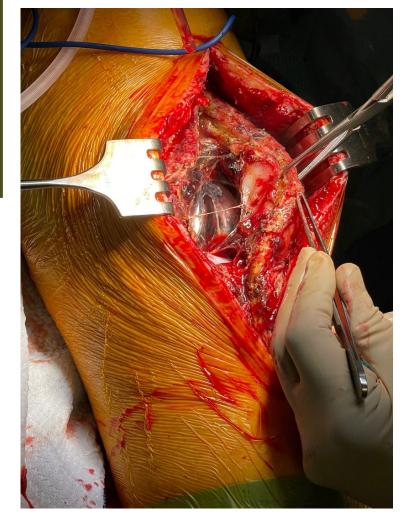




# Evaluation of ROM, incision



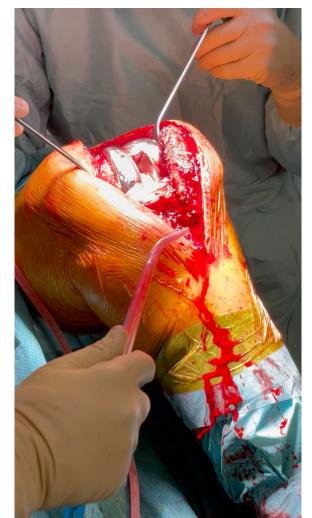
#### Patella removal





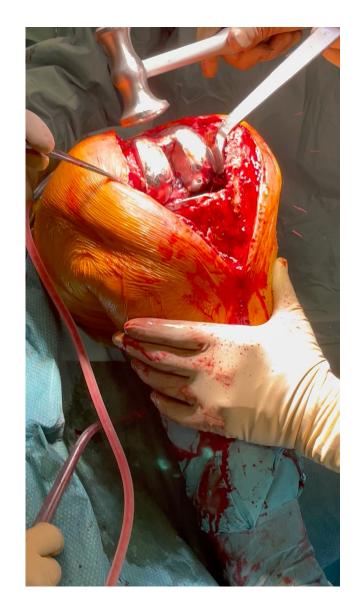
# Polyethylene removal













# Femur





# Femur

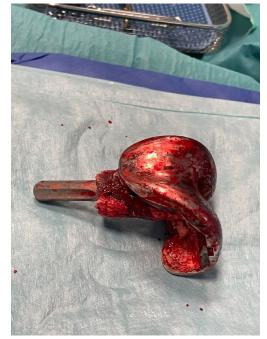






### Femur



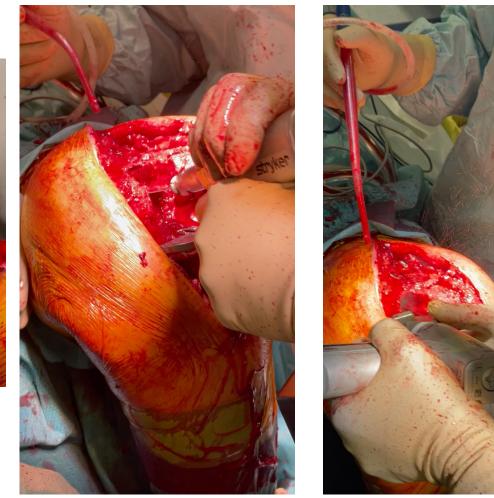






# Cement removal



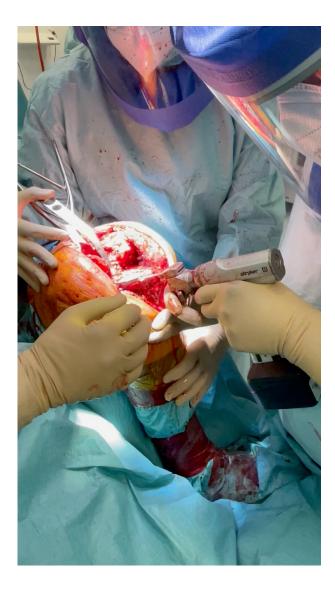




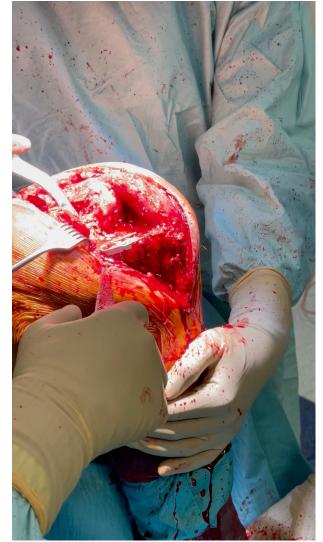
# Cement removal





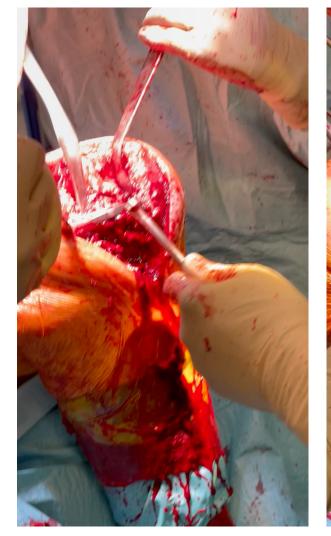


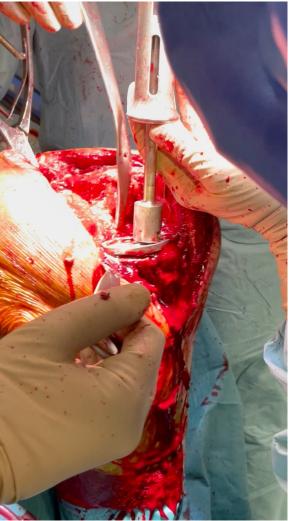
# Tibia

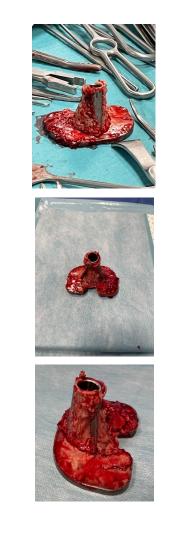




# Tibia

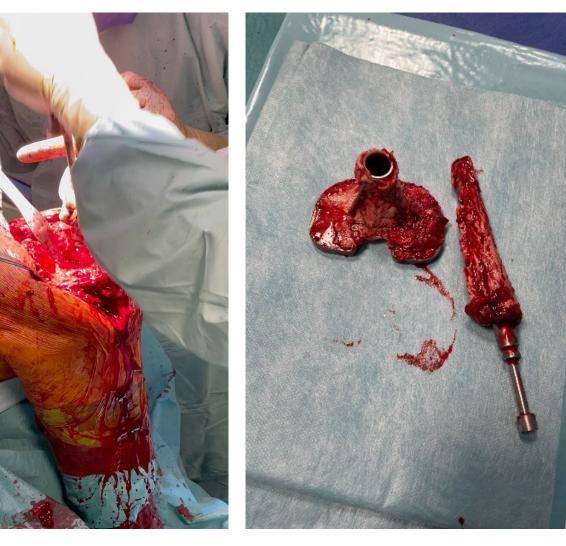






# Tibia









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ORIGINAL ARTICLE

Check for updates

#### Customized intraoperatively molded articulating cement spacers for two-stage revisions TKA with major bone defects

Stefano Marco Paolo Rossi<sup>1</sup> · Marta Medetti<sup>2</sup> · Loris Perticarini<sup>1</sup> · Matteo Ghiara<sup>2</sup> · Francesco Benazzo<sup>1,3</sup>

### Take home message

- Adequate exposure
- Good access to the prosthesis-bone
- Knowledge of instruments and tools
- Experience

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• Patience

