

10th Advanced Course on Knee
Surgery

Debridement of the infected TKR

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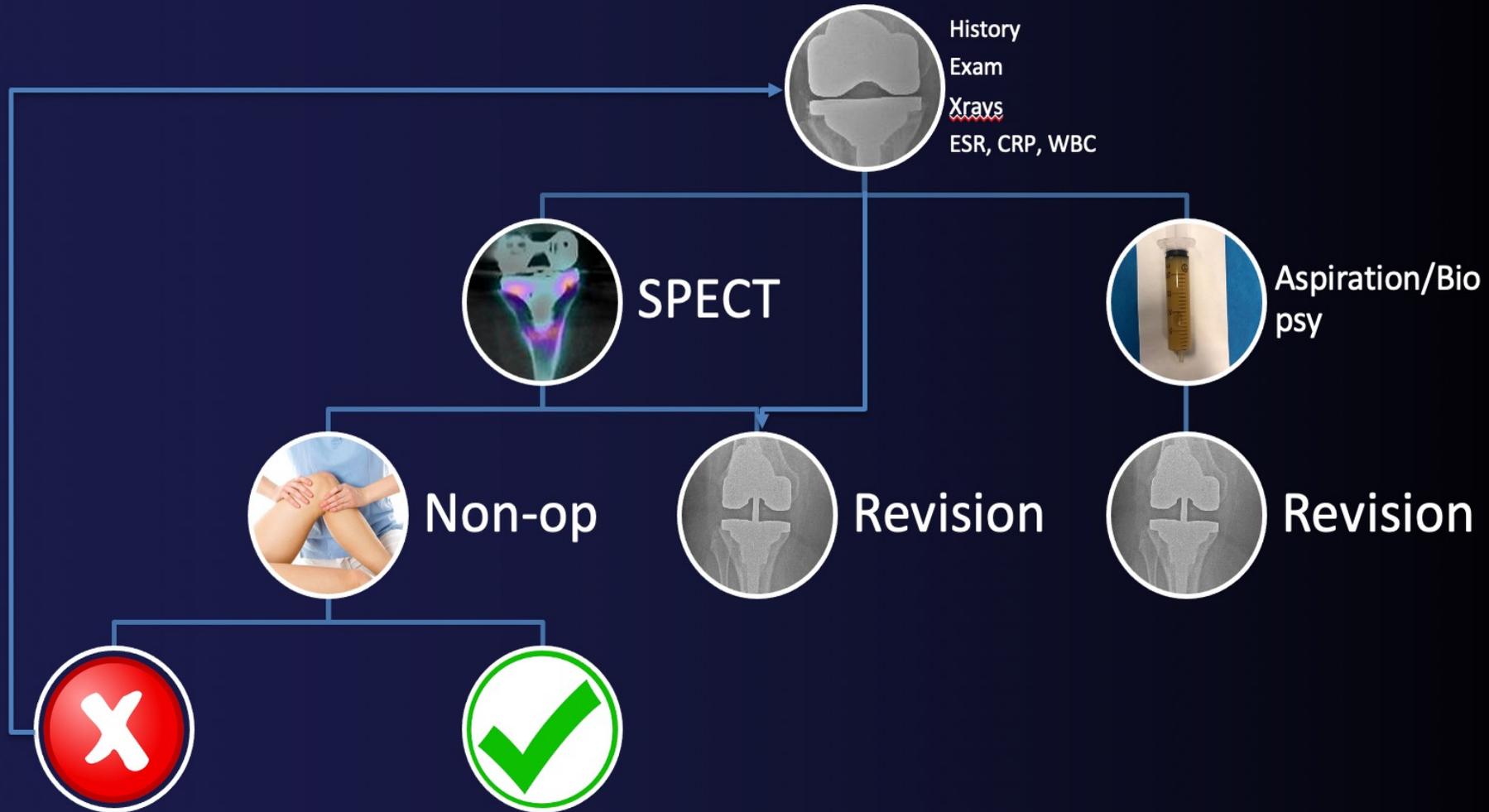


Overview

- Infection following arthroplasty is a devastating diagnosis
- Goals of treatment are 2-fold:
 - Eradicate infection
 - Restore function
- Both must be achieved for success



Algorithm



Algorithm

- Infection has been diagnosed
- We have options...

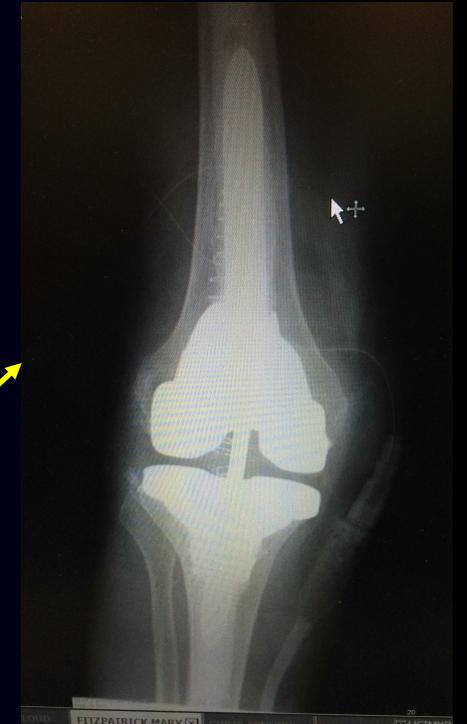
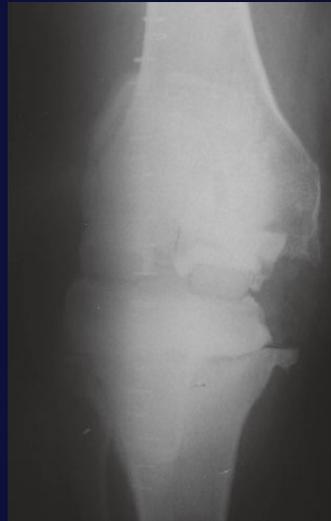


Aspiration/Bio
psy



Revision

Options...



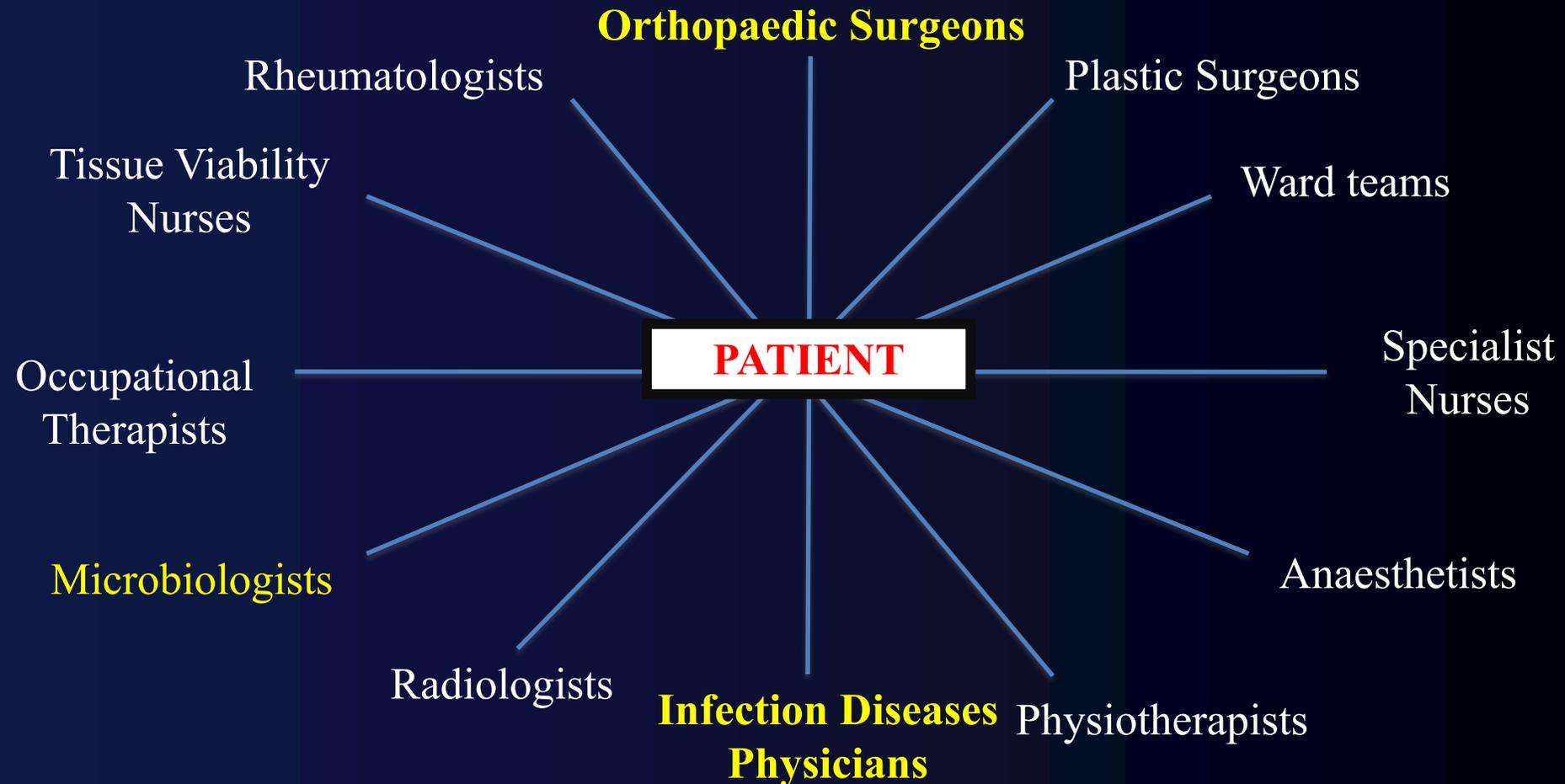
CHRONIC

ACUTE

CHRONIC



Multidisciplinary team



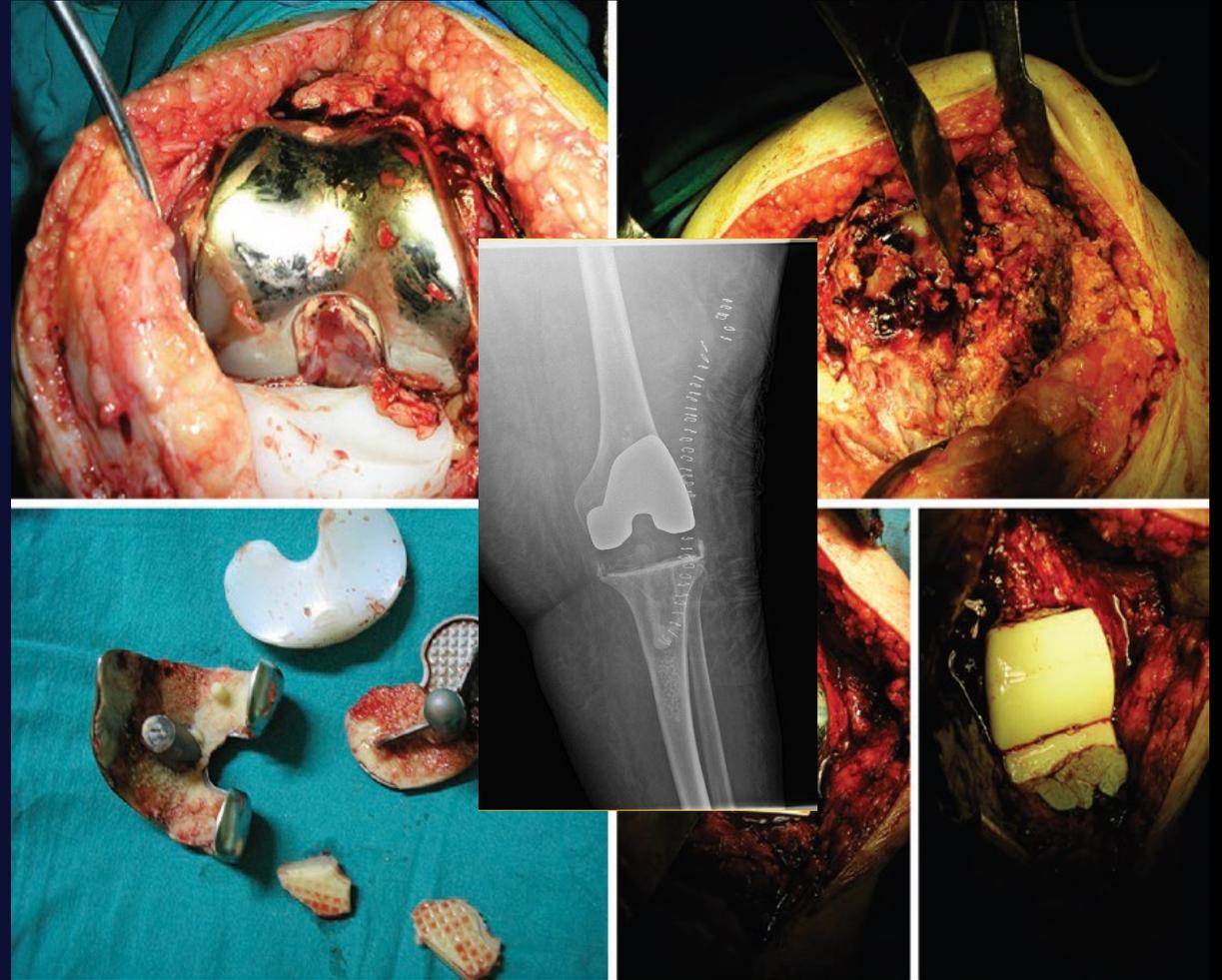
2 stage revision

- 1st stage:

- Debridement (surgical, mechanical, chemical)
- Cultures
- Implant removal
- Spacer - ABs
- IV ABs
- Wait.... (6-12 weeks)

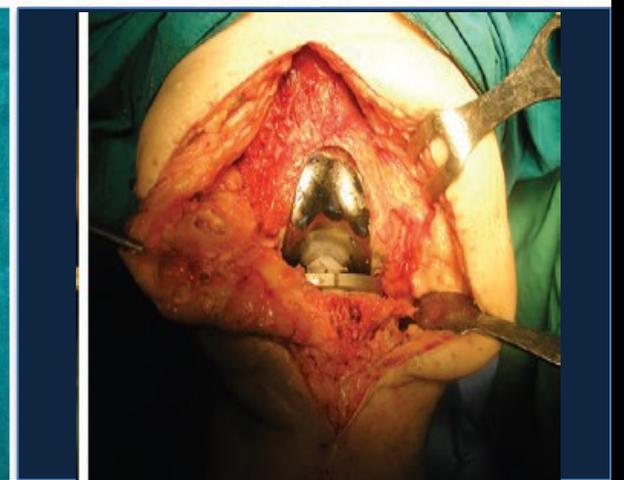
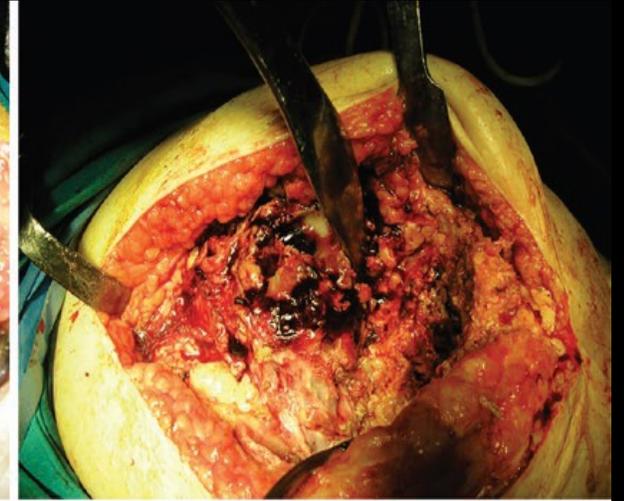
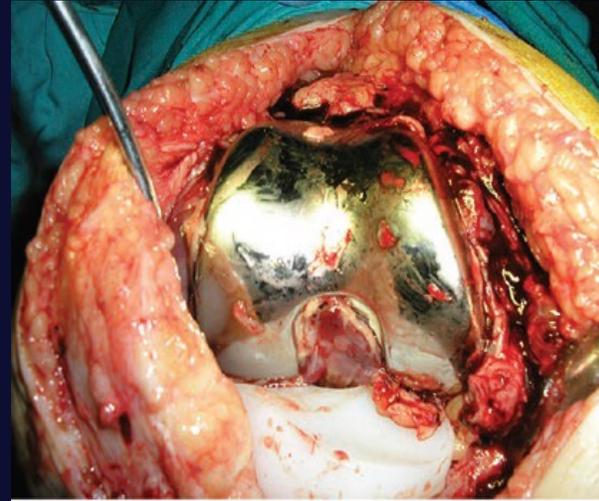
- 2nd stage:

- Debridement
- Cultures
- Spacer removal
- Definitive implant
- IV ABs (short duration)



1 stage revision

- 1st stage:
 - Debridement
 - Cultures
 - Implant removal
 - ~~Spacer ABs~~
 - IV ABs
 - ~~Wait.... (6-12 weeks)~~
- 2nd stage:
 - Debridement
 - Cultures
 - Spacer removal
 - Definitive implant
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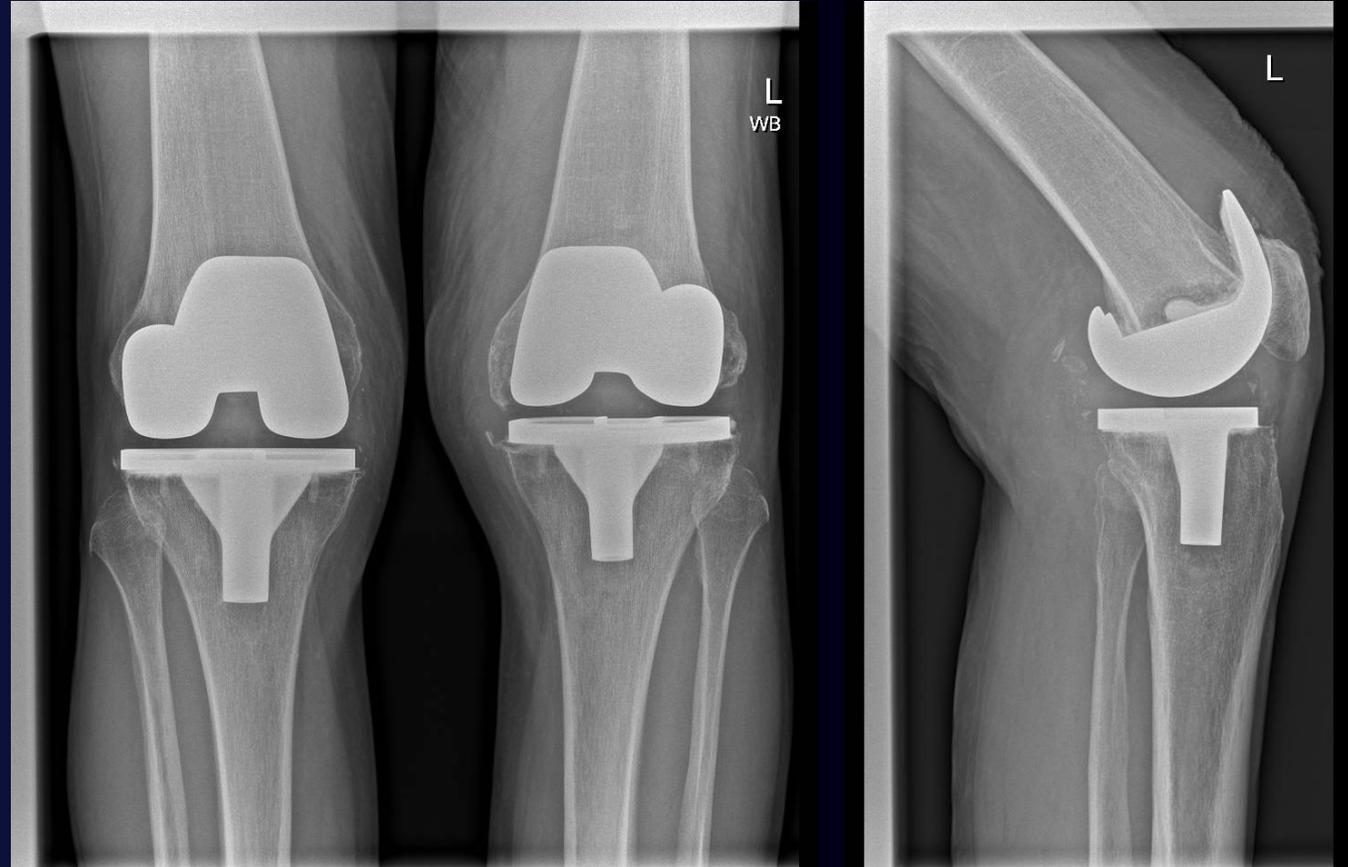
Debridement

- Adopt a systematic approach
- Sampling
- Clear all synovium and periprosthetic bone
- Combined mechanical and chemical methods



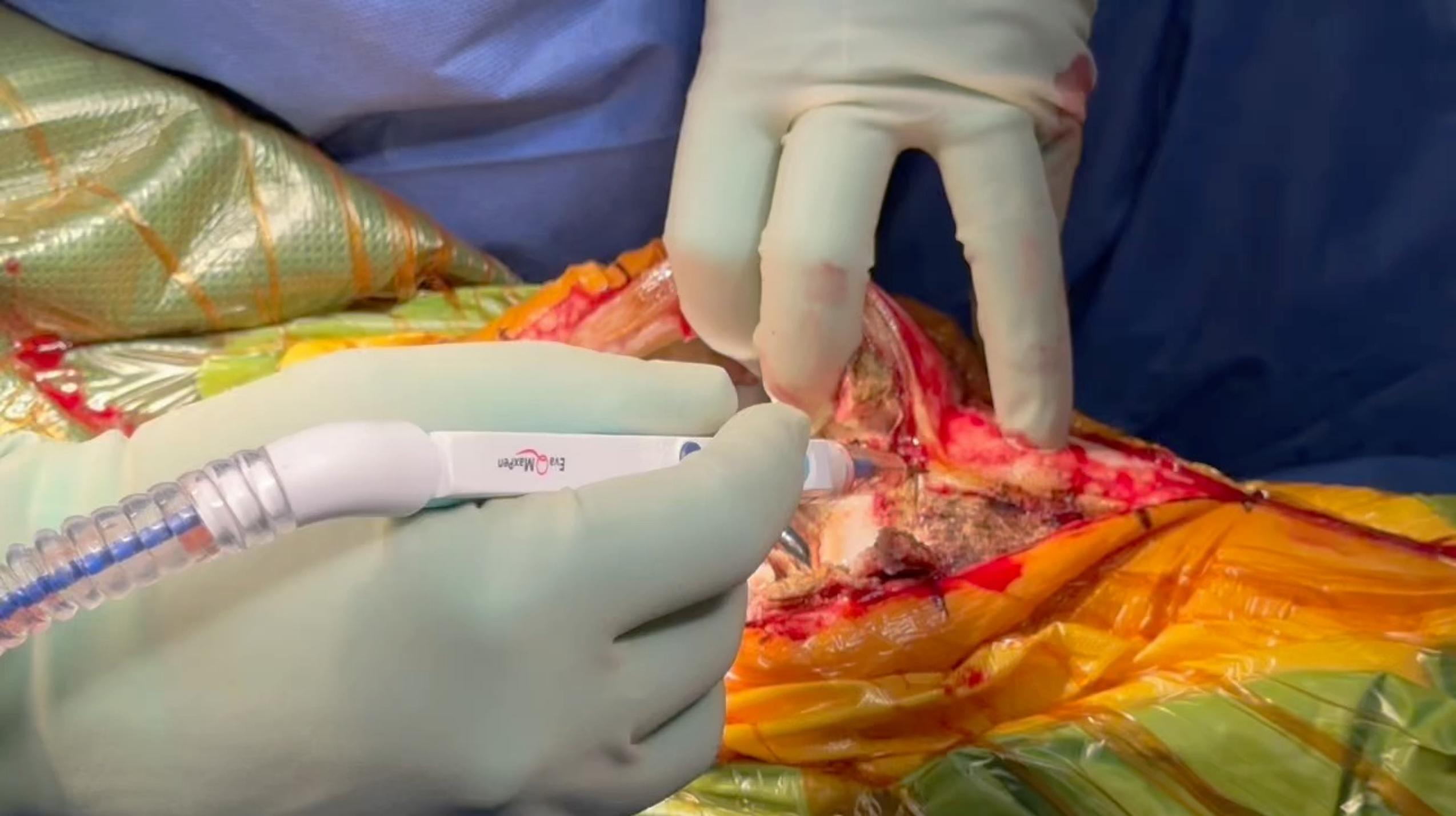
Debridement

- 64 yo lady
- Inflamm arthropathy
- Bilateral TKR 20 years ago
- Atraumatic left knee pain
- History of infected multiply revised elbow replacement





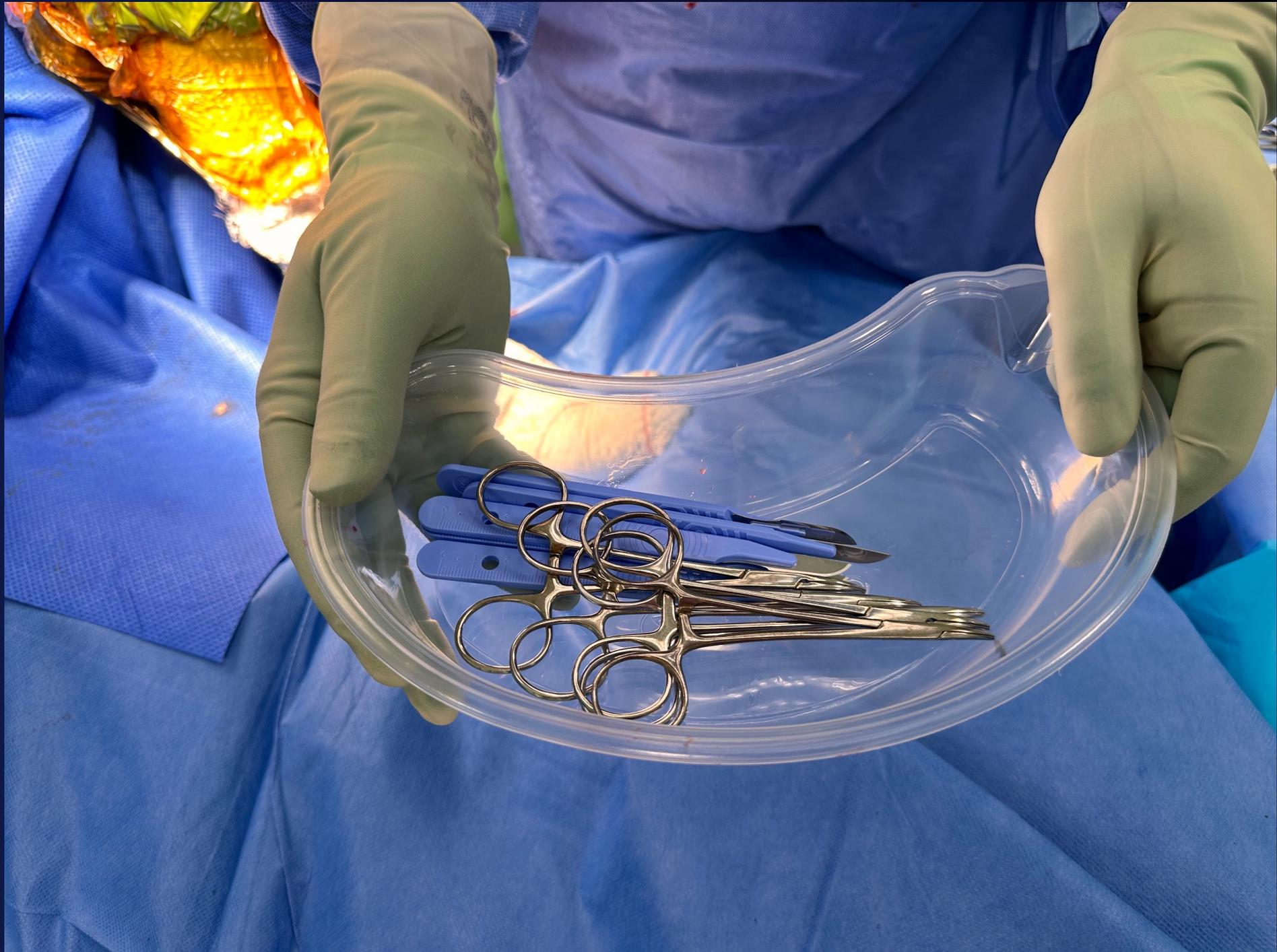




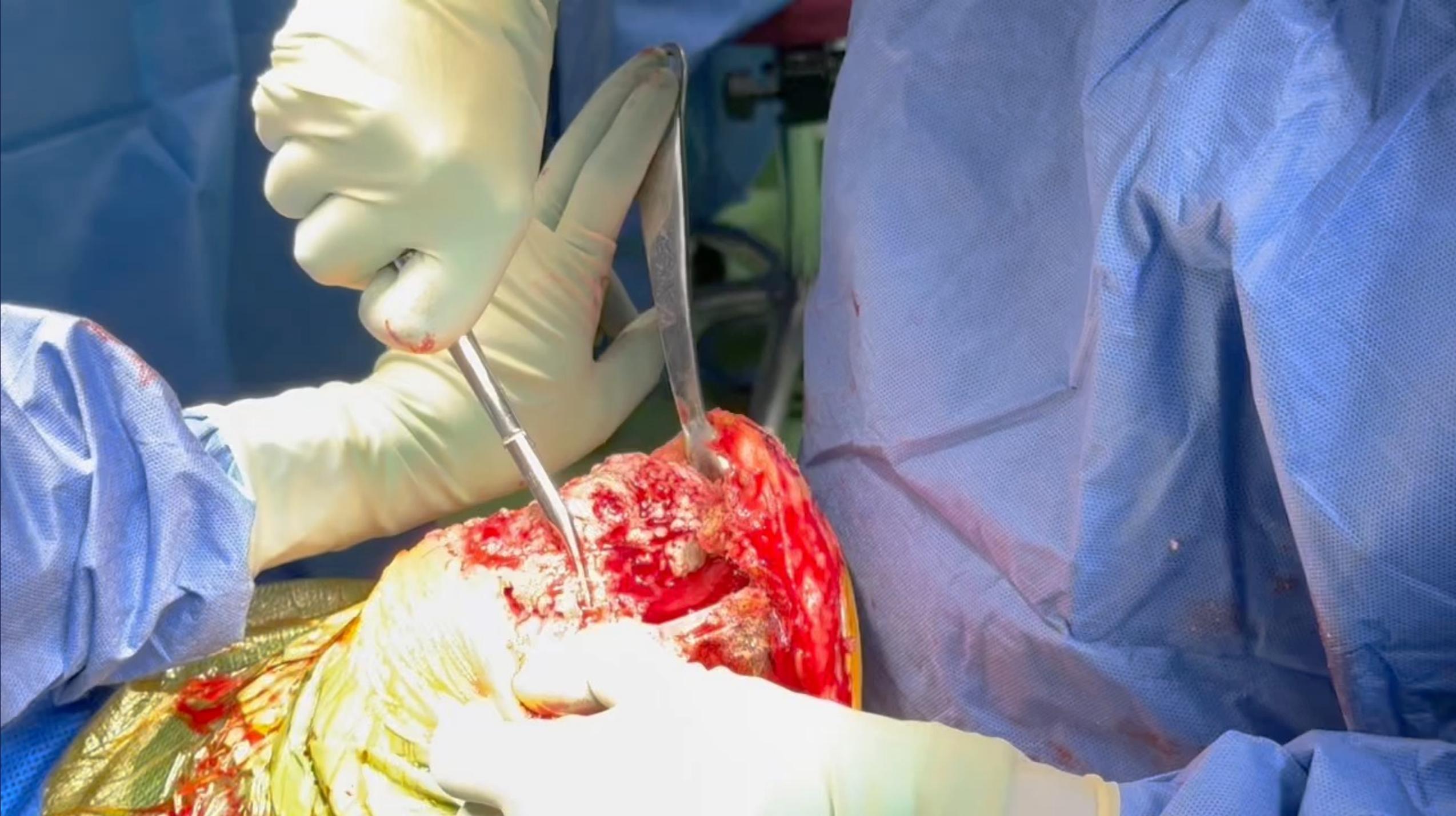


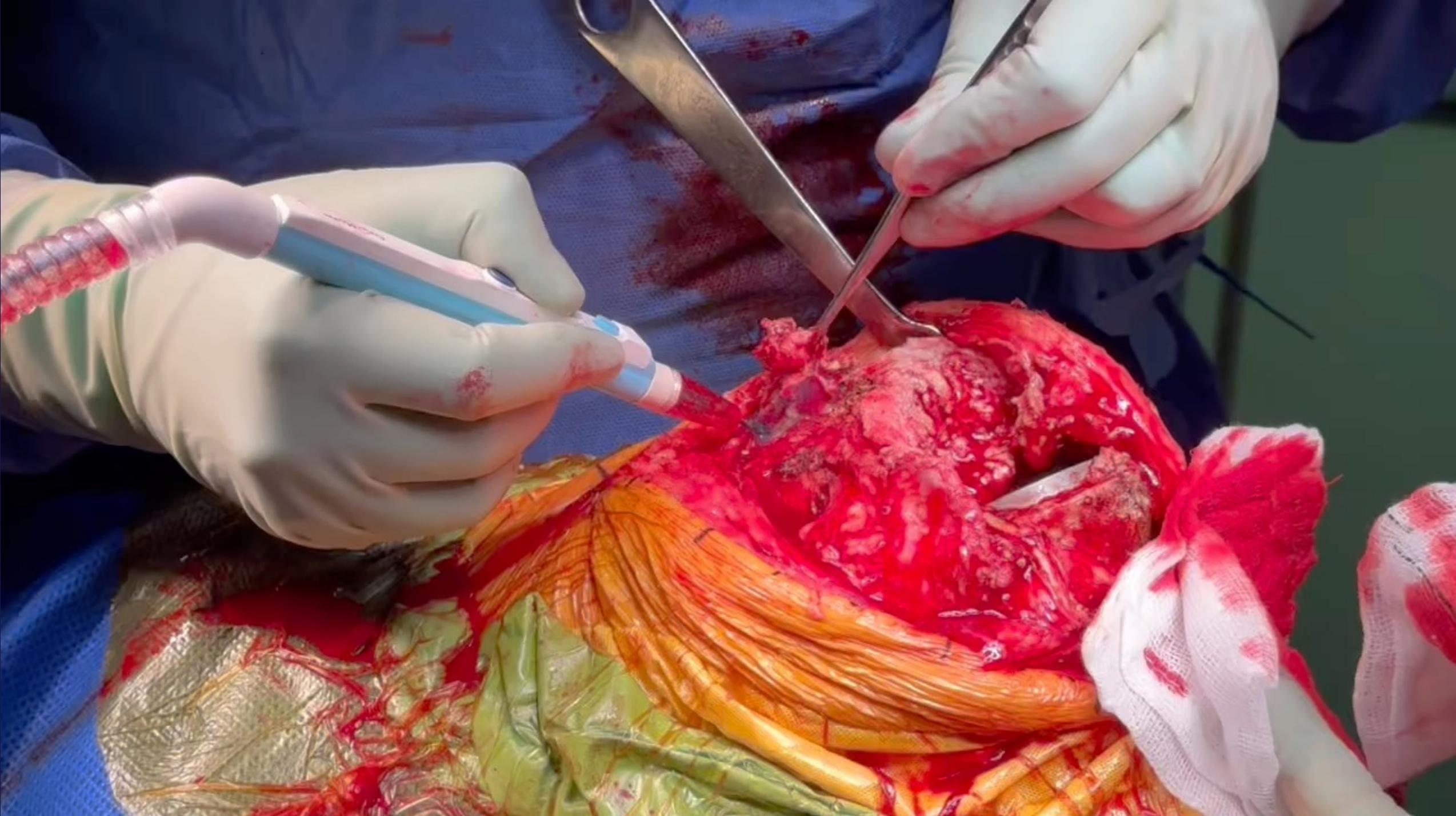


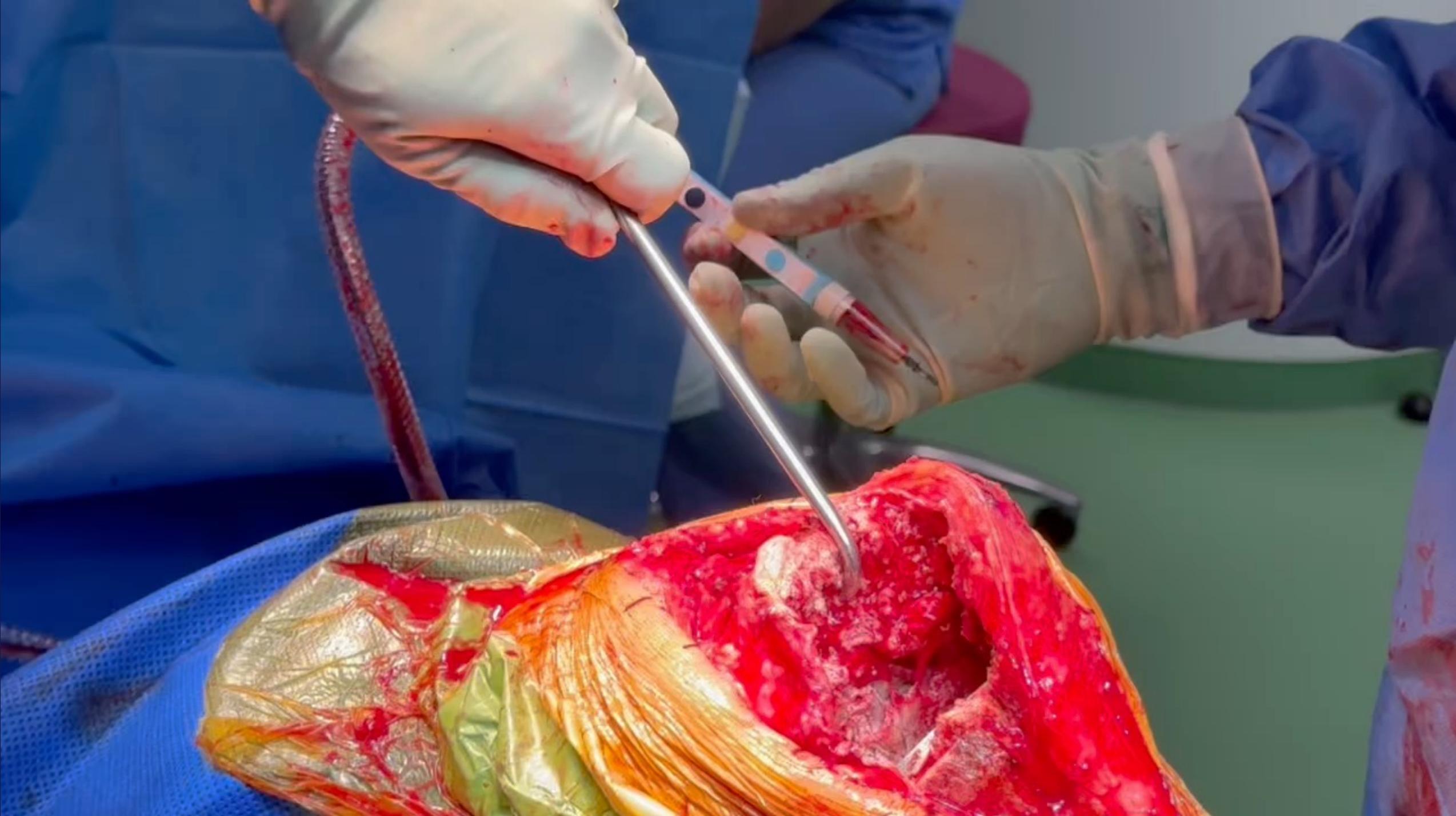






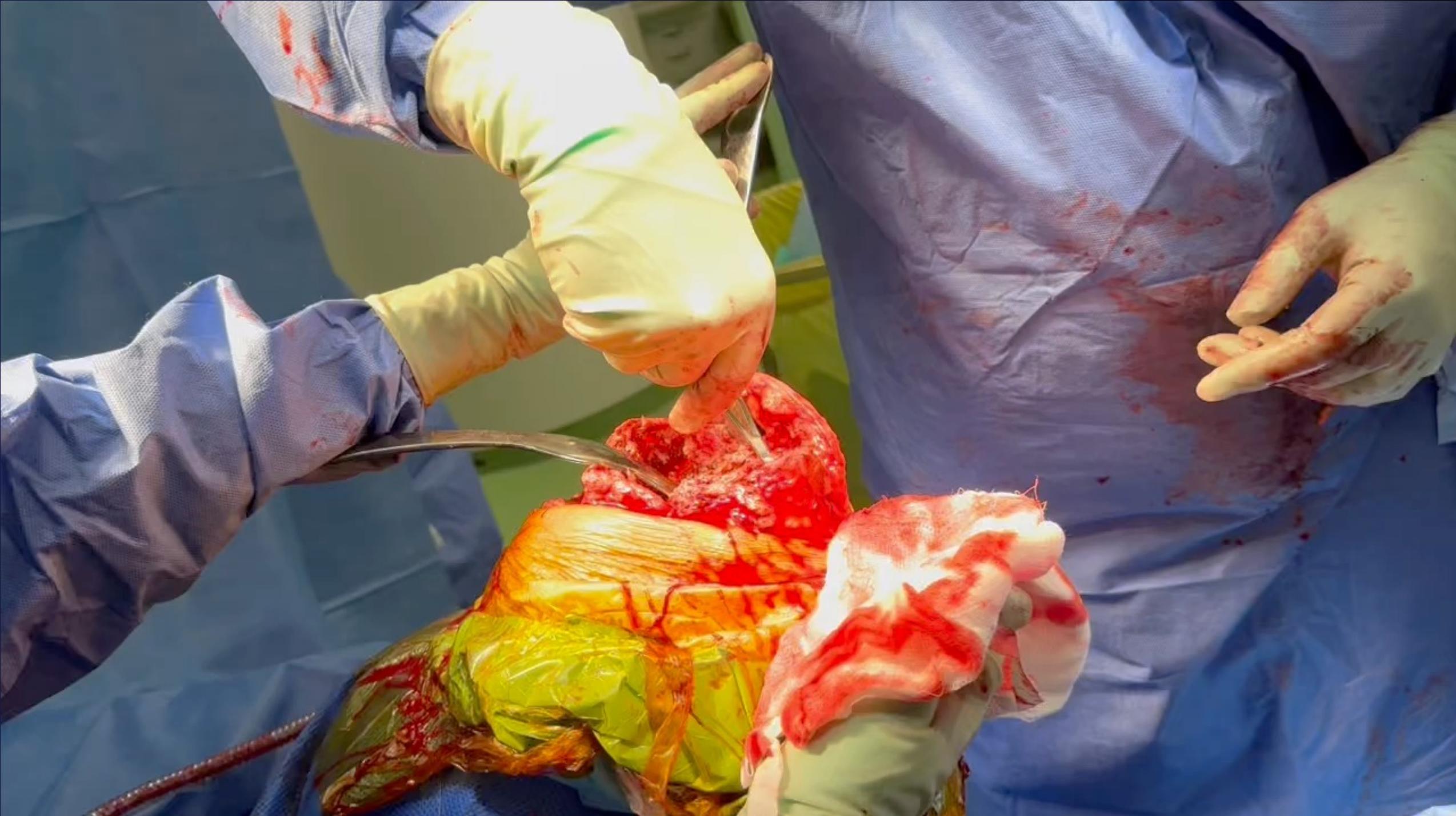
















Conclusion

- Debridement is the key to success in treating PJI
- Adopt a systematic approach
- Mechanical and chemical debridement
- Have the tools and prostheses to allow a stable reconstruction, regardless of strategy



Thank you

