

VASCULAR MANAGEMENT IN WINKELMANN ROTATIONPLASTY

ID342

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INTRODUCTION AND AIMS

Winkelmann rotationplasty is a functional limb-salvage procedure used for the complete resection of large tumors located in the hip and pelvic area

Vascular management typically involves:

- femoro-popliteal resection-anastomosis
- the “vascular loop” technique

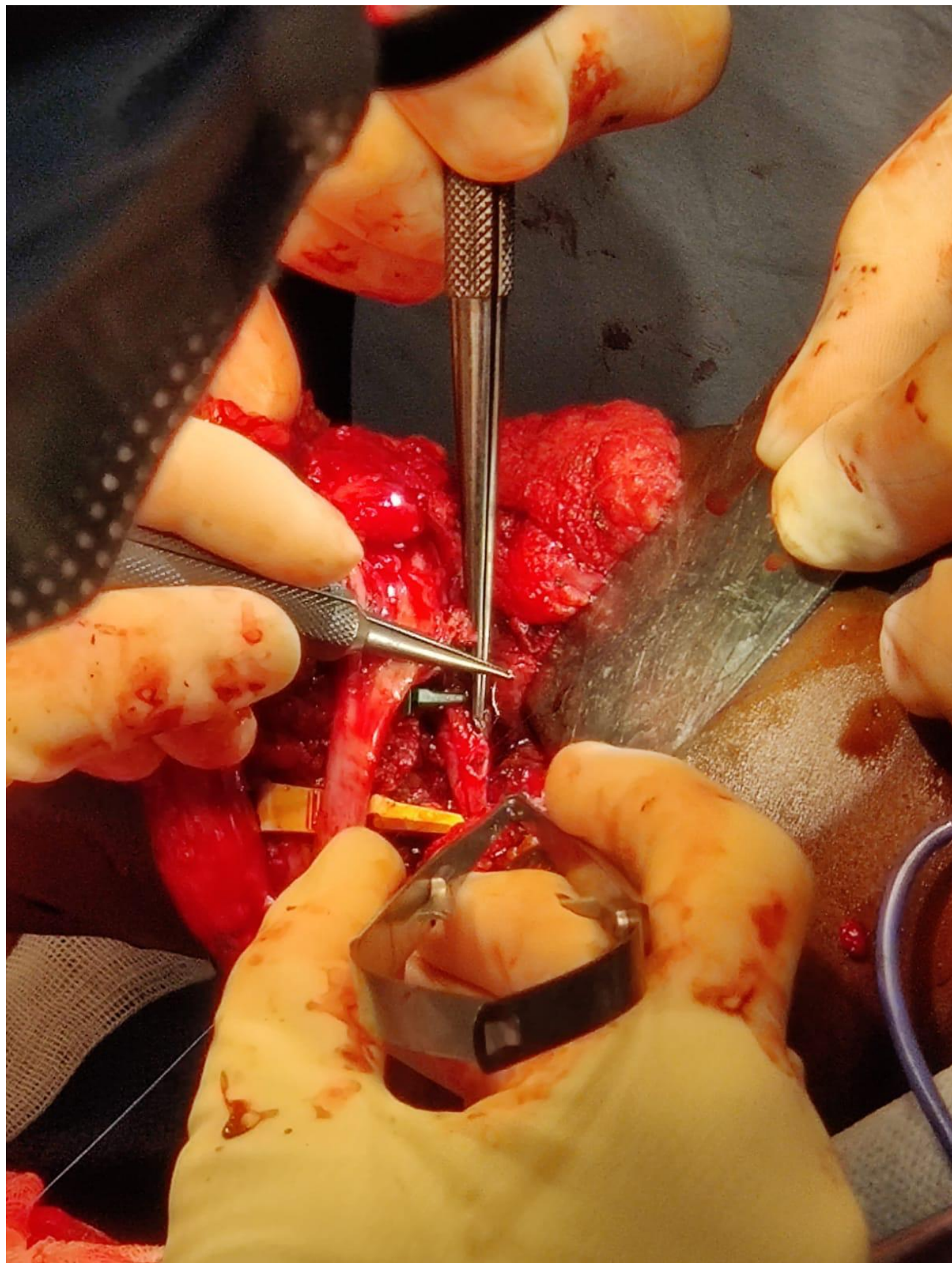
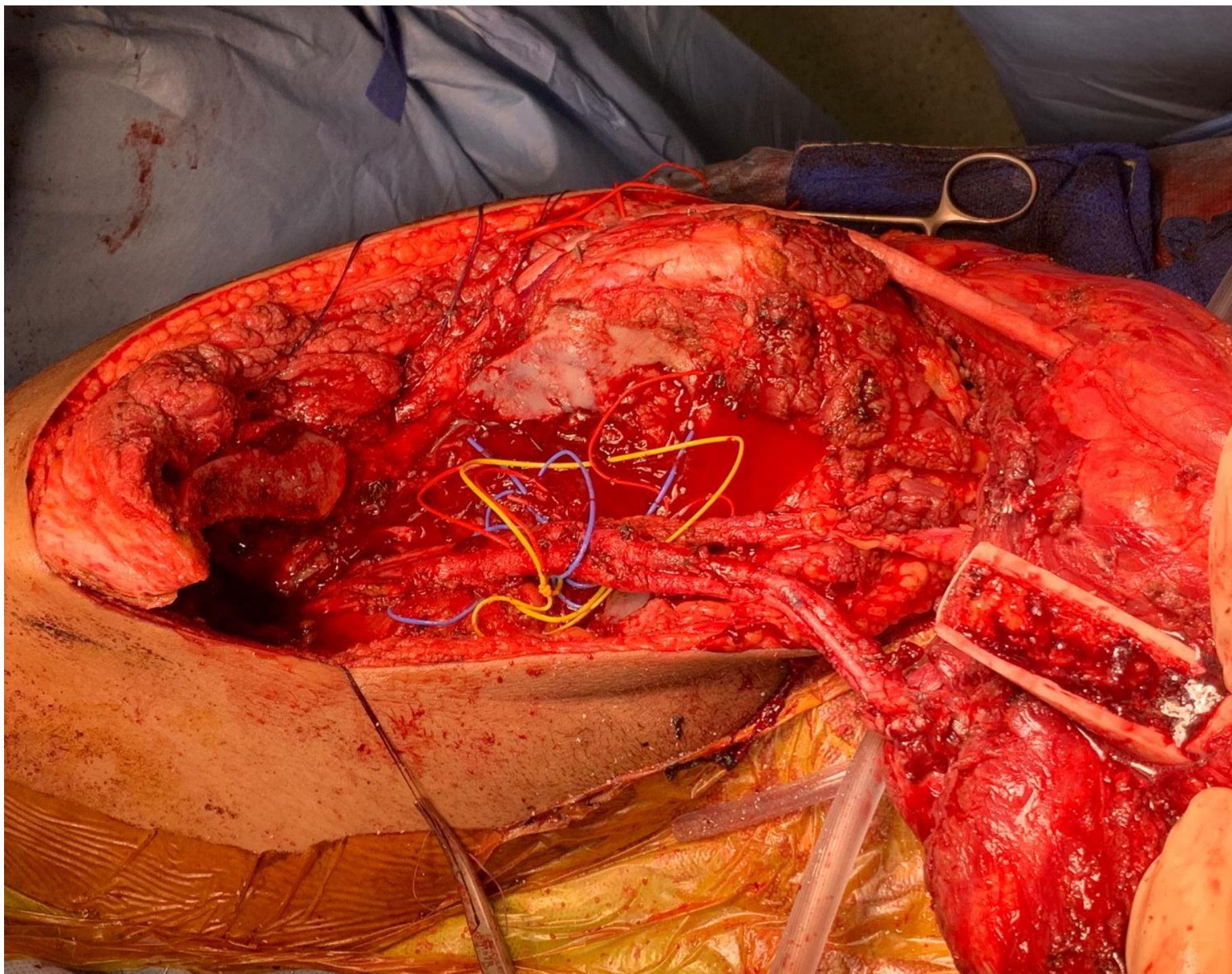
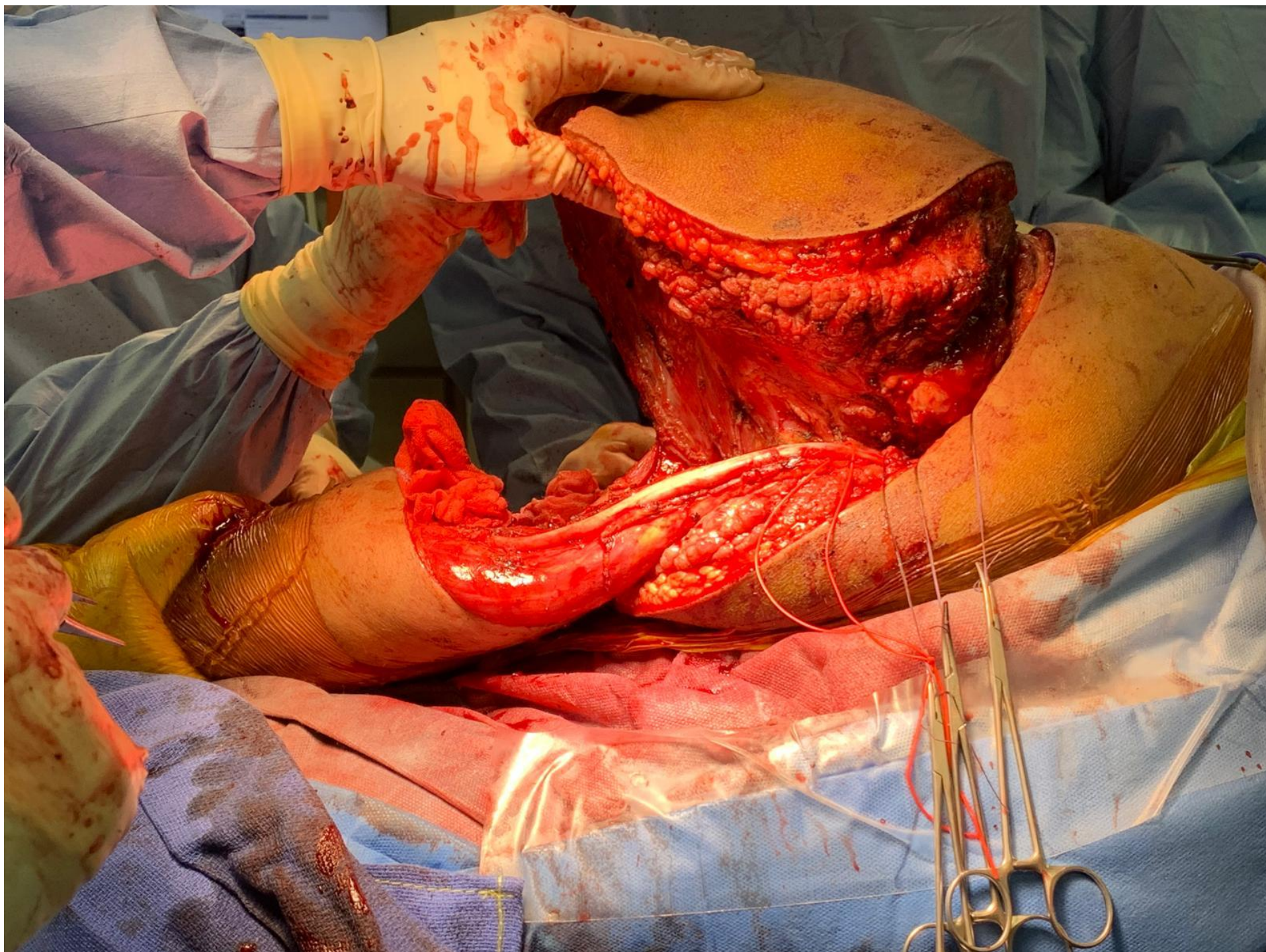


MATERIALS AND METHODS

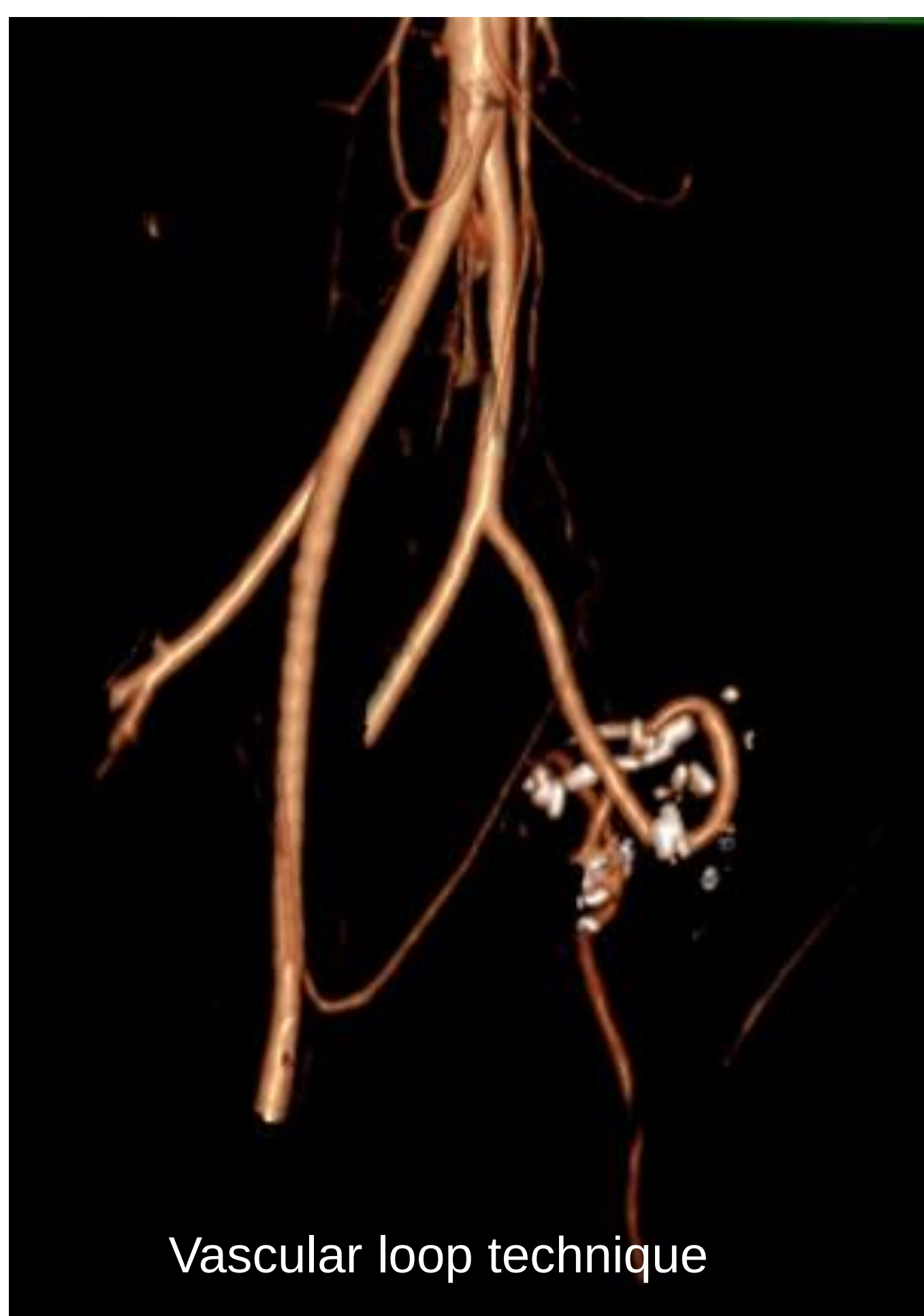
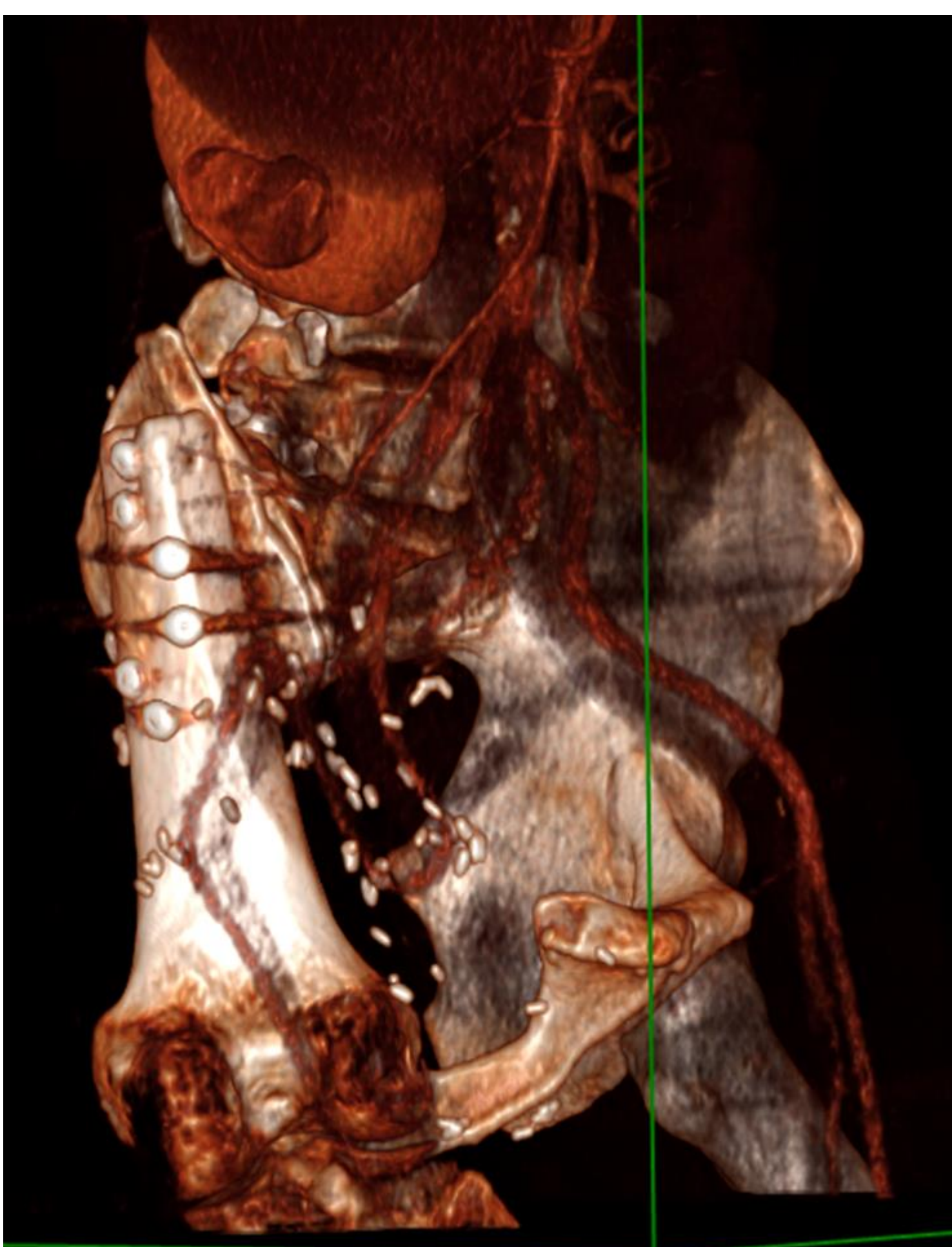
We describe our experience of 4 cases: 2 with femoro-popliteal resection-anastomosis
2 with vascular loop technique

1 case occurred in a septic context
radiological follow-up using angio-CT/MRI imaging

RESULTS



Femoro-popliteal anastomosis



Vascular loop technique

CONCLUSIONS

Based on our experience, we conclude that the related vascular procedure should be adequately chosen
1 patient needed reoperation for stenosis on the loop route
The 4 patients achieved excellent clinical and fonctionnal results on their reconstruction

Femoro-popliteal resection-anastomosis technique:

- technically challenging: difficult to accurately assess the resection length and avoid tension/kinking suture performed in a limited space
- prolonged clamping time of the vessels
- less suitable in infected fields

Vascular loop technique:

- potential complications by compression from surrounding bone structures
- loop difficult to manage during reoperation

