

SAFARI POUR LES NULS

CACVS 2018

Sébastien Véron M.D.
Saint Etienne



Hôpital privé
de la Loire

First steps for retrograde access in Saint Etienne
with Sébastien Véron

SAFARI FOR DUMMIES[®]



A Reference for the Rest of Us![®]

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Disclosures



GE Healthcare



Hôpital privé
de la Loire



Retrograde access
What can be done ?
About my early experience on 25 procedures

Sébastien Véron M.D.
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Caen - France



Experience from 100 SAFARI cases

Cook Symposium – CACVS 2013
Sébastien Véron M.D.
Private Hospital Center Saint Martin
Caen - France



« One simplifies »
« One practices »
« One shares »

What's the issue ?

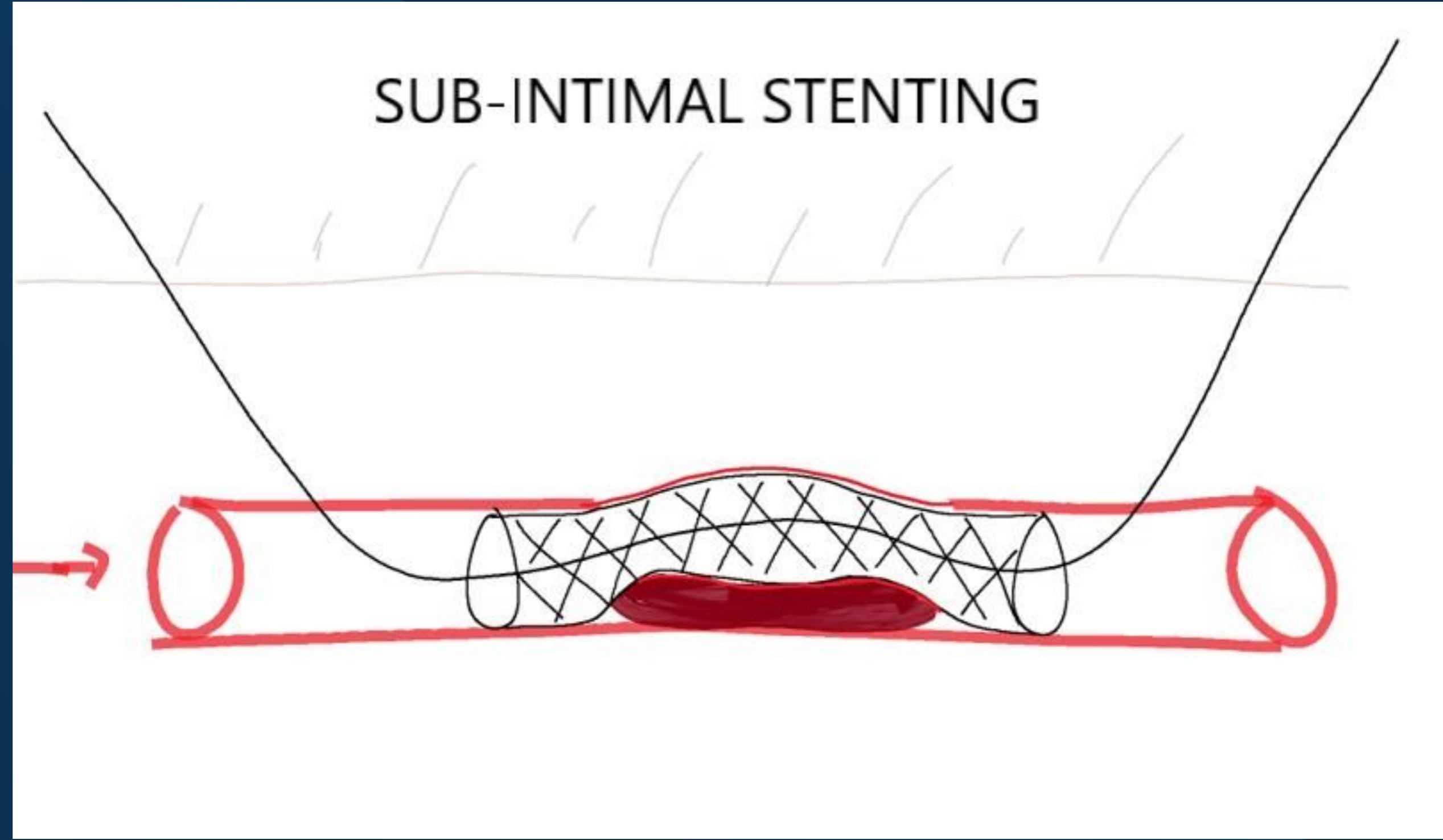
~~How ?~~

The real question is :

+++ Why ? +++

SAFARI - CONCEPT

Subintimal
Arterial
Flossing
Antegrade
Retrograde
Intervention



J Vasc Interv Radiol. 2003 Nov;14(11):1449-54.

Simultaneous antegrade and retrograde access for subintimal recanalization of peripheral arterial occlusion.

[Spinoza DJ](#), [Leung DA](#), [Harthun NL](#), [Cage DL](#), [Fritz Angle J](#), [Hagspiel KD](#), [Matsumoto AH](#).

Department of Radiology, University of Virginia Health System, Charlottesville, Virginia 22908, USA. djs4m@virginia.edu

J Vasc Interv Radiol. 2005 Jan;16(1):37-44.

Subintimal arterial flossing with antegrade-retrograde intervention (SAFARI) for subintimal recanalization to treat chronic critical limb ischemia.

[Spinoza DJ](#), [Harthun NL](#), [Bissonette EA](#), [Cage D](#), [Leung DA](#), [Angle JF](#), [Hagspiel KD](#), [Kern JA](#), [Crosby I](#), [Wellons HA](#), [Hartwell GD](#), [Matsumoto AH](#).

Fairfax Radiology Consultants, Inova Fairfax Hospital, Falls Church, Virginia, USA. djs4m@virginia.edu

What for ?

- 20 %: complexe BTK recanalizations (failure by the top or artery injury or break)
- 65 %: finding the true lumen for SFA and popliteal recanalizations
- 14%: iliac recanalizations
- 1 % : other !

=

No use of expensive devices

(Outback, Pionner, Truepath...)

Hybrid room - Installation



STEP 1 – DISTAL ANGIOGRAPHY

- Take the decision quickly (less than 5 minutes – sometimes without trying by the top)
- Which artery to puncture ? The easiest +++
- No pressure on your shoulders ? You'll succeed ☺

KEY POINT

+++

THE DIFFICULTY WILL NO LONGER BE IN THE
CROSSING OF THE OCCLUSION BUT ONLY IN
THE PUNCTURING OF THE SMALL ARTERY

+++



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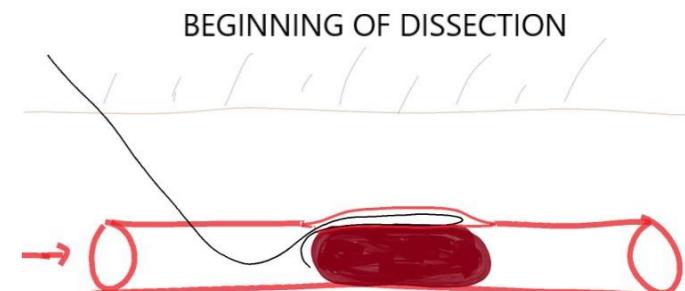
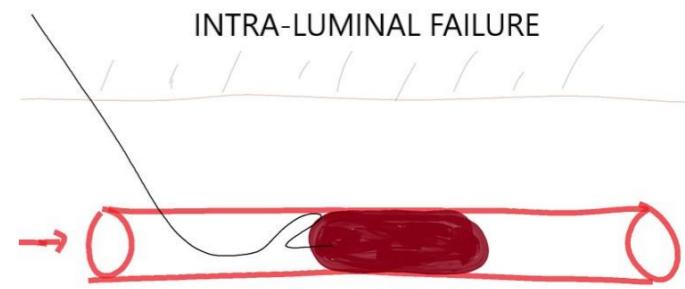


Step 2 – ANTEGRADE DISSECTION

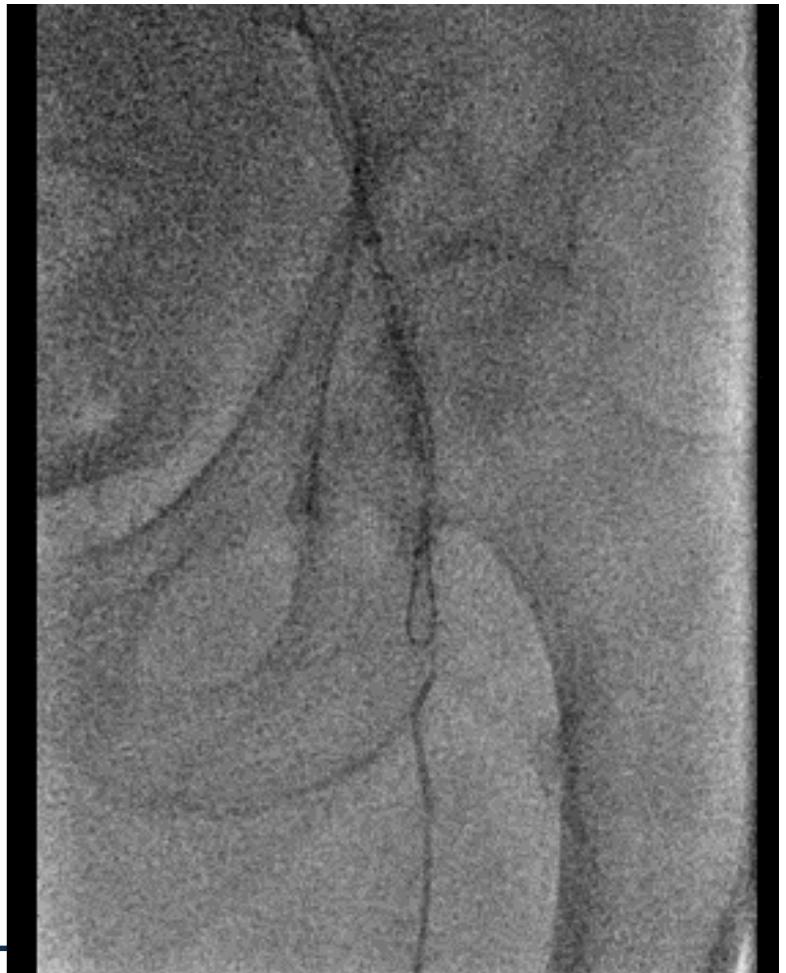
- Sometimes difficult with calcifications
- Close to the reentry

Don't worry :

« you've got a distal artery to puncture »

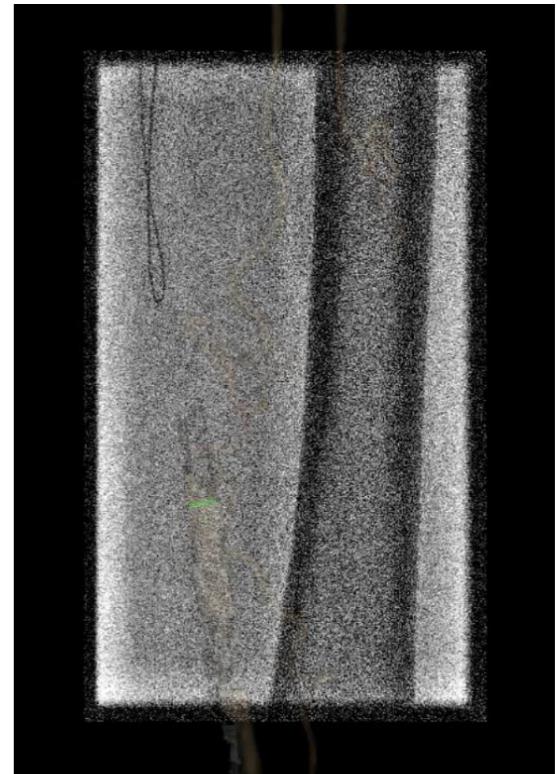
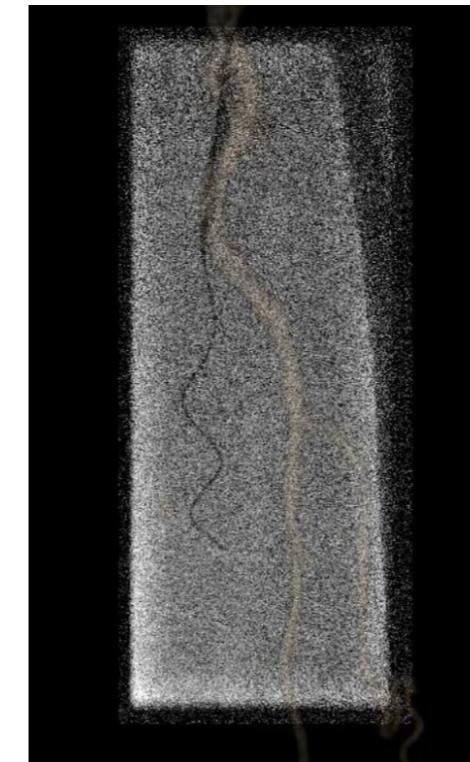
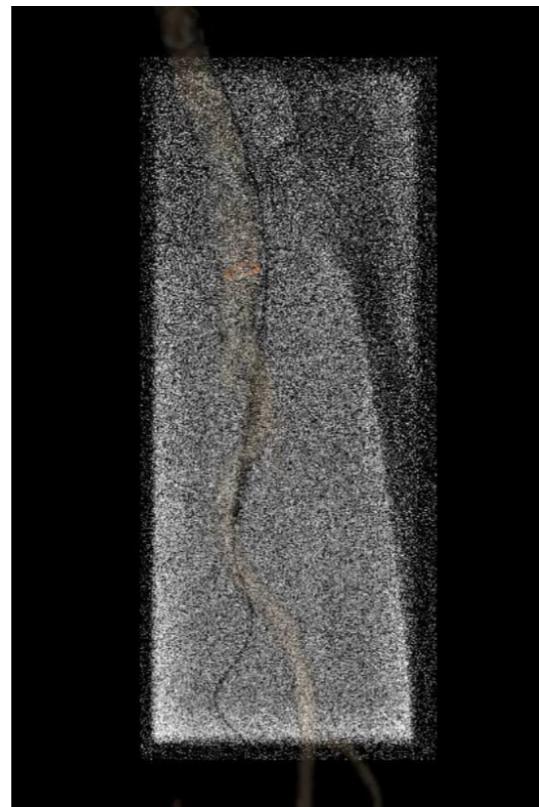
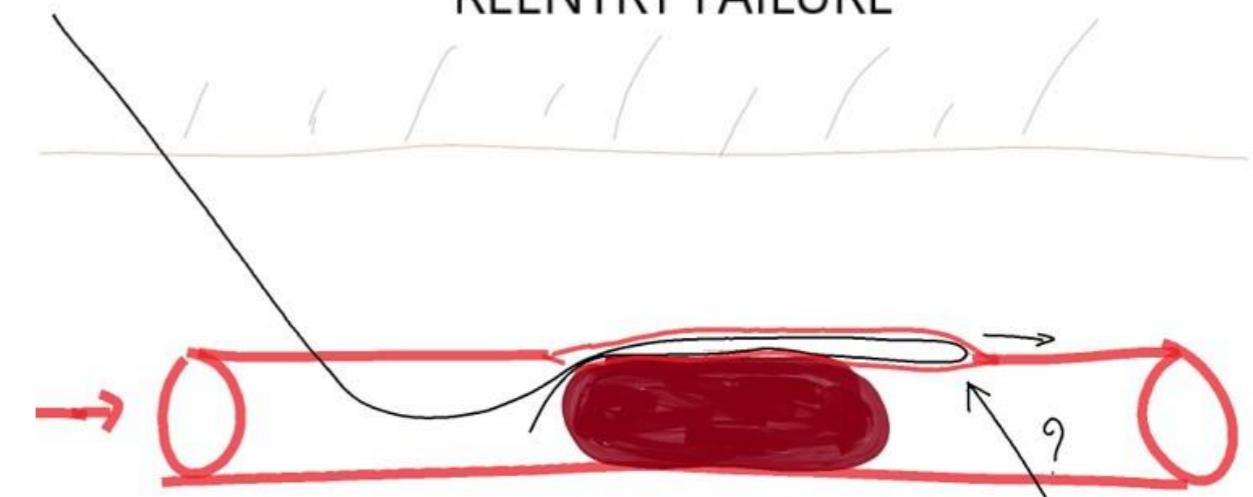


**+++HEPARIN+++
5000 UI**



ANTEGRADE DISSECTION

REENTRY FAILURE



STEP 3 – RETROGRADE PUNCTURE

- Device : Cook retrograde access kit
- Which artery ?

EASIEST

SFA

ATA

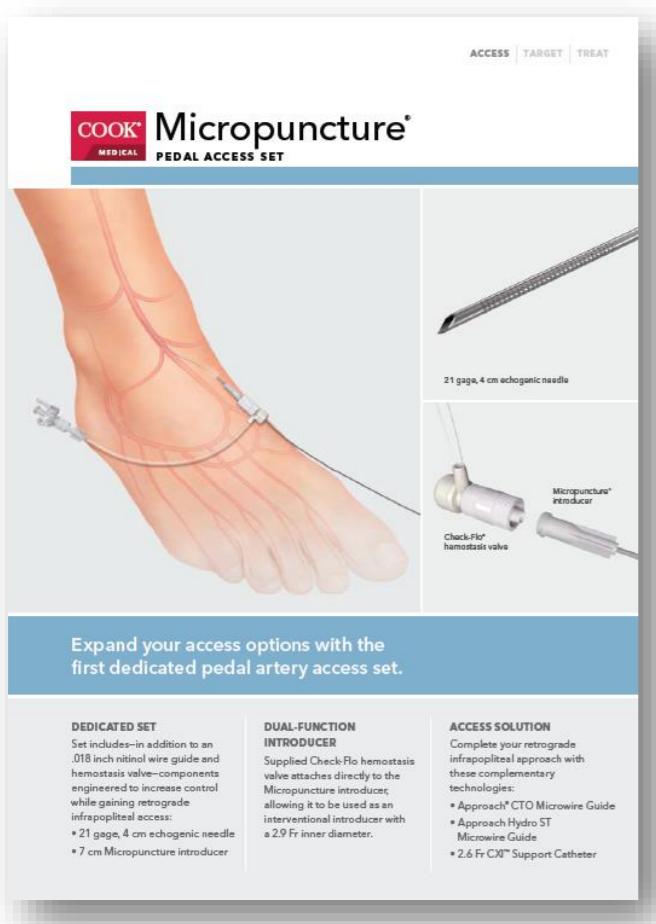
Pedal artery

Peroneal

PTA

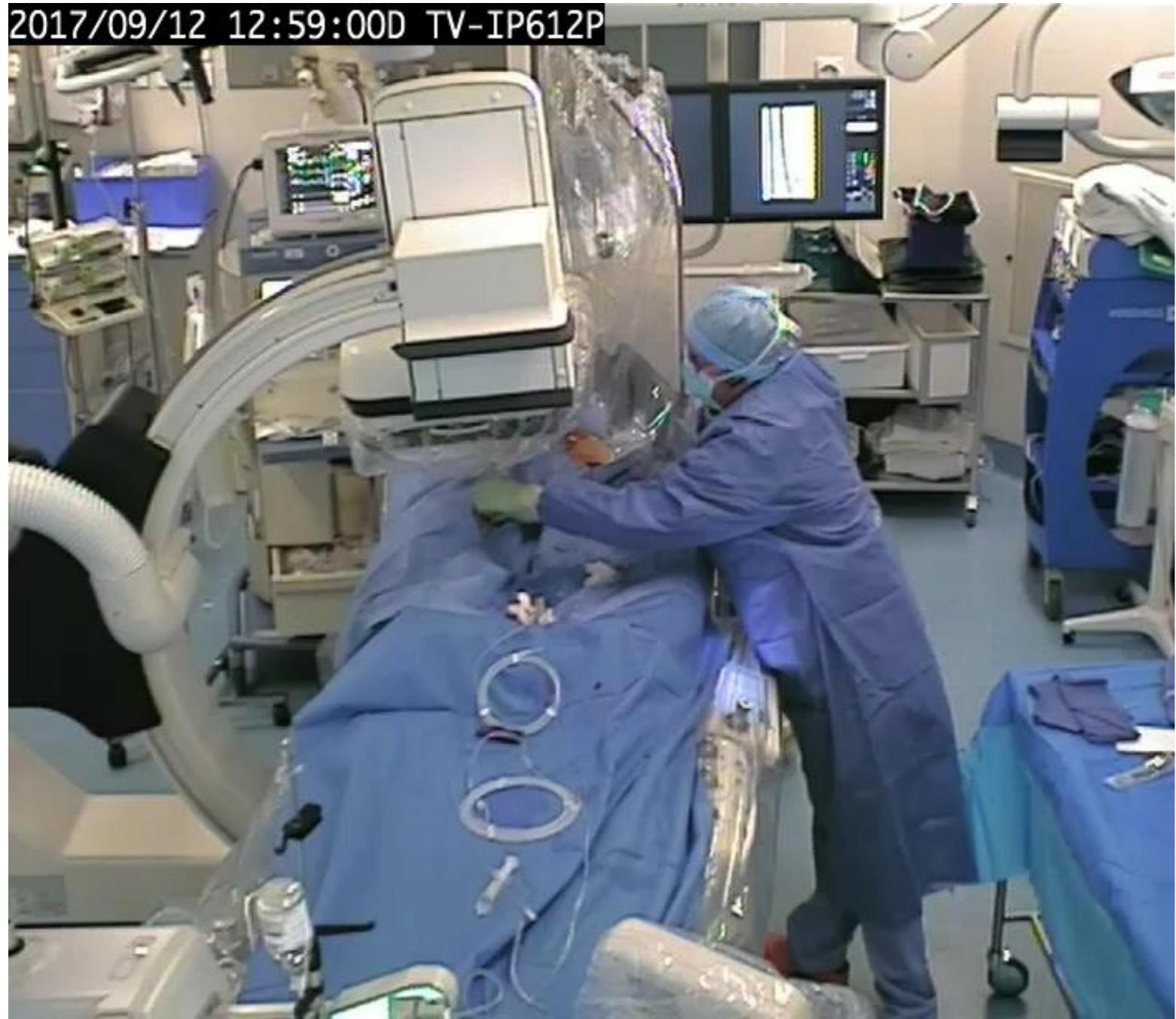
(Popliteal)

HARDEST



SFA PUNCTURE

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ATA Puncture – « Old roadmap » !

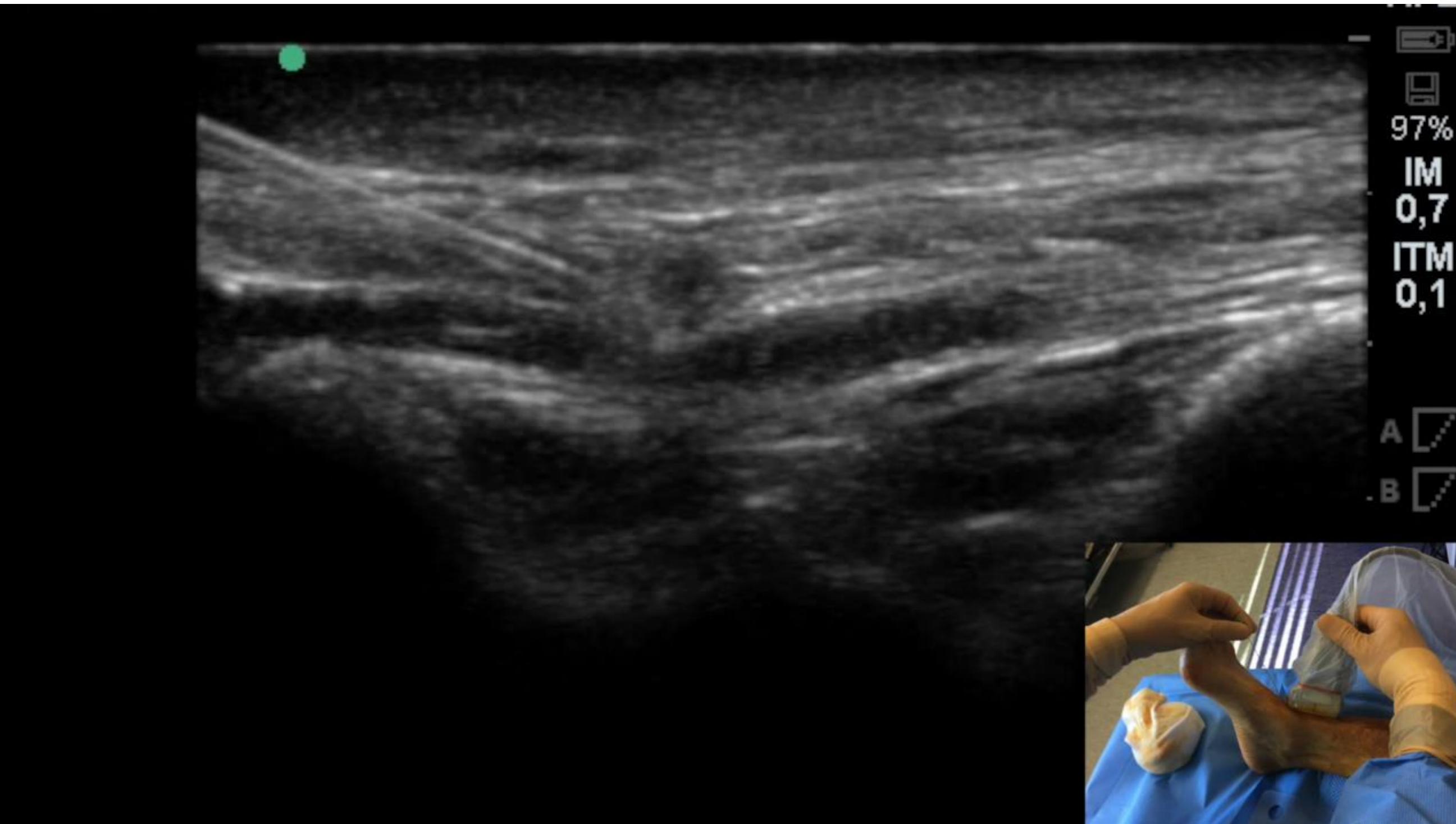


ATA Puncture – « Modern roadmap » !



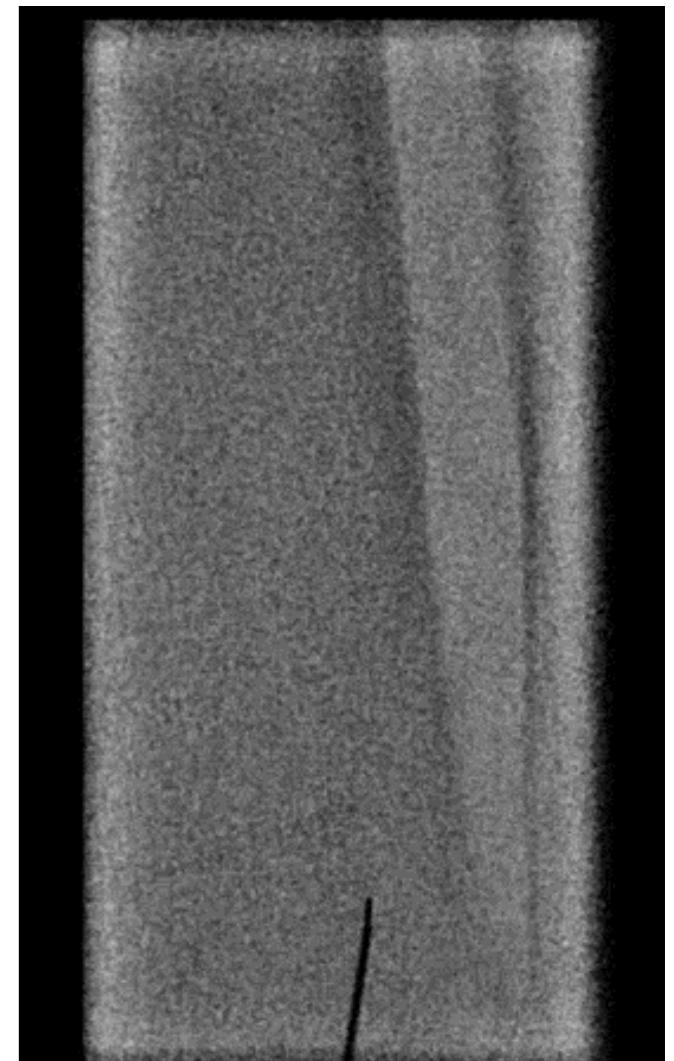
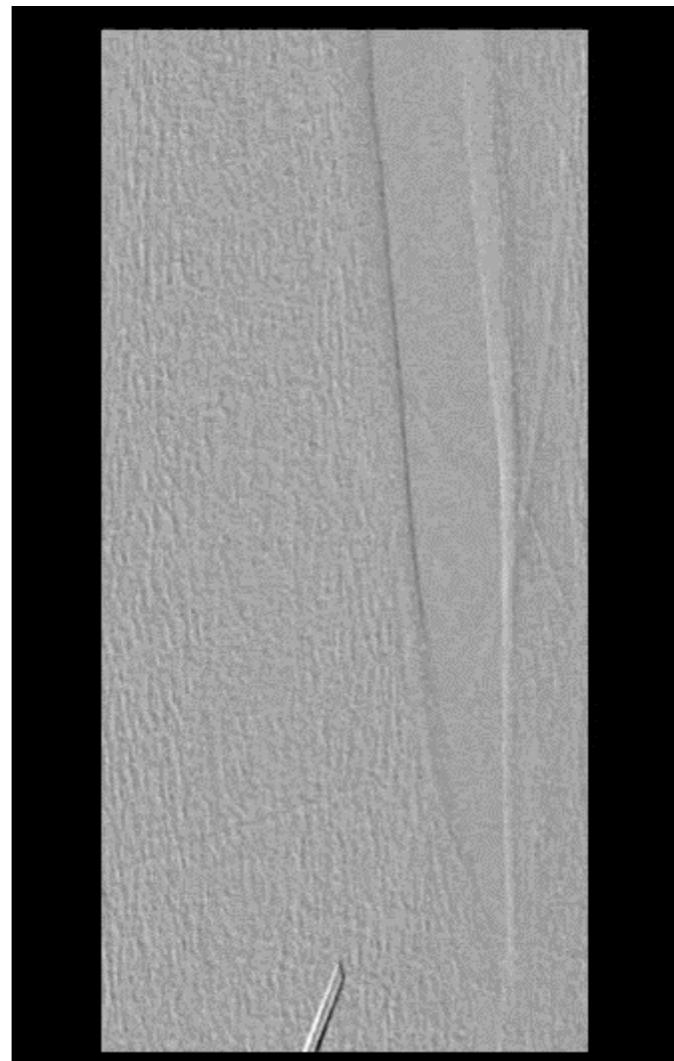
Pedal puncture – Echoguidance

Thanks to Dr Penillon – Medipole de Savoie



Pedal puncture

Active roadmap and echo guidance



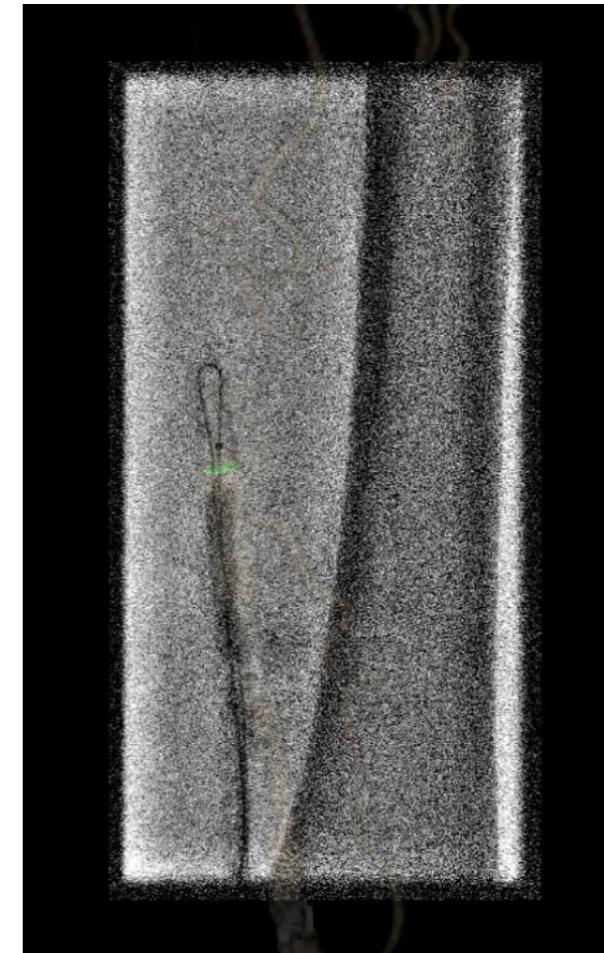
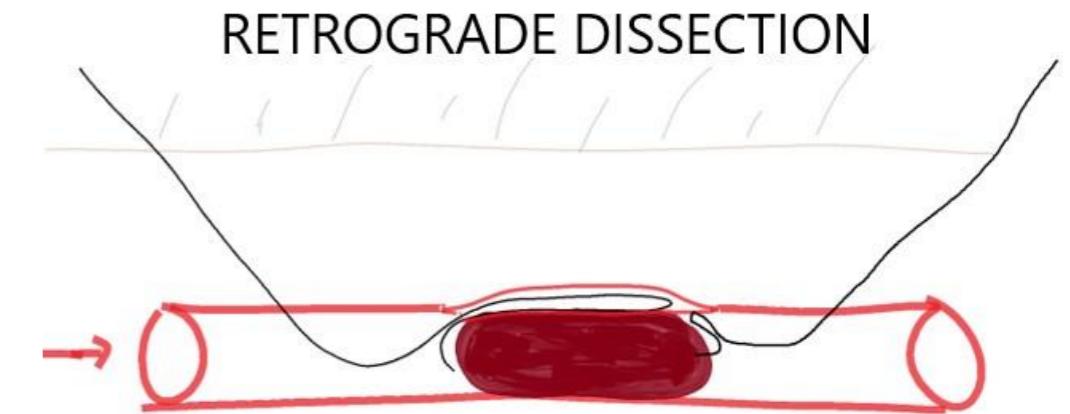
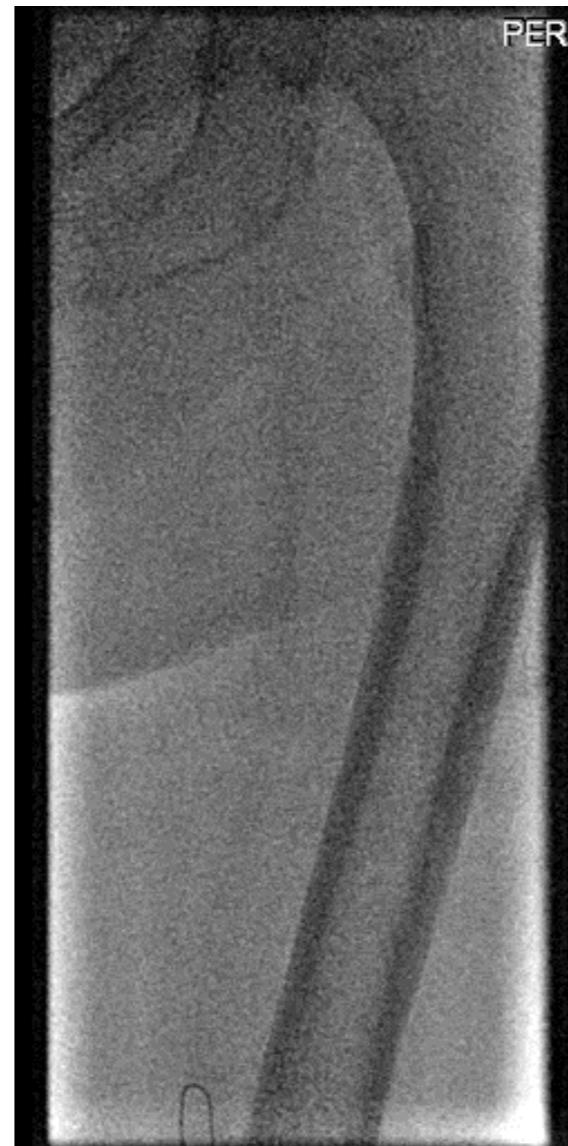
Posterior tibial artery puncture – Active roadmap

- Quite difficult
- Active roadmap
- Echo guidance puncture +++



STEP 4 – RETROGRADE

Same technique as antegrade
dissection !



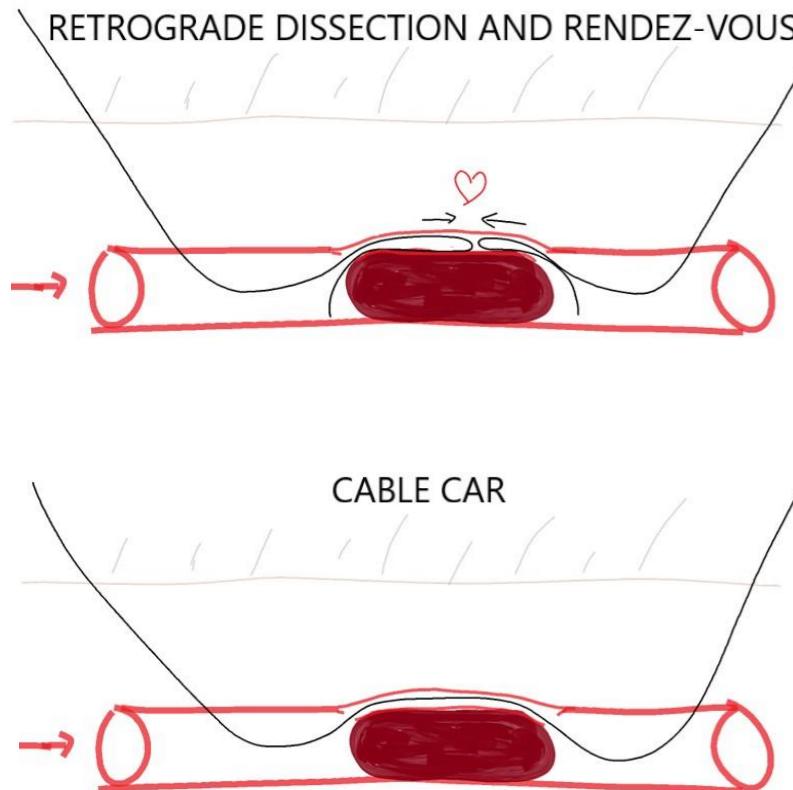
STEP 5 – RENDEZ-VOUS AND CABLE CAR

My Learning curve :

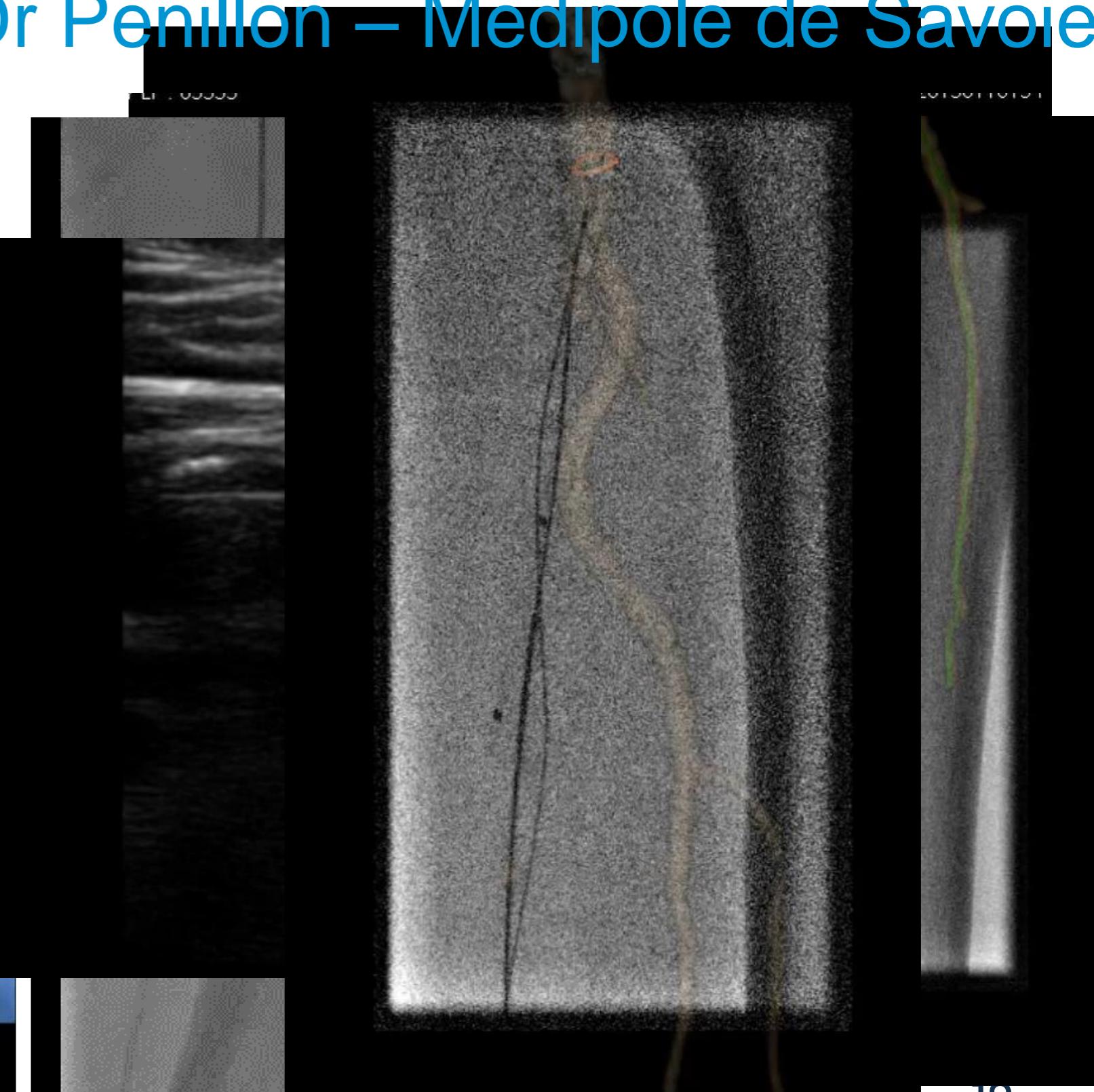
No lasso +++

(Expensive and a brake for improving)

1. Guide wire 0,035 → 6F sheath
2. Guide wire 0,014 → Ber 2
3. Guide wire 0,035 → Ber 2 (99 %)



Thanks to Dr Penillon – Medipole de Savoie



STEP 6 - ANGIOPLASTY

Anything you want !

NO BIG DEAL

By the top or the down

STEP 7 – PUNCTURE POINT

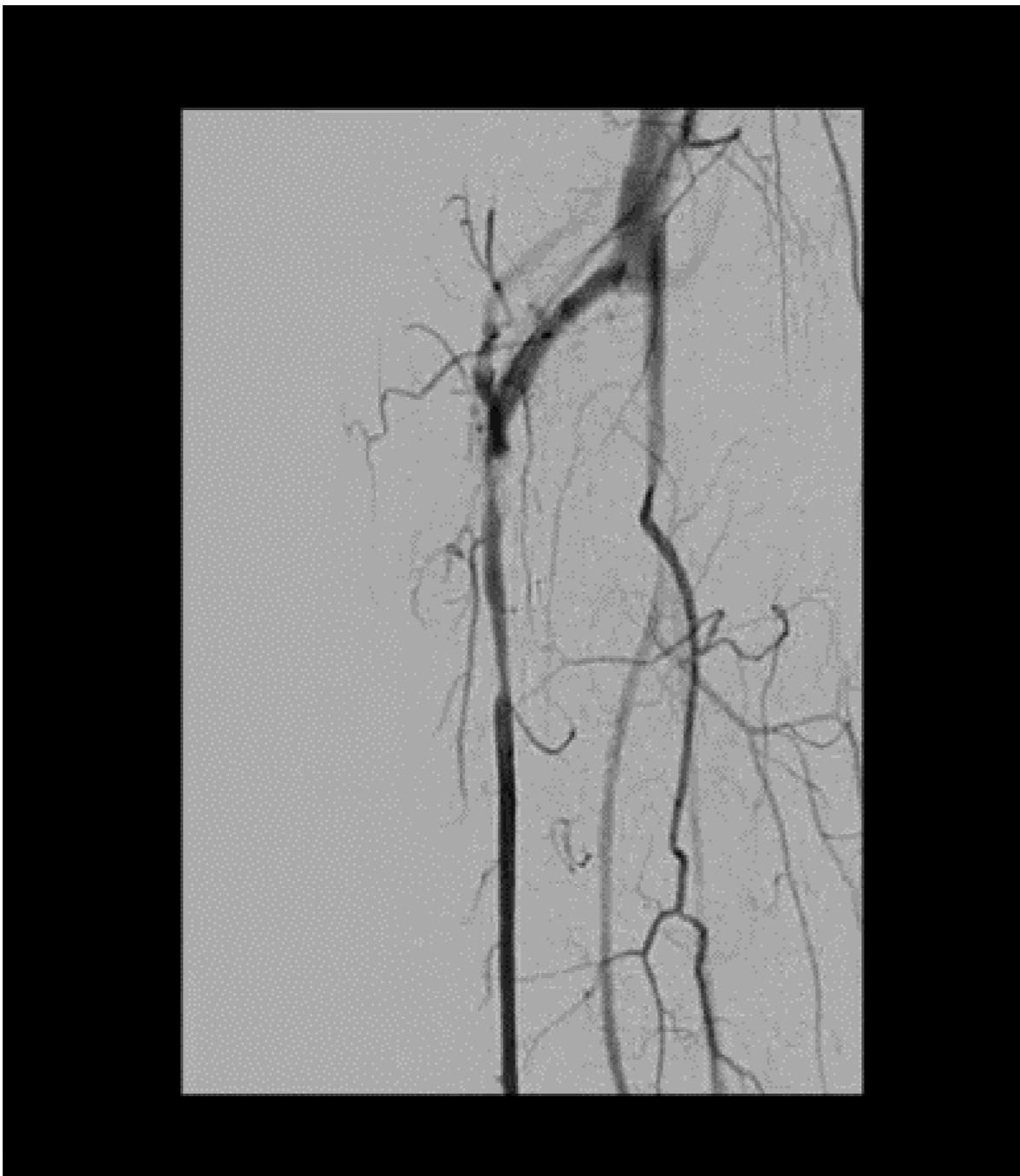
PERCATION
+++ FAILURE +++
Very Very Very IMPORTANT +++



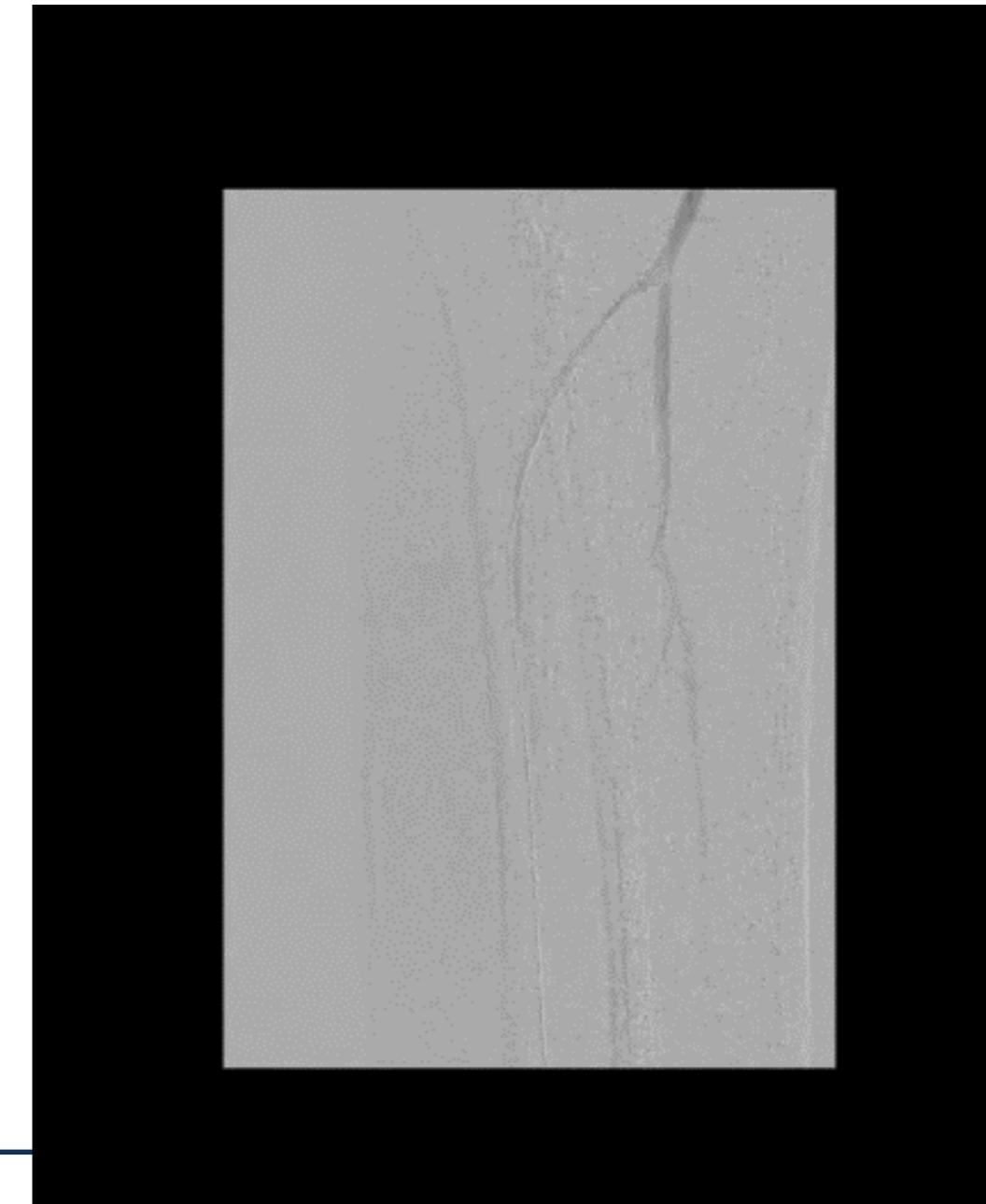
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Arterio-venous fistula

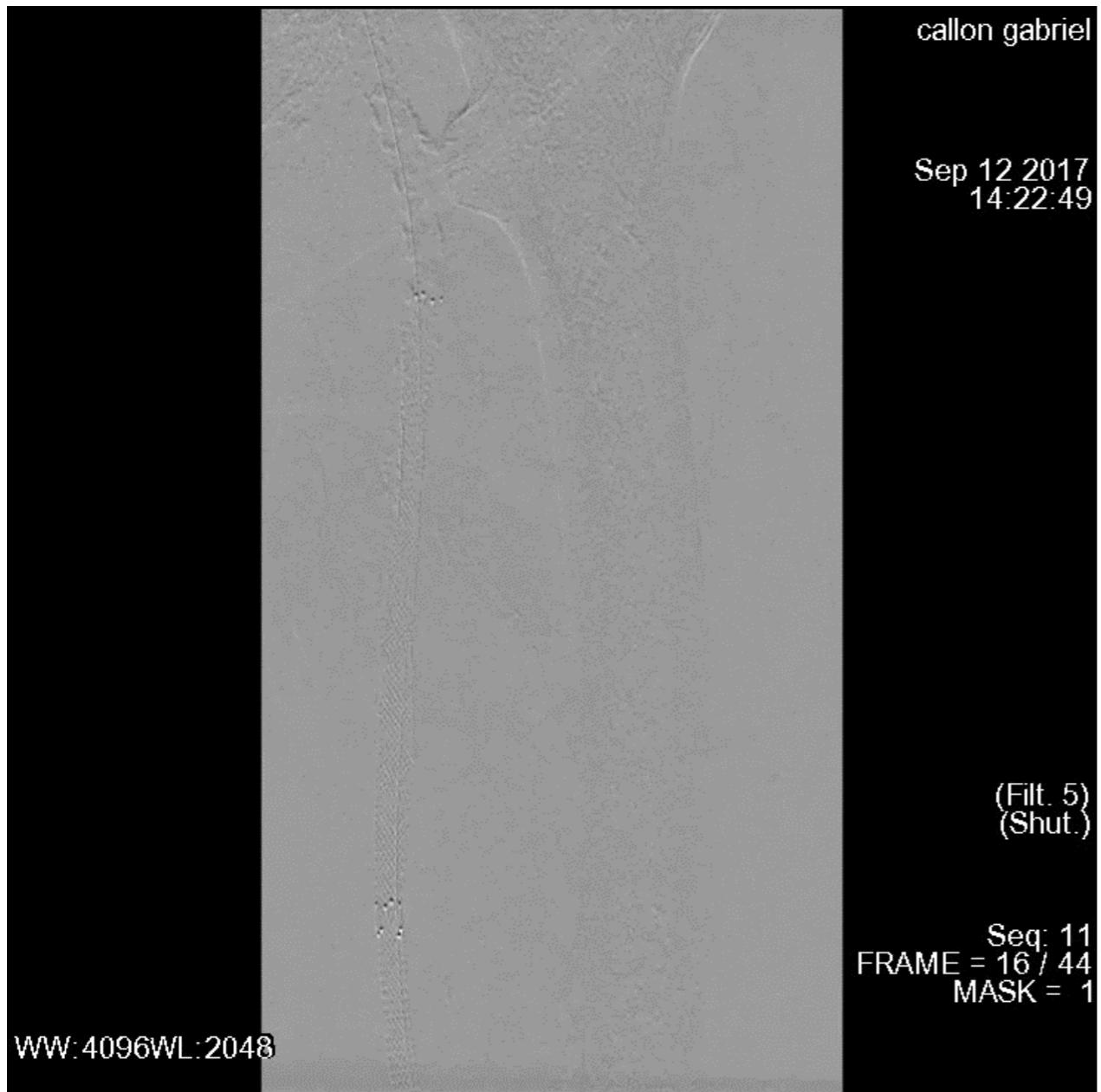
Arterioveinous fistula



**High risk of amputation
Angioplasty only +++**

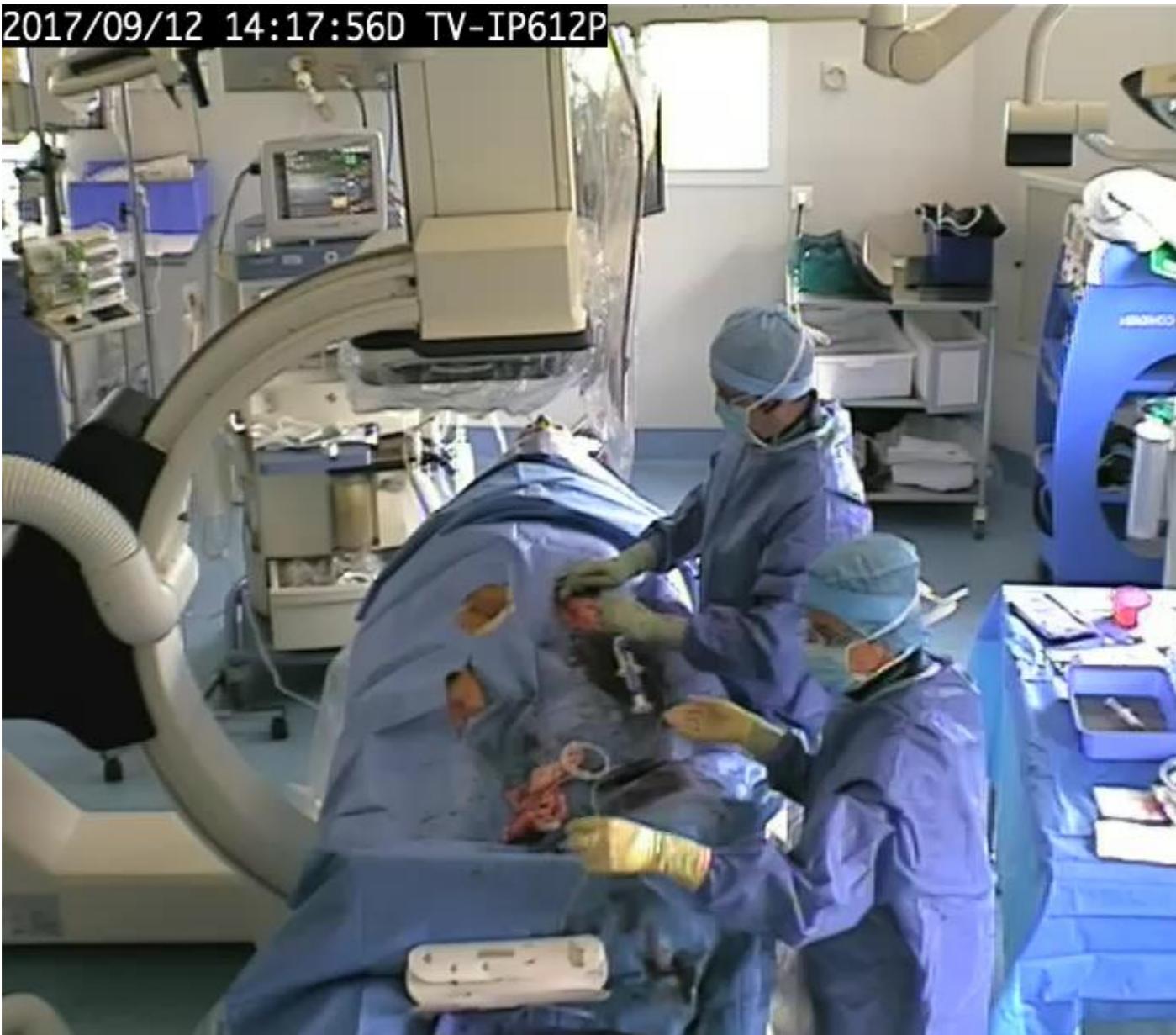


STEP 8 - Final control



STEP 9 - Fermeture

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2017/09/12 14:21:23D TV-IP612P



What's SAFARI

It's not a

~~BTK ANGIOPLASTY TECHNIQUE~~

It's JUST a

REENTRY

GARANTEED SUCCESS AT 99%



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Conclusion

« We can successfully improve recanalizations with retrograde access »

- Safe and can be reproduced
- Learning curve is rapid
- Devices are important

PLEASE TRY



JUST DO IT
!



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