

**PERSPECTIVES 2017**

**December Friday 15 - BORDEAUX**

Organization: E. Ducasse, M. Sibé



[www.congresperspectives.com](http://www.congresperspectives.com)

# Ma perspective d'usage de thromboaspiration la plus prometteuse

C.MARCELIN, Y. LEBRAS, F.PETITPIERRE, N. GRENIER



**CHU**  
Hôpitaux de  
**Bordeaux**

# Disclosure of Interest



Speaker name: Clément MARCELIN

- I do not have any potential conflict of interest

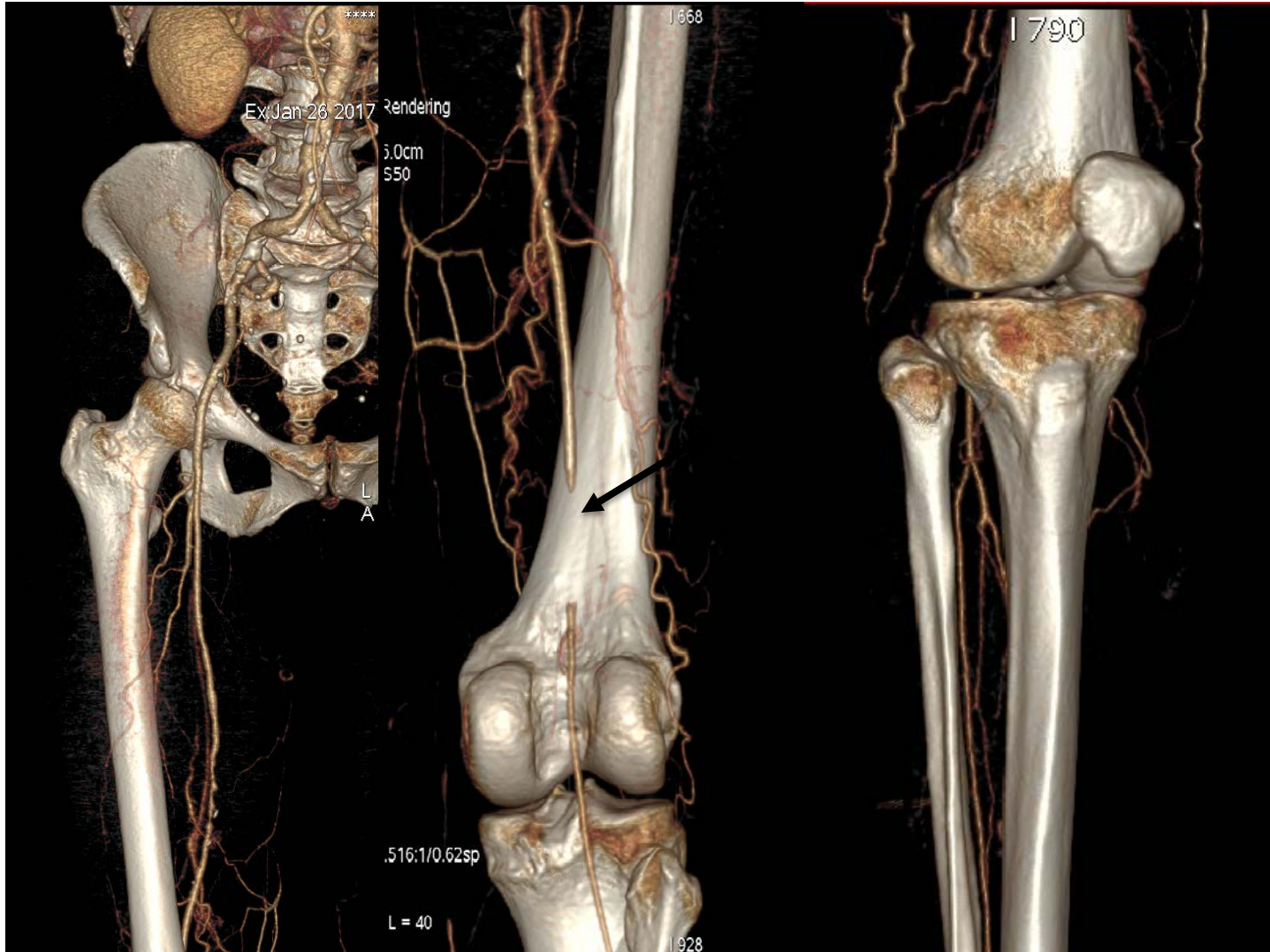
# CASE 1

- Women of 73 yo.
- Acute pain of right limb.
- Ischemia level: 2a.
- Risk factor: hypertension.
- CT scan examination showed a short occlusion of the distal right superficial femoral artery, which needed to be recanalised.

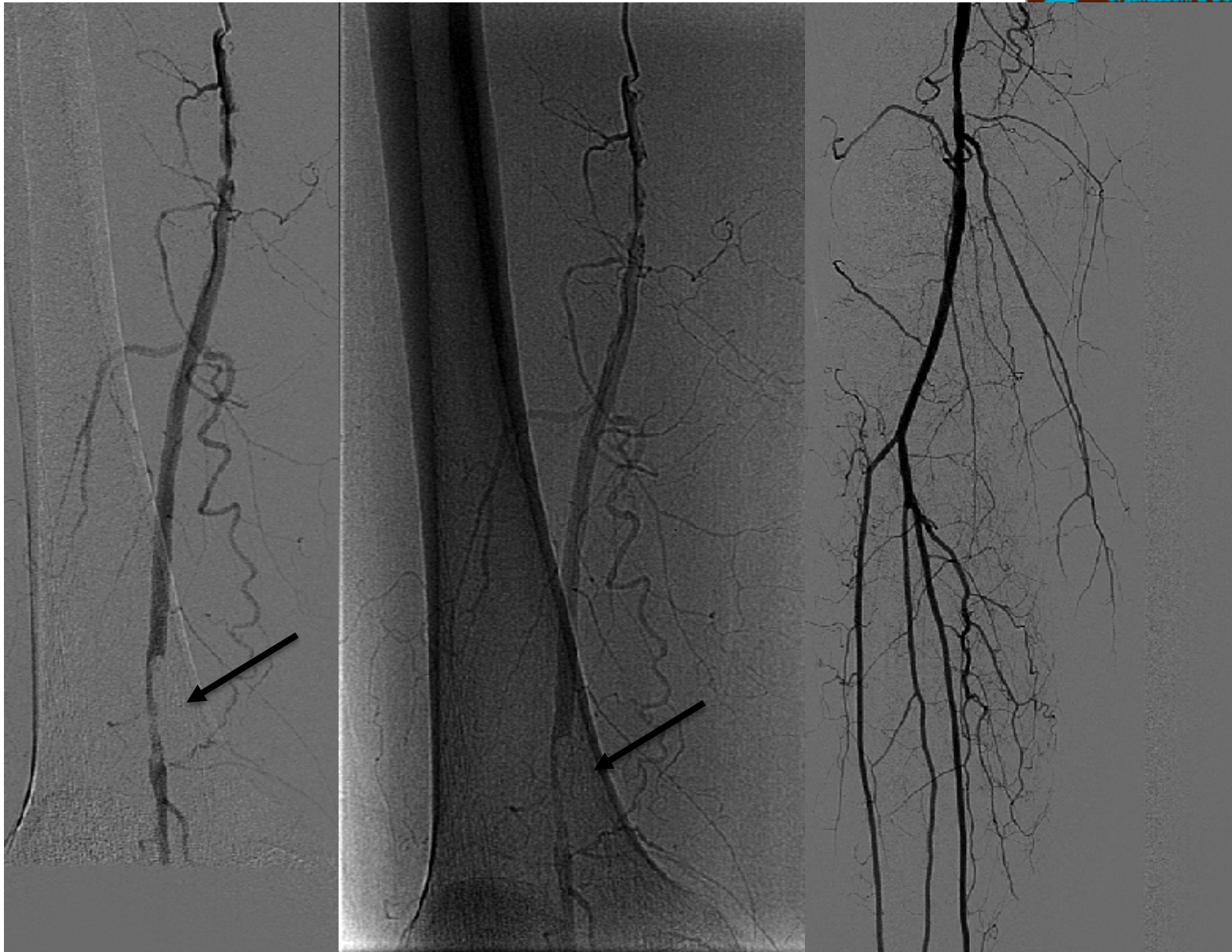
# CT



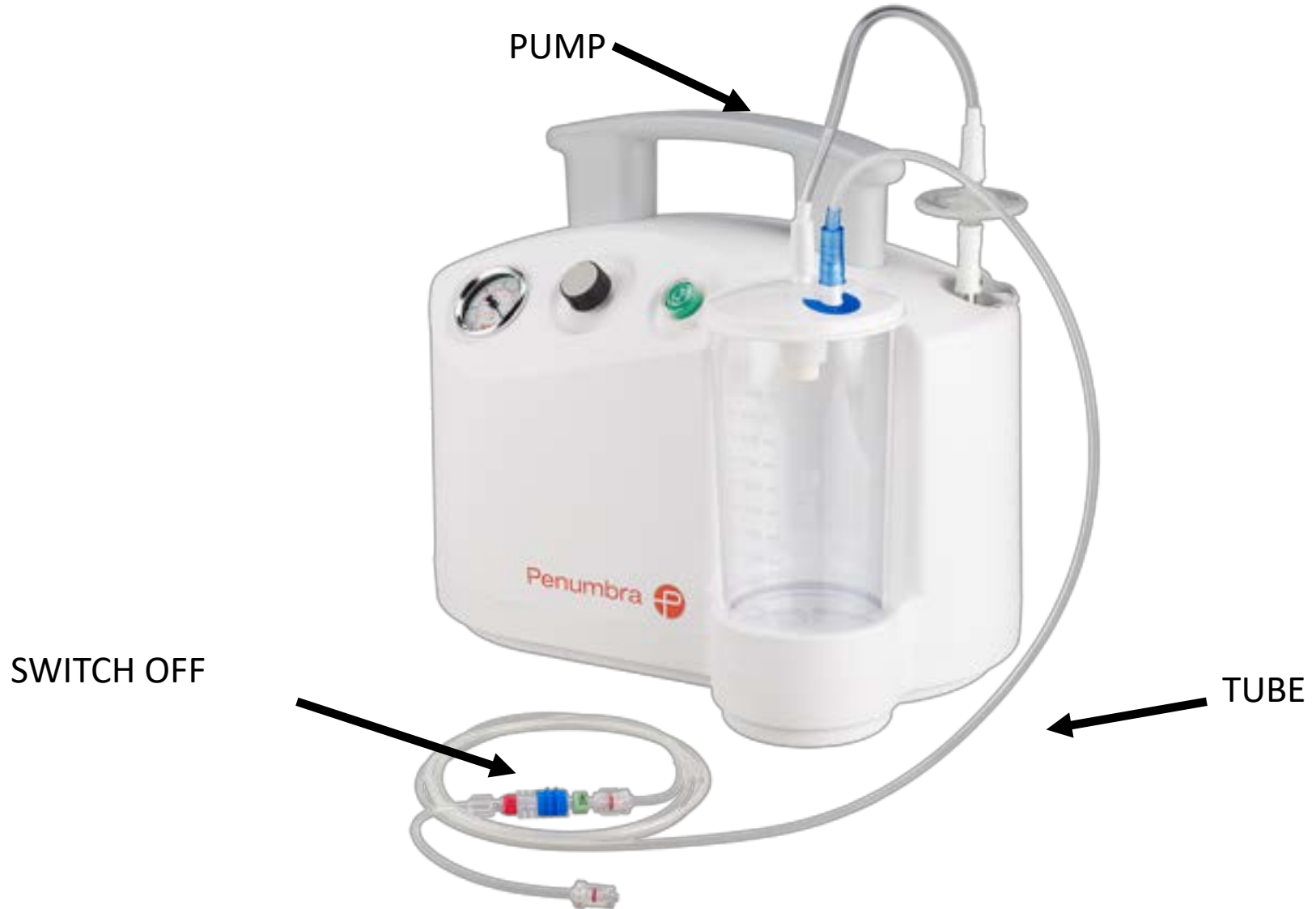
# CT



- Left common femoral artery was punctured retrograde and a 8F sheath was inserted.
- Intraluminal recanalisation of the superficial femoral artery was achieved using an angled, Terumo hydrophilic .035" guidewire.
- Indigo CAT8 system was quickly introduced and tracked into the SFA.
- After two passes, the SFA was completely open again.
- The final result was excellent, with no residual stenosis.
- Patient left the hospital the next day in excellent condition.

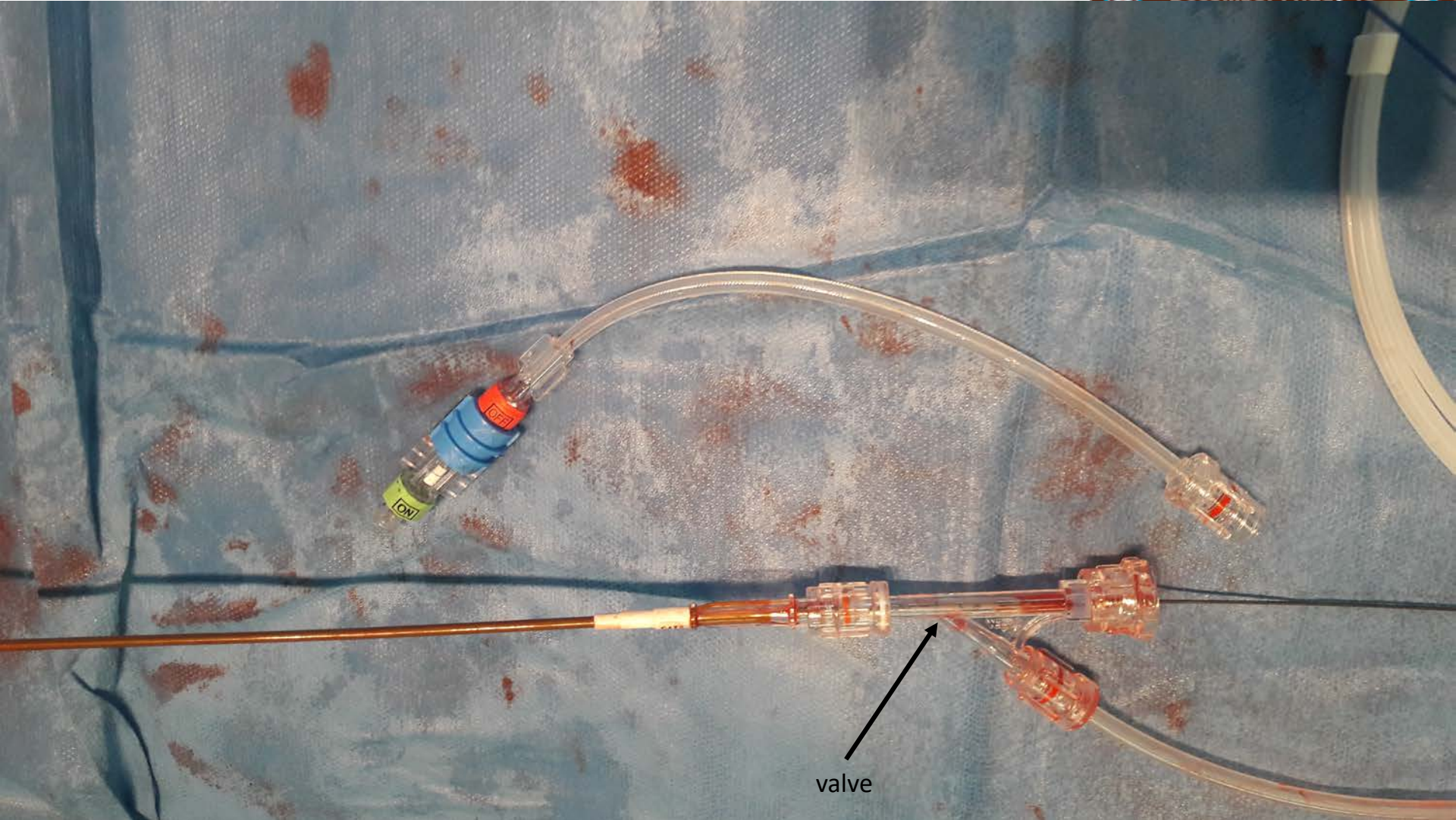


# PENUMBRA DEVICE



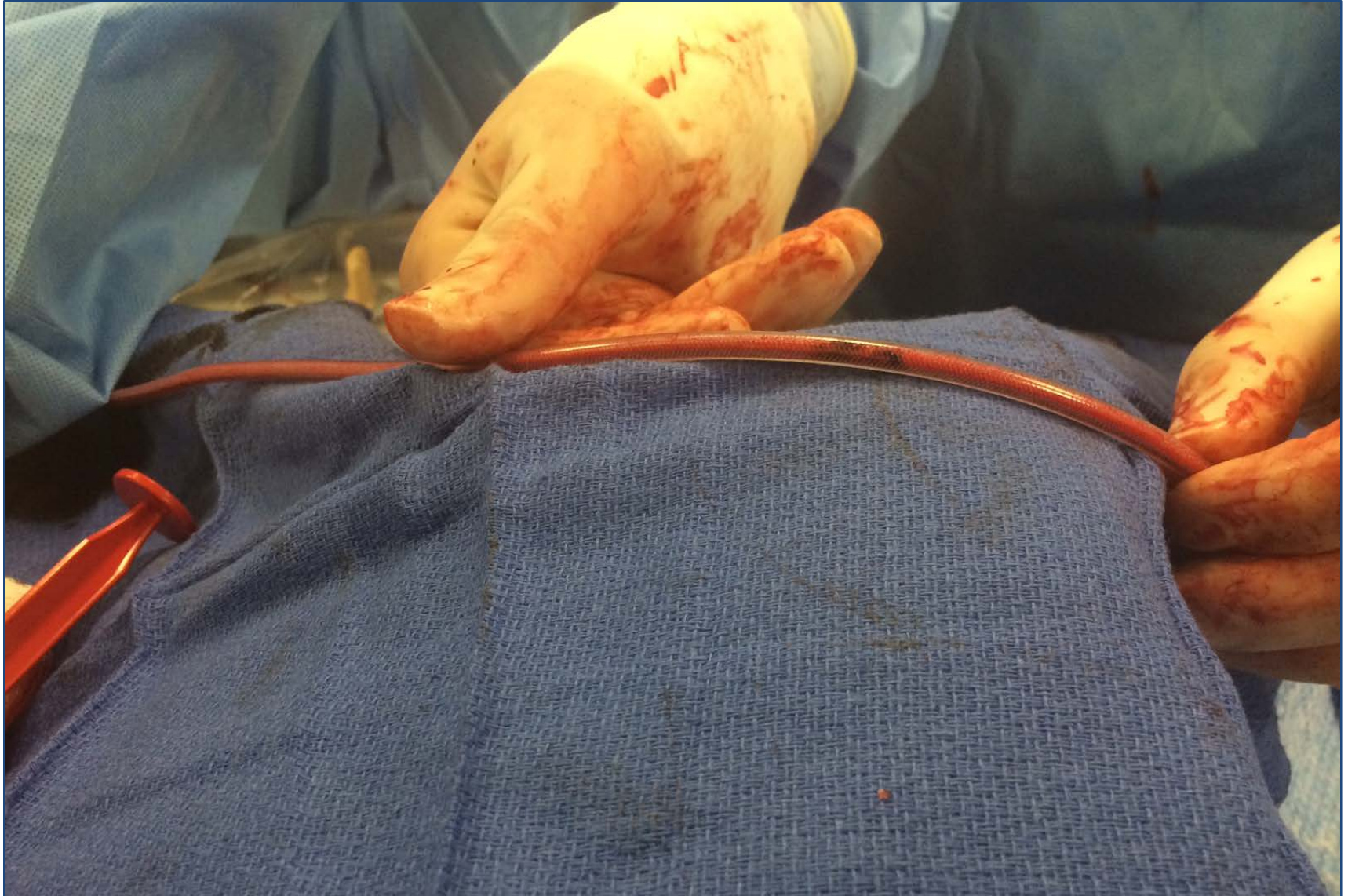


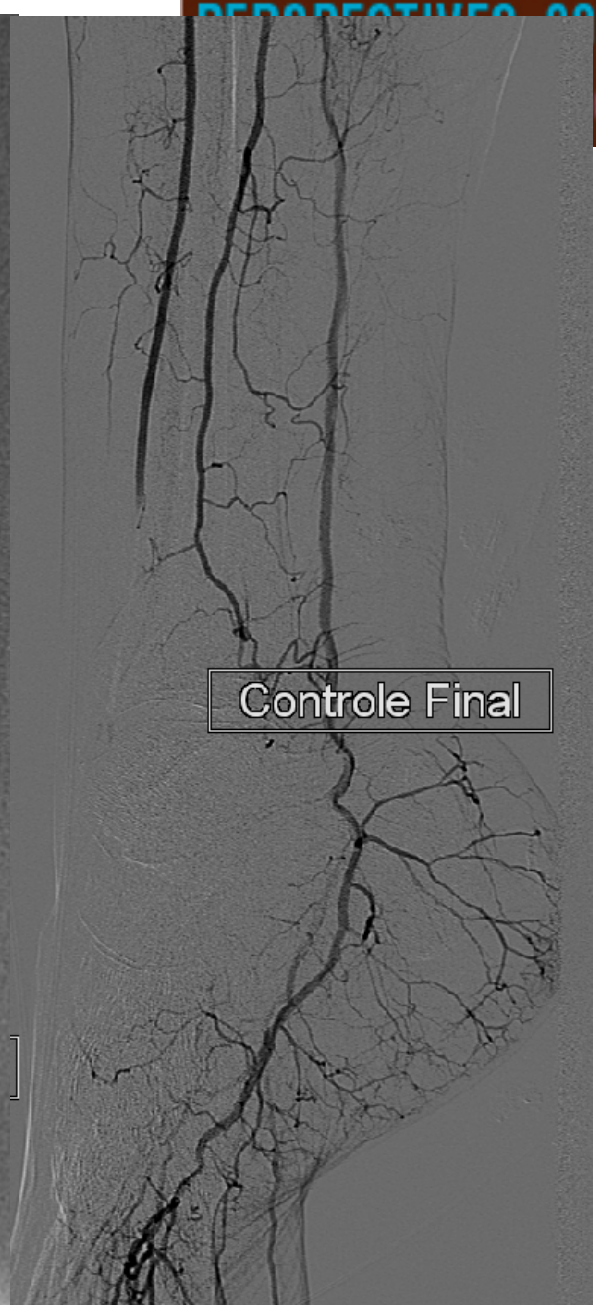
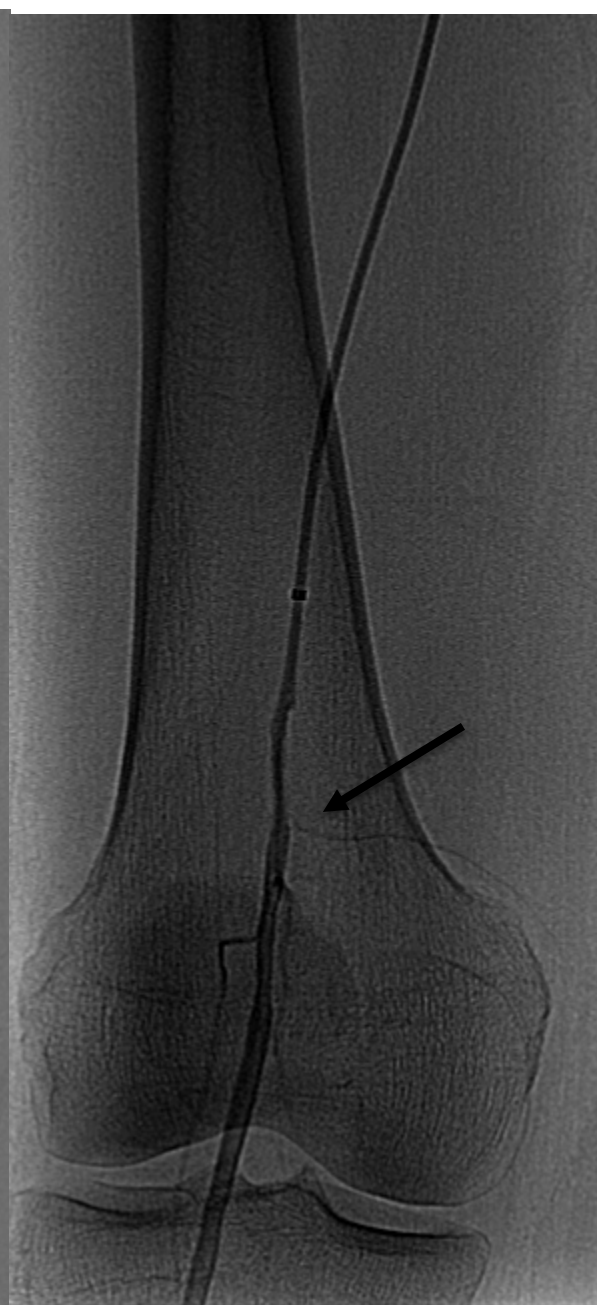




valve







# MANAGEMENT OF ALI

- **Surgical revascularization** (Fogarty:20% complication: re-occlusion, amputation, mortality).
- **Local fibrinolytic therapy** (cost, clot migration, hemorrhagic complication)
- **Mechanical thrombectomy techniques,**
- **Percutaneous aspiration thrombectomy.**

# ASPIRATION ?

- Original Penumbra System was developed for thrombectomy on stroke, and further developed with the Indigo® System for peripheral indications such as acute limb ischemia, pulmonary artery, dialysis fistula, and renovisceral occlusive event.



- Faster procedure than surgery (30min)
- Reduces risk of morbidity
- Reduce adverse sequelae and vessel injuries with Fogarty embolectomy



- 8 French: closure device
- Acute thrombosed (<2 weeks)
- Proximal and short occlusion
- Local anesthesia

## Endovascular Treatment Strategy Using Catheter-Directed Thrombolysis, Percutaneous Aspiration Thromboembolectomy, and Angioplasty for Acute Upper Limb Ischemia

Tatsuo Ueda<sup>1</sup> · Satoru Murata<sup>1</sup> · Izumi Miki<sup>1</sup> · Daisuke Yasui<sup>1</sup> · Fumie Sugihara<sup>1</sup> · Hiroyuki Tajima<sup>1</sup> · Tetsuro Morota<sup>2</sup> · Shin-Ichiro Kumita<sup>1</sup>



RESEARCH ARTICLE

### Percutaneous Aspiration Thrombectomy for Arterial Thromboembolism during Infringuinal Endovascular Recanalization

Li-Ming Wei<sup>1</sup>, Yue-Qi Zhu<sup>1</sup>, Fang Liu<sup>2</sup>, Pei-Lei Zhang<sup>1</sup>, Xiao-Cong Li<sup>1</sup>, Jun-Gong Zhao<sup>1\*</sup>, Hai-Tao Lu<sup>1</sup>

<sup>1</sup> Department of Diagnostic and Interventional Radiology, Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai, China, <sup>2</sup> Department of Endocrinology, Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai, China

Hindawi  
BioMed Research International  
Volume 2017, Article ID 2362769, 8 pages  
<http://doi.org/10.1155/2017/2362769>

*Research Article*

### Percutaneous Mechanical Thrombectomy Using Rotarex® S Device in Acute Limb Ischemia in Infringuinal Occlusions

Samuel Heller, Jean-Claude Lubanda, Petr Varejka, Miroslav Chochola, Pavel Prochazka, David Rucka, Sylvie Kuchynkova, Johana Horakova, and Ales Linhart

2nd Department of Medicine, Department of Cardiovascular Medicine, First Faculty of Medicine, Charles University and General University Hospital in Prague, Prague, Czech Republic



Lower complication  
Lower dose of urokinase

Mini-invasive treatment  
Safe  
Quick  
Effective



## SECOND CASE: SMA

Women of 56 yo

Acute abdominal pain (24 hours)

History of 2 stroke

2 antithrombotic (Kargedic, Plavix)

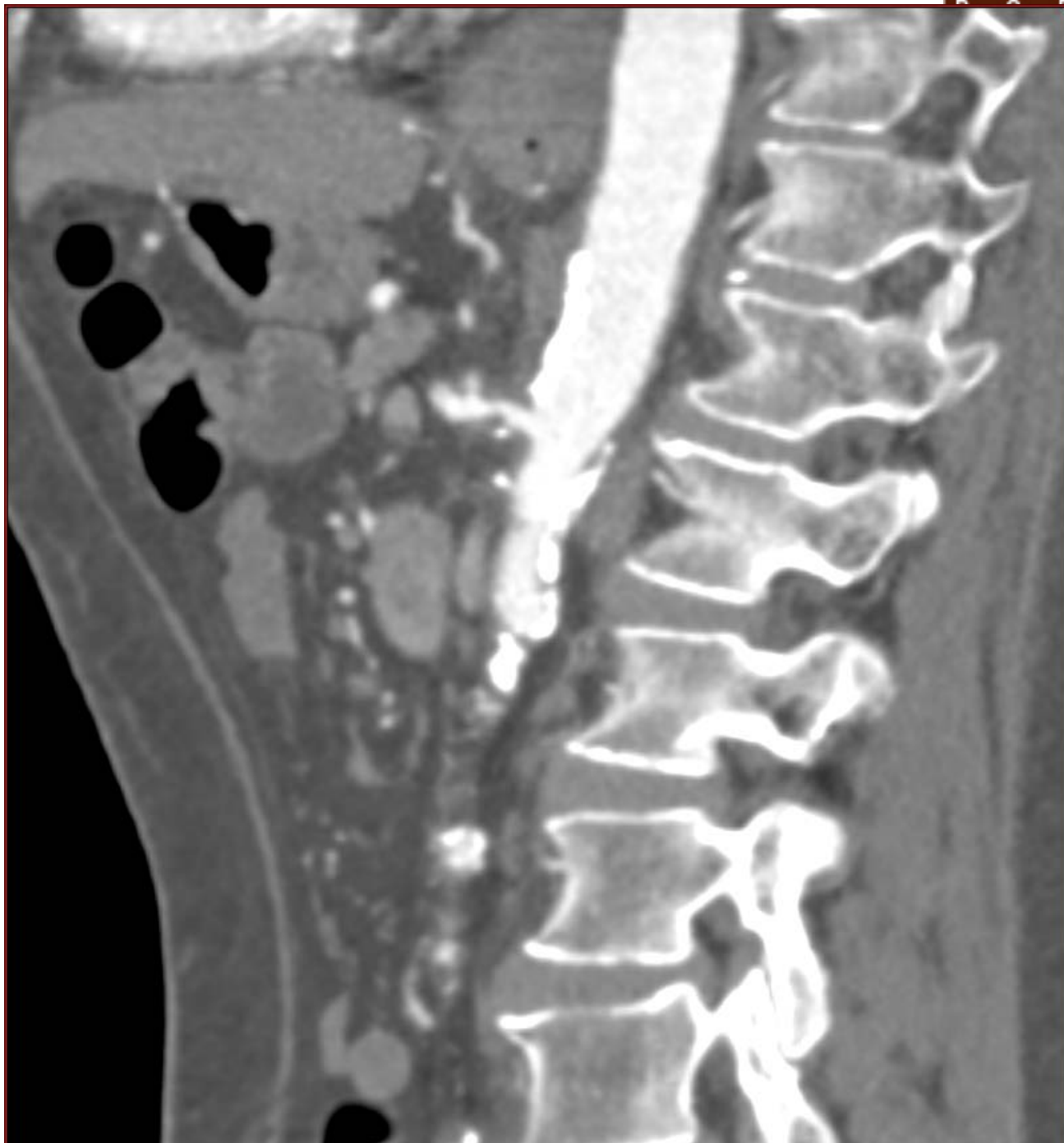
CT scan examination showed a short occlusion of the SMA with a significant stenosis of the coeliac trunk.

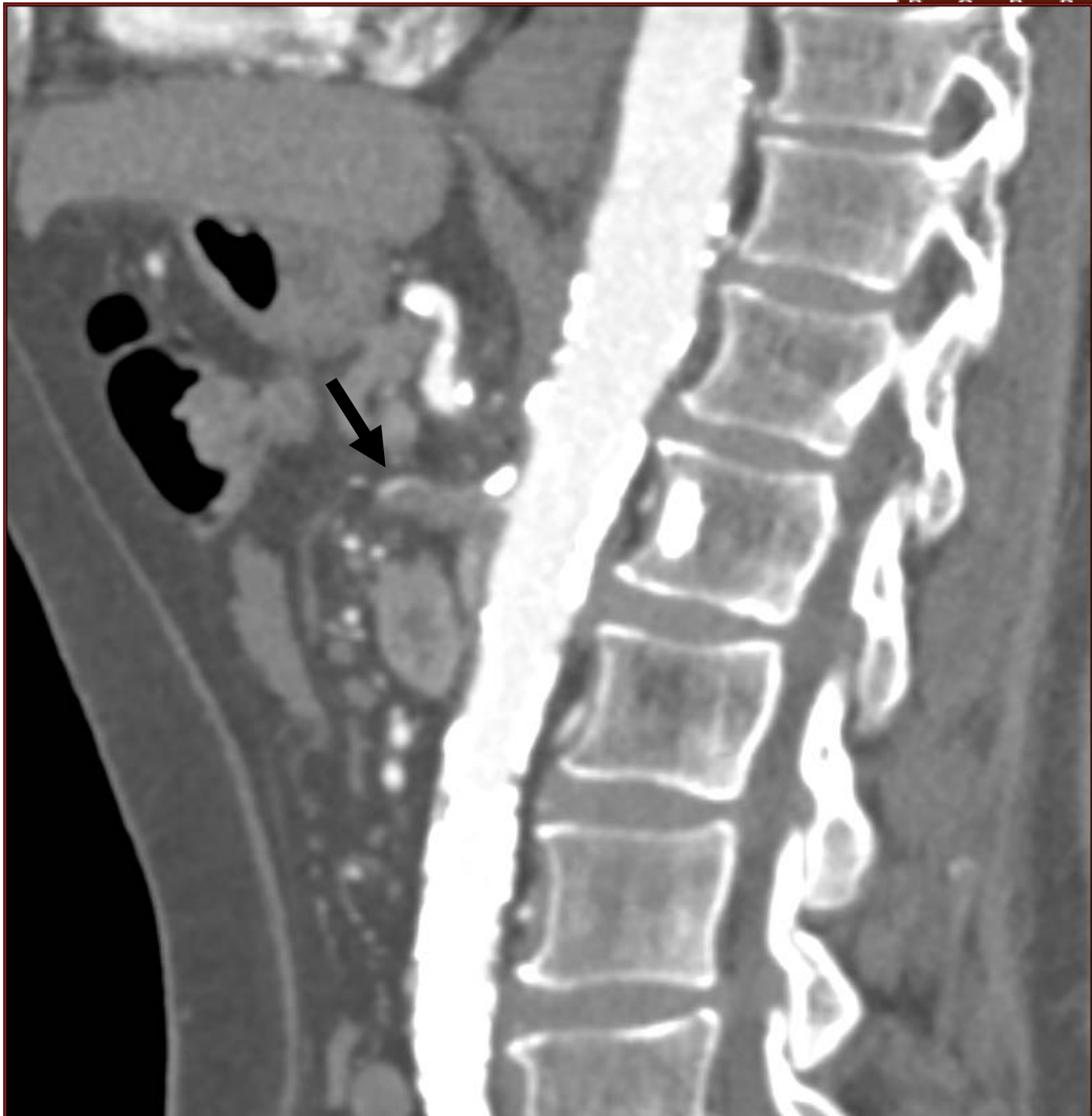


Calc. incl.

P  
L







- Right common femoral artery was punctured antegrade and a 8F sheath was inserted.
- Intraluminal recanalisation of the SMA was achieved using an angled, Terumo hydrophilic .035" guidewire.
- Indigo CAT8 system was quickly introduced and tracked into the SMA.
- After two passes, the SFA was completely open again.
- SHK catheter and a .018" wire (Progreat™, Terumo®) used to get the wire to cross the occlusion.
- .018" wire exchanged with a .014" Hi-Torque Spartacore™ guidewire
- 7x24 mm Palmaz blue® endograft was placed.
- The final result was excellent, with no residual stenosis.
- Patient left the hospital the next day in excellent condition

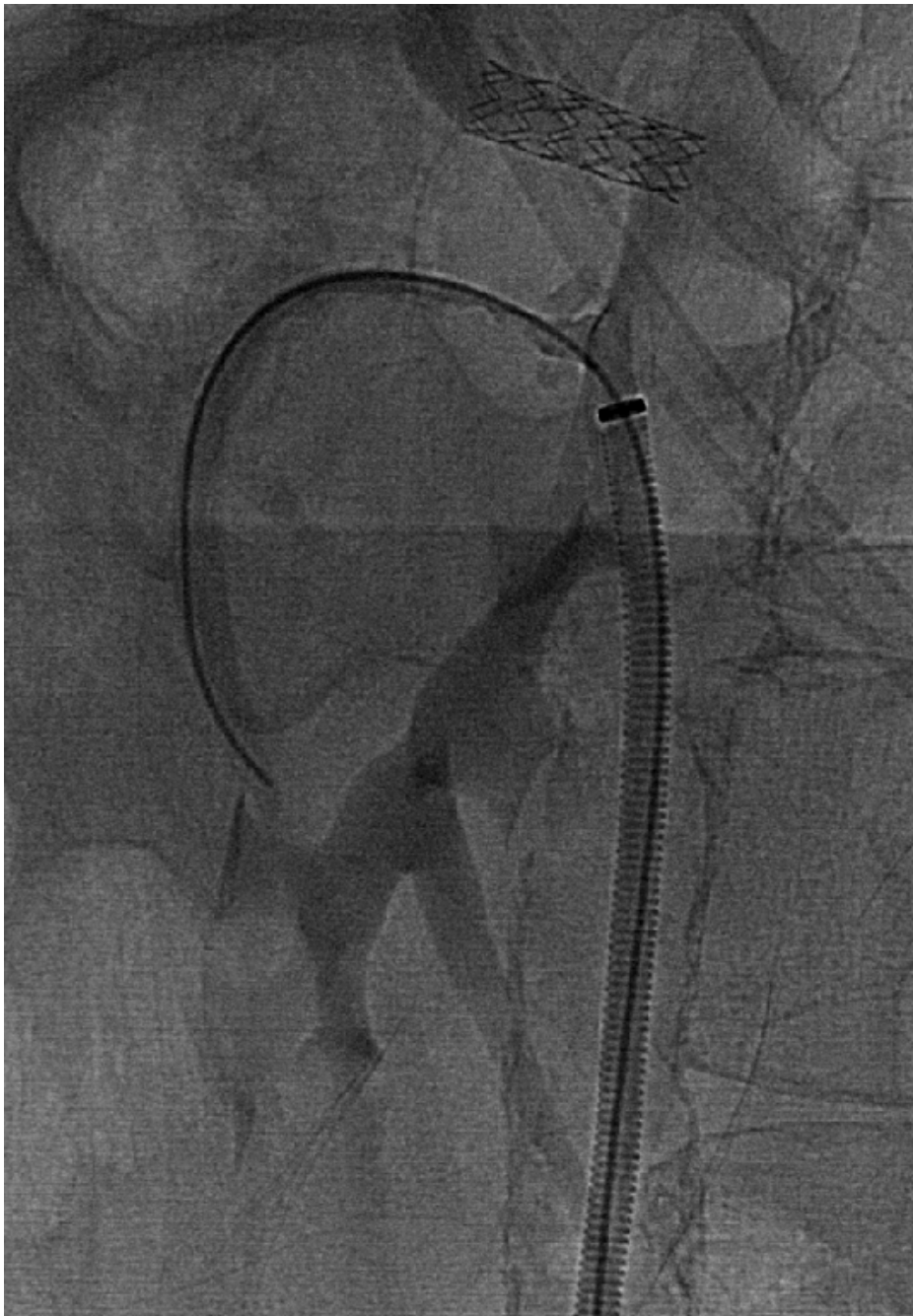
















B O R D E A U X  
**PERSPECTIVES 2017**  
December Friday 15  
Organization: E. Ducasse, M. Sibé



B O R D E A U X  
**PERSPECTIVES 2017**  
December Friday 15  
Organization: E. Ducasse, M. Sibé



# MANAGEMENT OF ACUTE THROMBOSIS OF SMA



*Clinical Investigation*

## **Initial Experience With the 6-F and 8-F Indigo Thrombectomy System for Acute Renovisceral Occlusive Events**

**Theodosios Bisdas, MD, PhD<sup>1\*</sup>, Konstantinos Stavroulakis, MD<sup>1\*</sup>,  
Efthymios Beropoulos, MD<sup>1</sup>, Arne Schwindt, MD<sup>1</sup>, Arne Stachmann, MA<sup>1</sup>,  
Martin Austermann, MD<sup>1</sup>, and Giovanni Torsello, MD<sup>1</sup>**

JOURNAL OF  
**ENDOVASCULAR**  
THERAPY.  
Official Journal of the  
Society for Interventional Endovascular Vascular Surgery (ISEVS)

Journal of Endovascular Therapy  
1-7  
© The Author(s) 2017  
Reprints and permissions:  
[sagepub.com/journalsPermissions.nav](http://sagepub.com/journalsPermissions.nav)  
DOI: 10.1177/1526602817710492  
[www.jevt.org](http://www.jevt.org)  
SAGE

- Simple
- Fast
- Effective
- Safe

THANK YOU