

CONTROVERSES
ET ACTUALITÉS EN CHIRURGIE VASCULAIRE

CONTROVERSIES & UPDATES IN VASCULAR SURGERY

JANUARY 22-24 2015

MARRIOTT RIVE GAUCHE & CONFERENCE CENTER
PARIS, FRANCE

www.cacvs.org

Chairman

Jean-Pierre Becquemin

French Scientific Committee

Jean-Luc Gérard

Yves S. Alimi

Eric Allaire

Pierre Bourquelot

Pascal Desgranges

Hicham Kobeiter

Jean Marzelle

International Scientific Committee

Piergi

Nichol

Hans-A

Christ

Martin

Arman

Friday January 23, afternoon

Moderators

Jean-Pierre Becquemin, Christos Liapis, Ross Milner

14.00 Progress in EVAR treatment

14.00 Forget local or general anesthesia: hypnosis is the future, Gilles Dhonneur

14.10 Closure devices: which are the best? Ian Loftus

14.20 CONTROVERSY: Access and neck issues. « Paving and cracking »

14.20 This is not necessary anymore: we have low profile grafts, Sonia Ronchey

14.30 We still need this technique, Antoine Millon

14.40 Infrarenal vs. suprarenal: controversy continues, Simon Rinckenbach

14.50 Short or no neck: my tricks to do a chimney, how does it work, Mario Lachat

15.00 Reducing complications after EVAR

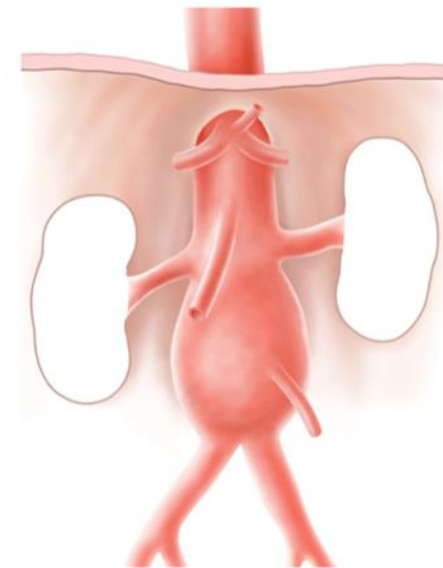
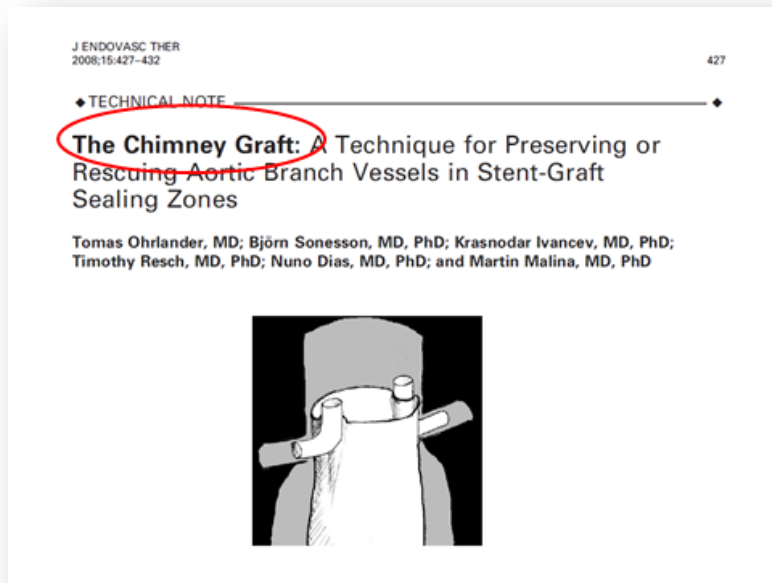
15.00 How to prevent renal injury after EVAR, Hiroshi Banno

15.10 Does flexible stent grafts increase the risk of limb occlusion? Elsa Faure

15.20 Discussion

Chimney Technique

- Parallel graft
- Short neck (juxtarenal)



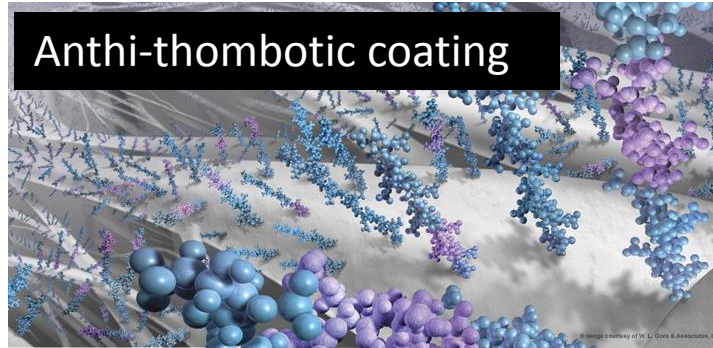
Methods

CHIMNEY GRAFT – SECS (VIABAHN)

Low Profile



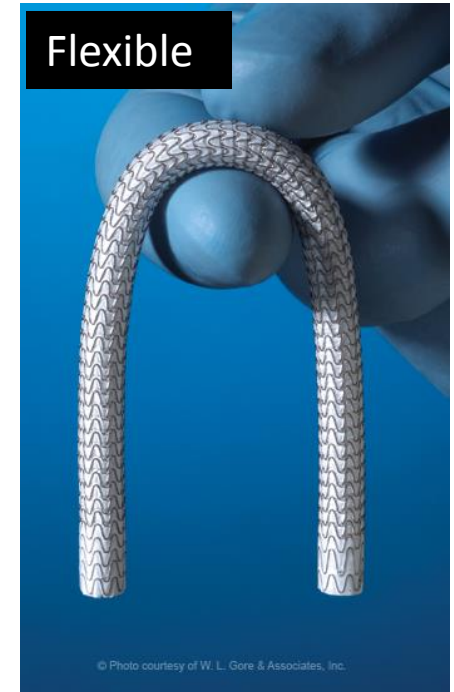
Anti-thrombotic coating



Wide range of diameter



Flexible



One millimeter oversizing

SIZING AORTIC SG

MAD^{*} + 1/2 PG diameter

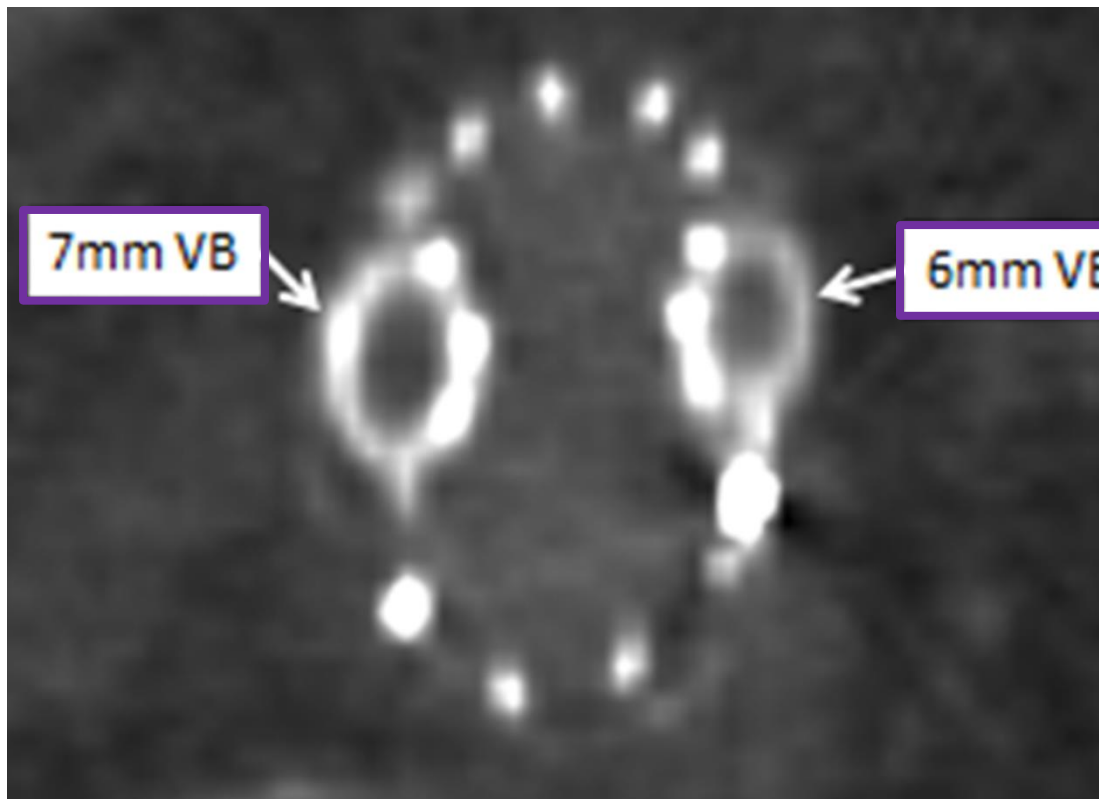
MEDTRONIC

GORE

JOTEC

COOK

$$24\text{mm} + \frac{1}{2} (7\text{mm} + 6\text{mm}) = 30.5\text{mm}$$

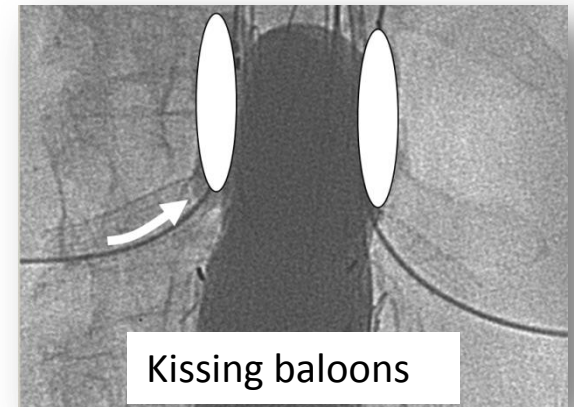
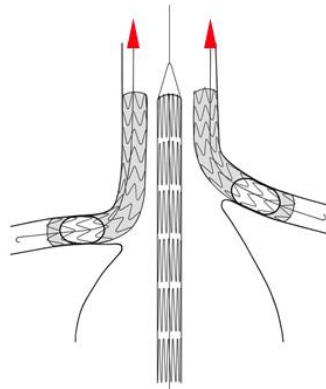
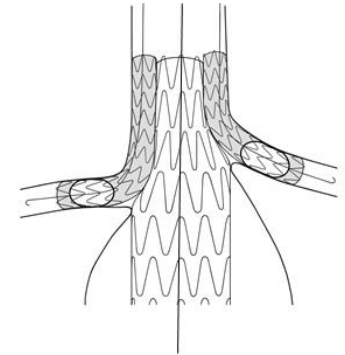
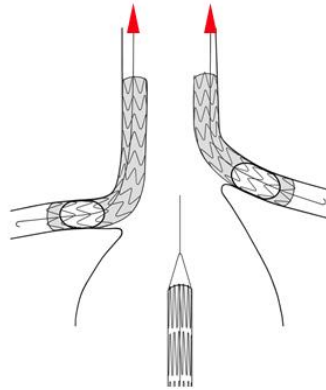
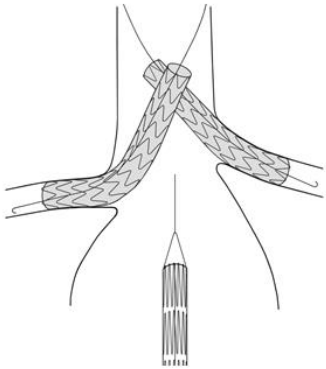
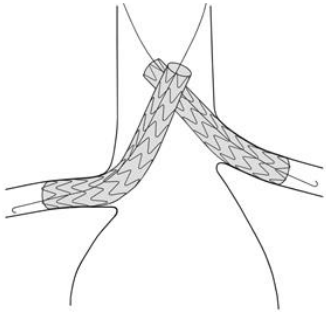


MAD*:

>70y= Mean Aortic Diameter

<70y= MAD+10%

TRANS-BRACHIAL/AXILLARY

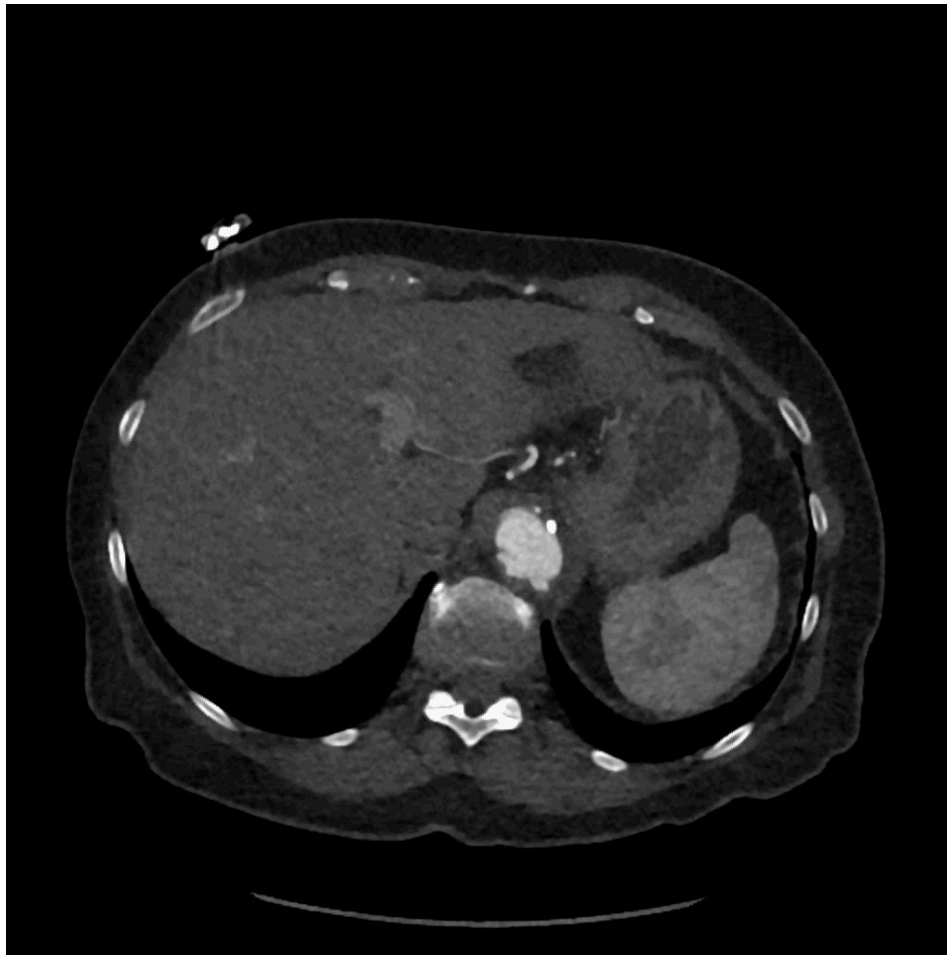


Transfemoral Technique

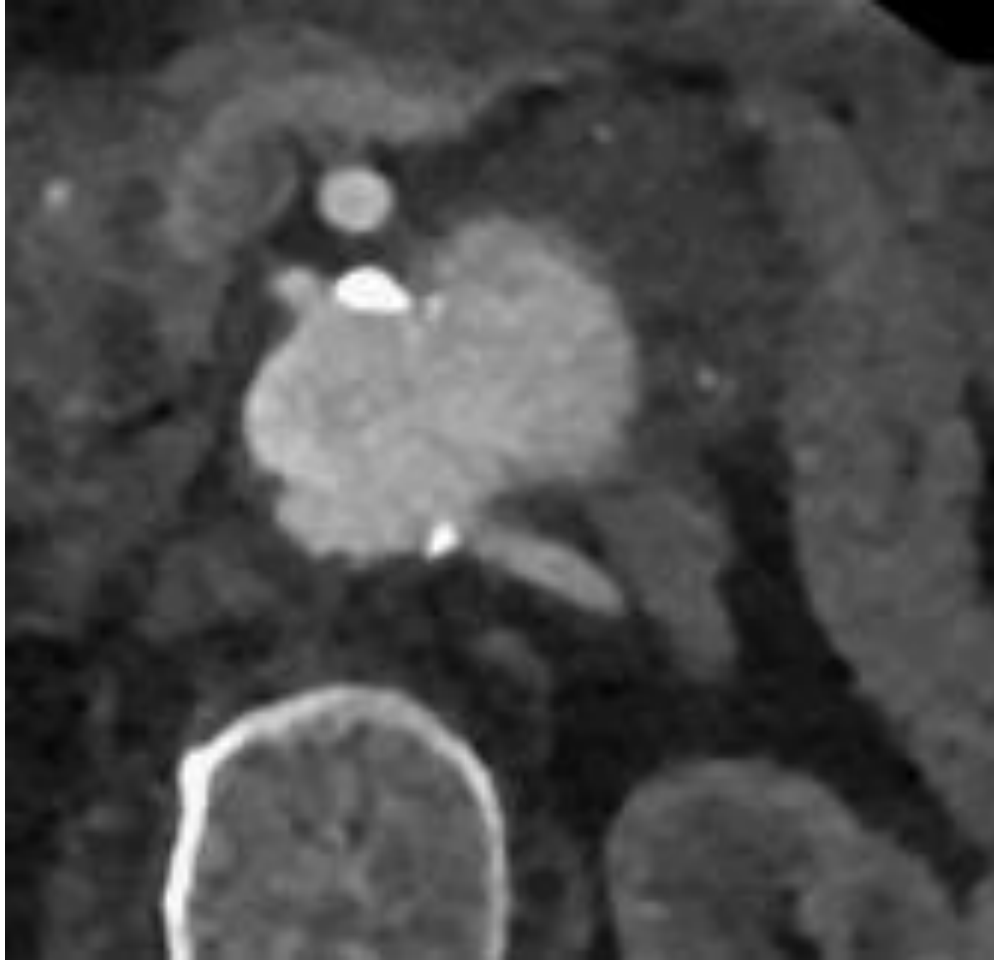
Preoperative Investigations



Preoperative Investigations



Preoperative Investigations

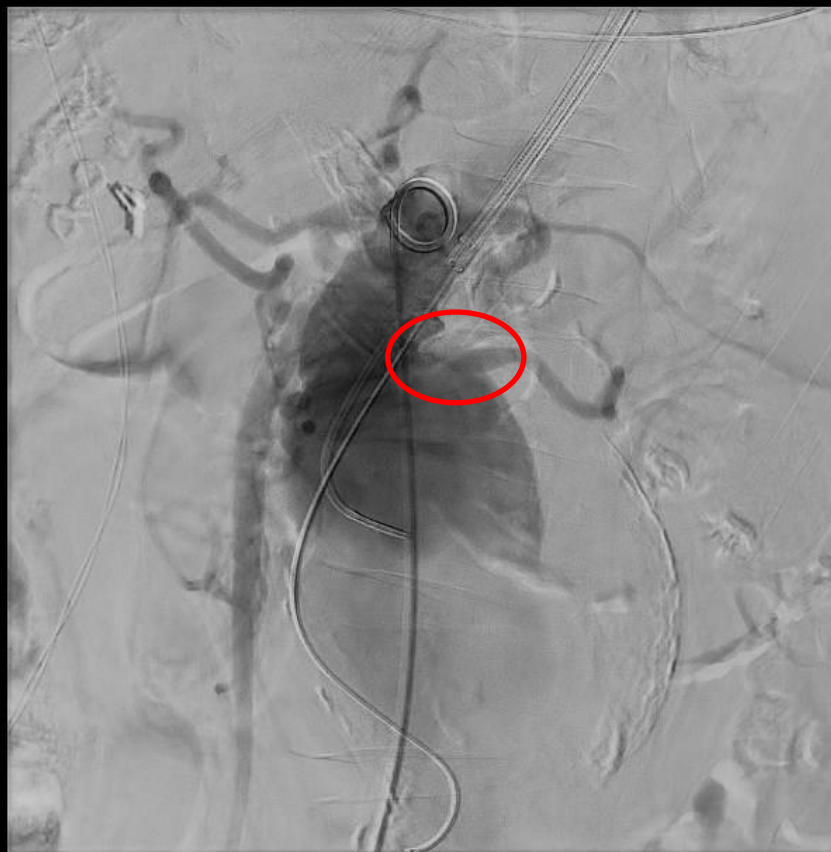


RRA 3.8mm
LRA 4.5mm

Procedure: PG-EVAR

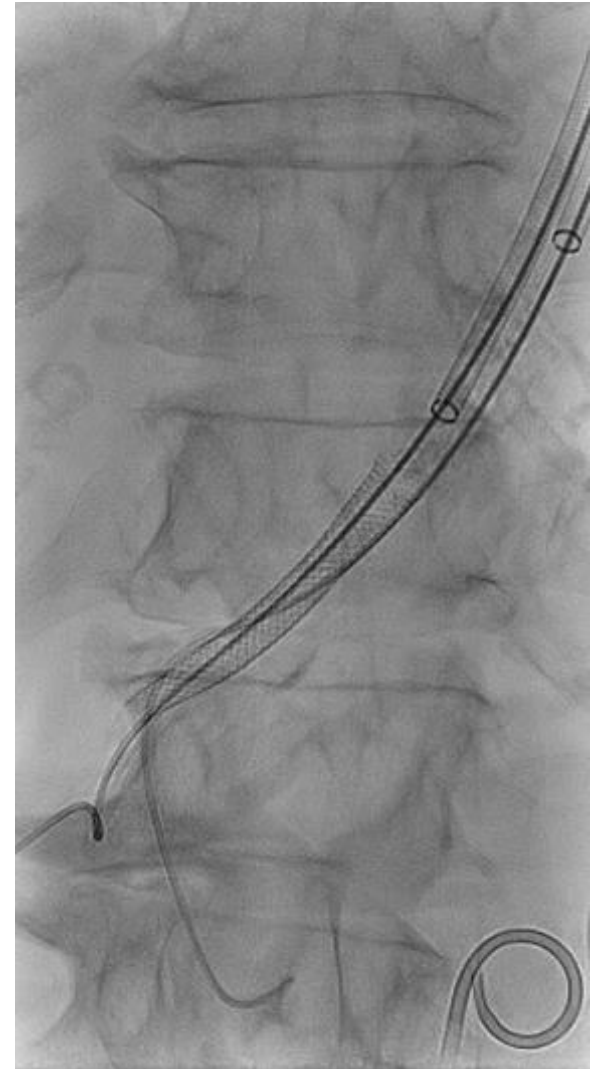
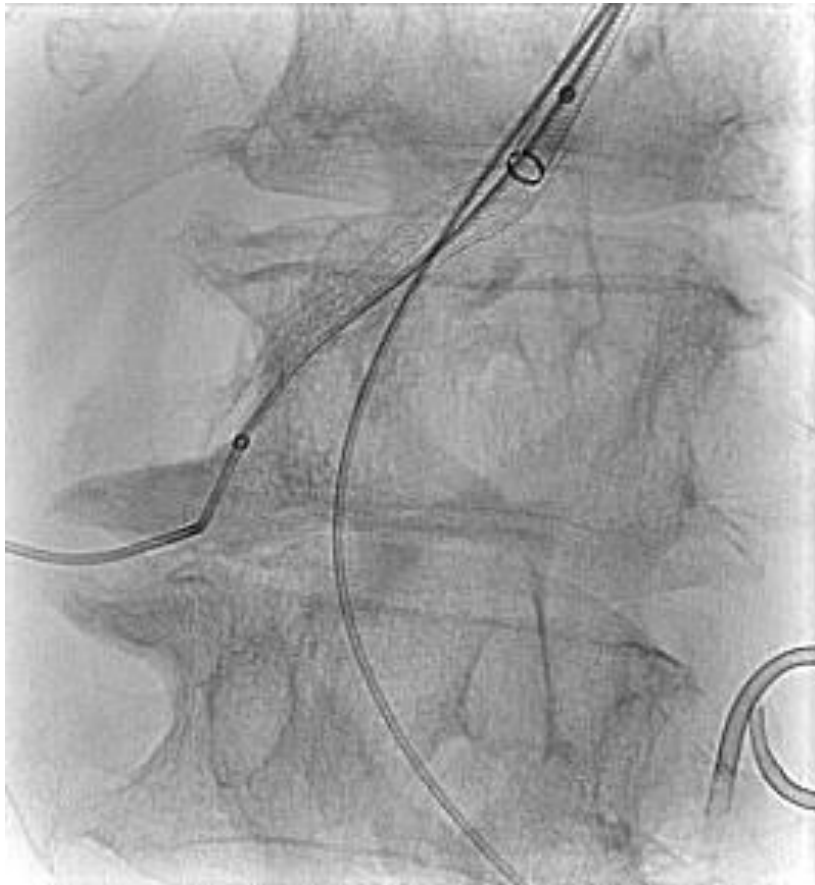
- Planned procedure:
 - Chimney graft on left and right renal artery
 - Intending a landing zone below SMA of 16mm
 - Excluder C3

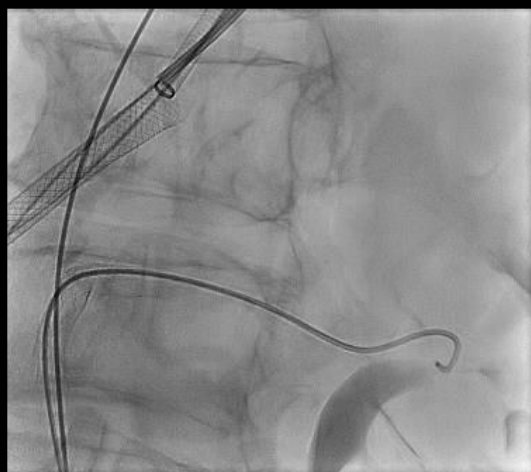




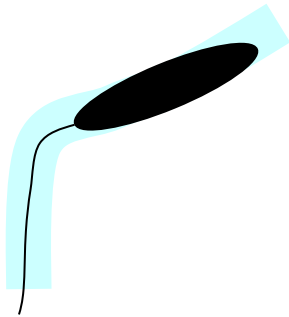
LAO 75

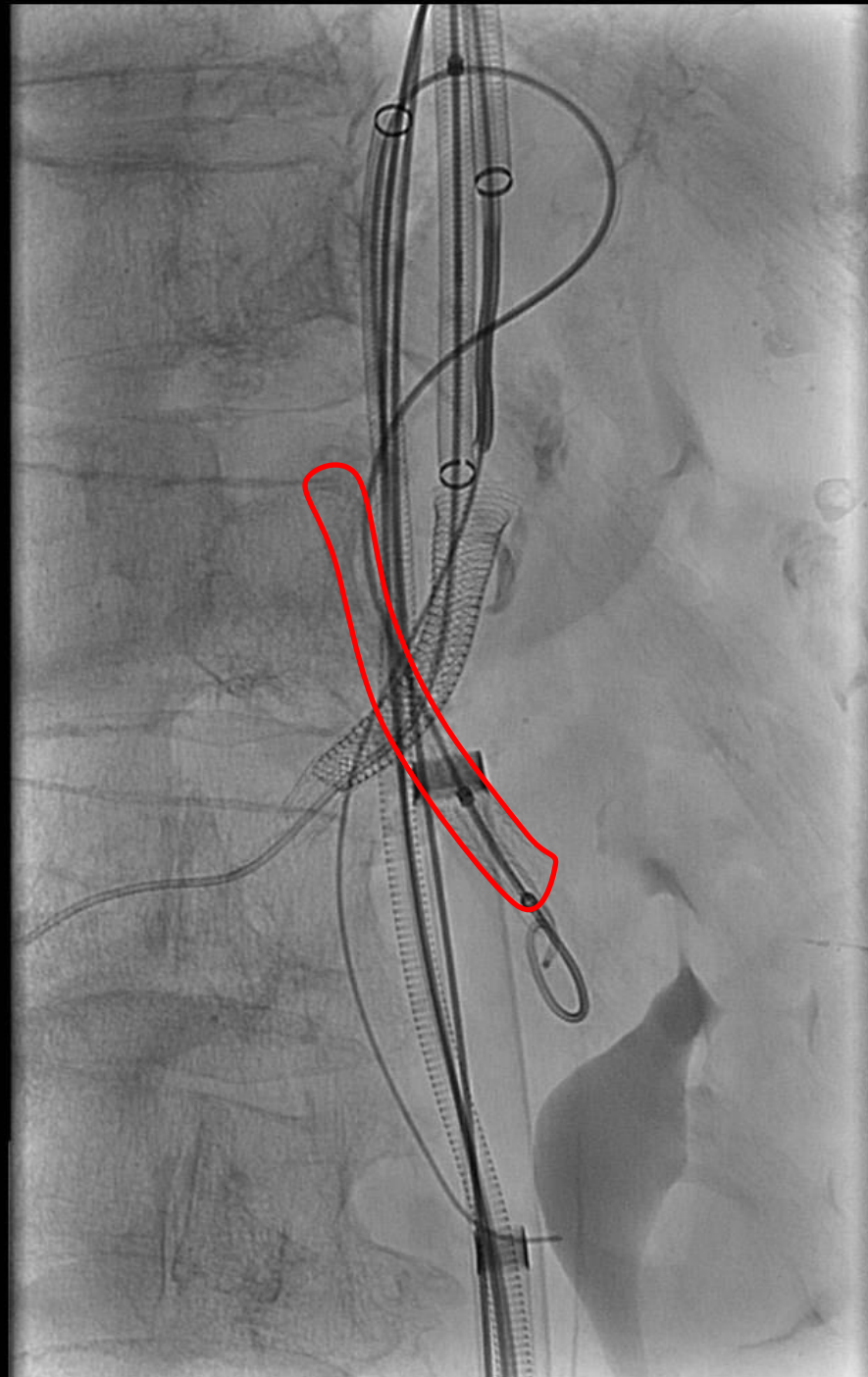
PRIMARY RELINING (WALLSTENT)

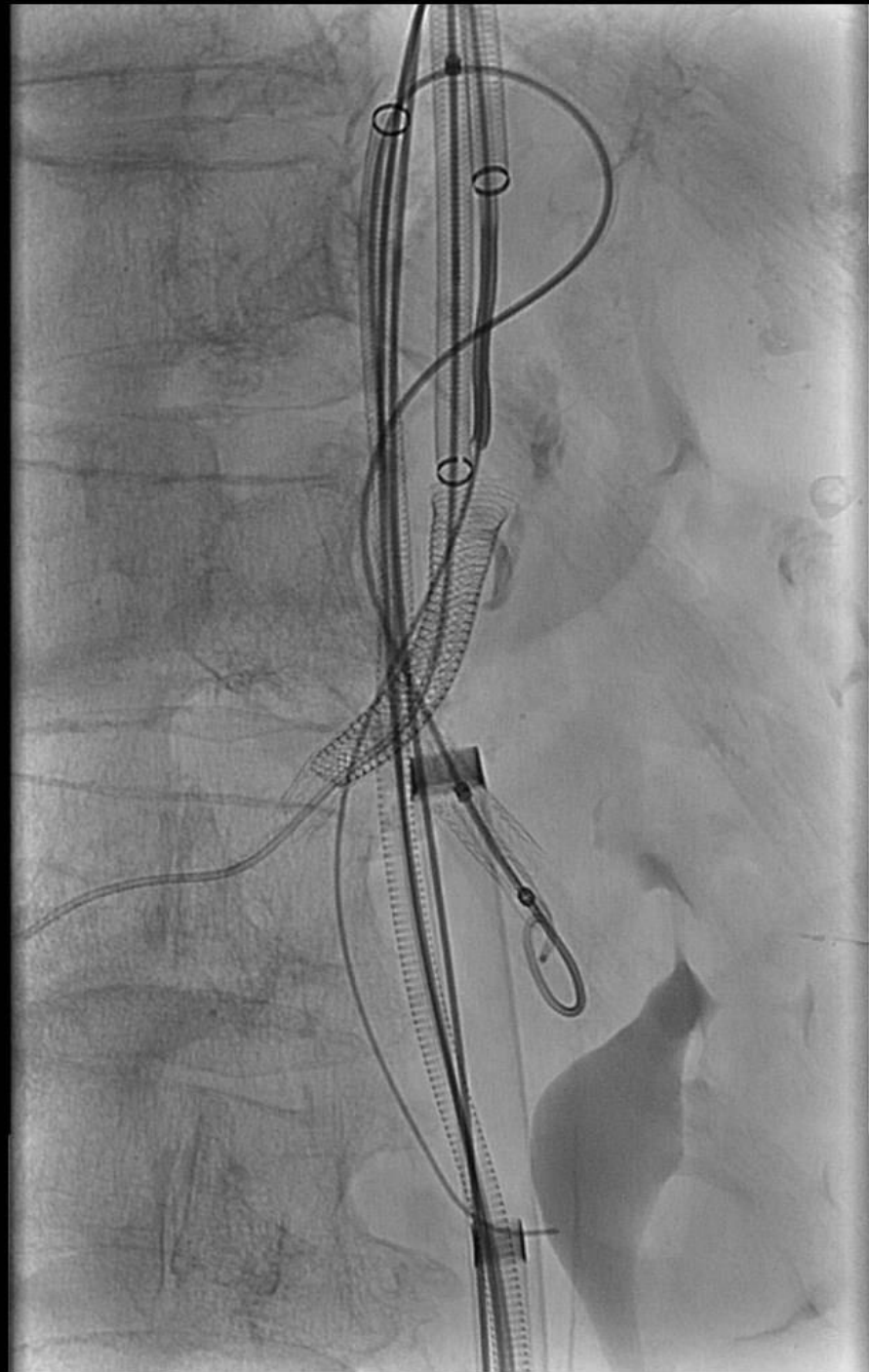




TRANSFEMORAL LIFT TECHNIQUE





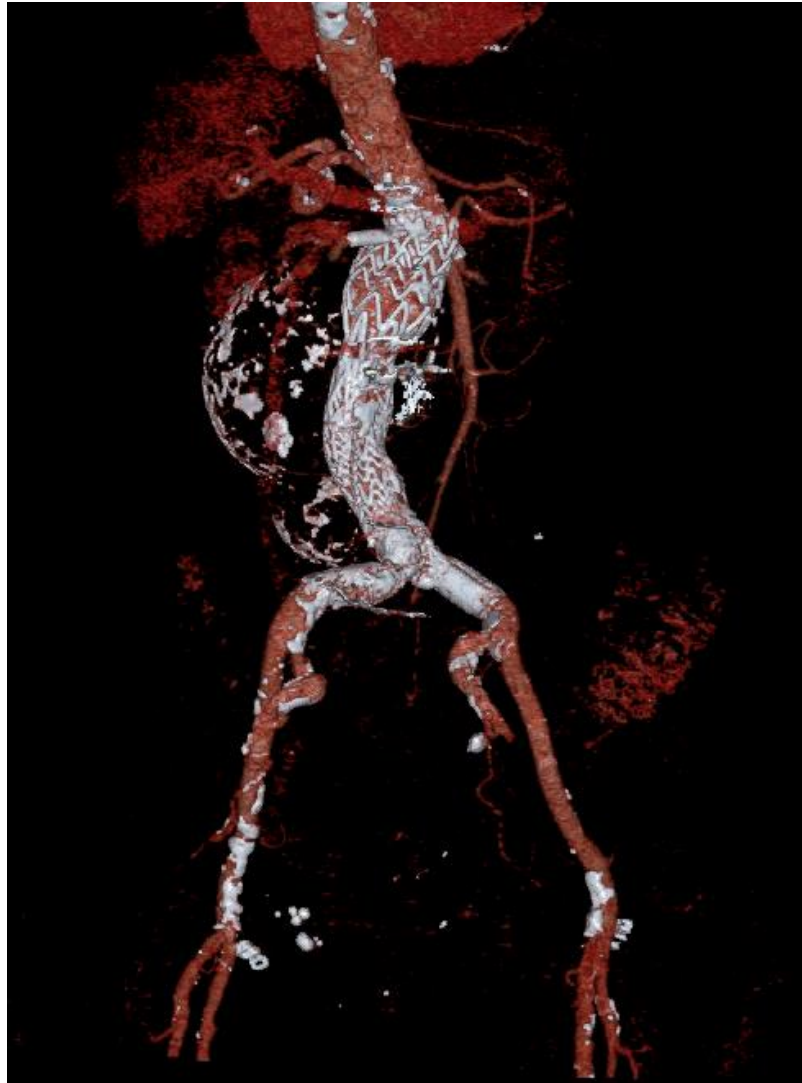


3°
N 4°
2 cm

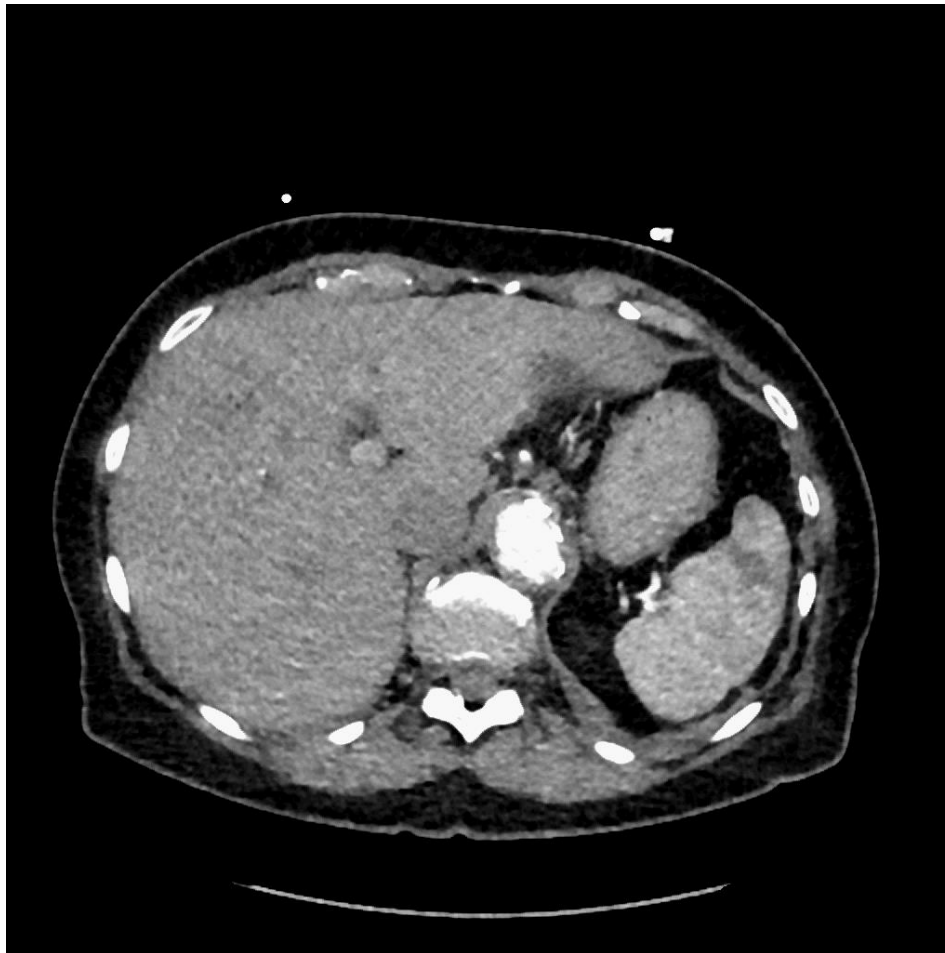
00
00
:32:10

ACT> 250

Postoperative control day 2

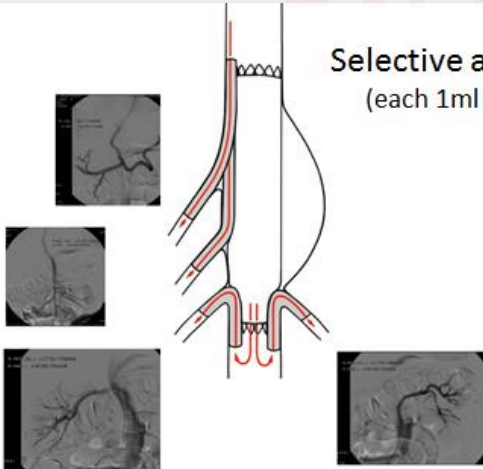


Postoperative control day 2

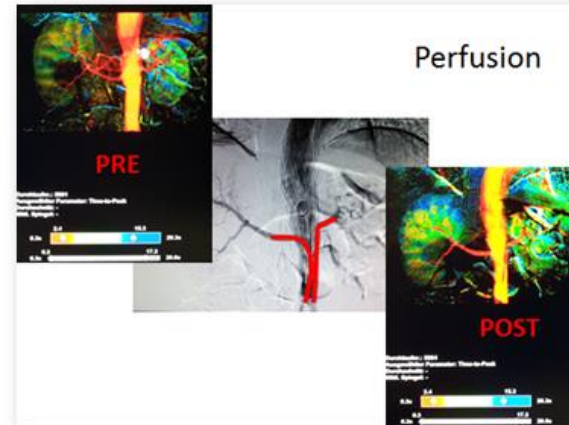


EXCLUDE FLOW RESTRICTION

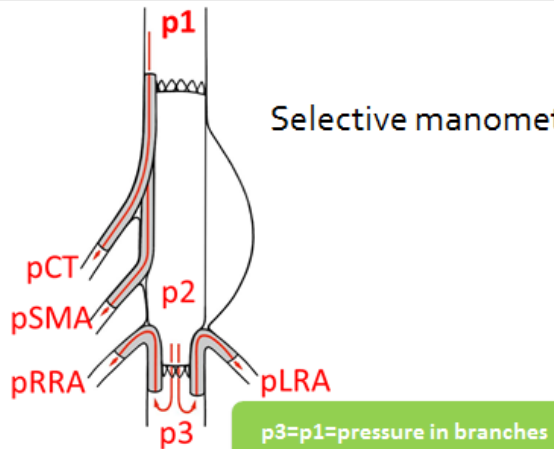
Selective angiography
(each 1ml of contrast)



Perfusion



Selective manometry



Postimplant controls

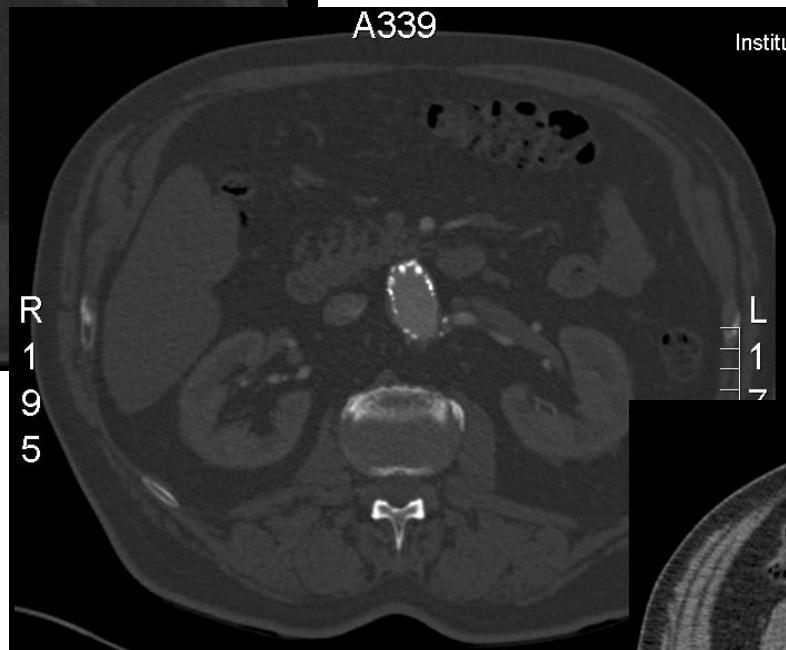
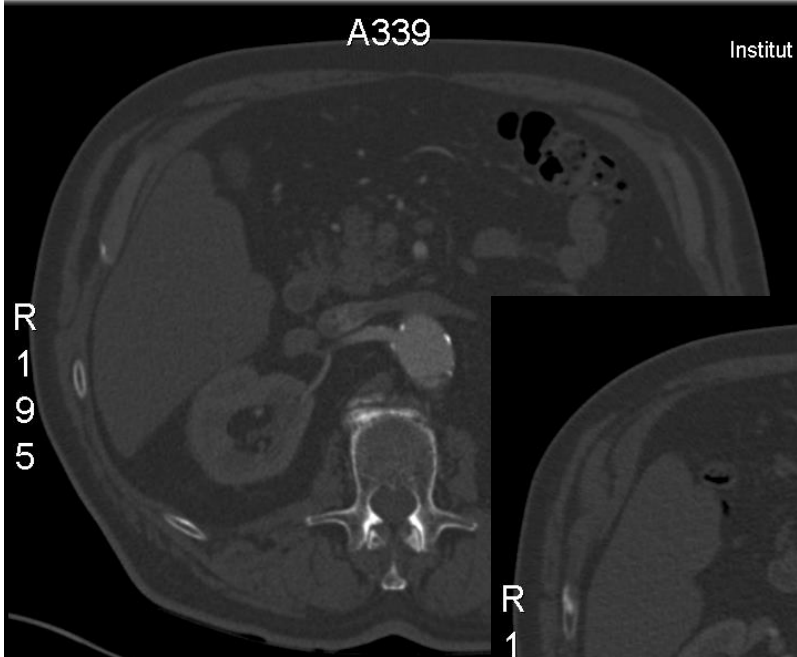


Acute CG occlusion

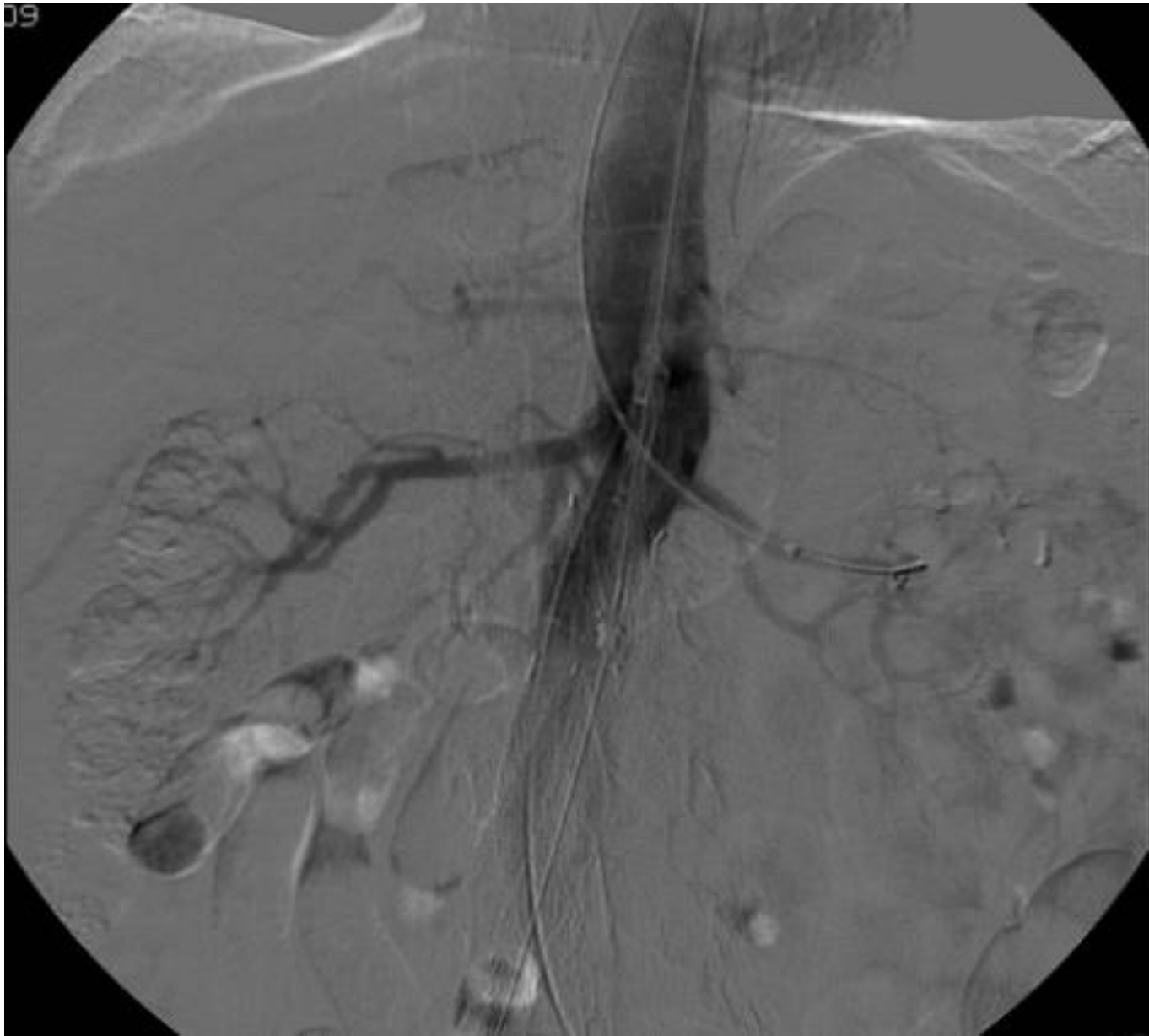
Indication for CG-EVAR

- Type Ia EL after EVAR
- Surgical strategy:
 - 1 chimney to LRA
 - 1 aortic cuff

Preop CTA



Procedure



, Raphael
933 M
6
009

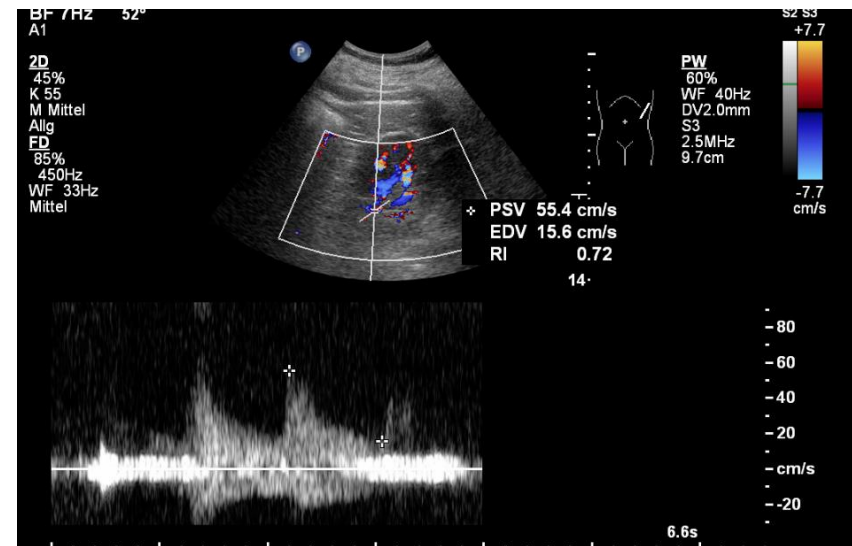
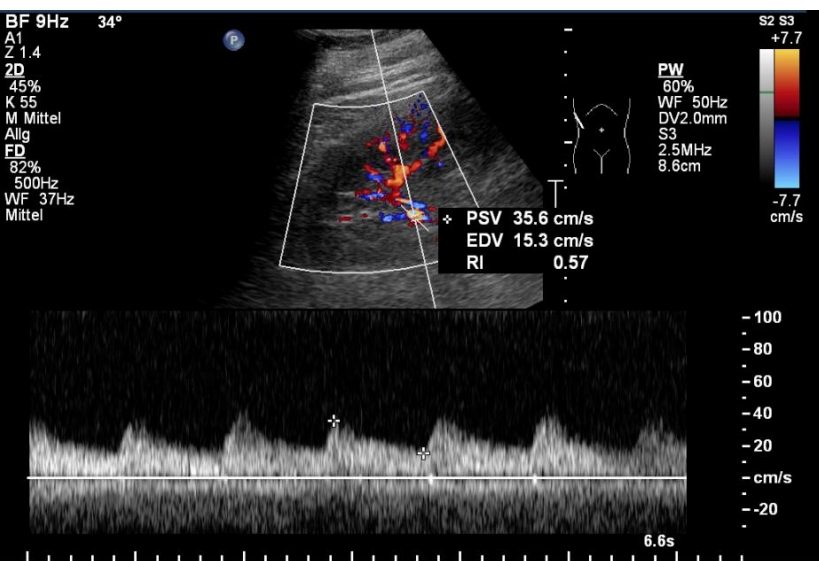
Universitaetsspital Z

RADIO



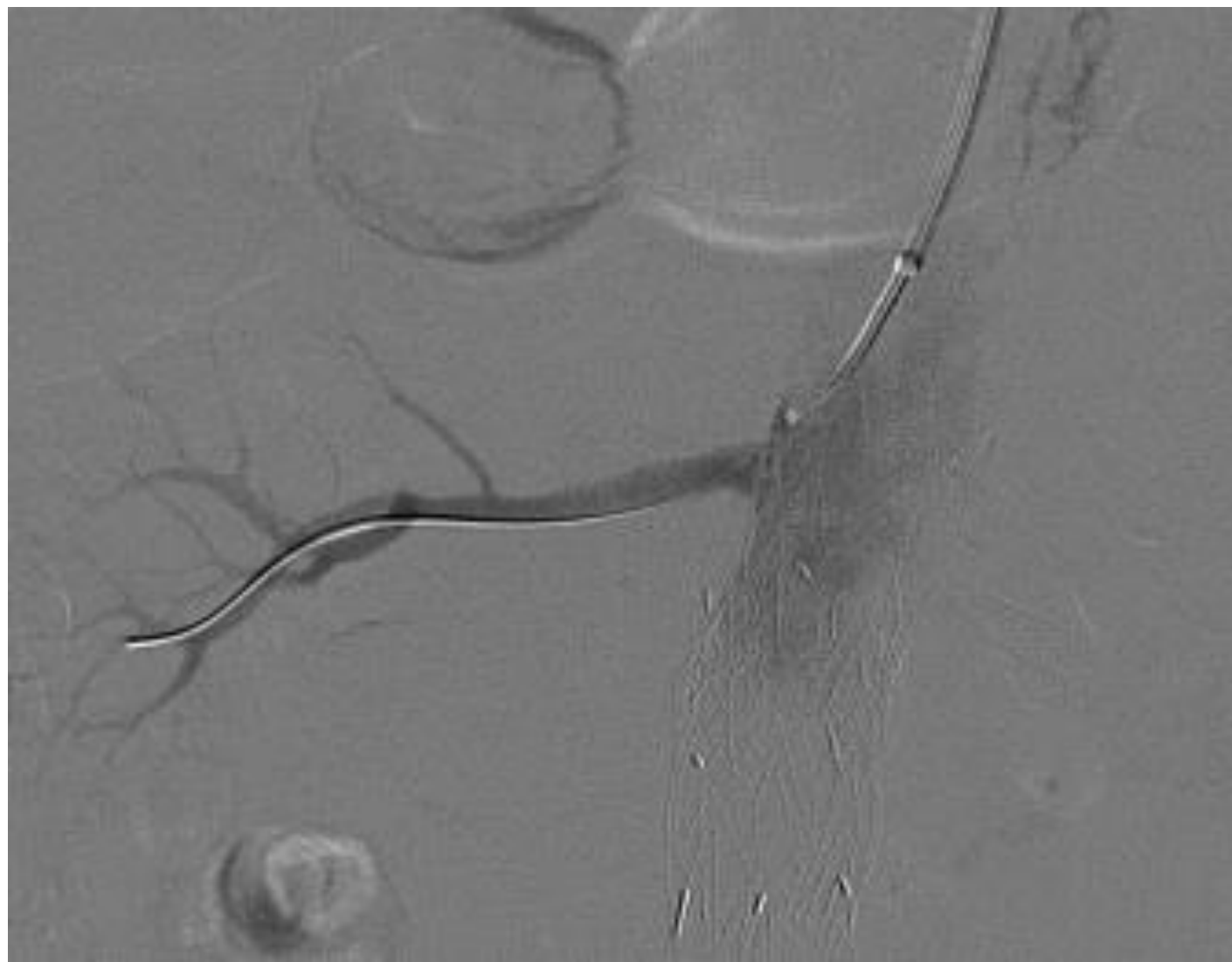
MASK

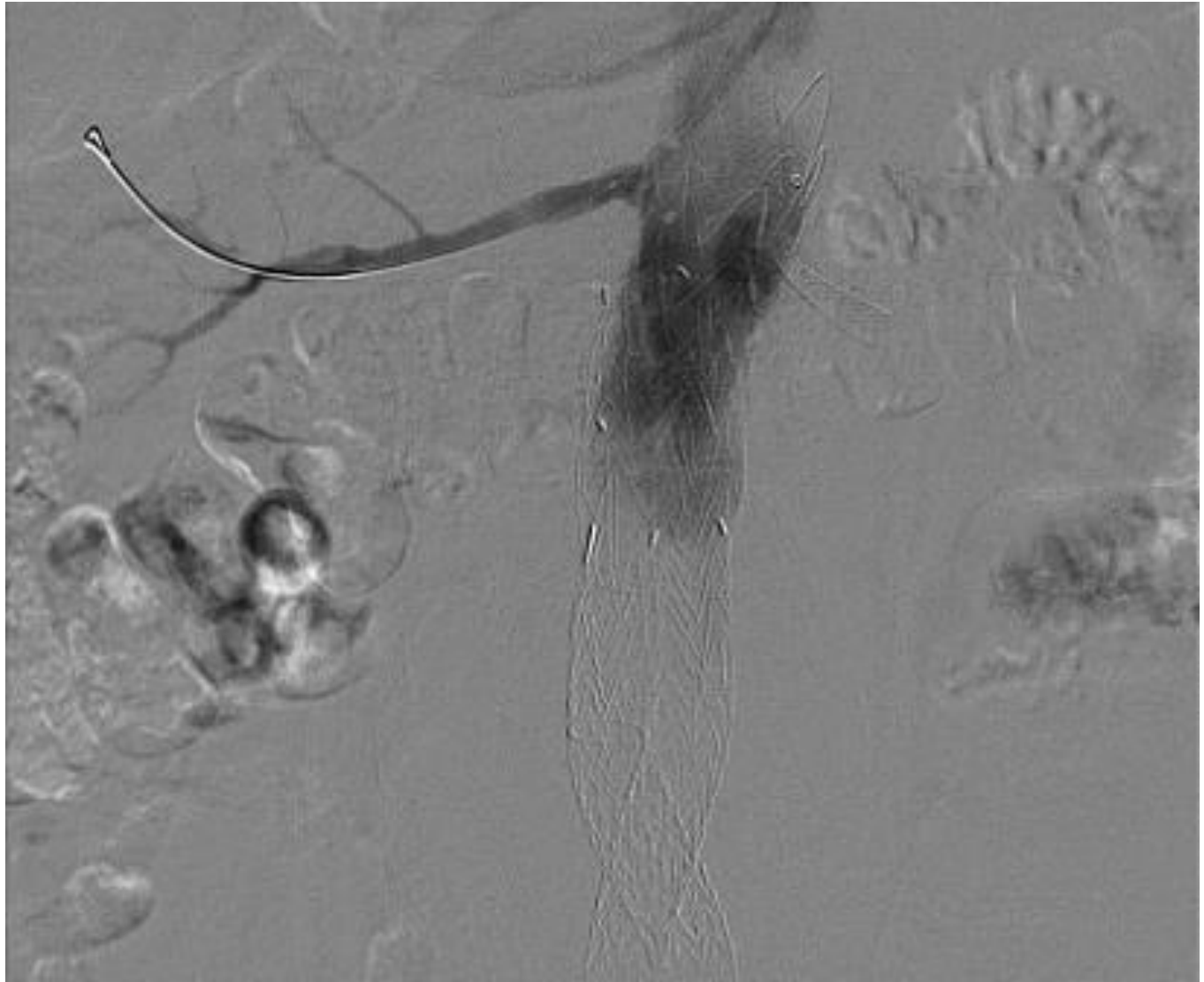
Postop duplex

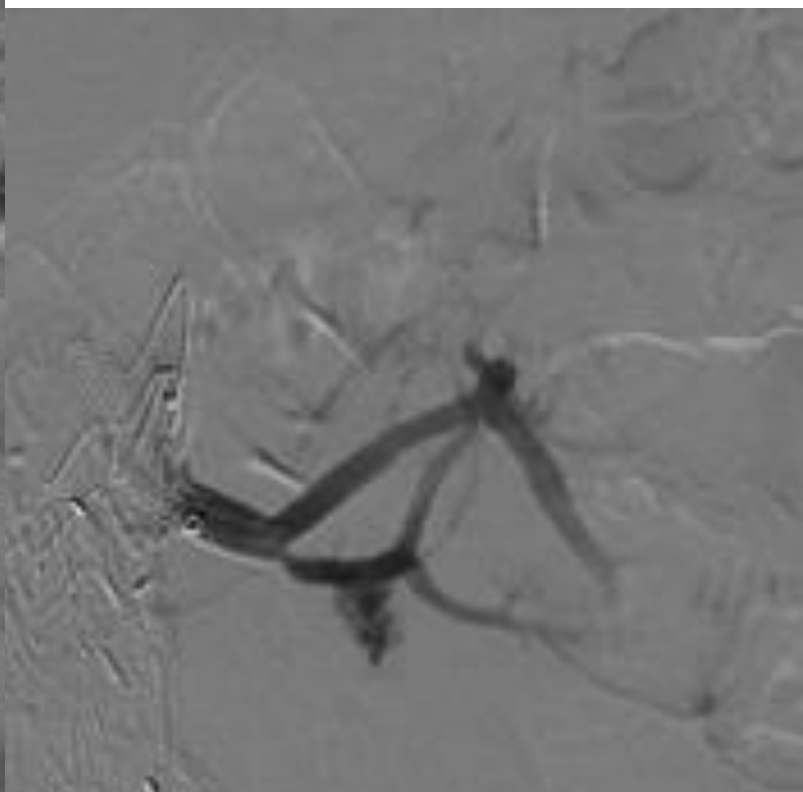


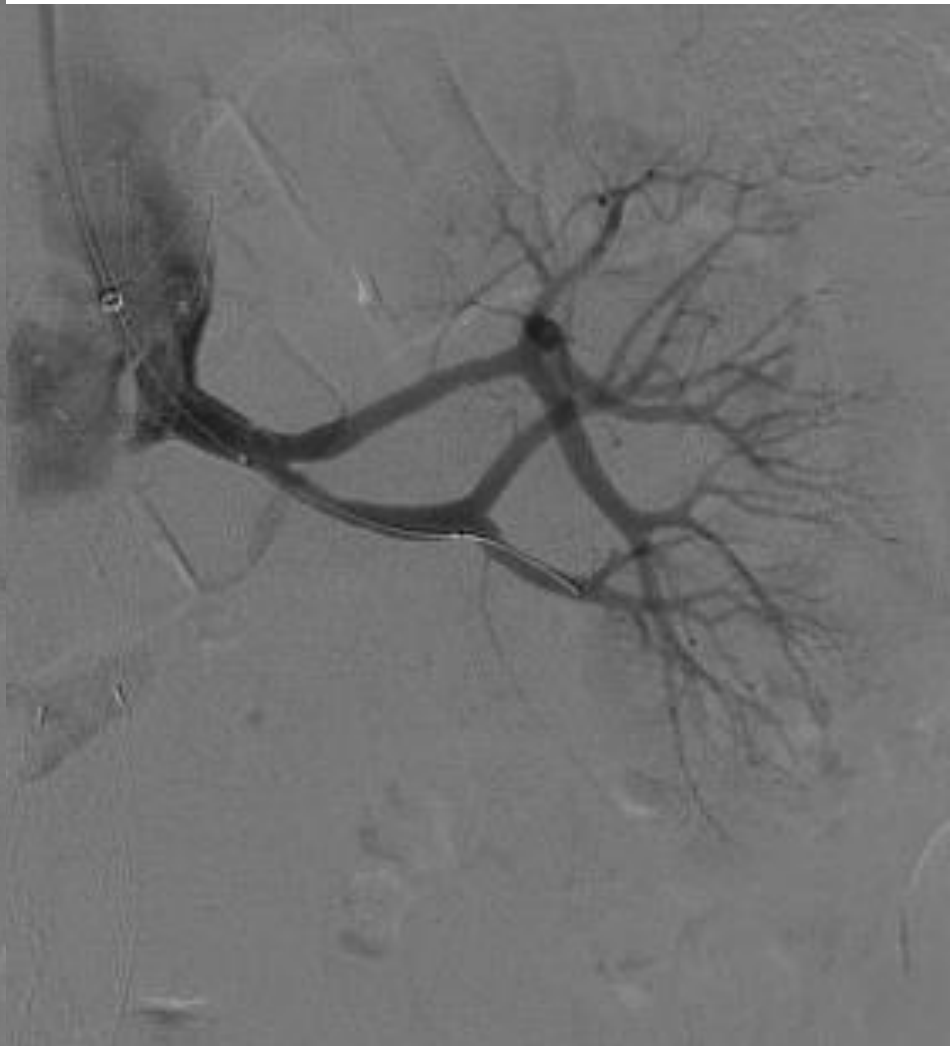
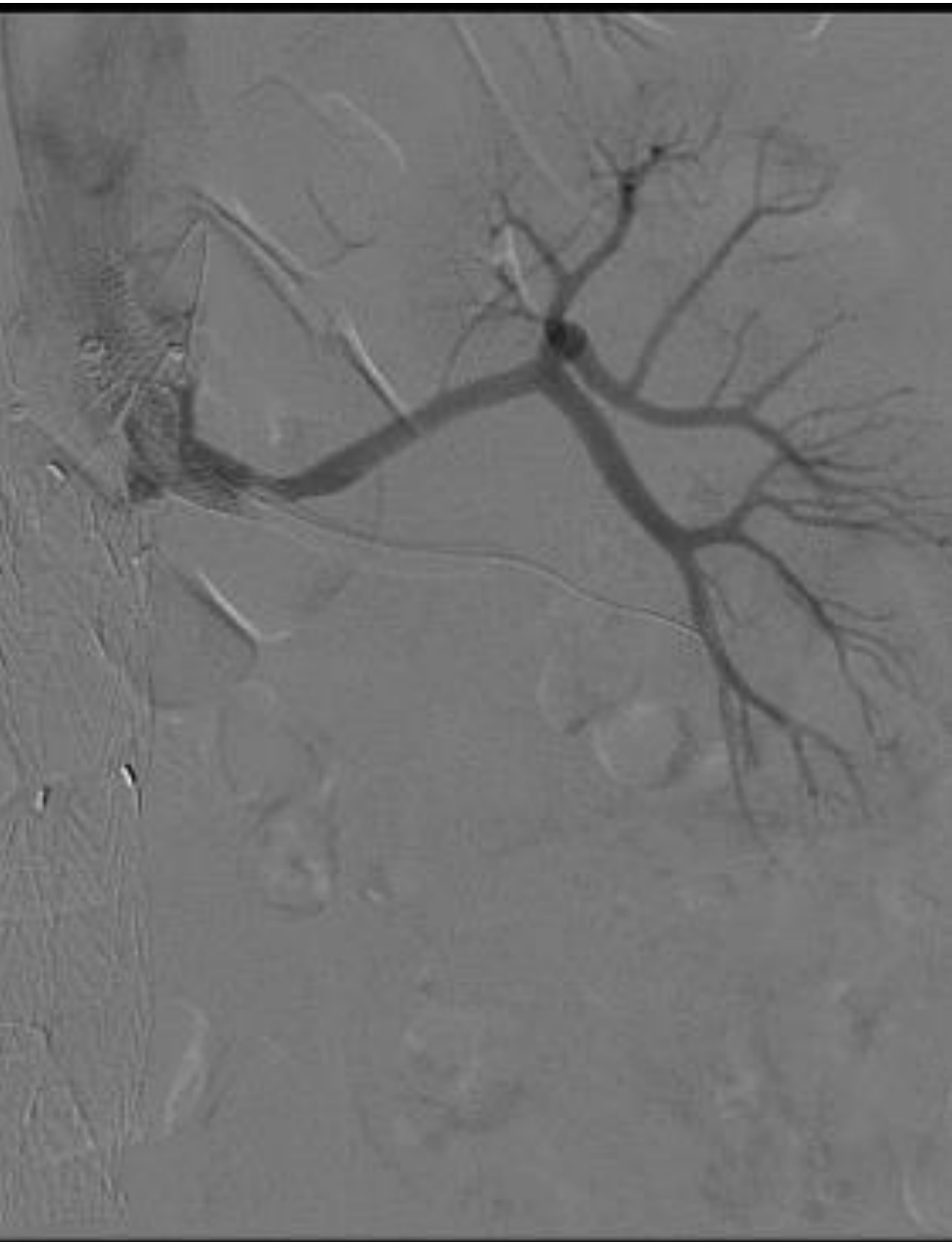
Redo procedure (CG to RRA)





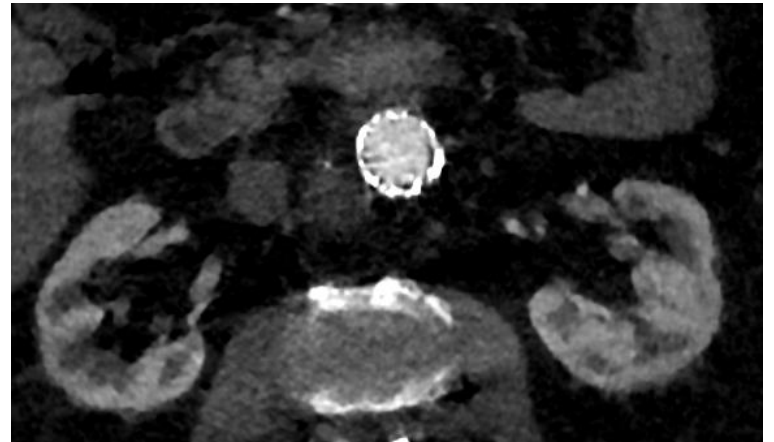






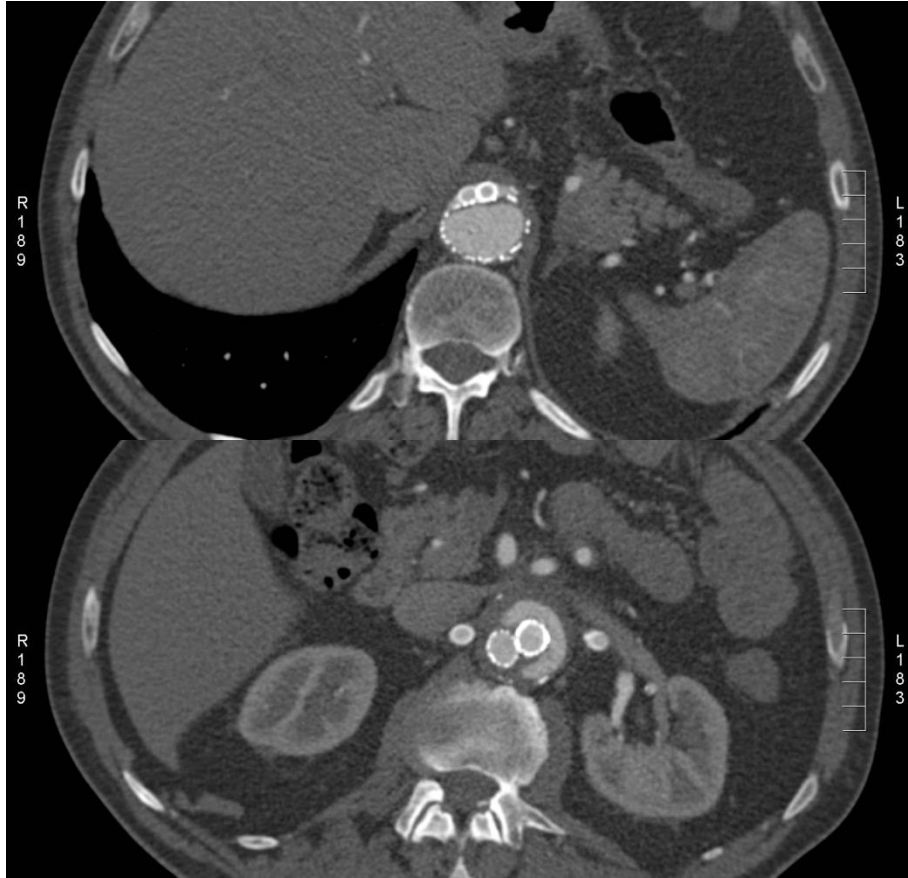


5-year FUP



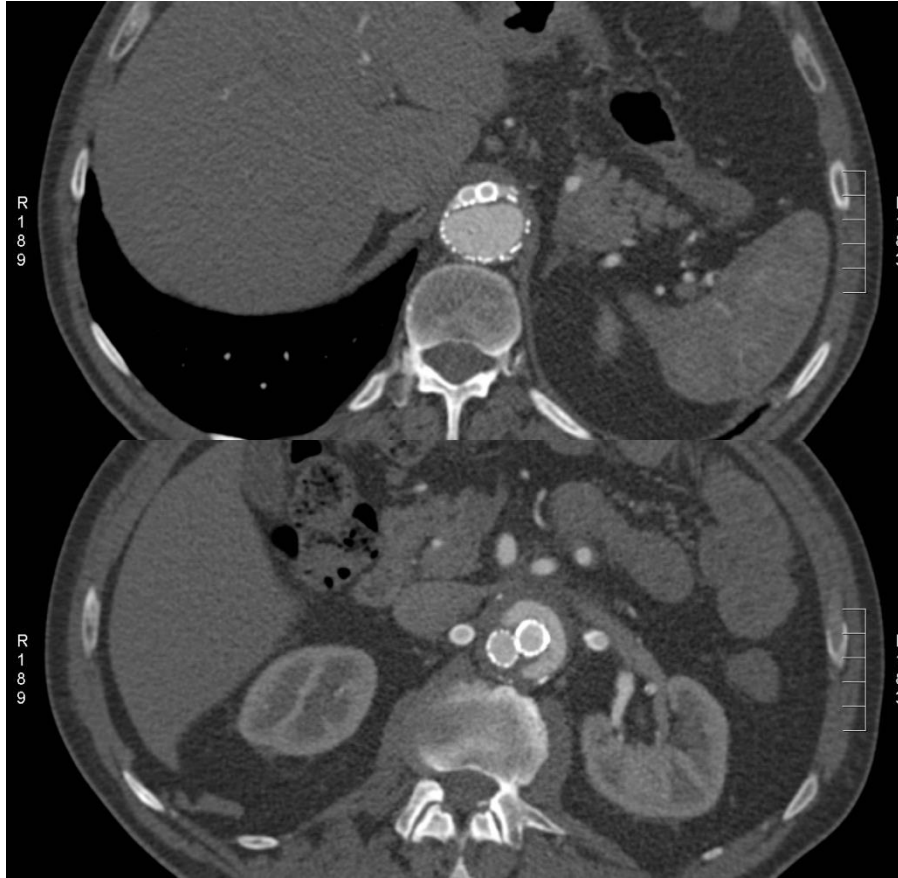
Endoleak treatment

Peri-chimney leak embolization



Peri-chimney leak embolization

Pre embo



Post embo

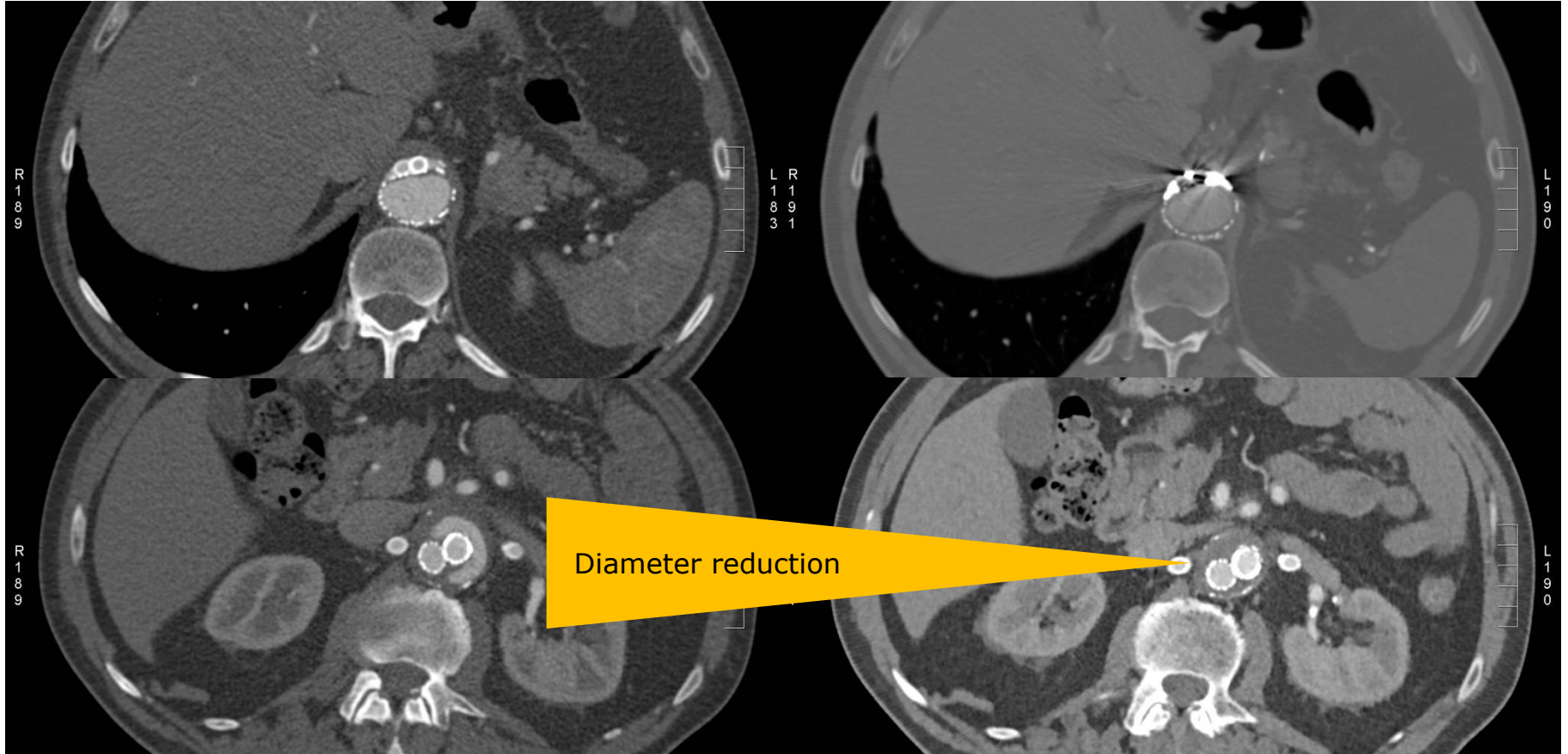


EVOH (ONYX)

Peri-chimney leak embolization

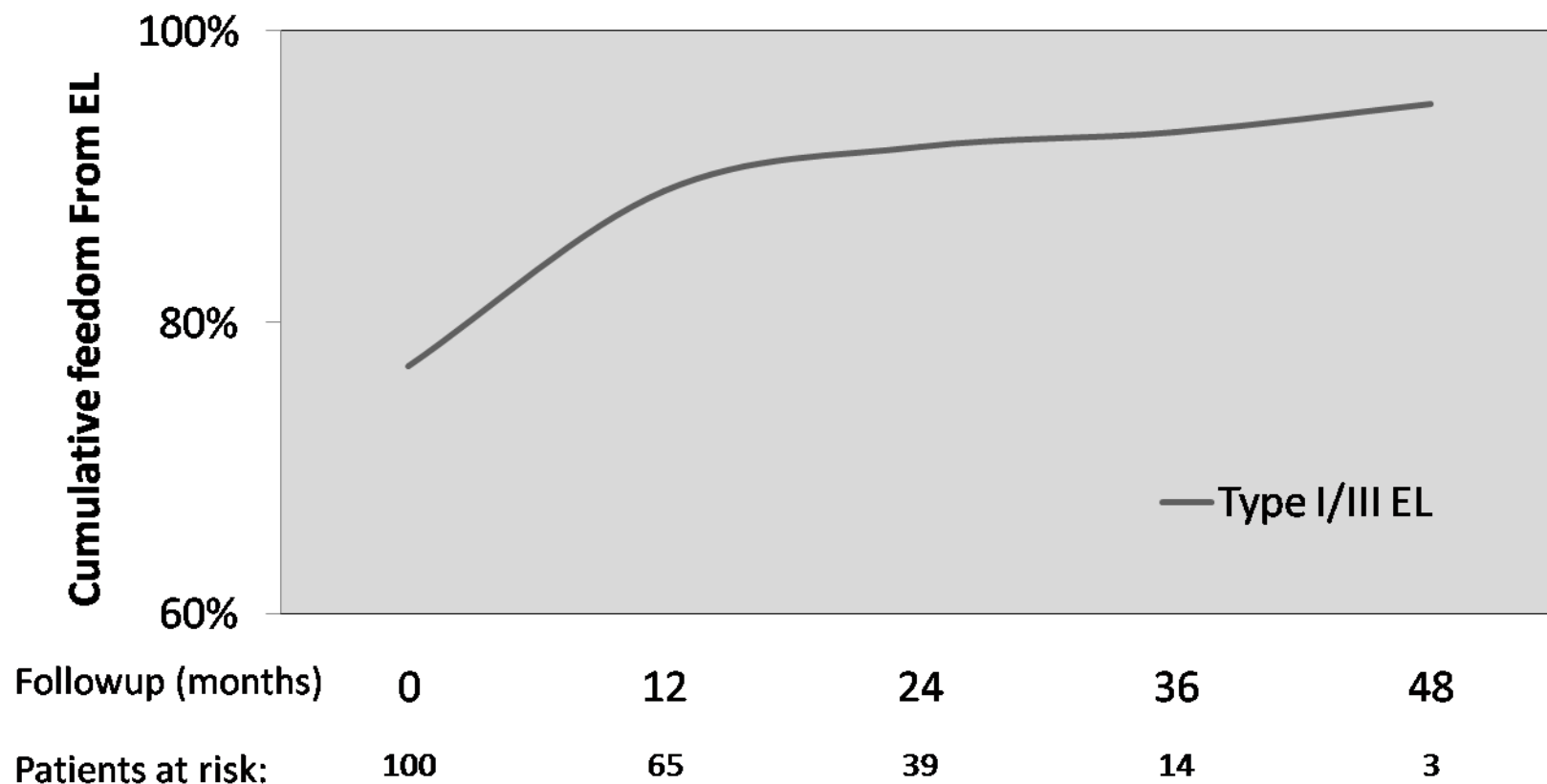
Pre embo

Post embo



EVOH (ONYX)

Figure 1. Freedom from type I/III endoleak

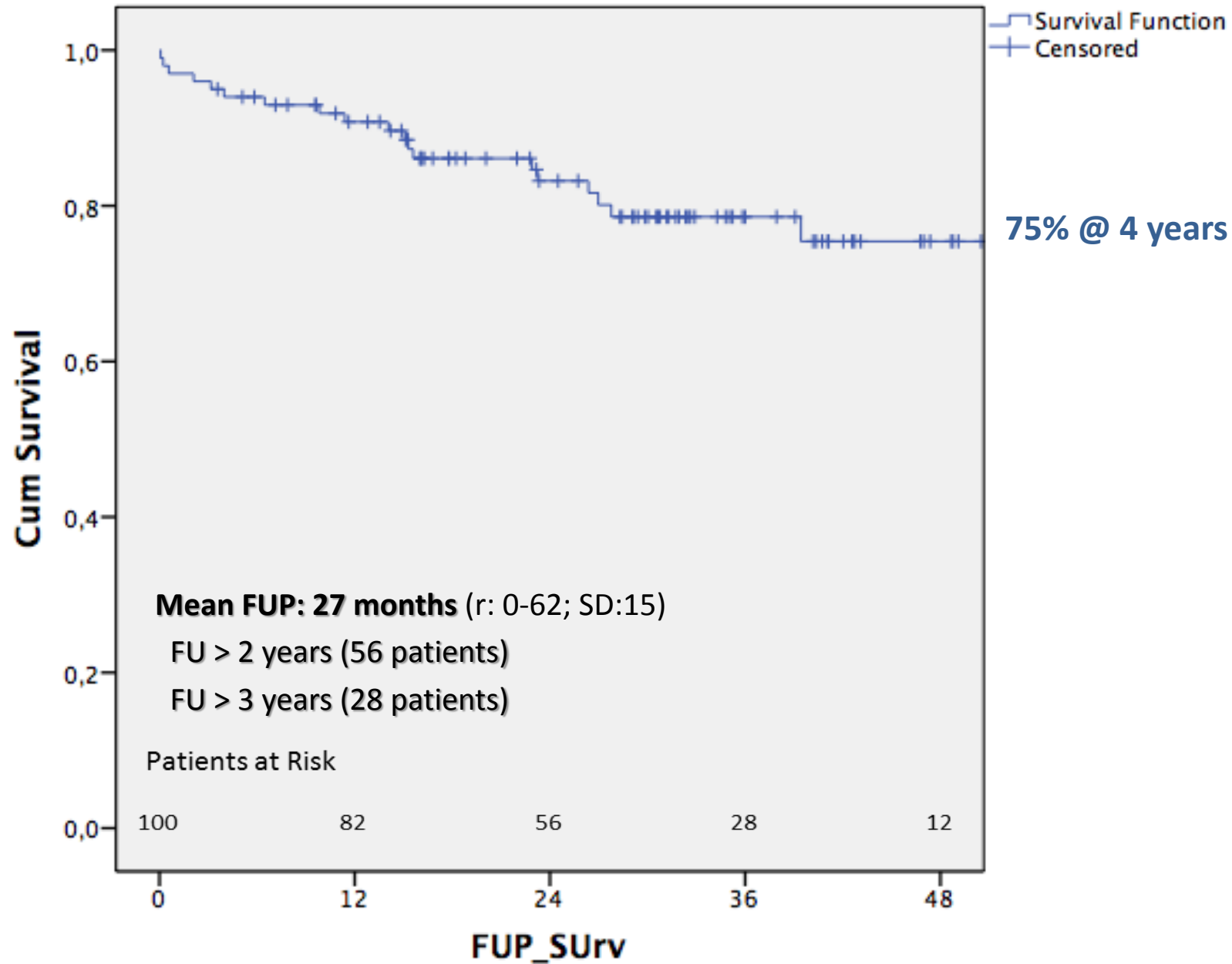


Results

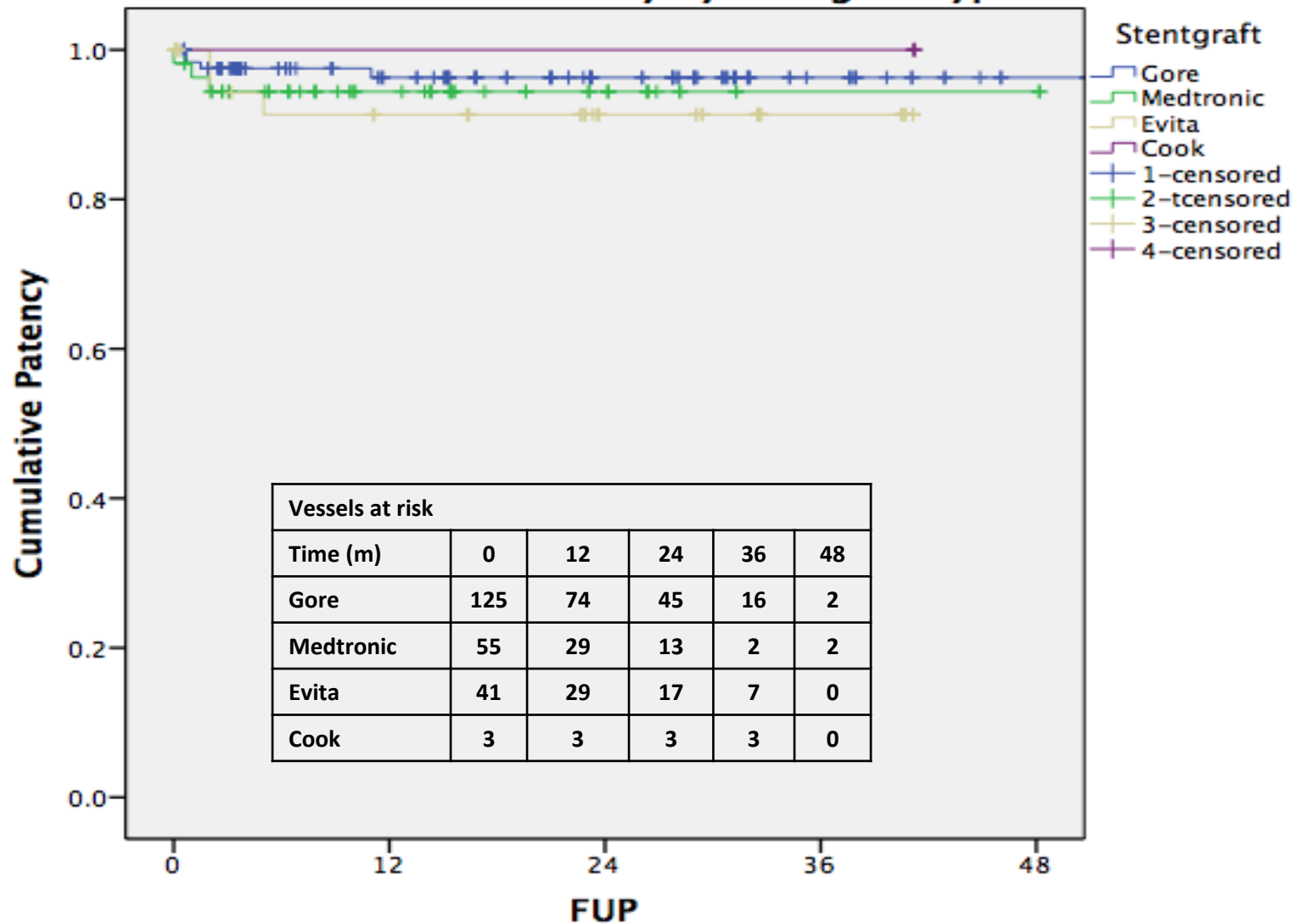
30d Results (n=100)

- Immediate technical success rate: 99%
 - 2 renal CPG missed
- Mortality rate: 2%
 - Elective: 1.4% (1/73)
 - Nonelective: 4% (1/27)

Survival Function



CPG Patency by stentgraft type



P=.64

Parallel grafts (100 pts from UHZ)

| Late outcomes | | | | |
|---------------------------------|------------------|-------|-------------|-----------------|
| | Mortality at FUP | MAXTD | CPG patency | Reinterventions |
| PRAA vs TAAA | 0.32 | 0.77 | 0.97 | 0.15 |
| Elective vs nonelective | 0.001 | 0.62 | 0.52 | 0.01 |
| 1-2 CPG vs 3-4 CPG | 0.03 | 0.17 | 0.84 | 0.06 |
| CG vs PG vs CPG | 0.06 | 0.59 | 0.95 | 0.33 |
| Renal vs visceral vs all | 0.72 | 0.12 | 0.41 | 0.40 |
| Aortic stentgraft | 0.96 | 0.12 | 0.86 | 0.08 |

Conclusions

- **One or two chimney grafts in short infrarenal neck is valuable option, at least for acute patients or patients unfit for open repair or F/BEVAR**

Thank You

