

Common Femoral Artery Lesions Can Be Treated With Endovascular Techniques!

George S. Chrysant, MD
Chief Medical Officer
INTEGRIS Heart Hospital

Disclosure Statement of Financial Interest

Within the past 12 months, I or my spouse/partner have had a financial interest/arrangement or affiliation with the organization(s) listed below.

Affiliation/Financial Relationship

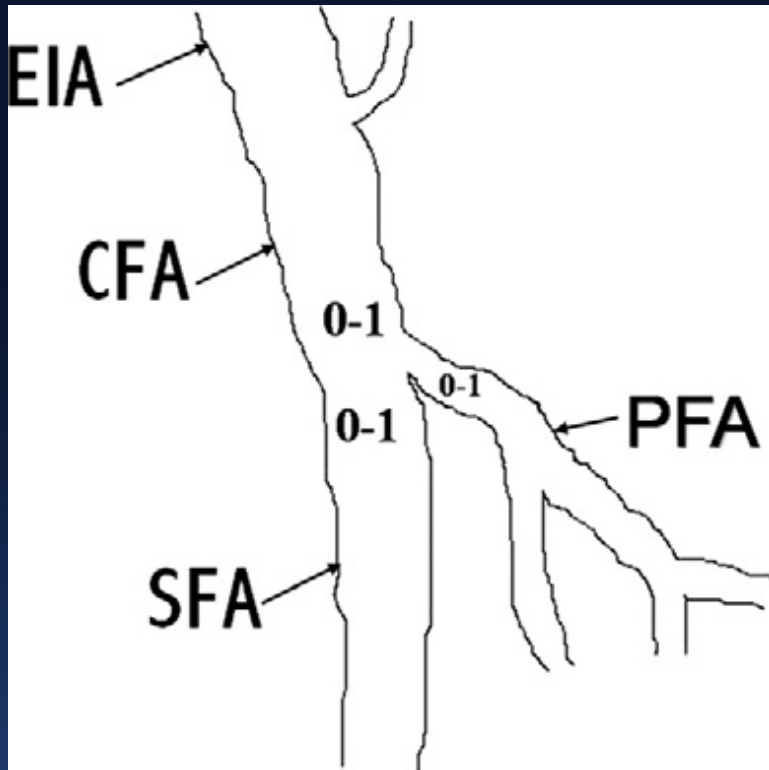
- Consulting Fees/MAB
- Consulting Fees/MAB
- Consulting Fees/MAB/Proctor
- Consulting Fees/Proctor

Company

- Abbott Vascular
- Boston Scientific
- Medtronic
- Philips

All TCT 2018 faculty disclosures are listed online and on the App.

Medina Classification applied to CFA

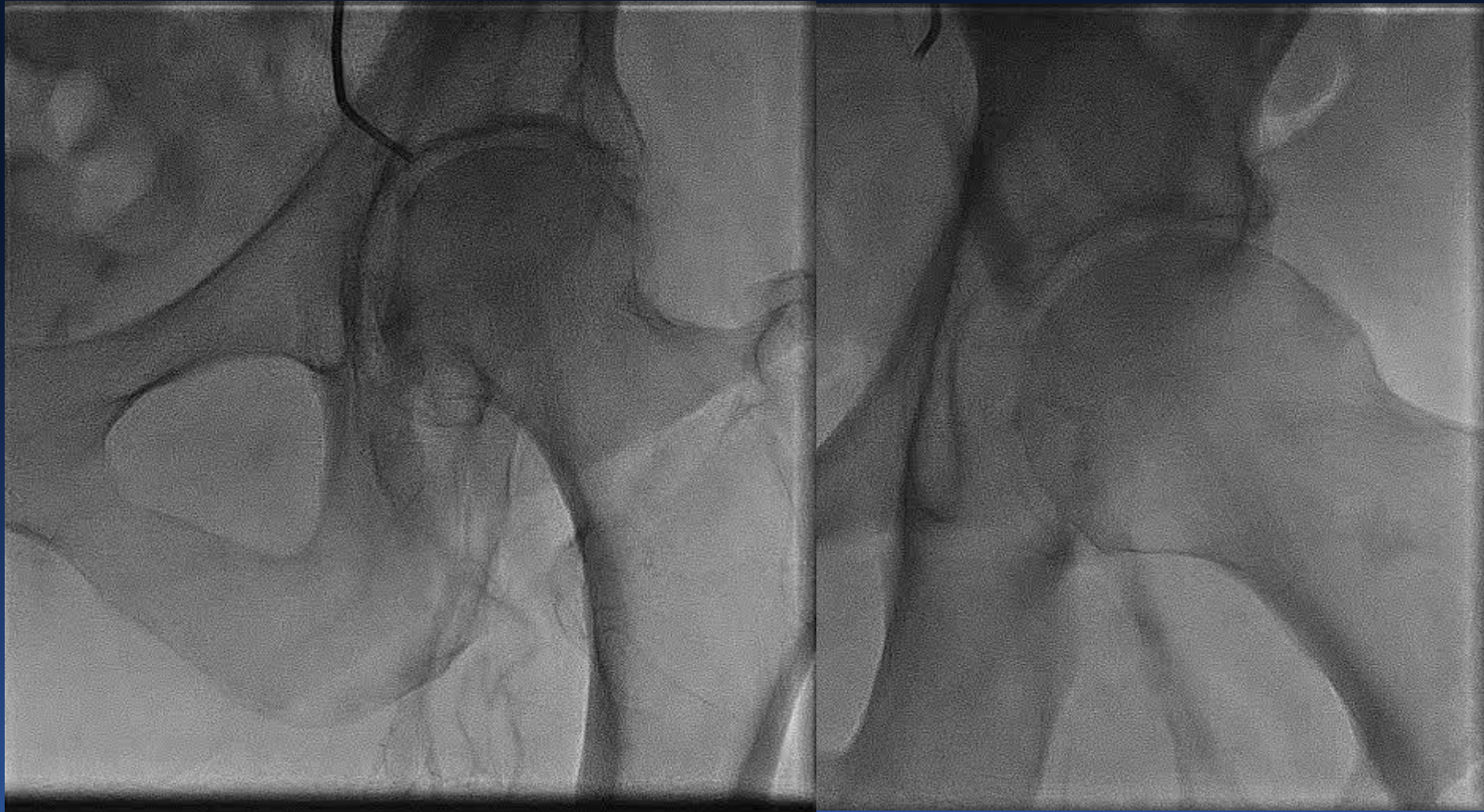


Alternative Method

Lesion Type:

- I. EIA
- II. CFA only
- III. CFA and bifurcation
- IV. Bypass Anastomosis

All CFA disease is not equal...



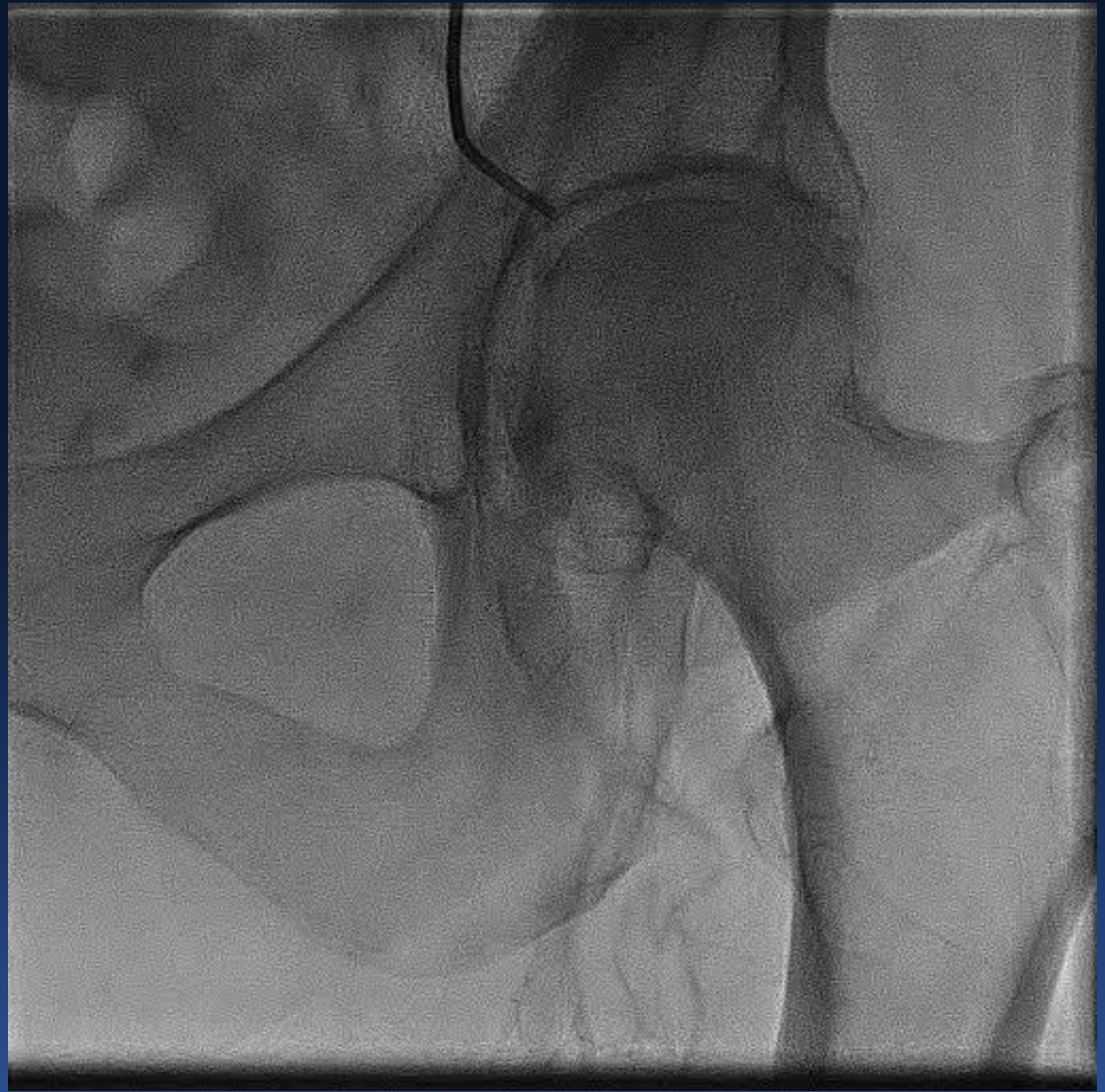
**Rutherford 3
Claudicant**

81 years old

Isolated CFA disease

1-0-0

Type II Disease





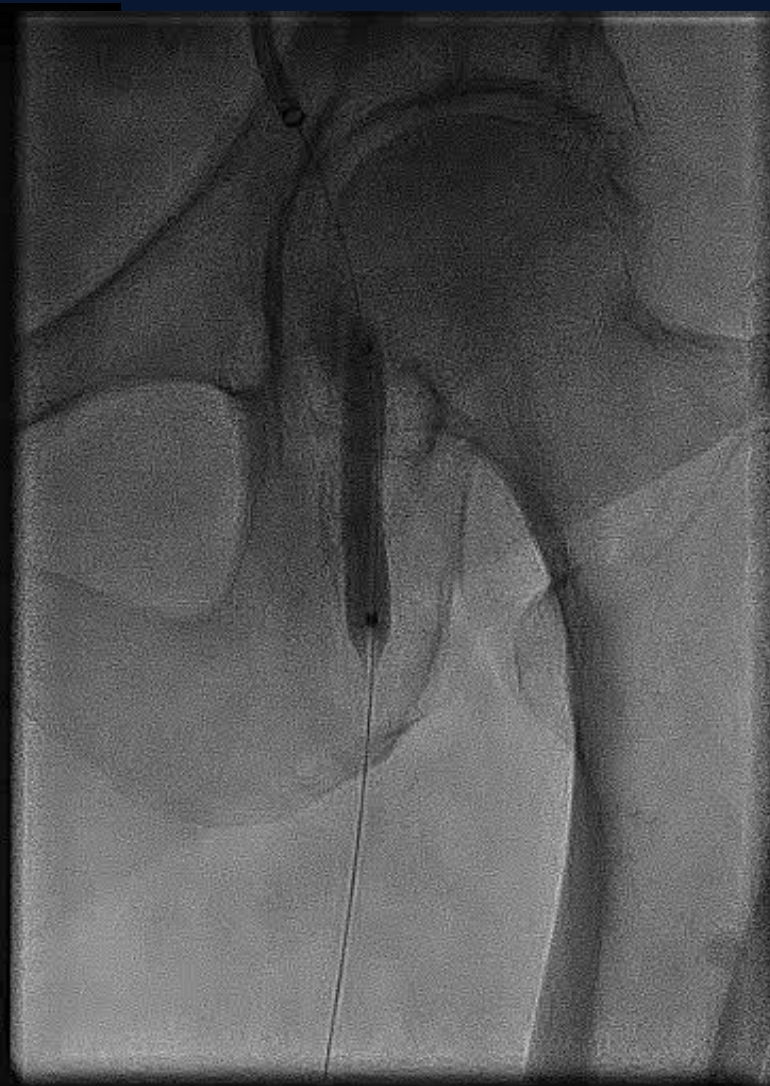
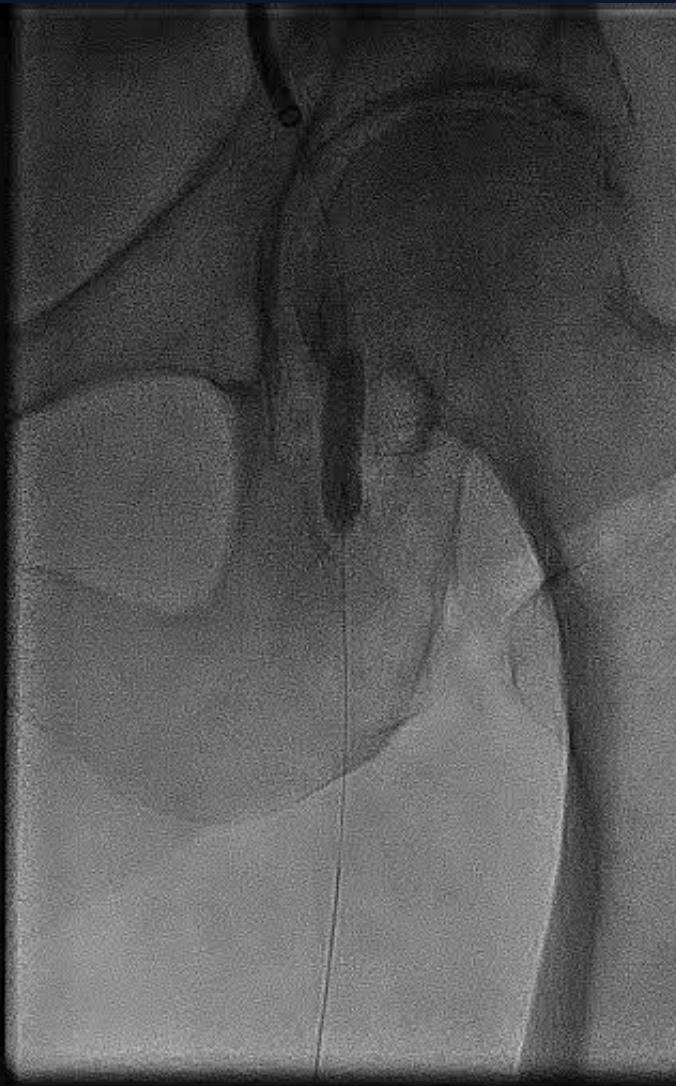
EPD Deployed



Atherectomy performed

PTA

DCB



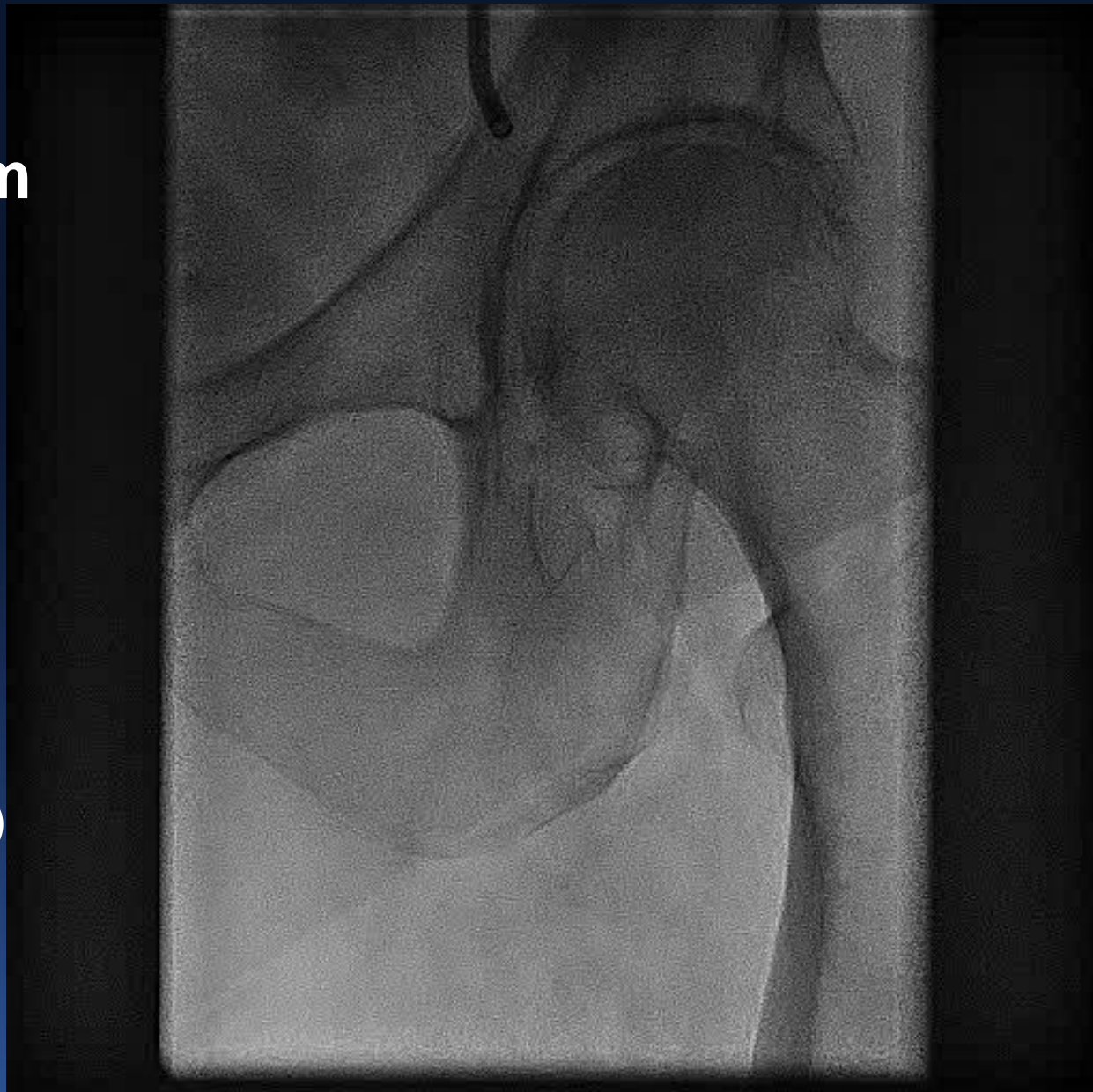
Final Angiogram

Technically very
reproducible

Low morbidity to
patient

Economical (SDD)

Data?



Endovascular Treatment of Common Femoral Artery Disease

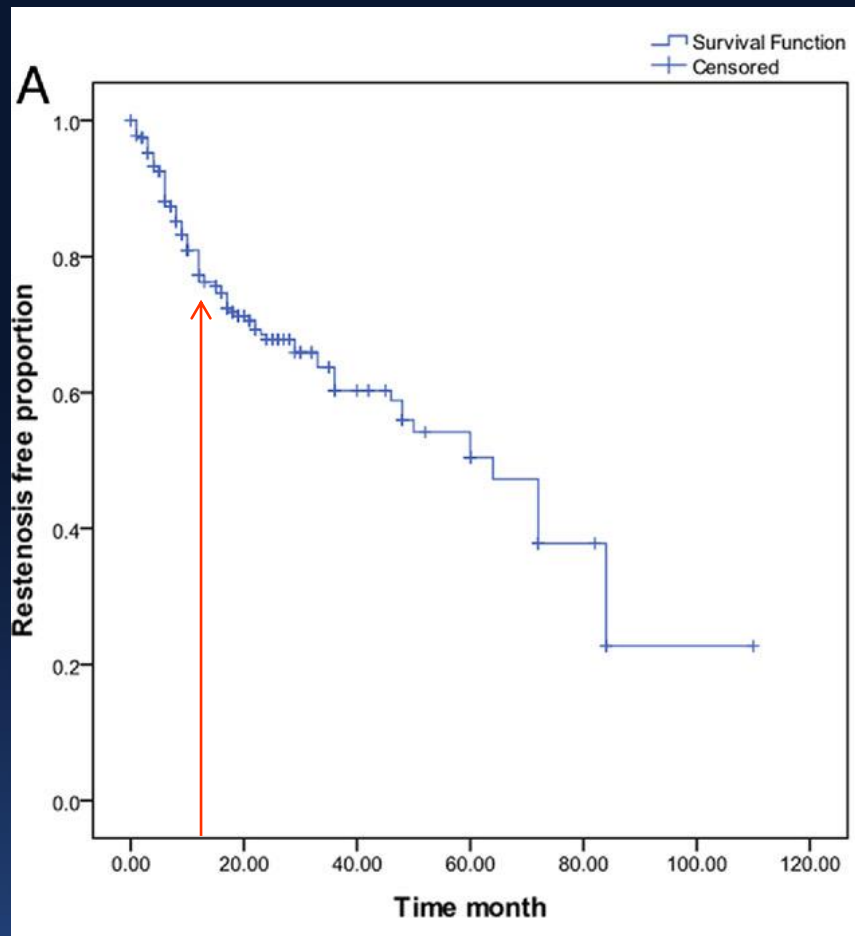
Medium-Term Outcomes of 360 Consecutive Procedures

Robert F. Bonvini, MD,*† Aljoscha Rastan, MD,* Sebastian Sixt, MD,* Elias Noory, MD,*
Thomas Schwarz, MD,* Ulrich Frank, MD,‡ Marco Roffi, MD,† Pierre André Dorsaz, PhD,†
Uwe Schwarzwälder, MD,* Karlheinz Bürgelin, MD,* Roland Macharzina, MD,* Thomas Zeller, MD*
Bad Krozingen, Germany; and Geneva and Chur, Switzerland

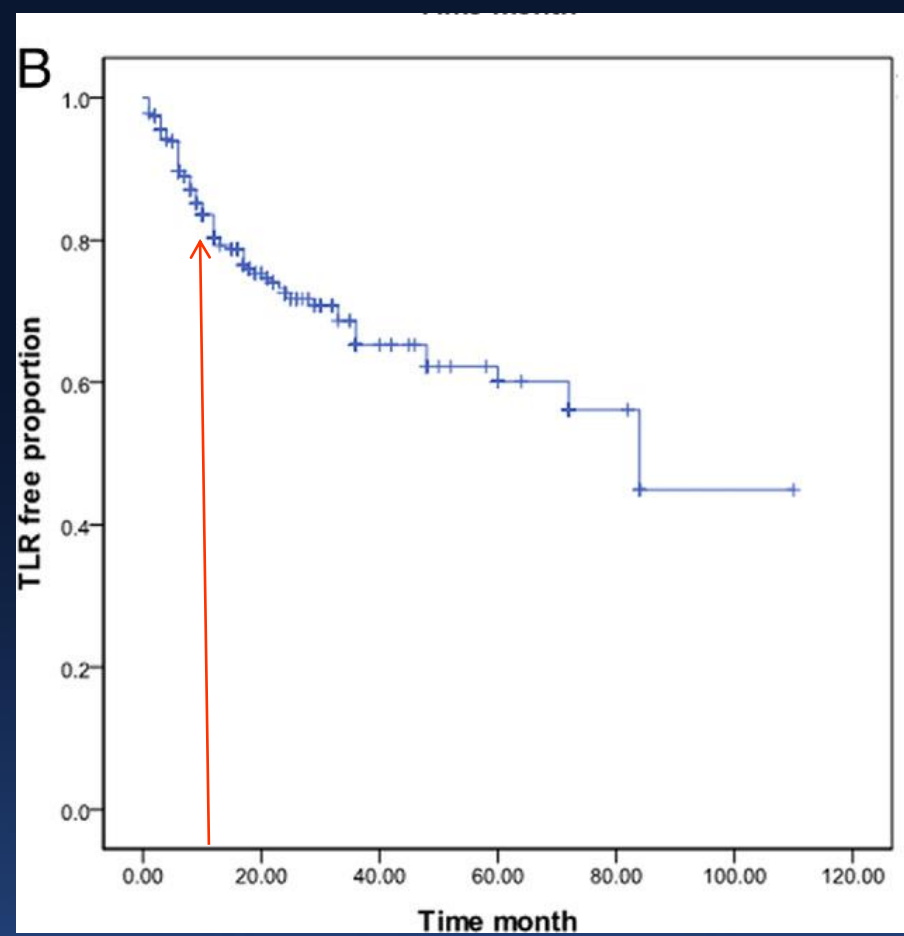
JACC Vol. 58, No. 8, 2011
August 16, 2011:792-8

11 Year Period

- Retrospective analysis-360 patients
- 355 PTA
 - 144 Stent
 - 25 Atherectomy
- 93% had < 30% residual stenosis
- 48% 1-1-1 vs 19% 1-0-0



Restenosis at 12 months 27.6%

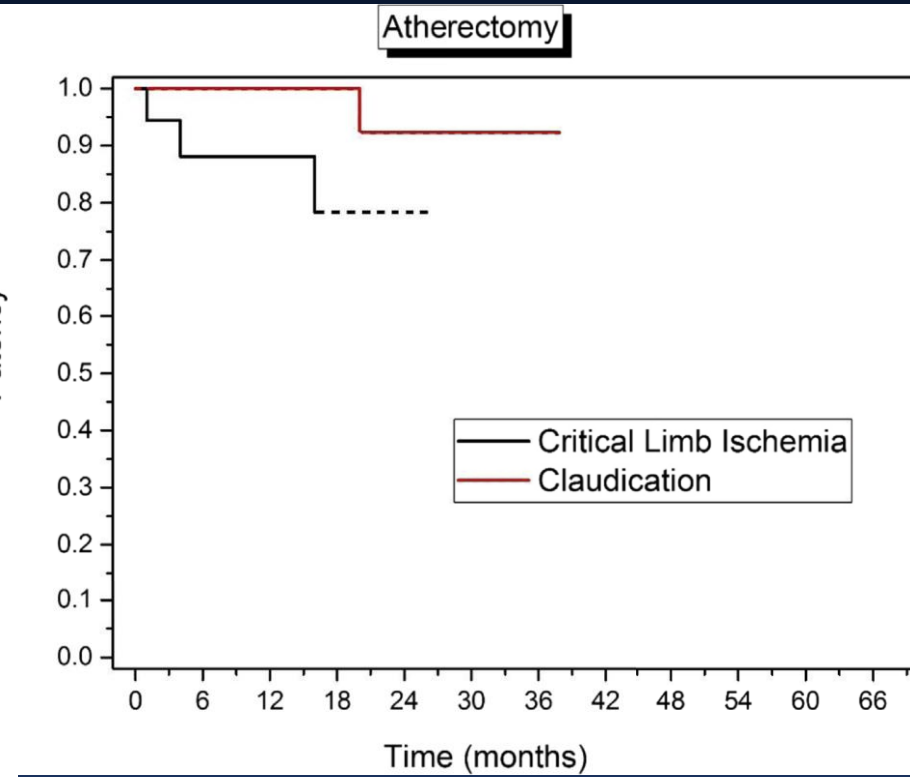
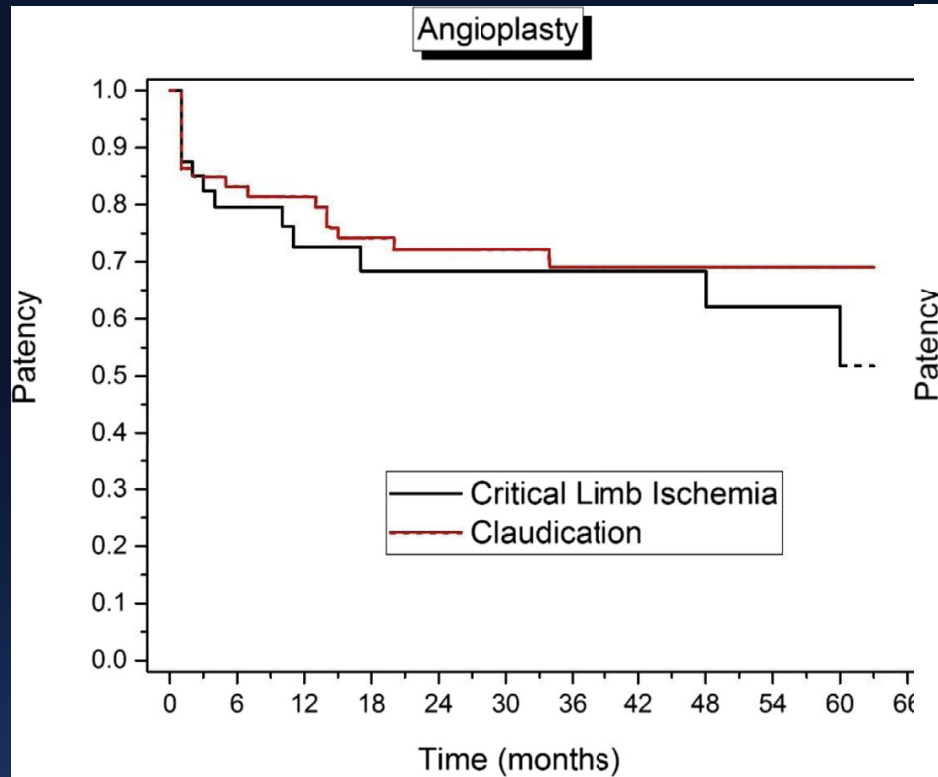


TLR at 12 months 19.9%

Percutaneous common femoral artery interventions using angioplasty, atherectomy, and stenting

Manish Mehta, MD, MPH,^{a,b} Yi Zhou, MD,^a Philip S. K. Paty, MD,^{a,b} Medhi Teymouri, BS,^a Kamran Jafree, MD,^a Humayun Bakhtawar, MD,^a Jeffrey Hnath, MD,^c and Paul Feustel, PhD,^d
Albany, NY

JOURNAL OF VASCULAR SURGERY
Volume 64, Number 2



PTA only 68.2%
PTA + ATH 22.8%
Bailout stent 9%

For claudicants, at 20 months PTA + ATH better than PTA alone $p=0.047$.

NS for CLI

At 20 month follow-up

- **Provisional stent group had 100% patency**
- **PTA alone 72%**
- **Atherectomy + PTA 92%**

- **At 42 months, nonstent patency 77%**

Stenting or Surgery for De Novo Common Femoral Artery Stenosis

Yann Gouëffic, MD, PhD,^{a,b,c} Nellie Della Schiava, MD,^d Fabien Thaveau, MD, PhD,^e Eugenio Rosset, MD, PhD,^f
Jean-Pierre Favre, MD, PhD,^g Lucie Salomon du Mont, MD,^h Jean-Marc Alsac, MD, PhD,ⁱ Réda Hassen-Khodja, MD,^j
Thierry Reix, MD,^k Eric Allaire, MD, PhD,^l Eric Ducasse, MD, PhD,^m Raphael Soler, MD,ⁿ Béatrice Guyomarc'h,^o
Bahaa Nasr, MD^p

JACC: CARDIOVASCULAR INTERVENTIONS VOL. 10, NO. 13, 2017

JULY 10, 2017:1344-54

TABLE 1 Characteristics of the Patients

	Surgery (n = 61)	Stenting (n = 56)	p Value
Age, yrs	68 ± 8	68 ± 9	0.93
Male	51 (84)	48 (86)	0.75
Hypertension	44 (72)	45 (80)	0.30
Hyperlipidemia	40 (66)	37 (66)	0.96
Diabetes mellitus	25 (41)	17 (31)	0.23
Smoking at baseline	28 (46)	26 (46)	0.95
Coronary artery disease	28 (46)	27 (48)	0.81
Renal insufficiency	8 (13)	6 (11)	0.69
On dialysis	1 (13)	1 (17)	—
Obesity (BMI >25 kg/m ²)	39 (64)	31 (58)	0.55
Type of lesion			0.33
I			
II			
III			
II	21 (34)	13 (23)	
III	21 (56)	21 (61)	
Degree of stenosis			0.17
70% to 90%	43 (70)	35 (63)	
≥90%	14 (23)	20 (36)	
TASC II for femoropopliteal disease			0.76
A	11 (18)	10 (18)	
B	13 (21)	12 (21)	
C	6 (10)	10 (18)	
D	11 (18)	9 (16)	
Runoff vessels, n			0.98
0	2 (3)	2 (4)	
1	5 (9)	6 (11)	
2	15 (25)	14 (25)	
3	37 (63)	33 (60)	

Surgery**Stenting**

0.33

6 (10)

9 (16)

21 (34)

13 (23)

34 (56)

34 (61)

II 21 (34) 13 (23)

III 21 (56) 21 (61)

Degree of stenosis 0.17

70% to 90% 43 (70) 35 (63)

≥90% 14 (23) 20 (36)

TASC II for femoropopliteal disease 0.76

A 11 (18) 10 (18)

B 13 (21) 12 (21)

C 6 (10) 10 (18)

D 11 (18) 9 (16)

Runoff vessels, n 0.98

0 2 (3) 2 (4)

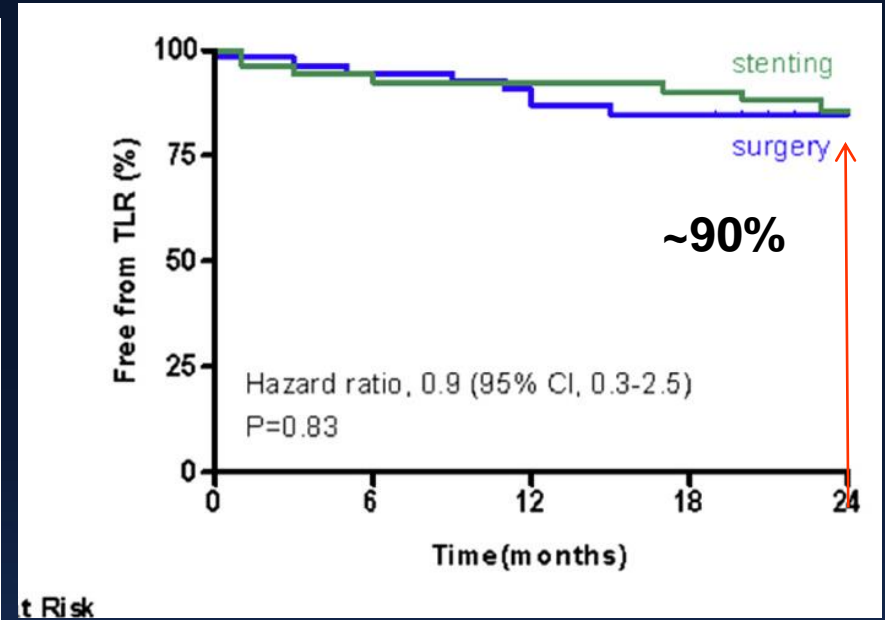
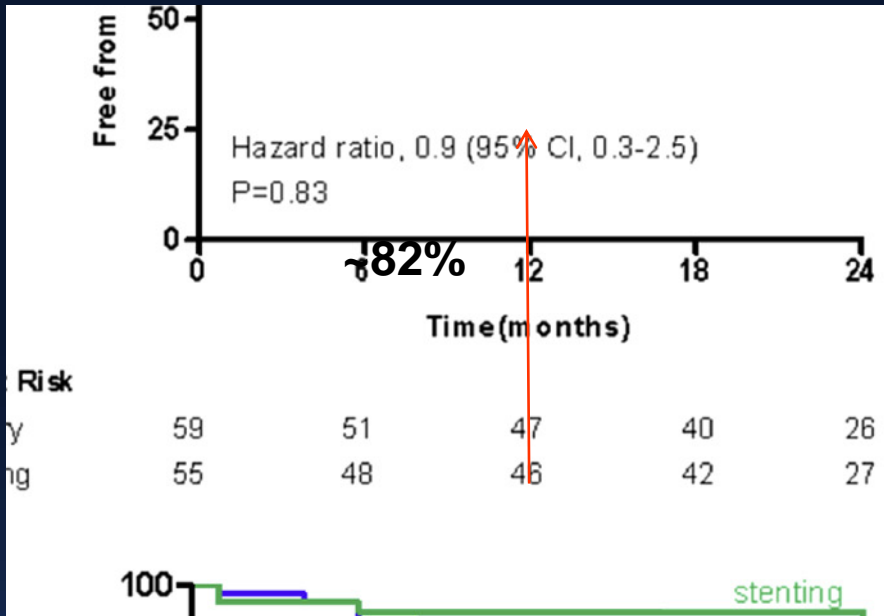
1 5 (9) 6 (11)

2 15 (25) 14 (25)

3 37 (63) 33 (60)

TABLE 2 Baseline Angiographic and Interventional Data

	Surgery (n = 58)	Stenting (n = 54)	n Value		
Type of anesthesia				Surgery technique	
Local	1 (2)	41 (75)		Endarterectomy	46 (69) NA
Loco-regional	11 (19)	4 (7)		With venous patch	7 (12) NA
General	46 (78)	9 (16)		With prosthetic patch	37 (64) NA
Surgery technique				Direct suture	2 (3) NA
Endarterectomy	46 (69)	NA		Bypass with a prosthesis	11 (19) NA
With venous patch	7 (12)	NA		Eversion	1 (2) NA
With prosthetic patch	37 (64)	NA			
Direct suture	2 (3)	NA			
Bypass with a prosthesis	11 (19)	NA			
Eversion	1 (2)	NA			
Crossover access	NA	43 (78)			
Brachial access	NA	7 (13)			
Femoral ipsilateral	NA	4 (7)			
Self-expandable stents	NA	48 (67.5)		Self-expandable stents	NA 48 (67.5)
Mean diameter, mm	NA	7 ± 1		Mean diameter, mm	NA 7 ± 1
Mean length, mm	NA	41 ± 17		Mean length, mm	NA 41 ± 17
Balloon-expandable stents	NA	23 (32.5)		Balloon-expandable stents	NA 23 (32.5)
Mean diameter, mm	NA	6 ± 1		Mean diameter, mm	NA 6 ± 1
Mean length, mm	NA	25 ± 11		Mean length, mm	NA 25 ± 11
Duration of the procedure, min	NA	82 ± 53			
Amount of contrast agent, ml	NA	70 ± 53			
Pre-dilatation realized	NA	34 (62)			
Arterial closure devices used	NA	15 (27)			
Concomitant endovascular procedures			0.67		
None	33 (57)	37 (68)			
Inflow	13 (22)	8 (15)			
Outflow	11 (19)	8 (15)			
In- and outflow	1 (2)	1 (2)			




At 30 days, primary endpoint favored stenting (26% vs 12.%, p=0.05)

At 2 years, no significant difference in TLR or patency

LOS significant (3.2 vs 6.3 days)

Directional Atherectomy With Antirestenotic Therapy vs Drug-Coated Balloon Angioplasty Alone for Common Femoral Artery Atherosclerotic Disease

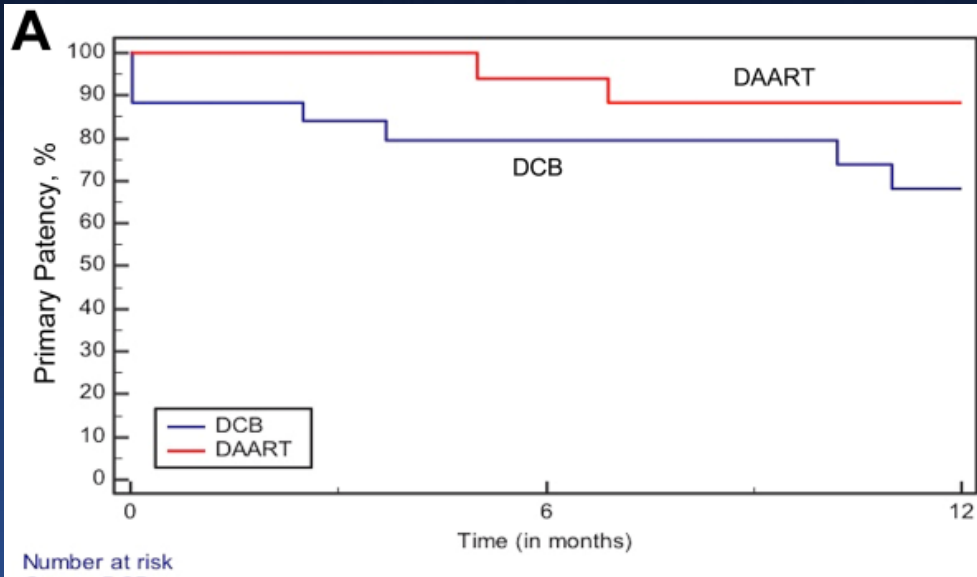
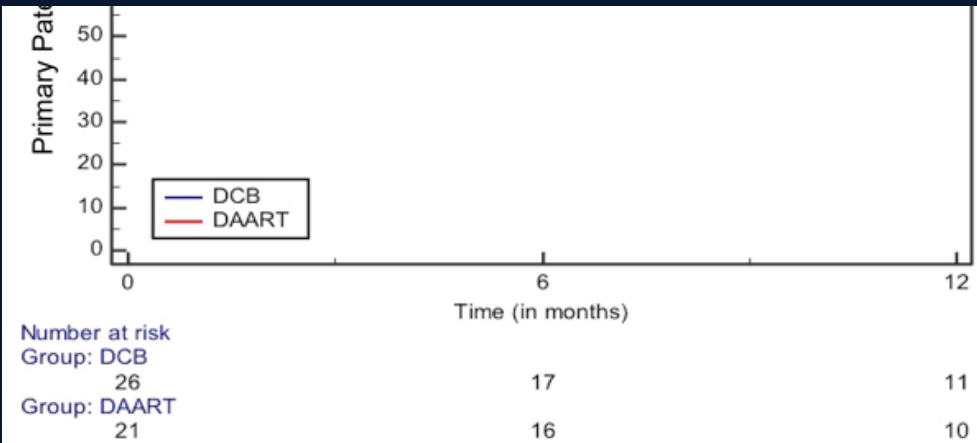
Journal of Endovascular Therapy
2018, Vol. 25(1) 92–99
© The Author(s) 2017
Reprints and permissions:
sagepub.com/journalsPermissions.nav
DOI: 10.1177/1526602817748319
www.jevt.org


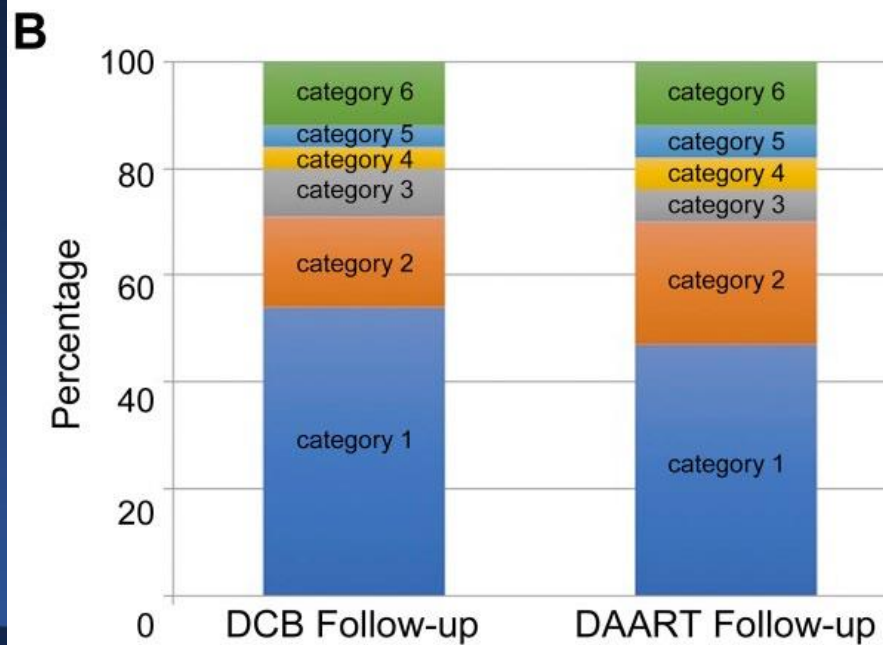
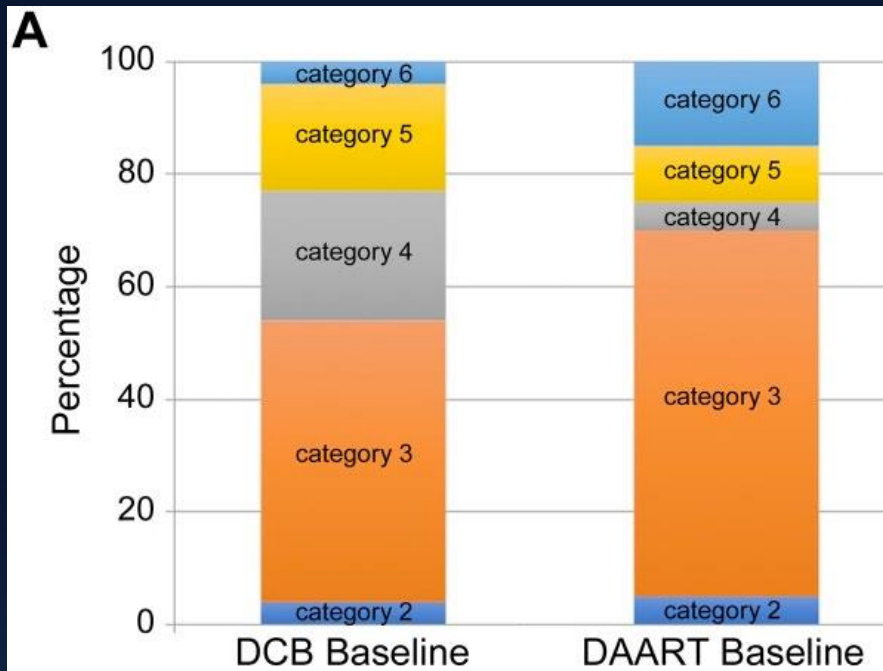
Konstantinos Stavroulakis, MD¹ , Arne Schwindt, MD¹, Giovanni Torsello, MD¹,
Efthymios Beropoulis, MD¹, Arne Stachmann, MD¹, Christiane Hericks, MD¹,
Leonie Bollenberg, MD¹, and Theodosios Bisdas, MD, PhD¹

Results

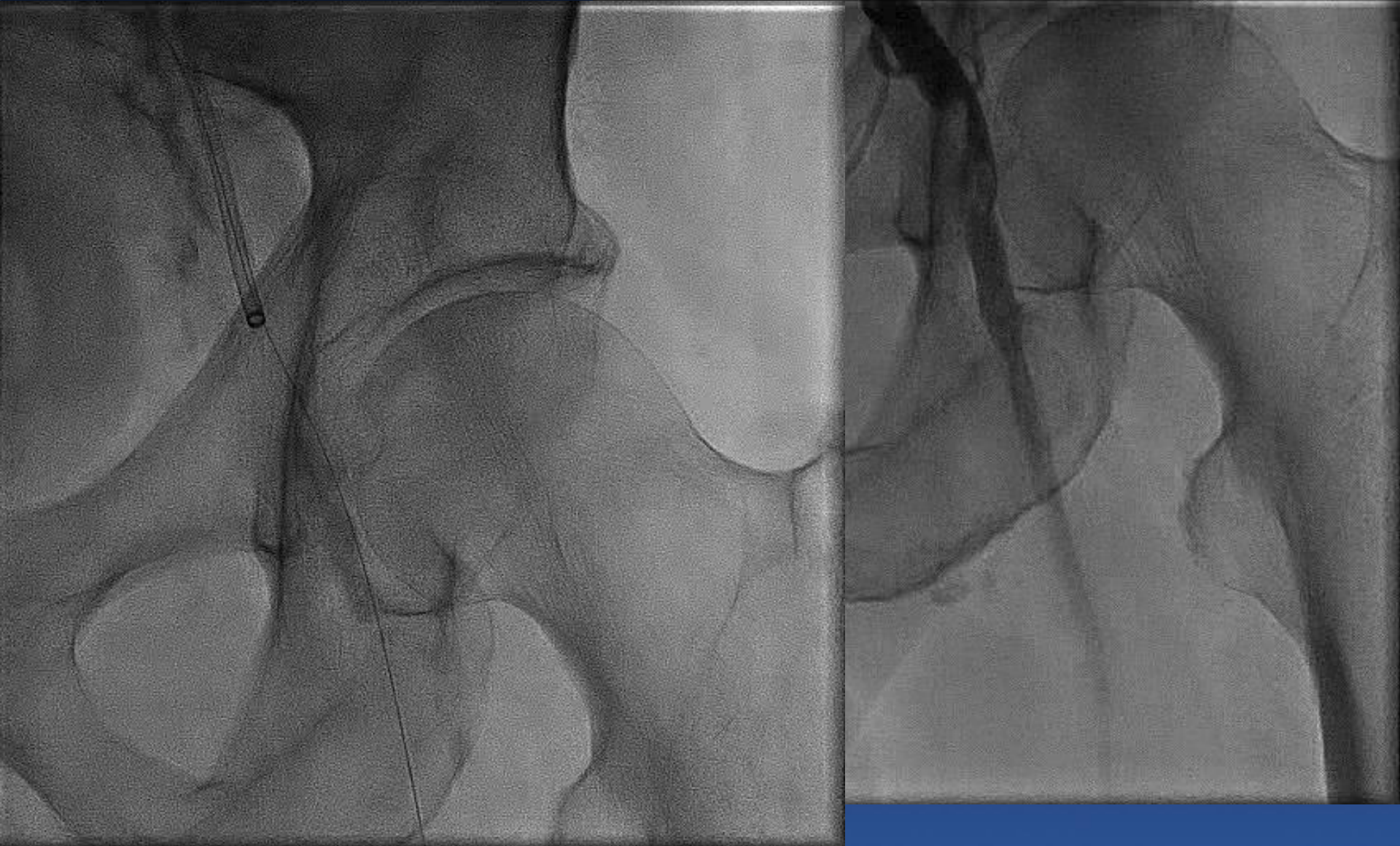
- At 12 months, primary patency and TLR favored DAART vs DCB

- Secondary patency was significantly better ($p=0.03$) for DAART

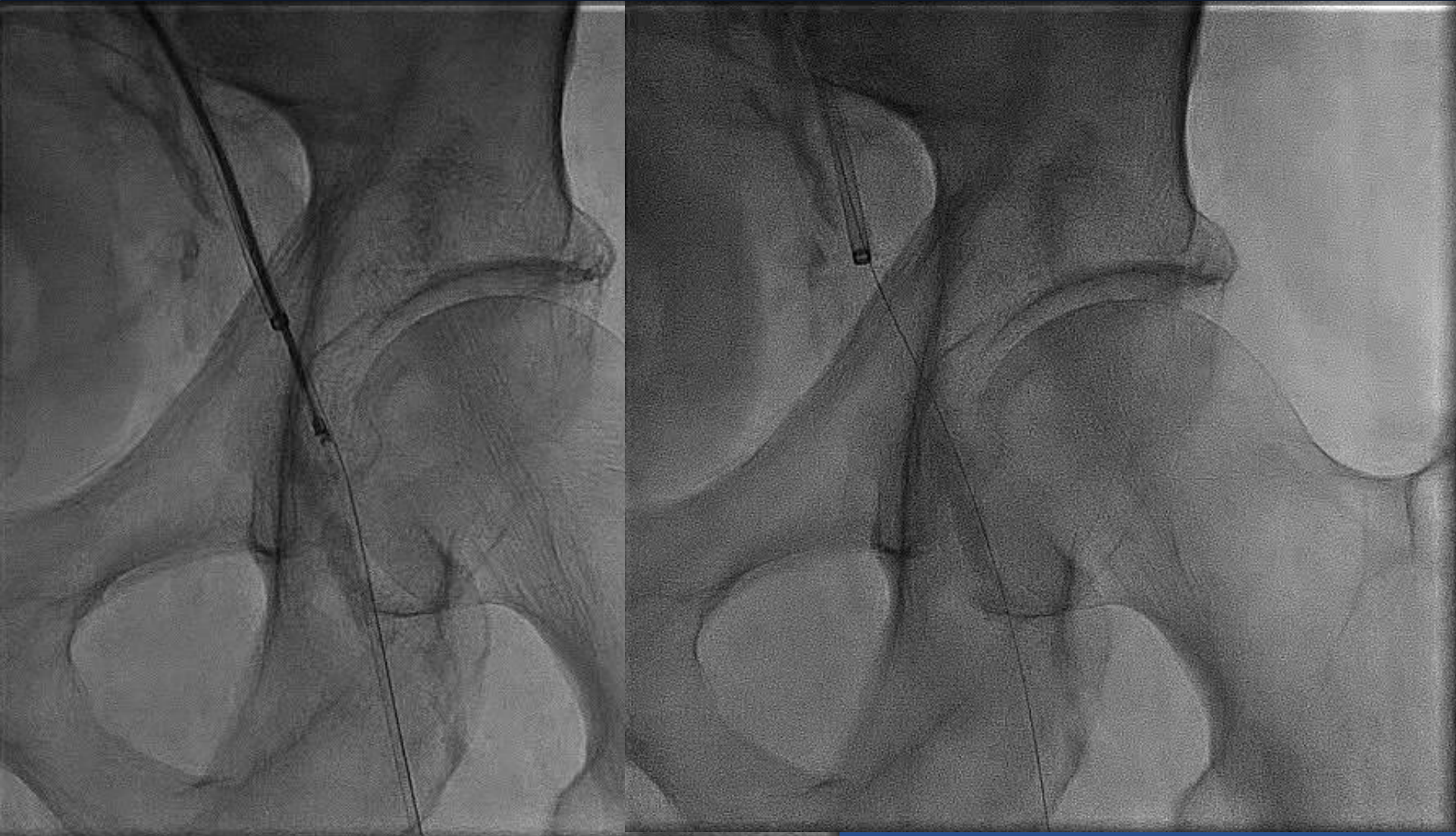




Eccentric Type II CFA



Atherectomy followed by...



Bailout



Conclusions

- Endovascular therapy can be performed safely and reproducibly
- Endovascular therapy has data to support its use (more data in press in 2018)
- Caution should be applied when approaching Medina 1-1-1/ Type III lesions
- There is nothing wrong with endarterectomy

Thank You