

The recent updated data -Which stent is the most efficacy-

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Importance of stent design



Flexibility

vs.



Strength

My opinion

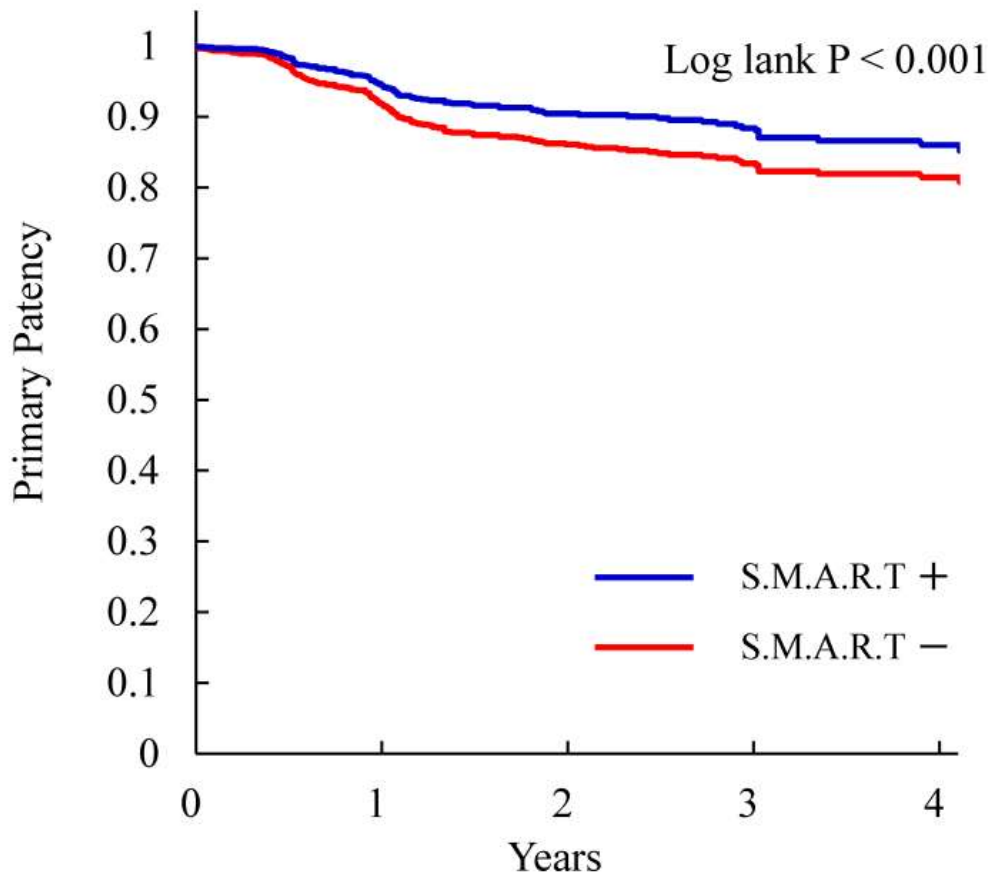
I never see the better stent than S.M.A.R.T.
(Balance between strength, flexibility and
long-term outcomes)

Setting the gold standard for
Self Expandable
stent design

SMART
Control
NITINOL STENT SYSTEM

Safety and Efficacy of the S.M.A.R.T Control Stent for **Aorto-Iliac Occlusive Disease** in Contemporary Clinical Practice (n=2541)

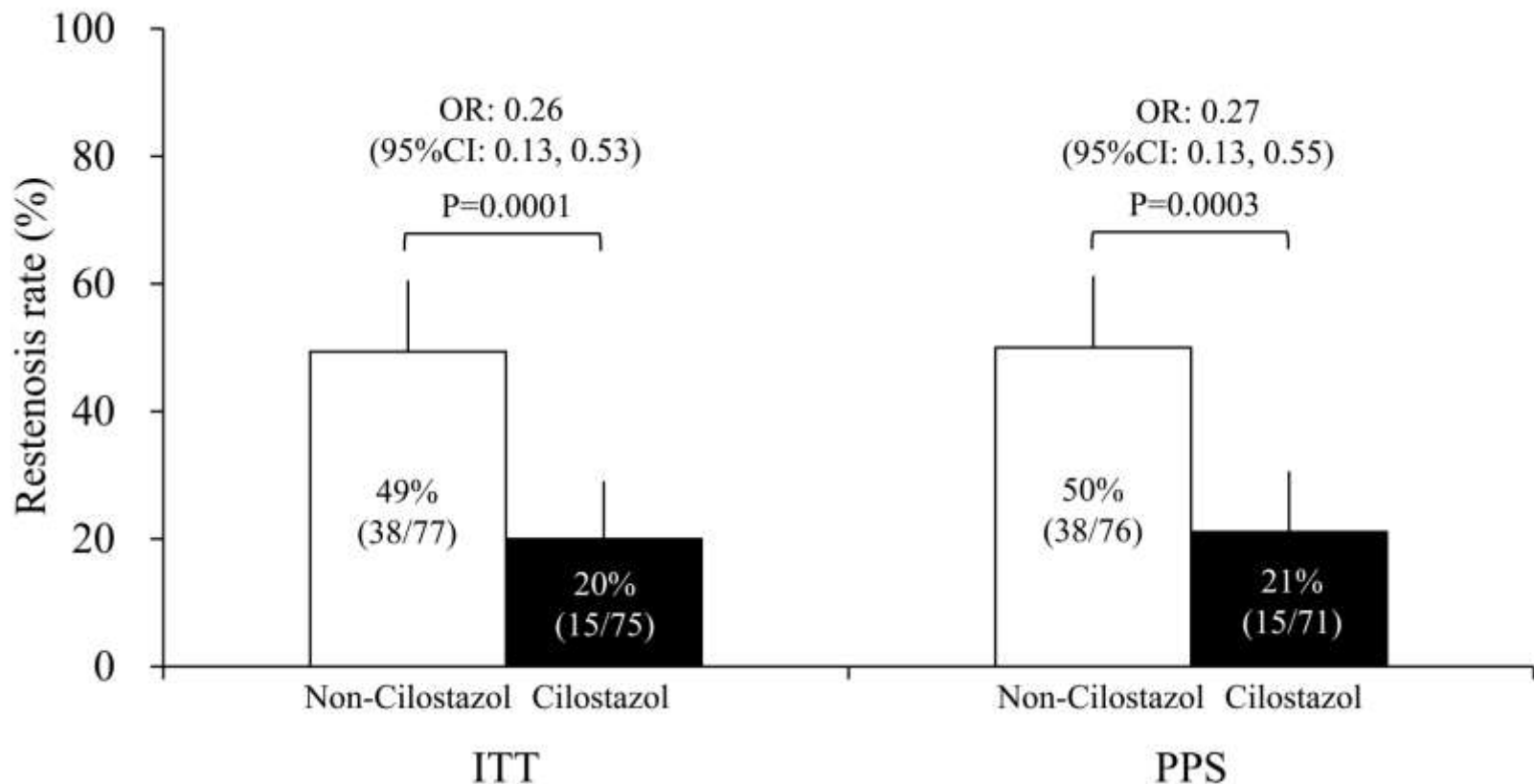
Primary patency (After PP matching)



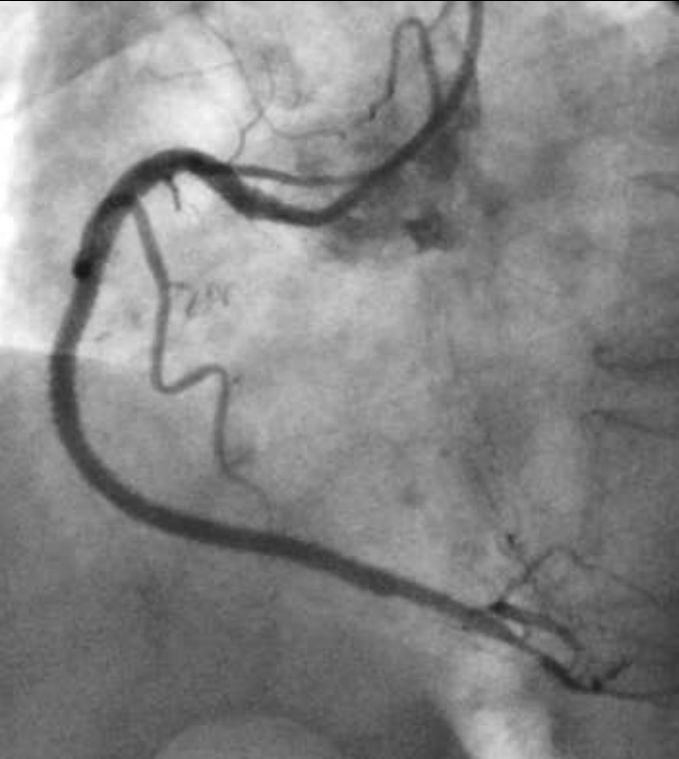
5 year patency
SMART: 86.0%
vs.
Others: 76.4%

Cilostazol reduces angiographic restenosis after EVT for femoropopliteal lesions in the **STOP-IC** study.

Primary Endpoint (12 months angiographic restenosis)



KRCVC Intervention in 2015



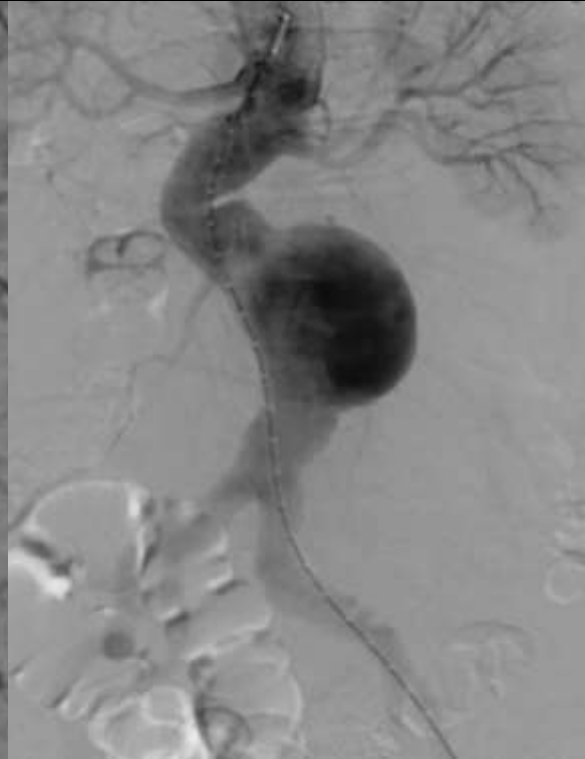
PCI

715



EVT

834



EVAR/TEVAR

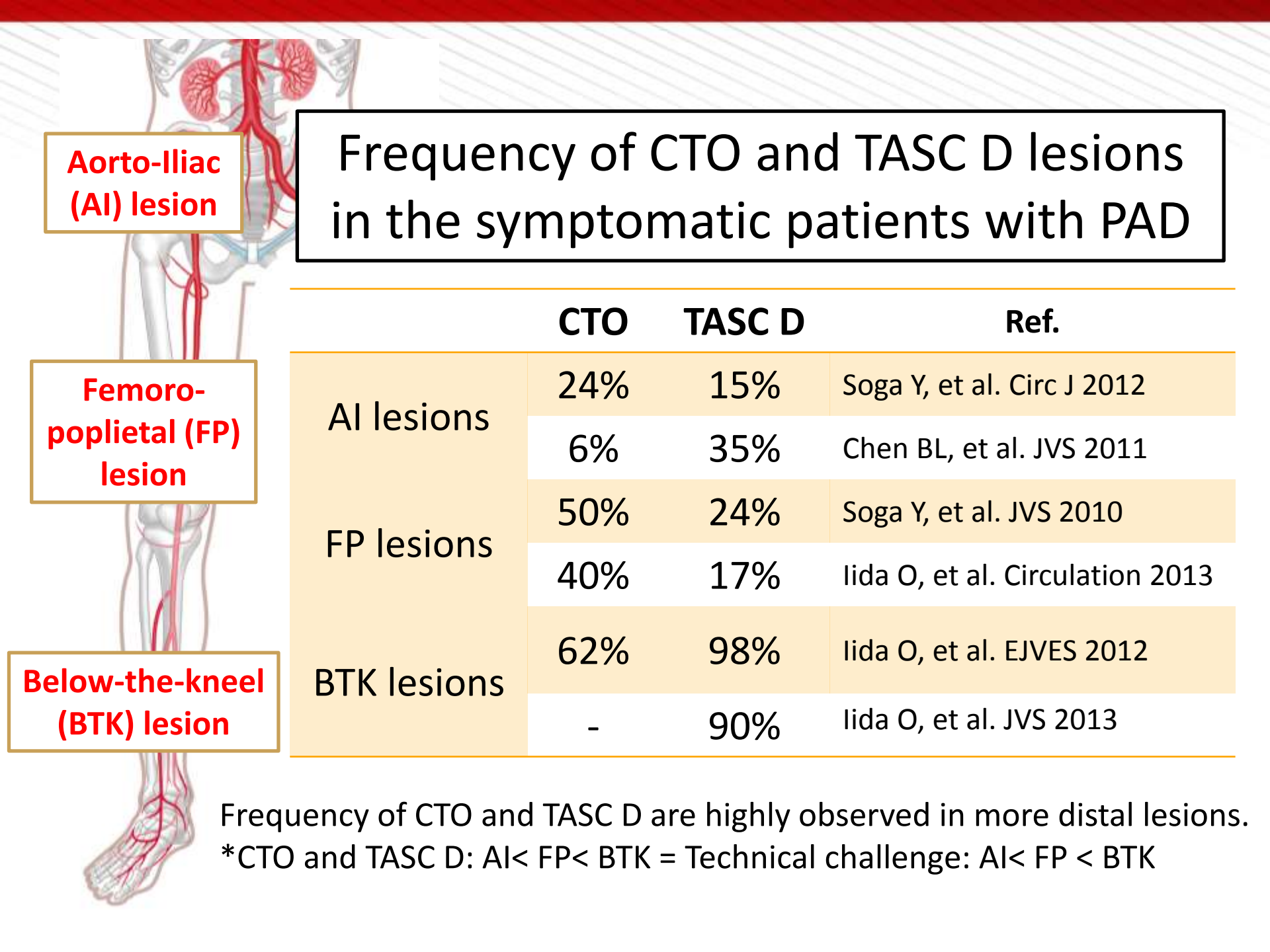
76

Today's my theme

How to open

and

How to keep it open



Aorto-Iliac (AI) lesion

Frequency of CTO and TASC D lesions in the symptomatic patients with PAD

	CTO	TASC D	Ref.
AI lesions	24%	15%	Soga Y, et al. Circ J 2012
	6%	35%	Chen BL, et al. JVS 2011
FP lesions	50%	24%	Soga Y, et al. JVS 2010
	40%	17%	Iida O, et al. Circulation 2013
BTK lesions	62%	98%	Iida O, et al. EJVES 2012
	-	90%	Iida O, et al. JVS 2013

Frequency of CTO and TASC D are highly observed in more distal lesions.

*CTO and TASC D: AI < FP < BTK = Technical challenge: AI < FP < BTK

CTO Steps in KRCVC

- Wire cross
- Devise cross
- Gain the lumen

CTO Steps in KRCVC

- **Wire cross**
- Devise cross
- Gain the lumen

Wire cross

- Antegrade

- Intraluminal, Sub intimal
- IVUS guide, Echo guide

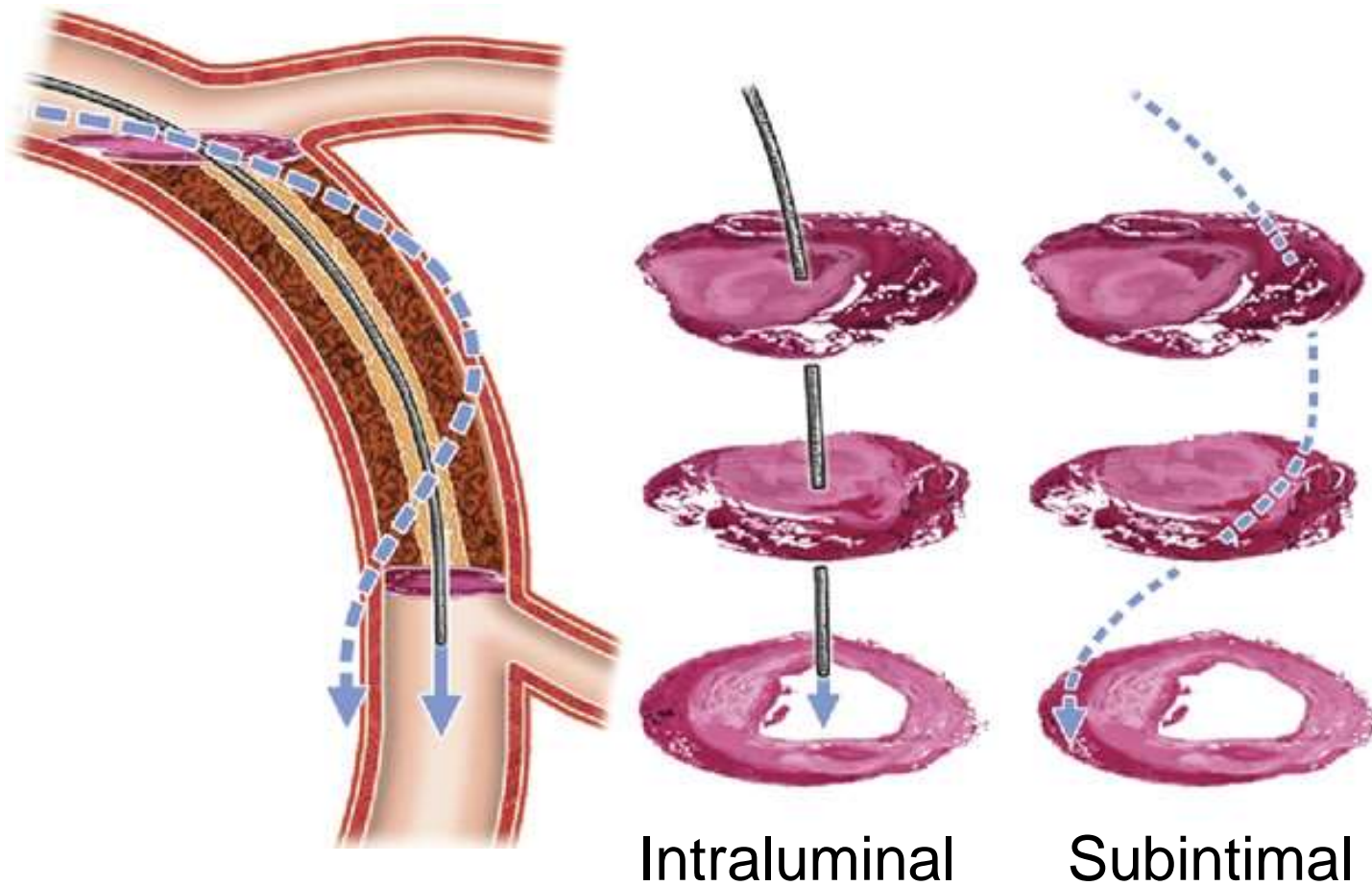
- Retrograde

- Distal puncture
- Trans collateral, Trans pedal



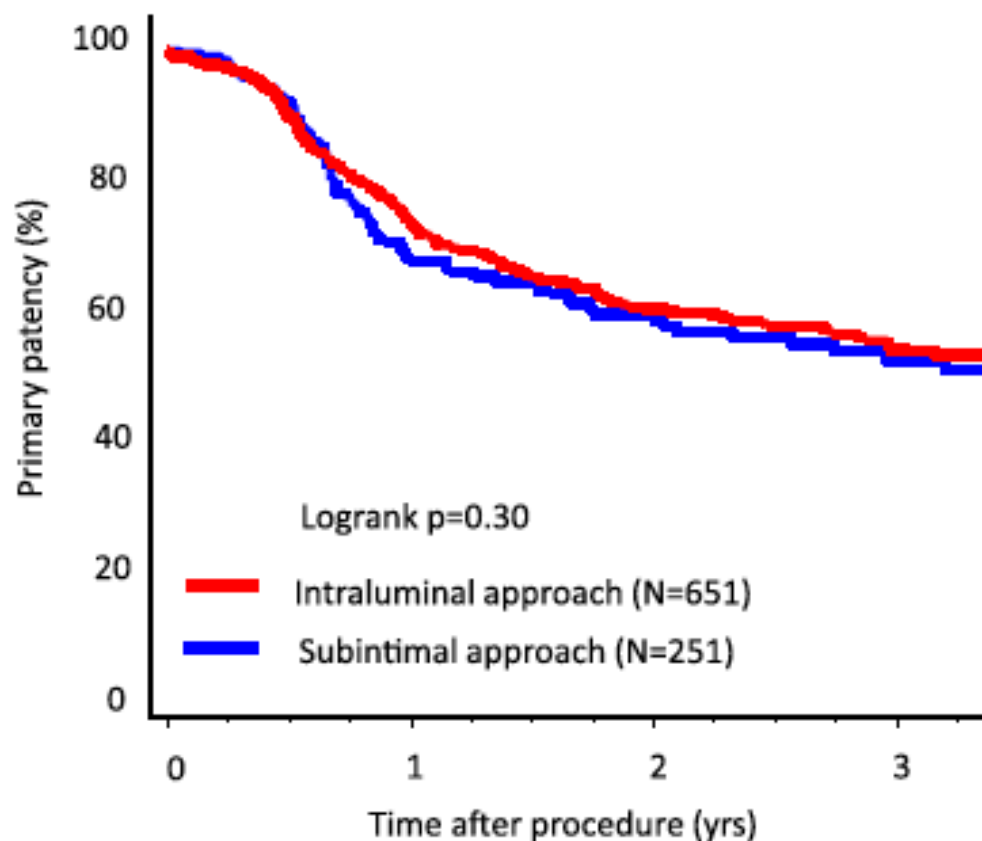
FP lesion

Revascularization for CTO



Long FP occlusion

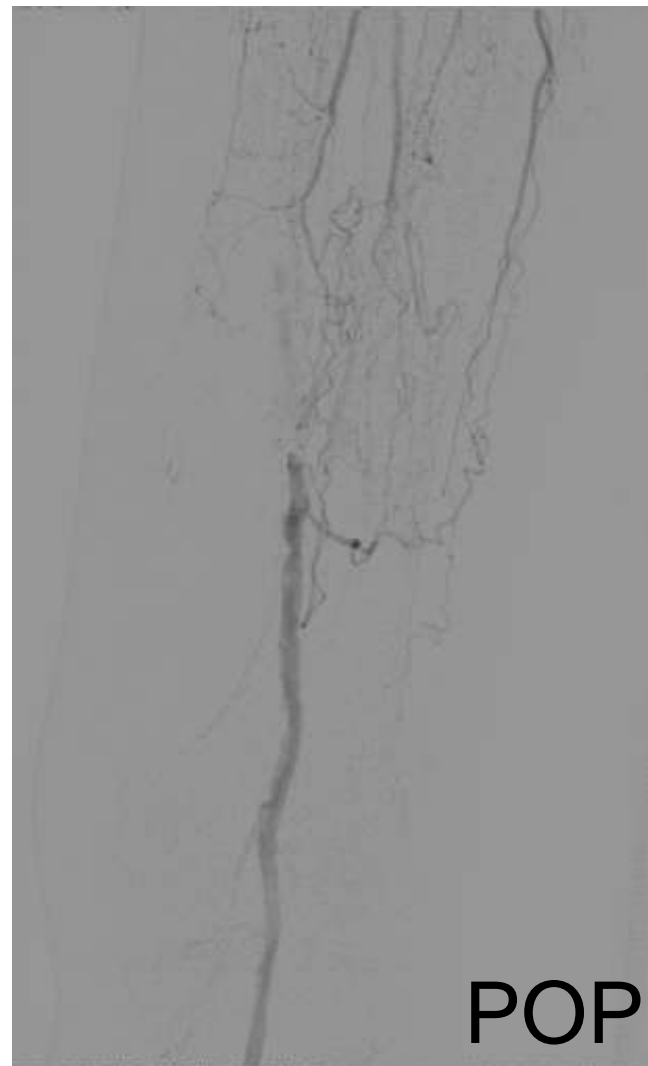
-intra versus subintimal-



Limitation

- Retrospective
- No IVUS use

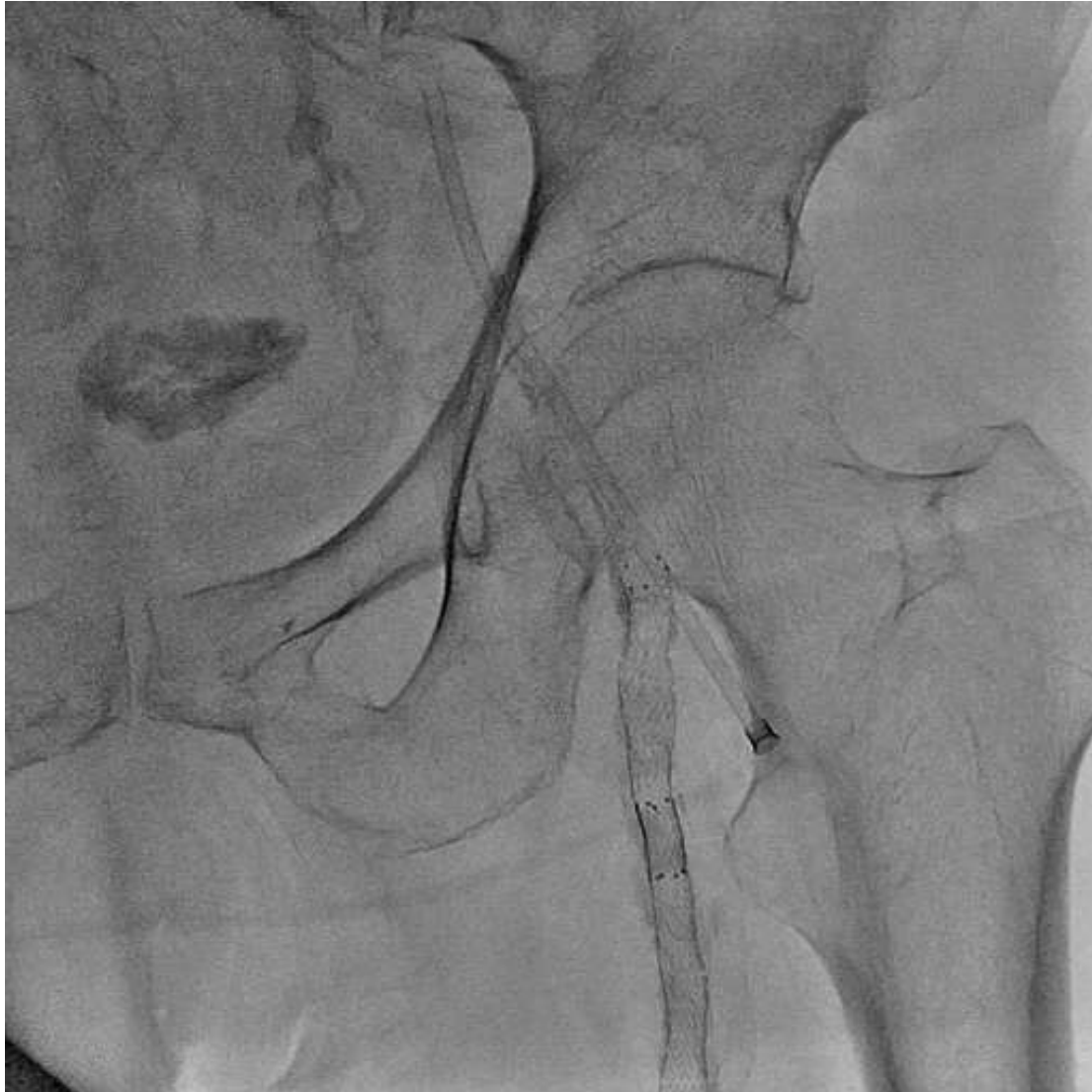
Initial angiogram

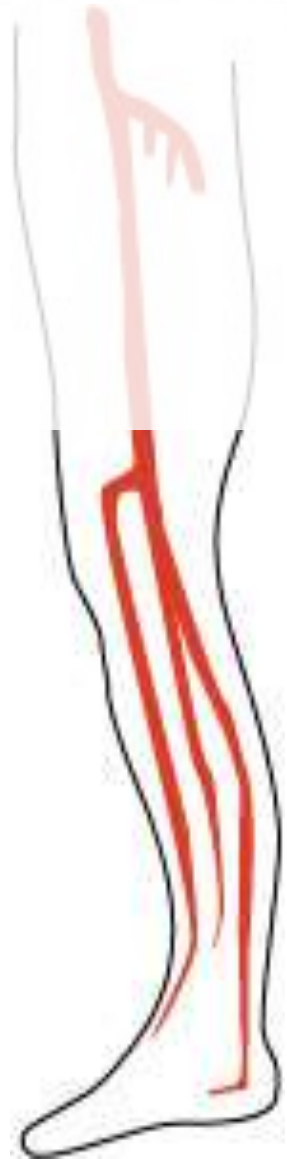


Case: Sub-intimal angioplasty



Final angiogram





BK lesion

Limitation of infrapopliteal angioplasty

Repeat EVT
@ 1 year

40%

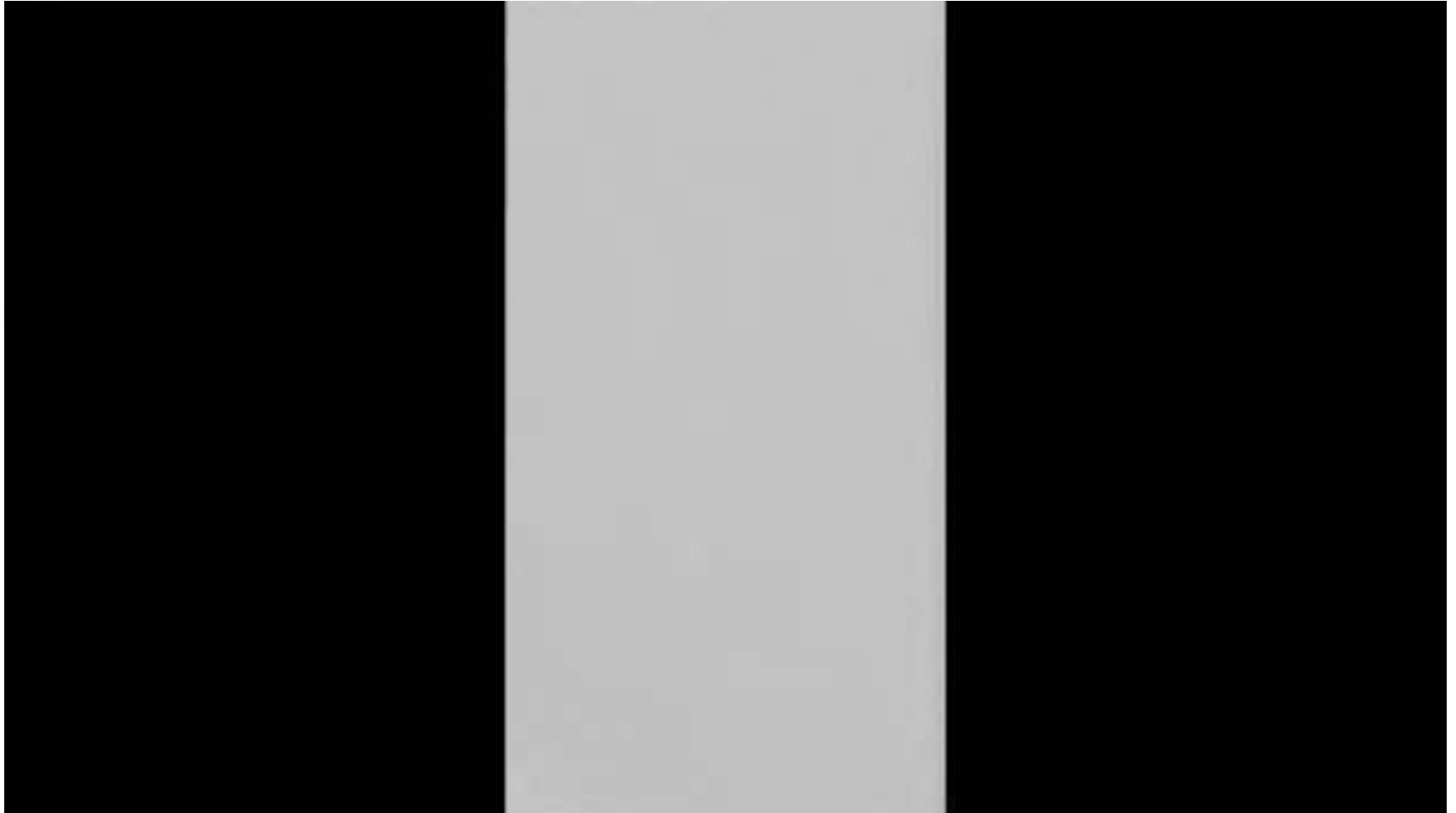
Restenosis
@ 3 months

70%

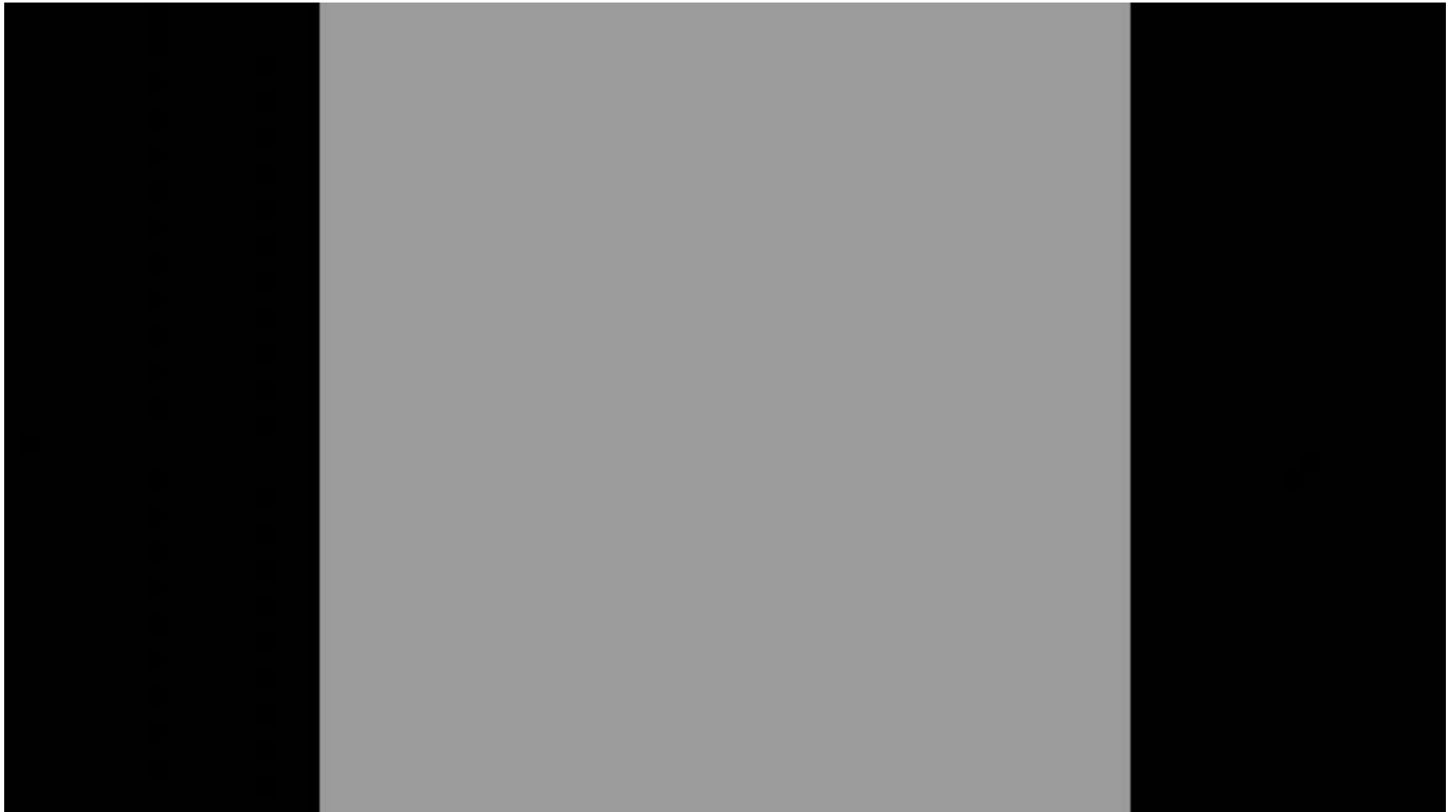
Early Recoil
@ 15 minutes

97%

Case: PTA CTO: 0.035 inch knuckle wire



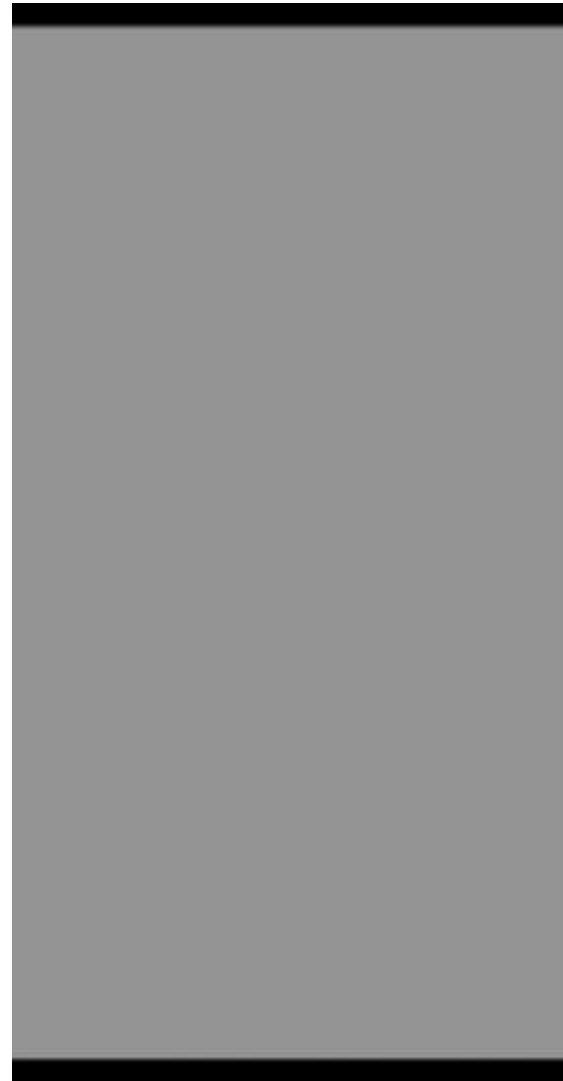
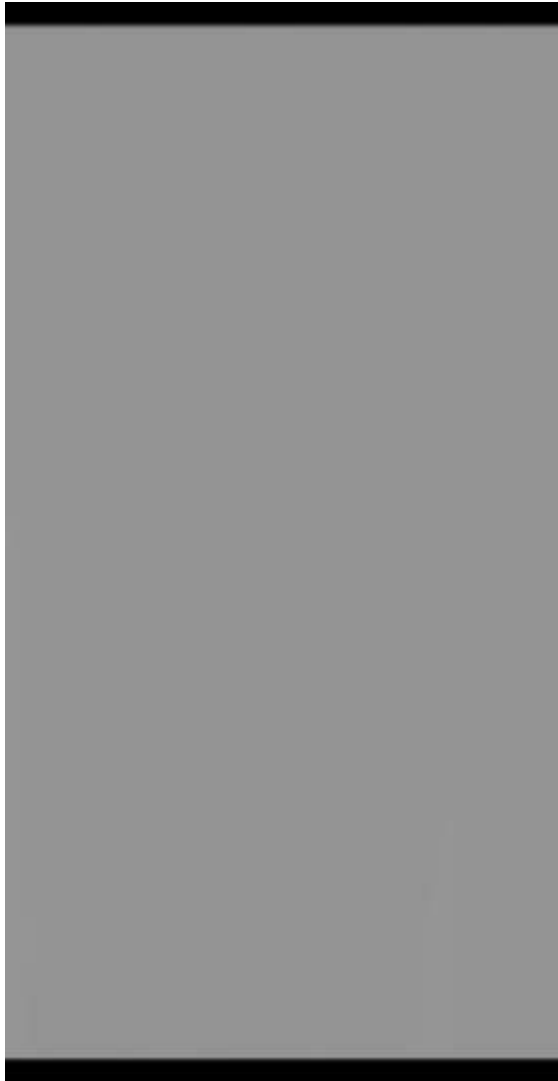
Case: Trans pedal approach



CTO Steps in KRCVC

- Wire cross
- **Devise cross**
- Gain the lumen

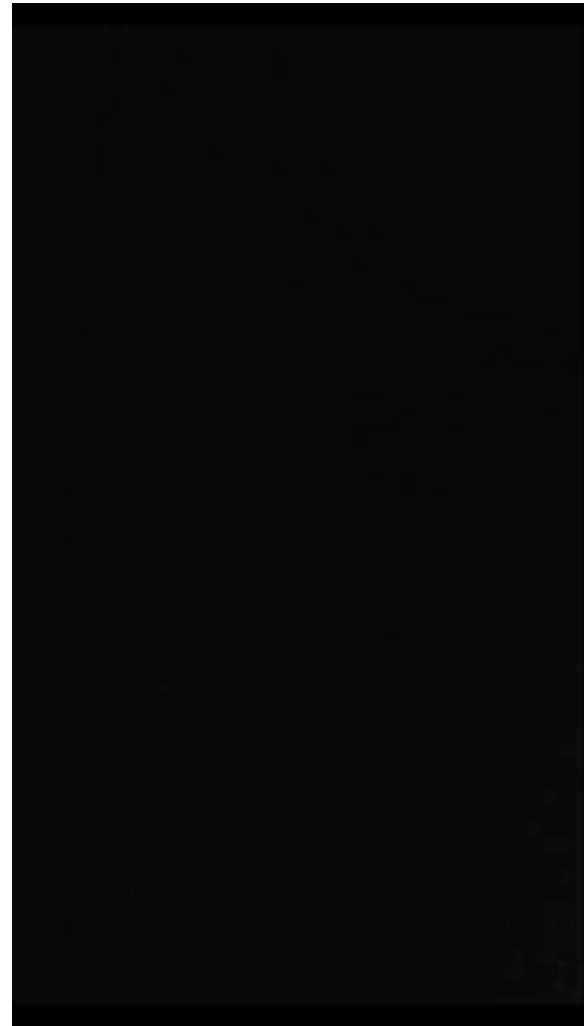
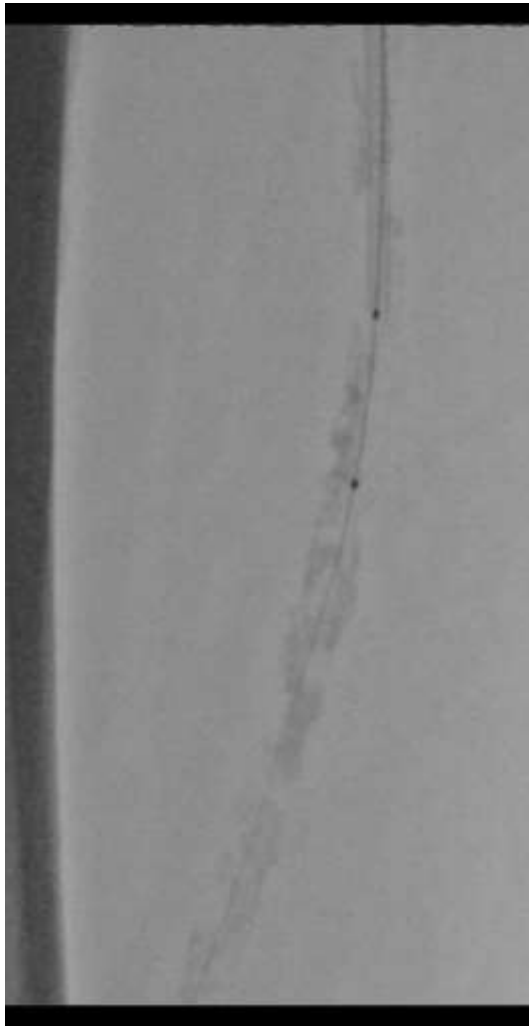
Case: SFA CTO with severe calcification



Case: Brockenbrough dilatation



Balloon dilatation



Final angiogram

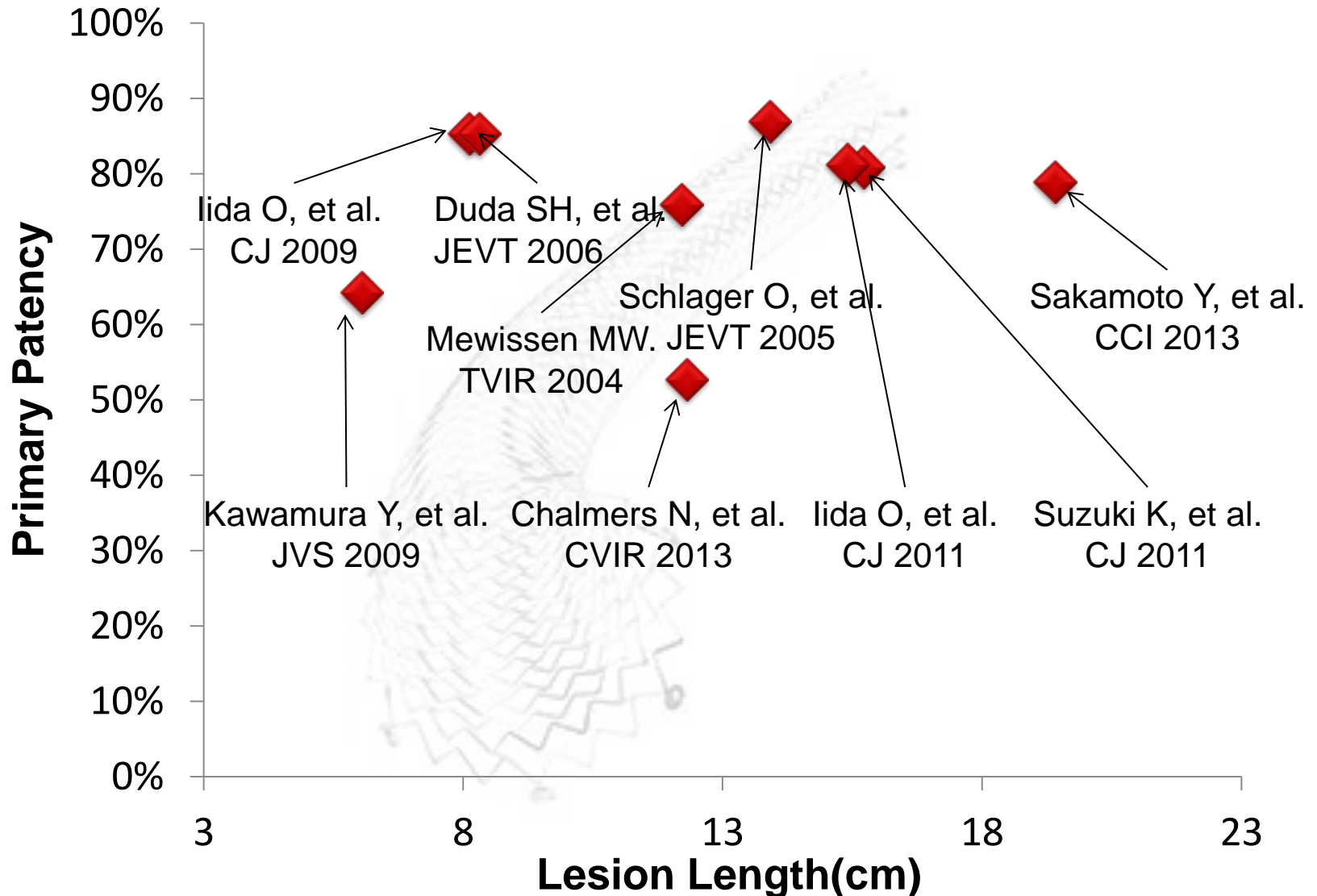


CTO Steps in KRCVC

- Wire cross
- Devise cross
- **Gain the lumen**

BMS era

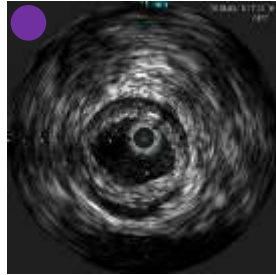
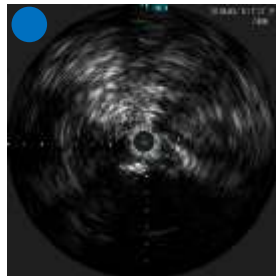
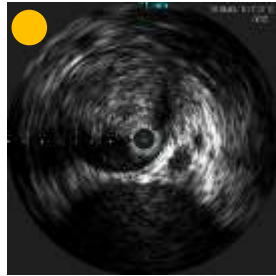
Primary patency after **S.M.A.R.T** stent implantation for SFA



SFA CTO
Length 220mm

Subintimal stent
Restenosis (-)

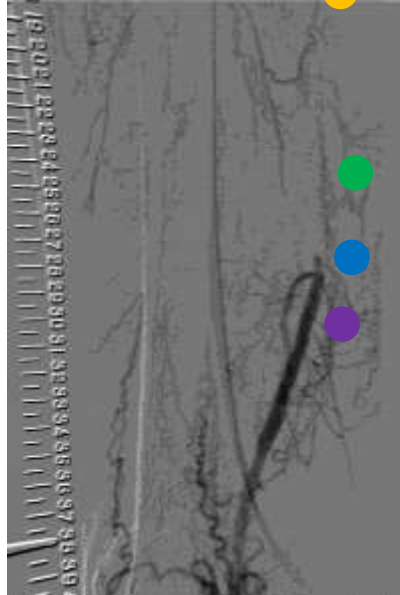
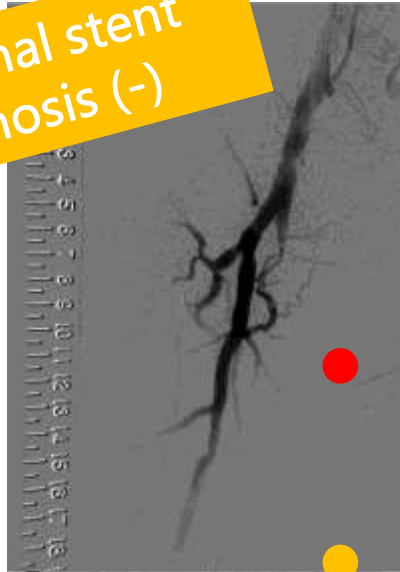
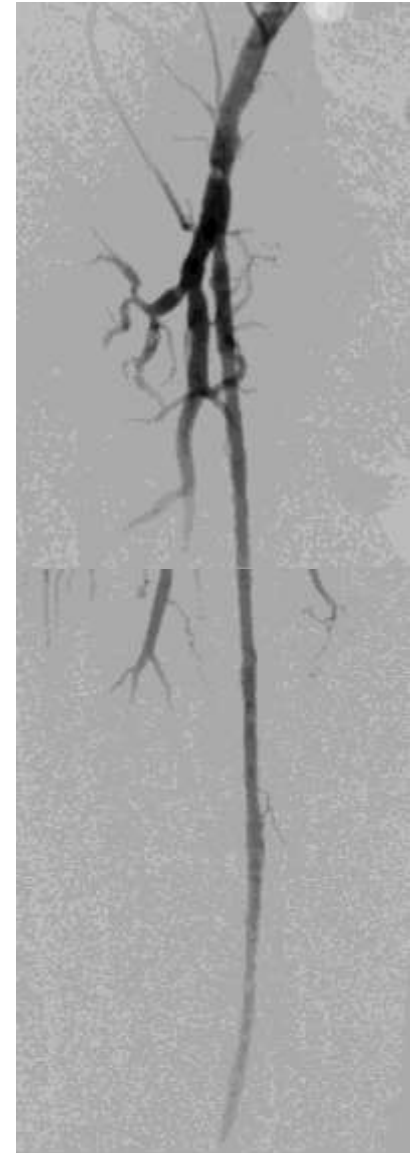
Run off

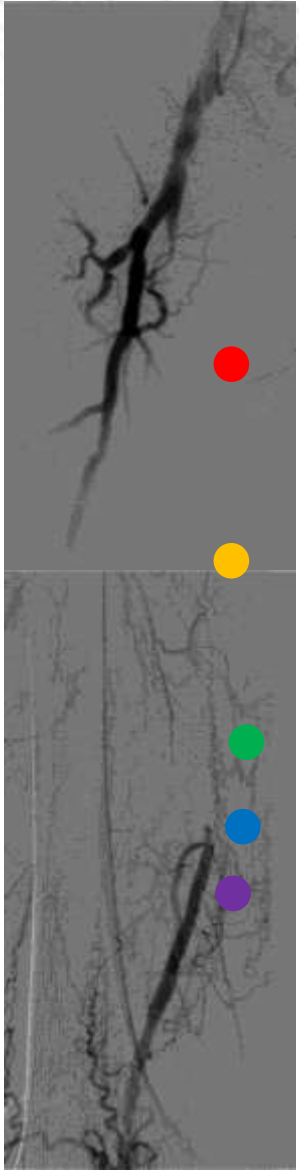
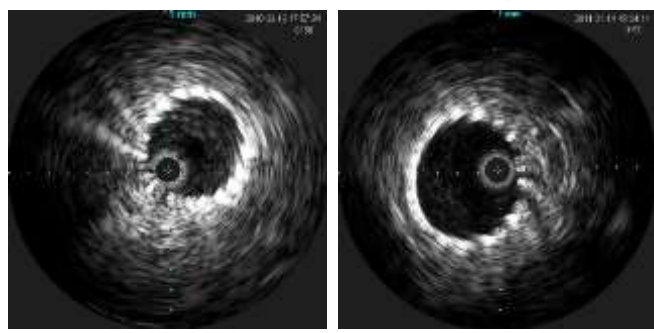
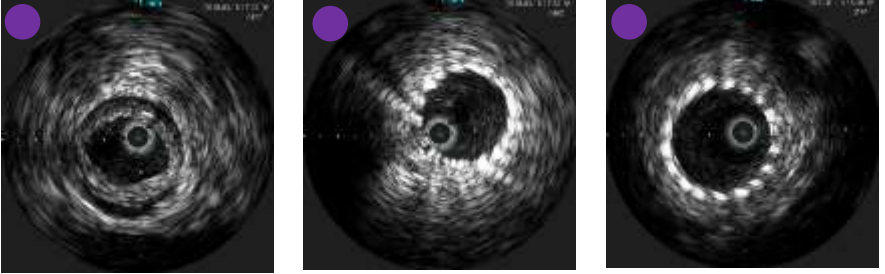
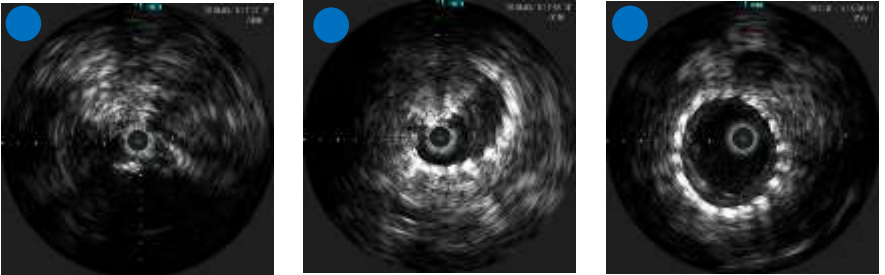
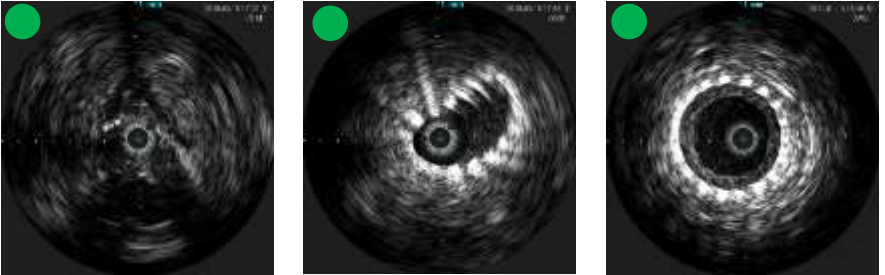
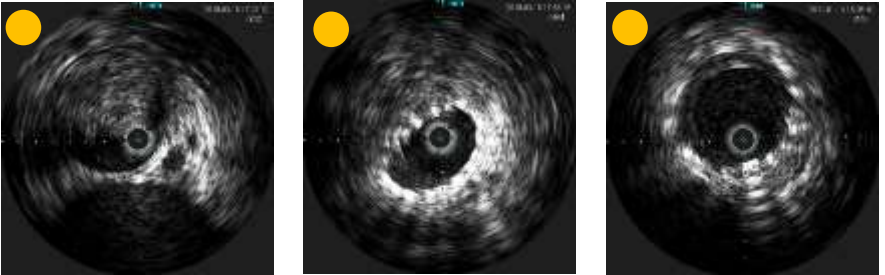


Post
Stent 6mm x 3
(post 5mm POBA)



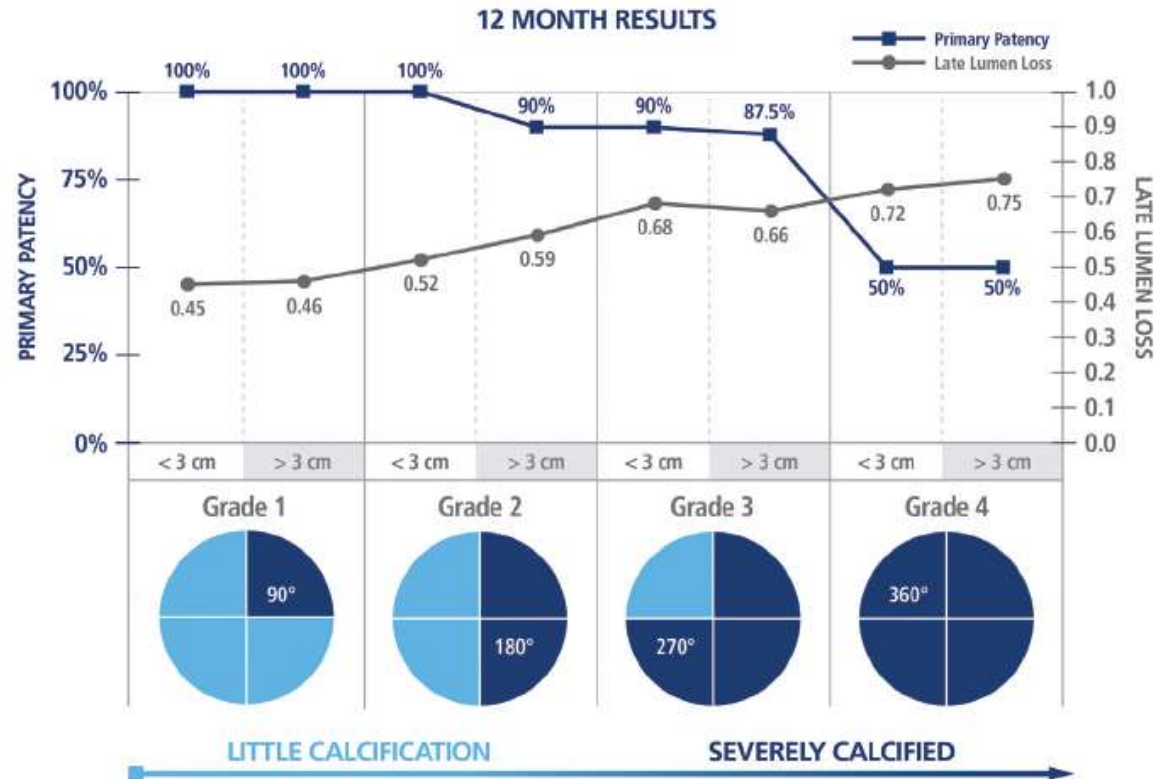
12 month
follow





Impact of vascular calcification

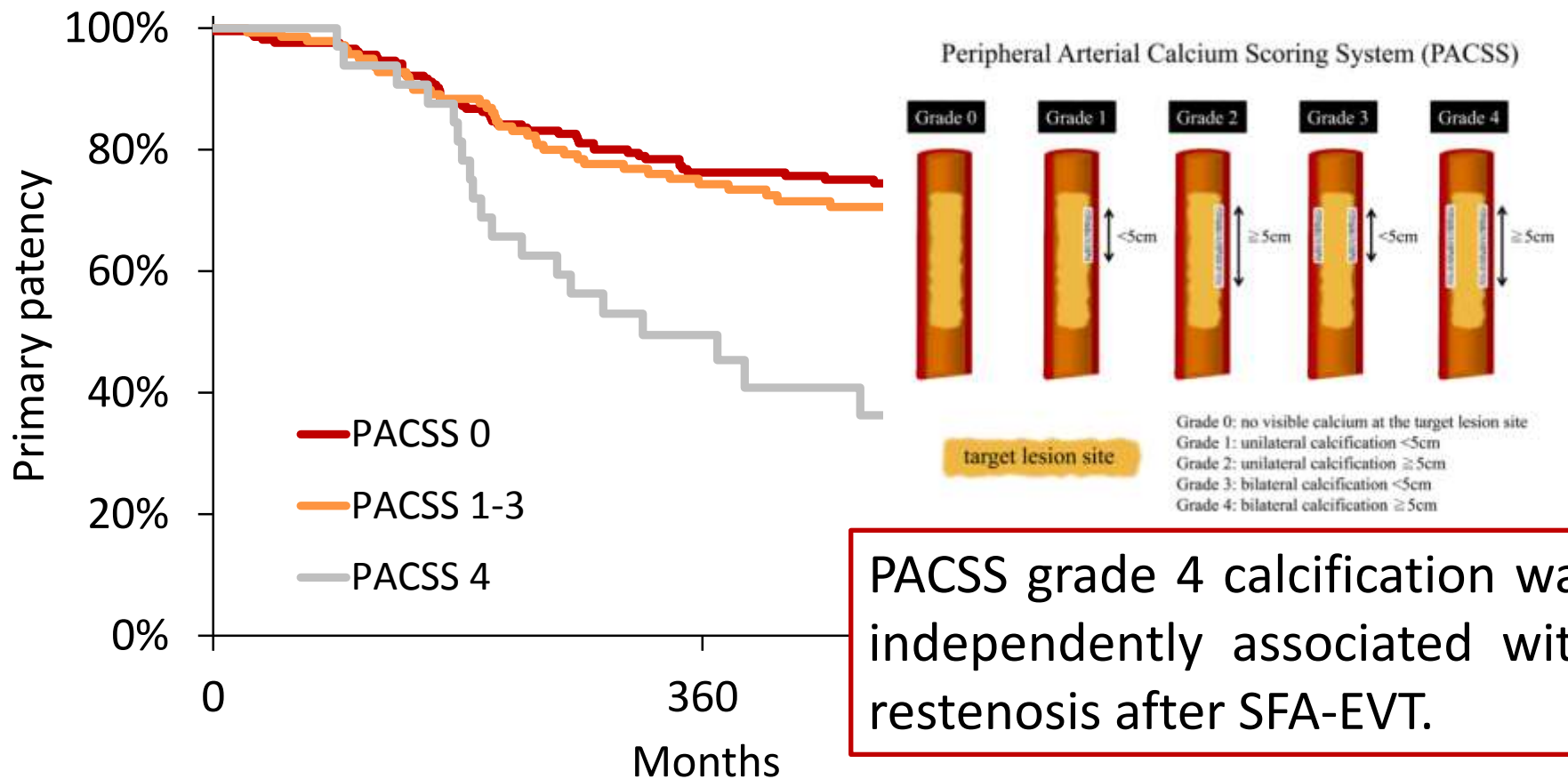
Calcium burden assessment and impact on DEB in PAD



Calcium represents a barrier to optimal drug absorption. Circumferential distribution seems to be the most influencing factor with the worst effect noticed.

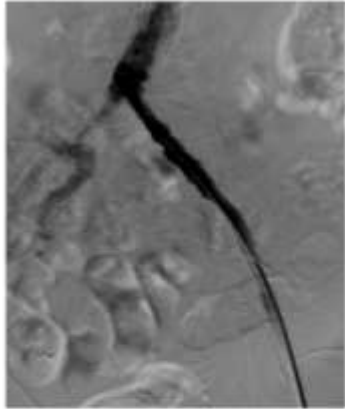
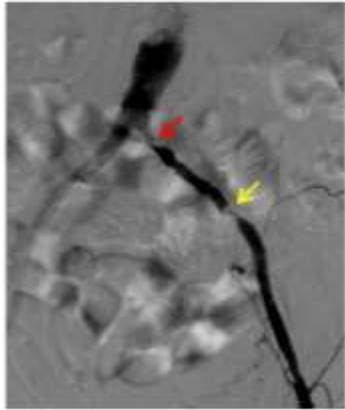
Peripheral Arterial Calcium Scoring System

Primary patency according to **PACSS** grade (0 vs. 1-3 vs. 4)



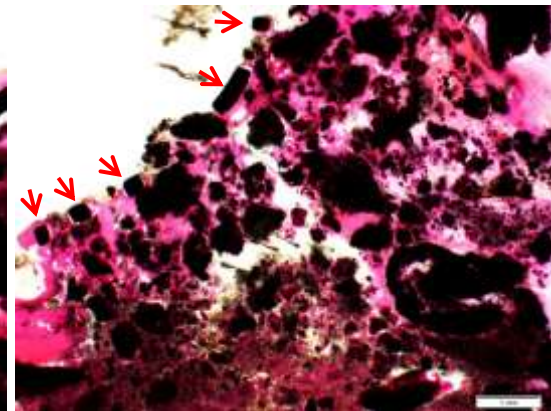
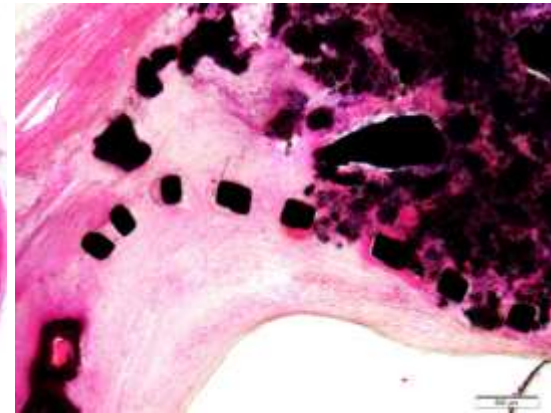
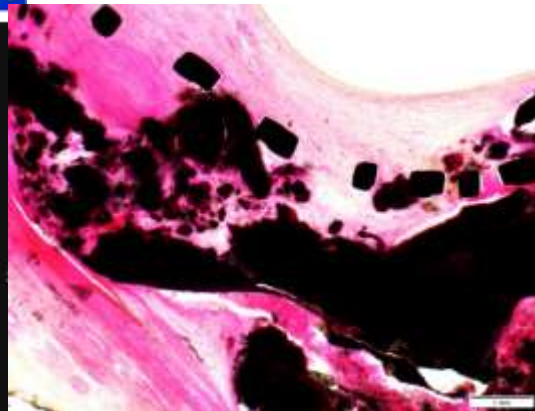
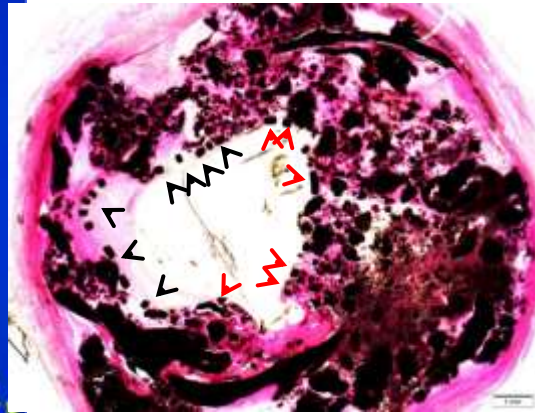
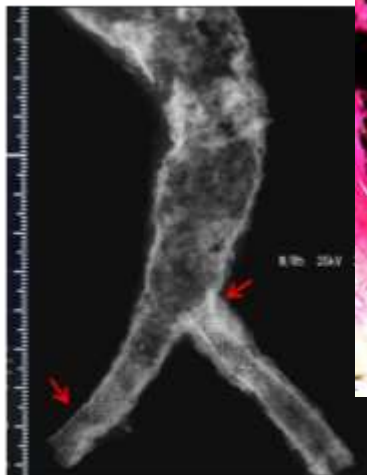
Fighting against **calcification**

'13.01.29
SMART Control 8/60



Disease & HD

'14.07.10



SMART Nitinol Self-Expanding Stent in the Treatment of Obstructive Superficial Femoral Artery Disease:

Three-year Clinical Outcomes from the STROLL Trial

Michael R. Jaff, DO

Professor of Medicine, Harvard Medical School

Medical Director, VasCore, Vascular Ultrasound Core Laboratory

Boston, Massachusetts



MASSACHUSETTS
GENERAL HOSPITAL

INSTITUTE FOR HEART,
VASCULAR AND STROKE CARE

Results: Primary Patency (LL: 77 ± 31mm)

	12 months	24 months	36 months
Primary Patency (KM estimate) (PSVR < 2.5)	81.7%	74.9%	72.7%
DUS Patency (PSVR < 2.5)	81.1% (154/190)	83.5% (132/158)	83.9% (115/137)
Absence of Clinically Driven TLR	87.4% (202/231)	79.0% (173/219)	75.8% (157/207)

Primary Patency: composite endpoint of absence of clinically driven TLR and DUS assessed binary restenosis defined as diameter stenosis >50% (non-patent).

DUS patency: stent non-patency defined as a diameter stenosis >50% with a specific a peak systolic velocity ratio as measured by Duplex Ultrasonography

Clinically driven TLR: any intervention in the stented target lesion following documented recurrent symptomatic leg ischemia by Rutherford/Becker Classification (2,3,4) with a resting or exercise ABI <0.8 and >50% diameter in-lesion stenosis by angiography. Or >70% in-lesion diameter stenosis by angiography in the absence of ischemic signs and symptoms.

My opinion

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