

CONTROVERSES ET ACTUALITÉS EN CHIRURGIE VASCULAIRE

CONTROVERSIES & UPDATES IN VASCULAR SURGERY

JANUARY 19-21 2017

MARRIOTT RIVE GAUCHE & CONFERENCE CENTER

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PARIS, FRANCE

In stent restenosis: does DEB work?

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Disclosure Speaker name:G.Torsello..... I have the following potential conflicts of interest to report: Consulting Employment in industry Shareholder in a healthcare company Owner of a healthcare company Other(s) I do not have any potential conflict of interest



ISR is a frequent complication of fempop stenting

20 - 37% @ 1 year



Recurrence after POBA for fem-pop ISR is frequent

50 - 80% @ 2 years



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Restenotic patterns are important predictors for recurrence

49.9% class I (focal)

53.3% class II (diffuse)

84.8% class III (occlusive)



Treatment of fem-pop ISR

Treatment can be demanding and risky

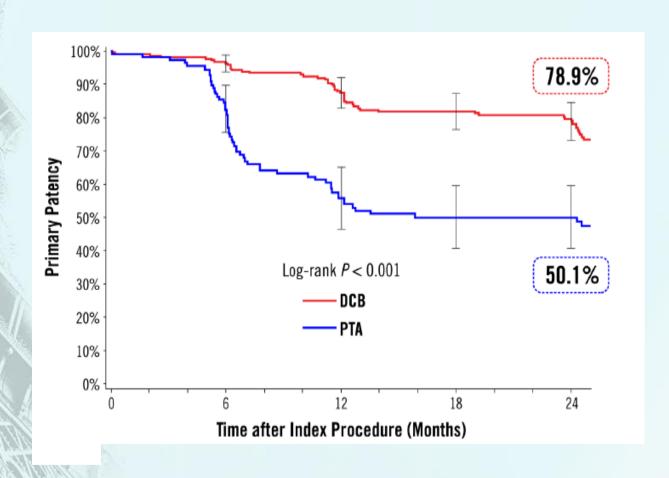


Treatment of fem-pop ISR

- Rate of recurrent restenosis after POBA is unacceptable
 - Mixed results after stent-in-stent, cutting balloons, laser and atherectomy
- DEB appears as an attractive option

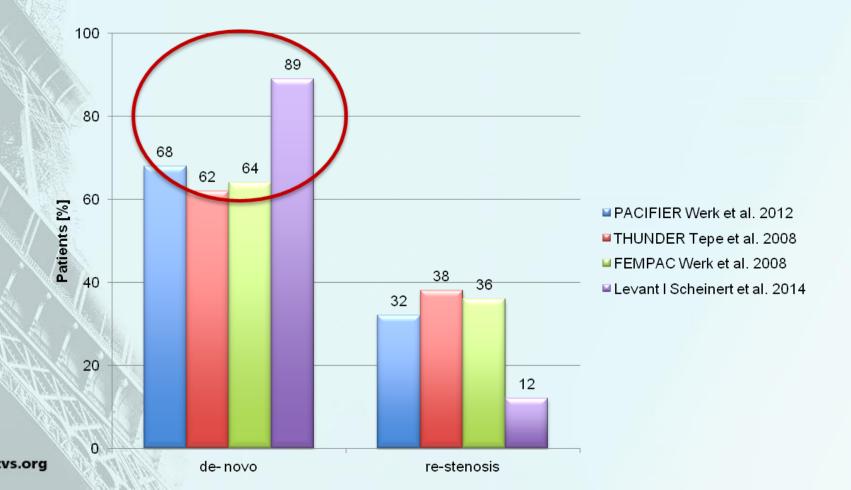


Results of RCT DEB vs. PTA IN.PACT





.... but the majority of the treated lesions was a de-novo stenosis







prospective data collection of DEB in SFA

Oct 2009

2010

2011

2012

Oct 2013

retrospective evaluation

100 patients

111 lesions



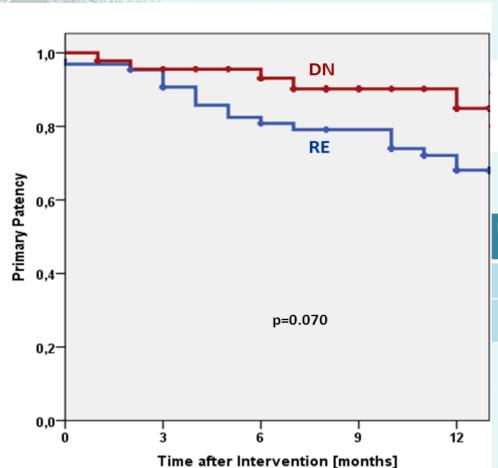
restenosis group incl. ISR 61 patients 65 lesions

de-novo stenosis group
39 patients
46 lesions





Primary Patency



Primary Patency	boths groups	RE	DN	P-value		
6 months	85.9%	80.8%	93.1%	0.093		
12 months	74.0%	68.1%	84.9%	0.021		

From: Herten M. <u>Drug-eluting balloons for femoropopliteal lesions show better performance in de novo stenosis or occlusion than in restenosis.</u> J Vasc Surg. 2015; 61:394-9.

DCB for ISR in fempop segment -RCTs & registries N VASCULAR SURGERY

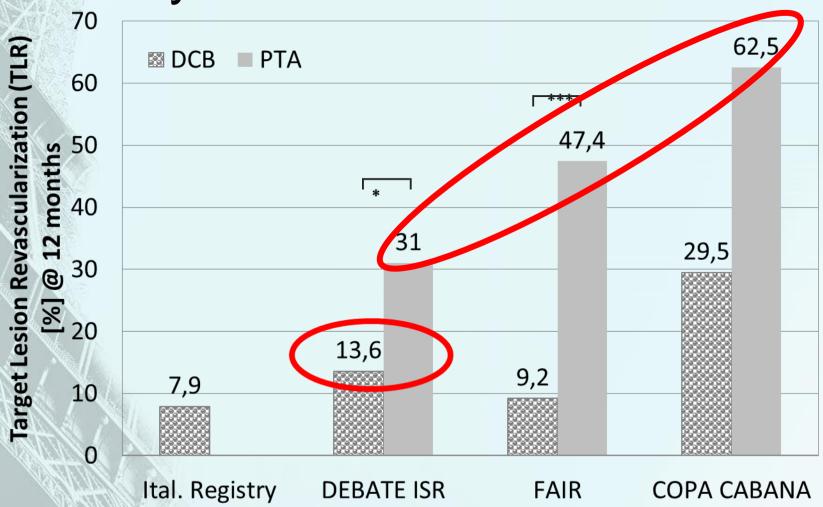
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		name	Ital. Registry	DEBATE ISR		FAIR		COPA CABANA	
W. No.		author	Stabile et al.	Liistro et al.		Krankenberg et		Tepe et al.	
	\times	uutiiti	2012	2014		al. 2015		2015	
	DCB type			IN.PACT™		IN.PACT™		Cotavance®	
	used		IN.PACT™	Admiral		Admiral			
	parameter	unit	DCB	DCB	PTA	DCB	PTA	DCB	PTA
ics	patient number		39	44	42	62	57	47	41
	diabetics	[%]	49	100	100	45	30	43	46
characteristics	CLI	[%]		75	67	4.8	10.5	8	11
cte	lesion length	[mm]	83	132	137	82	81	119	109
ara									
eyo //	total occlusion	[%]	20			24	33	18	35
	bailout stenting	[%]	10.3	15.9	26.2	1.6	7.0		
mo	improved RU					higher	٧		
13	improved ABI					٧	V		





1-year results of DCB for ISR





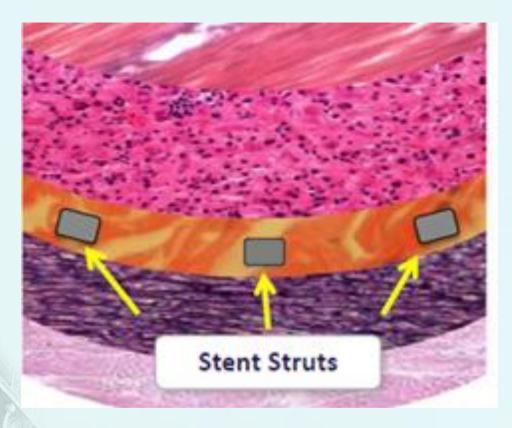
Are the results durable? Three-Year Results of the DEBATE-ISR

At 3-year follow-up, the rate of target lesion revascularization (TLR) was 40% in the DEB group vs 43% in the BA group (p=0.8)

From: Grotti et al J Endov Ther Okt 2015



Typical pattern in ISR MARRIOTT RIVE GAUCHE A Barrier made by smooth muscle cells and hydrated collagen matrix



Osherov AB et Al. Cardiovasc Res. 2011 Jul 1;91(1):16-26 Inoue S et Al. J Vasc Surg. 2002 Apr;35(4):672-8 Brodmann M et Al. Cardiovasc Intervent Radiol. 2013 Feb;36(1):69-74



Perspectives



Additional material inside the stent can impair or prevent uptake of PTX into the vessel wall



Plaque removal with local inhibition of excessive neointimal formation!





- DEB is an effective therapy for fempop lesions
- The results of DEB for de-novo stenosis are superior compared to restenosis at mid-term
- Outcomes after DEB for restenosis are superior to other ISR strategies but not durable
- Combination of DEB with different debulking techniques or plaque preparation appears promising

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Thank you!



