

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

How to exclude hypogastric artery aneurysms

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PARIS, FRANCE

Disclosure

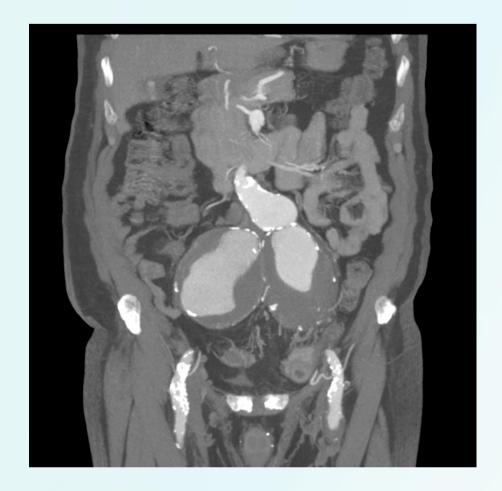
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Speaker name:					
	Jan Brunkwall				
	I have the following potential conflicts of interest to report:				
X	Consulting				
	Employment in industry				
	Shareholder in a healthcare company				
//	Owner of a healthcare company				
	Other(s)				
	I do not have any potential conflict of interest				





Background

 About 20% of patients with AAA also have iliac artery aneurysm





Endovascular treatment options

- 1. Coiling + EVAR into the external iliac arteries
- 2. Flared limbs (up to 27mm)
- 3. Iliac side branch



Buttock claudication after iliac coiling

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Lable	5.	FOII	ow-Up	Buttock	Claudication
			- P	Duccock	Ciaaaicacioni

	Acute	l Month		100	12 Months	-
Interventions (n)	20/44	23/44	15/34	11/28	9/24	3/11



Pavlidis, et al Vascular and Endovascular Surgery 2012





Buttock claudication after iliac coiling

First Author (year)	No. of patients	Claudication, n (%
Lee (2000) ¹⁸	27	5 (19)
Criado (2000) ²¹	39	5 (13)
Cynamon (2000) ²²	34	13 (41)
Razavi (2000) ³¹	32	9 (28)
Karch (2000) ²⁵	22	7 (32)
Wolpert (2001) ³⁶	18	8 (44)
Yano (2001) ⁷	103	21 (20)
Lyden (200 Í) ²⁸	23	7 (30)
Schoder (2001) ³³	46	21 (46)
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Ві		
Bı Vandy (2008)³³	23	7 (35), ^a 2(9) ^p
B Vandy (2008) ³³ Rayt (2008) ¹⁰	23 29	7 (35), ^a 2(9) ^b 16 (55)
B Vandy (2008) ³³ Rayt (2008) ¹⁰ Verzini (2009) ¹⁴	23 29 37	7 (35), ^a 2(9) ^o 16 (55) 8 (22)
B Vandy (2008) ³³ Rayt (2008) ¹⁰	23 29	7 (35), ^a 2(9) ^b 16 (55)





Introduction

≈20% of EVARtreated AAAs have aneurysmal common iliac arteries CIA (>16mm)^{1,2}

CIAs up to 25mm can be treated with flared iliac limbs³





Follow-up



Mean CT- follow-up was 53 months (33-116)

No immediate type 1b endoleak postimplantation at CT scan in any iliac limb



Results



	<20mm	≥20mm	t-test
Type 1b endoleak	7 (4%)	11 (15%)	p<0,001





Intr: Aneurysmal landing zone CIA (16-25mm):

Flared limbs?



IBD?





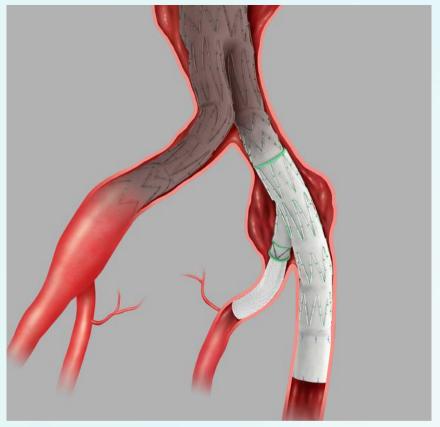


Iliac side branches

Gore Excluder



Cook ZBIS







Iliac side branches

Jotec E-liac





lliac side arm (all ePTFE)



ZBIS, E-iliac

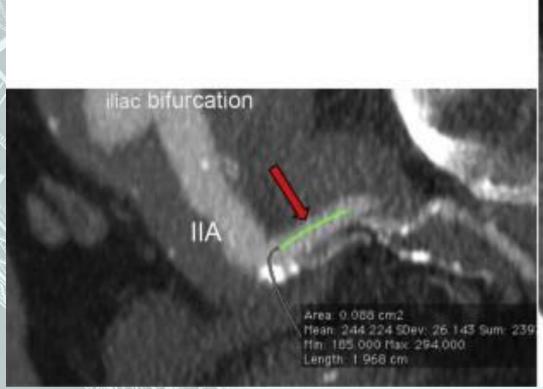
- Eventus
- Advanta V12
- Lifestream
- BeGraft
- Viabahn

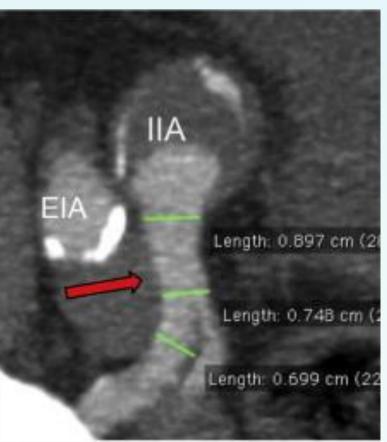
Excluder

Viabahn









European Journal of Vascular and Endovascular Surgery, Volume 49, Issue 3, 2015, 283–288 D. Gray, R. Shahverdyan, C. Jakobs, J. Brunkwall, M. Gawenda



Landing zone of the internal Historical artery is most limiting

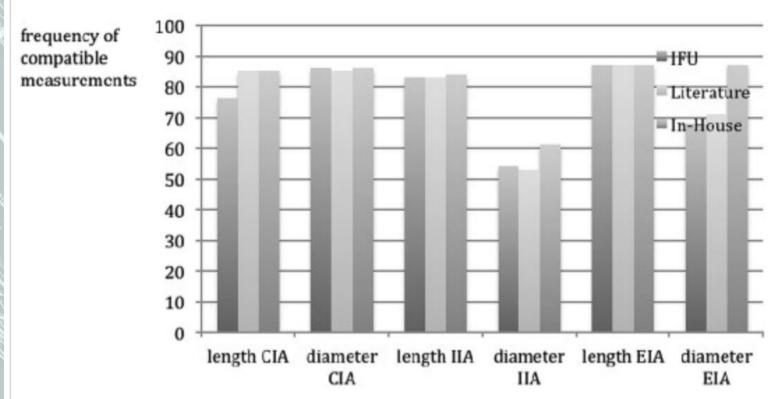
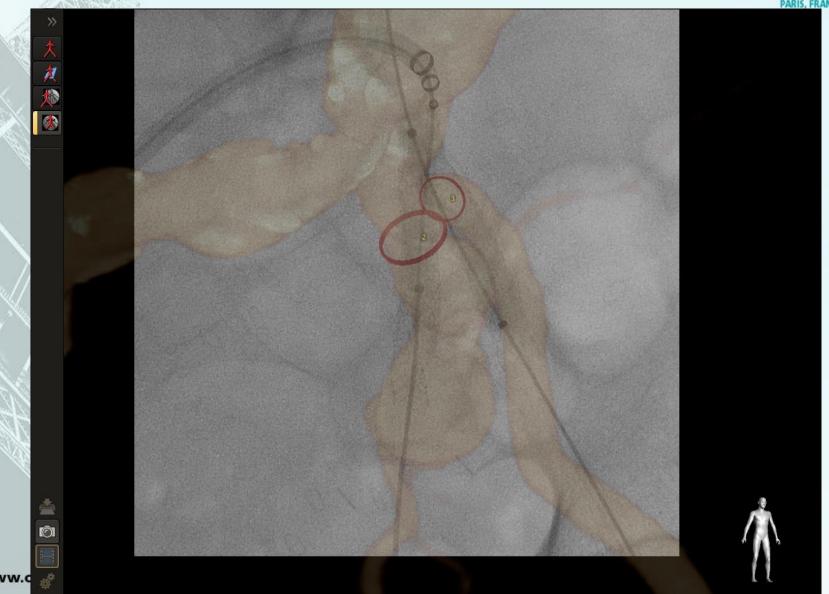


Figure 1.

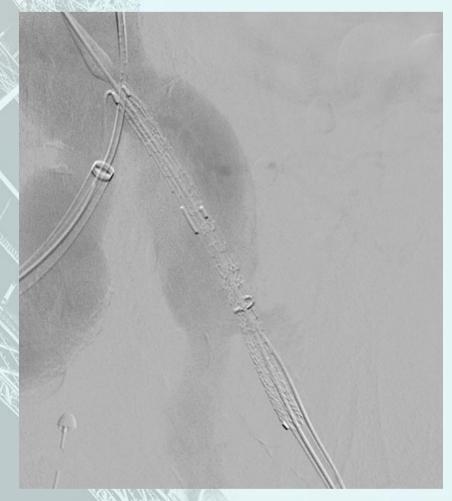
Results of morphological analysis. *Note*. IFU = instructions for use; CIA = common iliac artery; IIA = internal iliac artery; EIA = external iliac artery.



Iliac Side-Branch

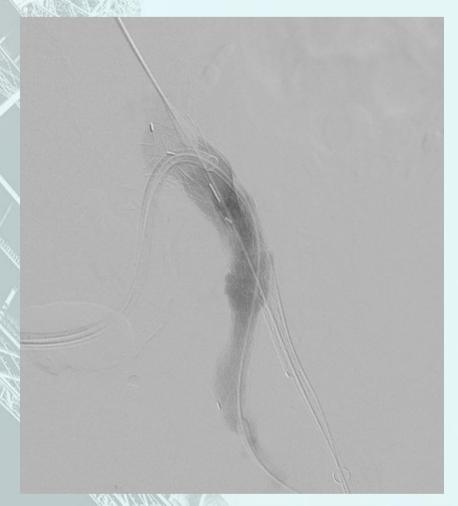


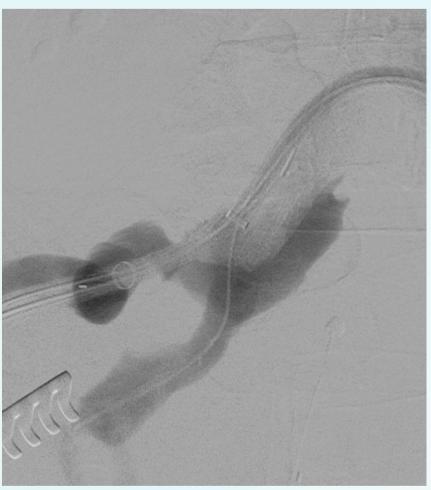




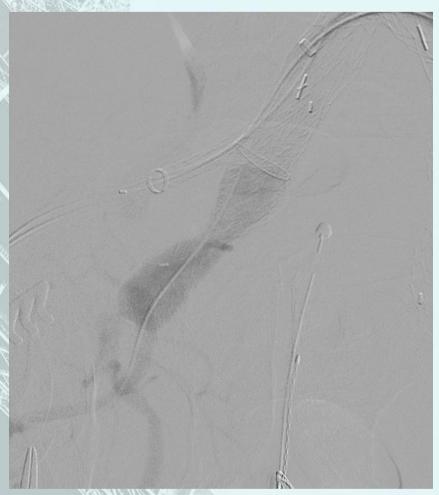


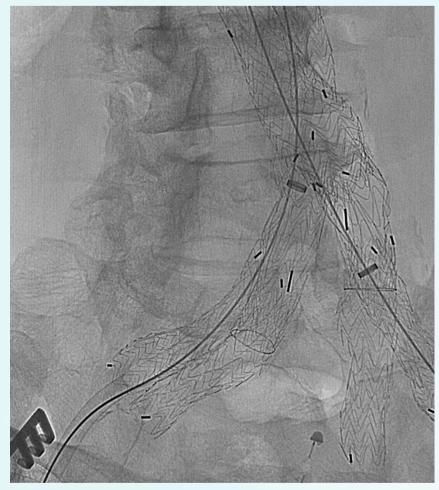








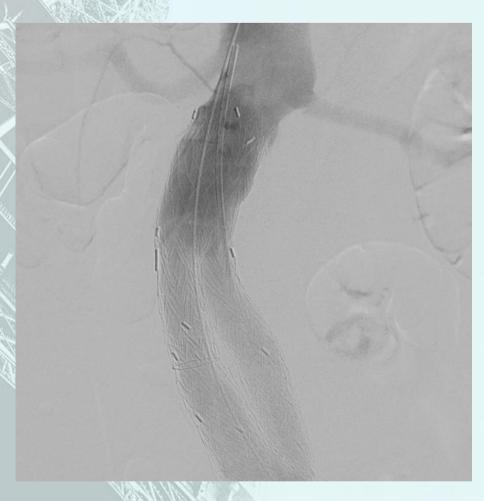


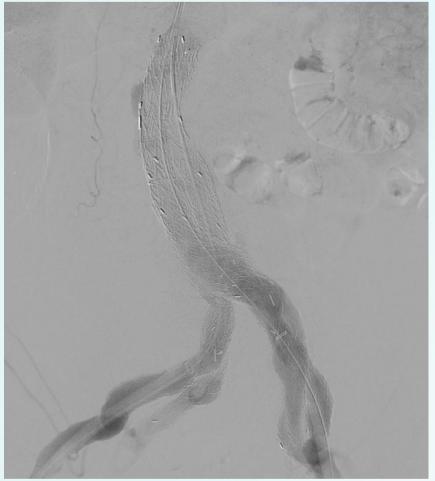




Completion Angio









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A multicenter 12-month experience with a new iliac side-branched device for revascularization of hypogastric arteries

Presented at the International Fast Talk session at the 2016 Vascular Annual Meeting of the Society for Vascular Surgery, National Harbor, Md, June 8-11, 2016.

Spyridon N. Mylonas, MD , Gerhard Rümenapf, MD, PhD, Hubert Schelzig, MD, PhD, Jörg Heckenkamp, MD, PhD, Marwan Youssef, MD, Jost Philipp Schäfer, MD, PhD, Wael Ahmad, MD, Jan Sigge Brunkwall, MD, PhD on behalf of the E-liac Collaborative Group

* Members of the E-liac Collaborative Group are listed in the Appendix (online only).

From the Society for Vascular Surgery





Male gender	69/70 (98.6%)
Mean age (yrs)	72.4 ± 9.8
 Iliac aneurysm 	66
 Para-anastomotic aneurysm 	
after aorto-biiliac	2
reconstruction	
 Type Ib endoleak after EVAR 	2
IIA aneurysm (>20mm) (n)	6





	Measurements	mm (median, IQR)
\	CIAØ	34 (17-56)
	CIAL	65 (23-129)



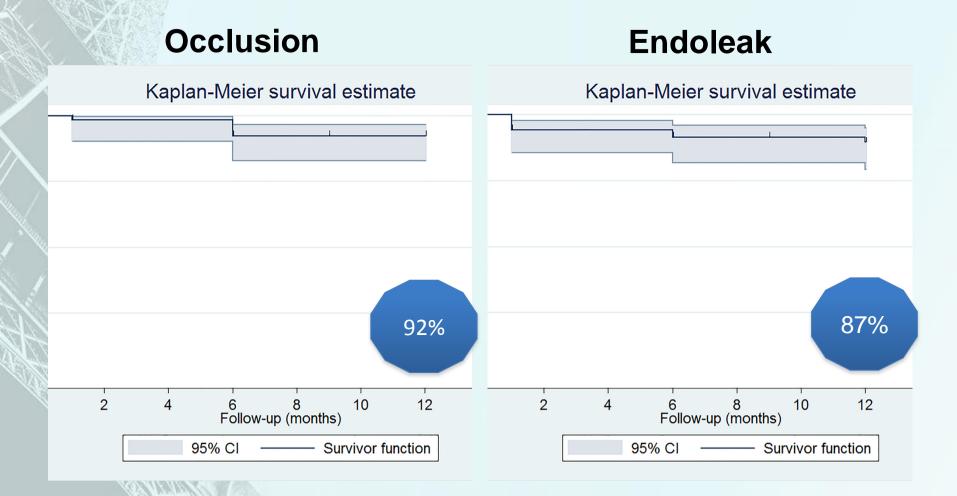


- 70 patients
- •82 IIA:s revascularized
 - -12 simultaneously bilateral

- Technical success 100% (82/82)
- 1 perioperative death (1.4%)
- No other clinical complications



Results





Conclusion

Occlusion of the internal iliac artery leads to buttock claudication in 30%

EVAR with flared limbs has a significantly higher risk for type 1b endoleak at 3 years

IBD for EVAR in patients with CIA >16-18mm?



Conclusions

The E-liac® stent graft system can be safely and effectively applied for the treatment of aorto-iliac aneurysmatic disease

High patency rates

Long-term data are needed to confirm the efficacy of the device.