CONTROVERSES ET ACTUALITÉS EN CHIRURGIE VASCULAIRE CONTROVERSIES & UPDATES IN VASCULAR SURGERY



MARRIOTT RIVE GAUCHE & CONFERENCE CENTER PARIS, FRANCE

Endovascular repair of occlusive aortic syndrome: how I do it

Andrea Stella





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Disclosure	MARRIOTT RIVE GAUCHE & CONFERENCE CENTER PARIS, FRANC
Speaker name:	
I have the following potential conflicts of interes	t to report:
Consulting	
Employment in industry	
Shareholder in a healthcare company	
Owner of a healthcare company	
Other(s)	
X I do not have any notential conflict of interest	10/20

Acute and Long-term outcome of **Endovascular Therapy** for **Aortoiliac Occlusive**Lesions Stratified According to the TASC Classification

Sixt S et al..
J Endovasc Ther 2008; 15: 408-416

	Entire Cohort $N = 438$	TASC A (n=94)	TASC B (n=165)	TASC C (n=133)		TASC D (n=66)
Stents	354 (81%)	74 (79%)	130 (79%)	96 (85%)	54 (85%)	
Technical success	97%	100%	96%	93%	100%	
30 days - Primary patency	97%	99%	98%	94%	95%	
1 year – Primary patency	86%	89%	86%	86%	85%	
1 year - Secondary patency	98%	100%	98%	98%	98%	

Acute and Long-term outcome of **Endovascular Therapy** for **Aortoiliac Occlusive**Lesions Stratified According to the TASC Classification

Sixt S et al..

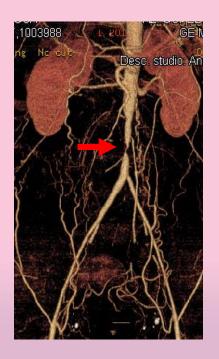
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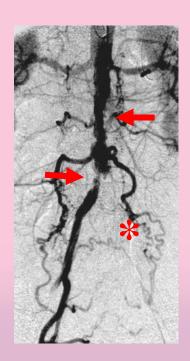
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Different Pattern - Different Strategy

- Aortic lesions
- Aorto-iliac stenosis and occlusion
- Aortic occlusion



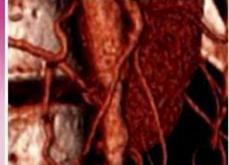




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AORTIC STENT





Case # 1: Infrarenal Aortic Stenosis



Technical solutions



RETROGRADE FEMORAL RECANALIZATION





Case # 2: Infrarenal aortic stenosis + TASC D Iliac lesion (Femoral approach)



Technical solutions



HYBRID APPROACH





Case # 3: TASC D Iliac lesion (Hybrid approach)

Technical solutions



BRACHIAL APPROACH





Case # 4:

Carrefour aortic occlusion
+

TASC D bilateral Iliac lesion
(Brachial approach)



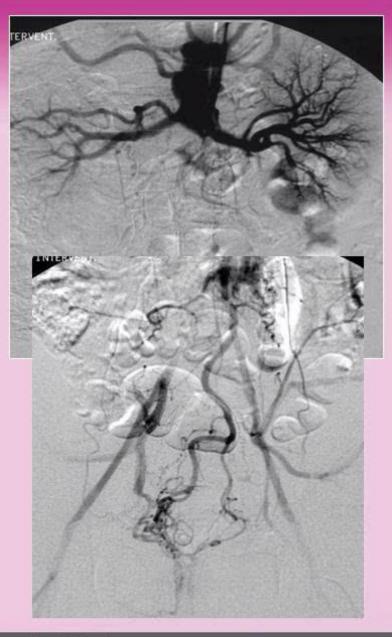
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TOTAL OCCLUSION

SUCCESSFULL THROMBOLYSIS





Case # 5: Aorto-Iliac Total Occlusion

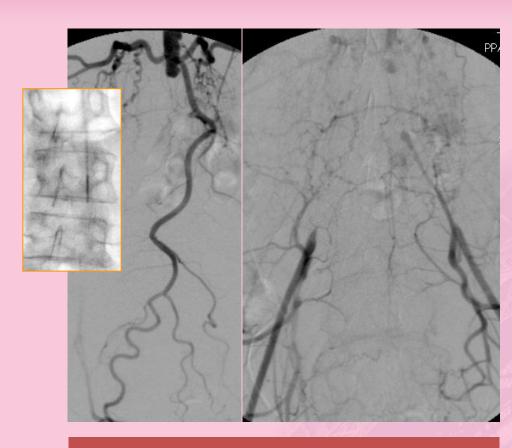


TOTAL OCCLUSION

THROMBOLYSIS FAILURE

Female, 61y-old, Rutherford III, TASCING SURGERY

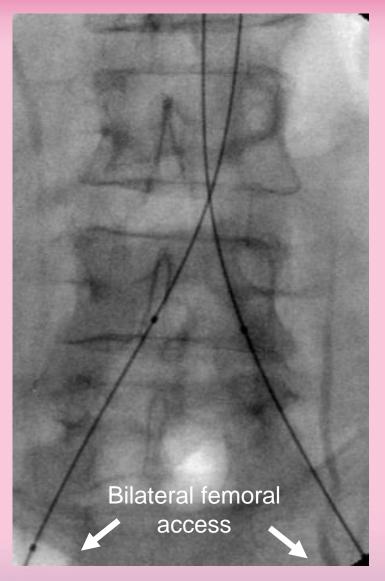


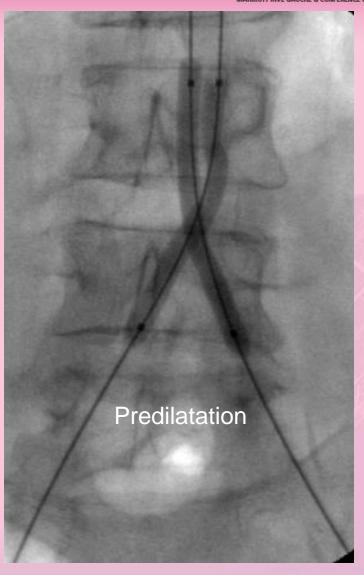


Angiogram post 24h UK therapy

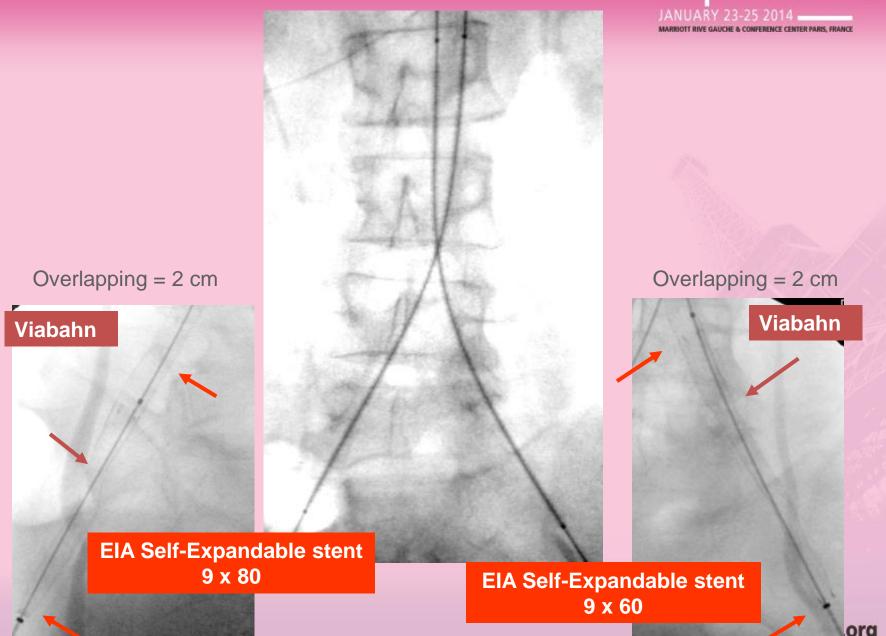
Extended Thrombus

Female, 61y-old, Rutherford III, TASC DASCULAR SURGERY





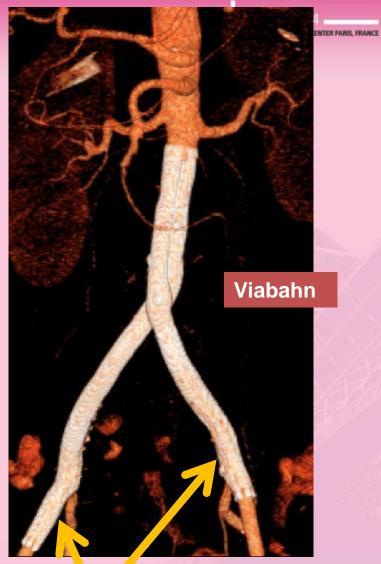
Cross the lesions by Terumo stiff guidewire and verterbral catheter www.cacvs.org



Final Result







Self-Expandable Stent
9 x 80

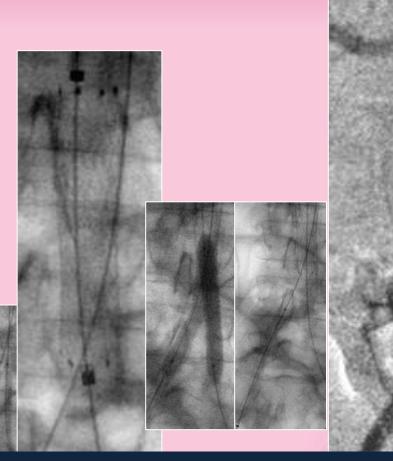
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36 hours UK therapy

cut

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CONTROVERSIES & UPDATES
IN VASCULAR SURGERY

JANUARY 23-25 2014 -



Self-Expandible stent

Final Results www.cacvs.org

Follow-up 49 gg

CONTROVERSIES & UPDATES
IN VASCULAR SURGERY







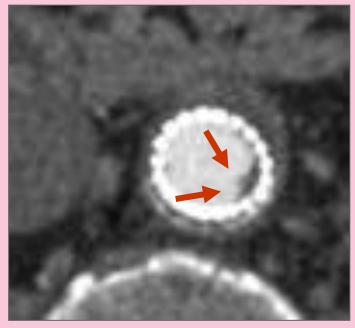


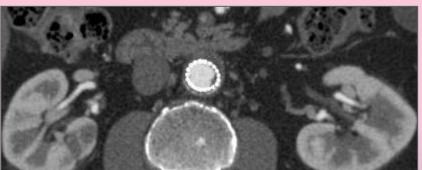


Angio-CT scan

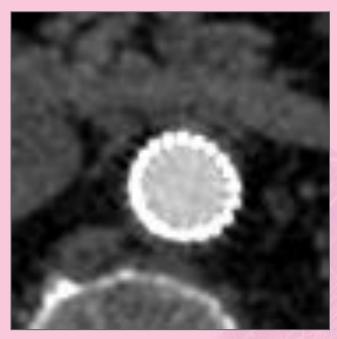


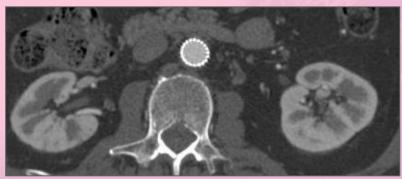
Follow-up at 5 days





Follow-up at 49 days





Wound healing trophic leasion plans a uppdates with the surgery with the s

ANUARY 23-25 2014 📥

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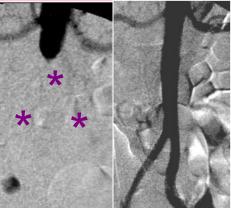


10 months

Endovascular Treatment of Type D Lesions of Infrarenal aorta



Authors	Year	No of patients	Thrombolysis	Technical success	Mortality	Minor Complications	Follow up (mean-months)	PP/SP
Long AL et al	1993	2	-	100%	-	-	15.1	100%
Diethrich EB et al	1993	6	100% (UK)	100%	-	2 (embolization)	33	100%
Pilger E et al	1994	?						
Martinez R et al	1997	6	100% (UK)	100%	-	?	60	100%
McPherson SJ et al	1999	1						
Badiola et al	1999	?						
Nyman U et al	2000	9	33% (r-TPA)	78%	-	?	11	100%
Karkos CD at al	2000	1	-	100%	-	1 (LRA stenosis)	11	100%
Current Study	2013	9	100% (UK)	100%	0	2 (1 leg embolization, 1 hematoma)	31.3	100%







Peripheral Embolization

Endovascular recanalization





Case # 6:

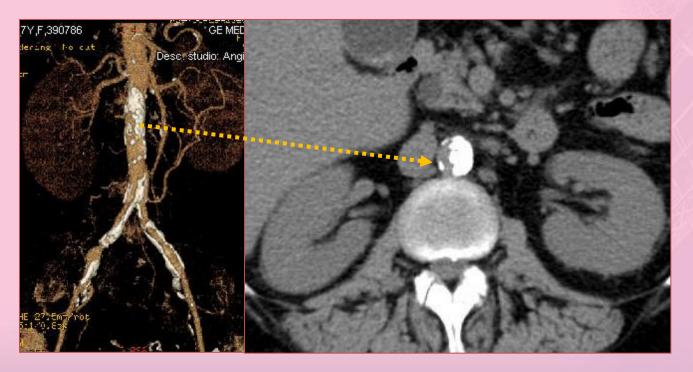
Aorto - Iliac "Soft" stenosis



Conclusion



A preoperative CT scan is helpful in documenting the amount of calcification and predicting the risk of inability to dilate this aortic lesion.





Endovascular Therapy Today

Inclusion Criteria

- no calcified infrarenal aorto-iliac lesions > 80%
- calcified infrarenal aorto-iliac lesions < 80%
- Aorto-iliac occlusion with clinical worsening in the last six months

Esclusion Criteria

- "coral reef" aortic lesions
- calcified infrarenal aorto-iliac lesions > 80%
- Chronic total aorto-iliac occlusion

Conclusion

Endovascular treatment of infrarenal aortic occlusion – TASC D

Author	Diethrich (1983)	Nyman (2000)	Moise (2009)	Varcoe (2011)	Kim (2011)	тот
Patients	7	30	31%	8	49%	125
Technical succes	71.4%	83.3%	80.6%	100%	83.4%	82.9%
Mortality	0%	6.6%	0	0%	2.0%	1.7%
Overall Morbidity	28.6%	10%	41.9%	12.5%	16.3%	21.8%
Access site complications	0%	3.3%	19.4%	12.5%	14.3%	12.0%
Limb embolization/Thrombosis	28.6%	3.3%	6.5%	0%	8.2%	10.6%
Renal feilure	0	0%	16.1%	0%	6.1%	4.4%
Primary patency	100%	80%	66%	100%	70%	83%

Marrocco et al. J Cardiovasc Surg 2012;53:307-12

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Endovascular Therapy # 137

Lesion	TASC B/C/D	n	(%)
Aortic Focal Stenosis	14/0/0	14	10.2
Aorto Iliac lesions (Stenosis and occlusion)	7/5/0	12	8.8
Iliac lesions No aortic envolvment	23/64/15	102	74.5
Aortic Occlusion	0/0/9	9	6.5



Endovascular Therapy # 137

Lesion	TASC B/C/D	n	Clinical Success
Aortic Focal Stenosis	14/0/0	14	100%
Aorto Iliac lesions Stenosis and occlusions)	7/5/0	12	68.2%
Iliac lesions	23/64/15	102	83.3%
Aortic Occlusion	0/0/9	9	100%

Distal worsening

Clinical success: More than I Stage Rutherford improvement



Endovascular Therapy # 137

Lesion	TASC B/C/D	n	Thecnical Success (%)	P Patency (%)	Minor Complication N-(%)
Aortic Focal Stenosis	14/0/0	14	100	100	0
Aorto Iliac stenosis	7/5/0	12	100	100	1-(8.3%)
Iliac Occlusion	23/64/15	102	100	95.2	1-(0.9%)
Aortic Occlusion	0/0/9	9	100	100	1-(11%) 1-(11%)

36 month Follow-up