

Type III endoleaks, Fotis A. Markatis MD,PhD

Greece

Vascular Surgeon



Disclosure of Interest

Speaker name: Fotis A. Markatis

• I do not have any potential conflict of interest



<u>J Vasc Surg.</u> 2017 Oct;66(4):1056-1064.

Incidence, etiology, and management of type III endoleak after endovascular aortic repair.

Geert Maleux, MD, PhD, Lien Poorteman, MD, Annouschka Laenen, PhD, Bertrand Saint-Lèbes, MD, Sabrina Houthoofd, MD, Inge Fourneau, MD, PhD, Hervé Rousseau, MD, PhD

965 EVAR procedures

first- and second-generation (n = 79)

third-generation (n = 886)

Twenty patients (2.1%) were identified with 25 type III endoleaks

[12.7%] for first- and second-generation [1.2%] for third-generation

P < .001

endovascular techniques (n = 22 [88%])

open surgical conversion (n = 3 [12%])



<u>J Vasc Surg.</u> 2017 Oct;66(4):1056-1064.

Incidence, etiology, and management of type III endoleak after endovascular aortic repair.

Conclusions:

- 1. Most endoleaks appear on 1st and 2nd generation grafts
- 2. Type III endoleak is a rare finding on post-EVAR surveillance
- 3. The majority of endoleaks can be treated by endovascular means
- The majority of endoleaks occurs due to component diconnection than fabric defect (p<,001)



Case report

- Male patient 69 yrs old
- Infrarenal 3A (1999), d=60mm
- Treated in USA with an AneuRx device successfully
- The patient discontinued surveillance 3yrs post-EVAR

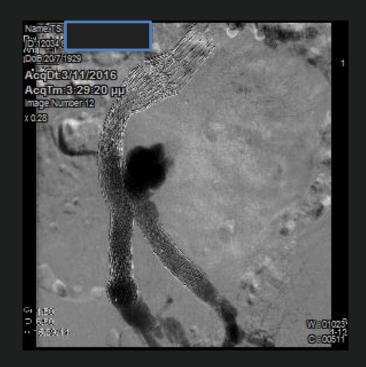


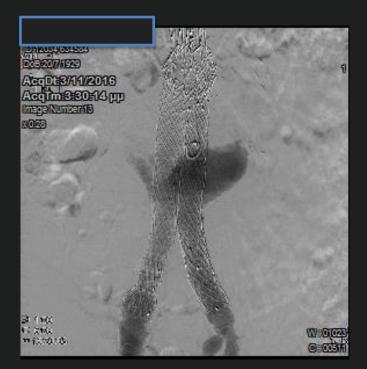
- 19 yrs later... (2016)
- CTA: *INCREASED* 3A diameter 11cm
- Type Ia endoleak (report from the hospital admission)
- Treated with <u>2 TALENT</u> proximal cuffs
- <u>Exit report</u> > Successful treatment of Type Ia-endoleak



• 6 months follow-up:

Type III endoleak on the left side







• What is the possible mechanism of type III ???



• Obvious what to do but please participate







 2018, admission to our hospital due to sudden loss of consciousness



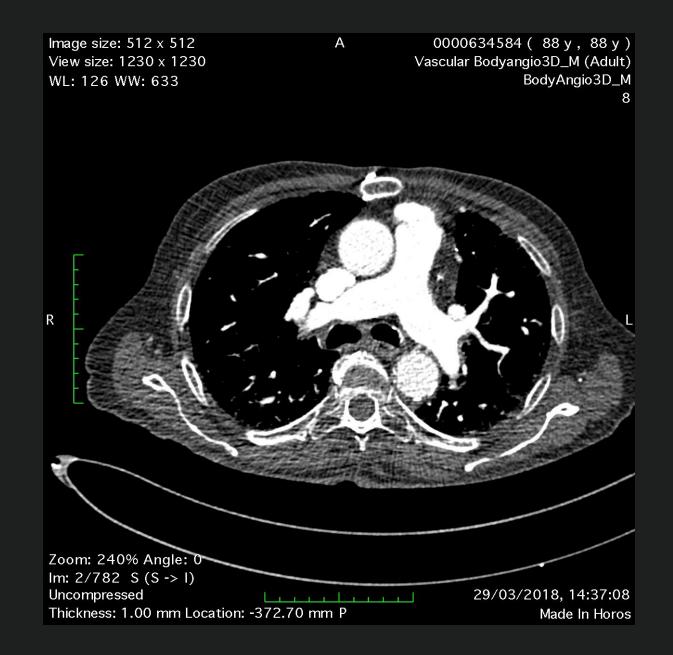


Image size: 512 x 512 View size: 1230 x 1230 WL: 50 WW: 350 0000634584(88 y , 88 y) Vascular Bodyangio3D_M (Adult) BodyAngio3D_M



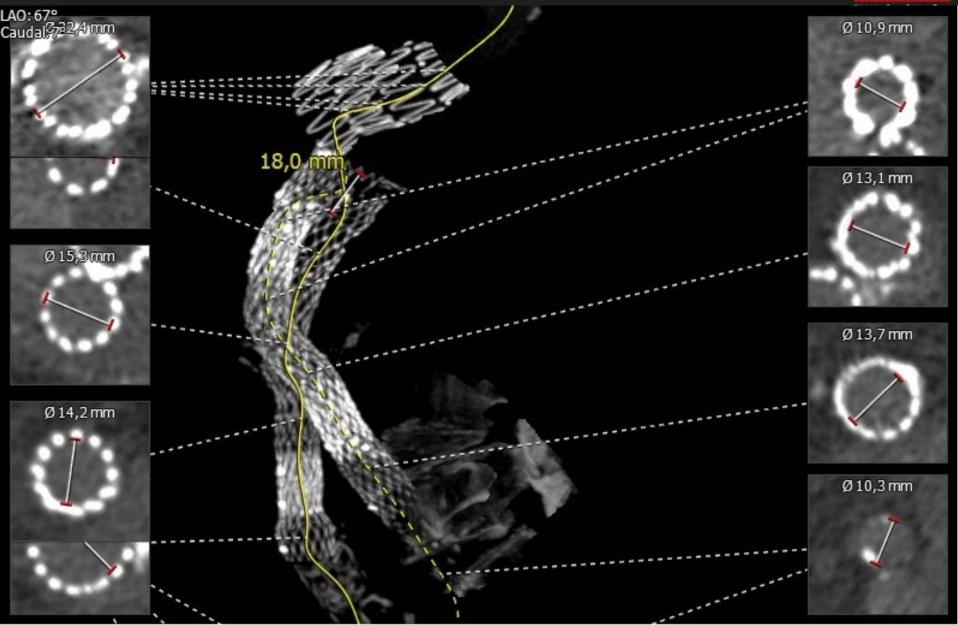
Zoom: 240% Angle: 0 Im: 1/1

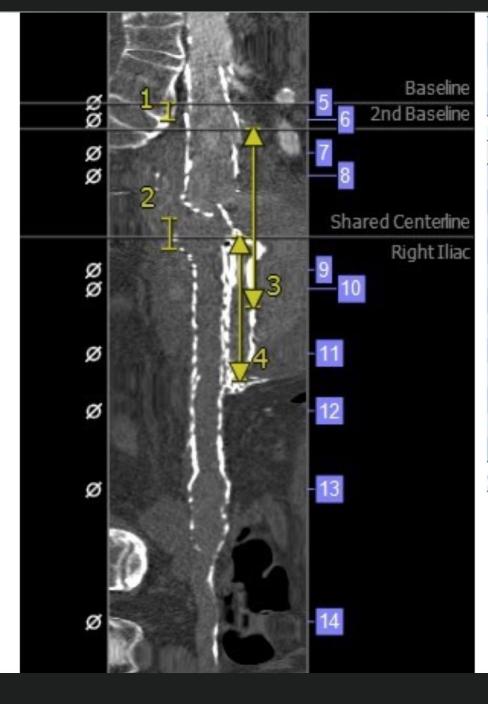
Uncompressed Position: HFS

<u>na na la na n</u>i

29/03/2018, 14:35:05 Made In Horos

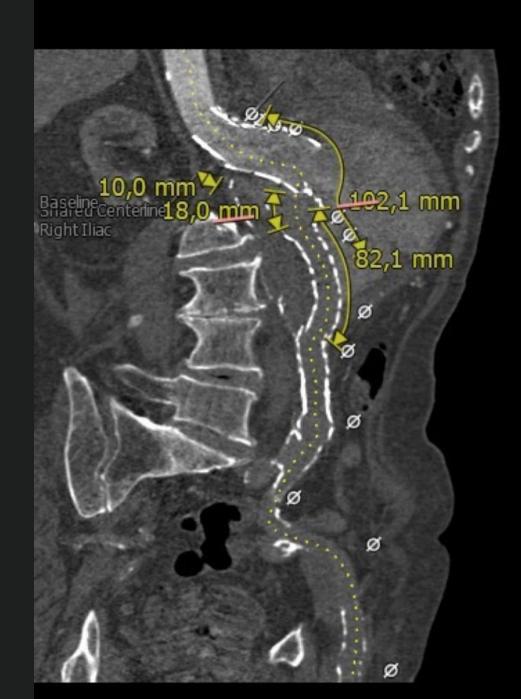




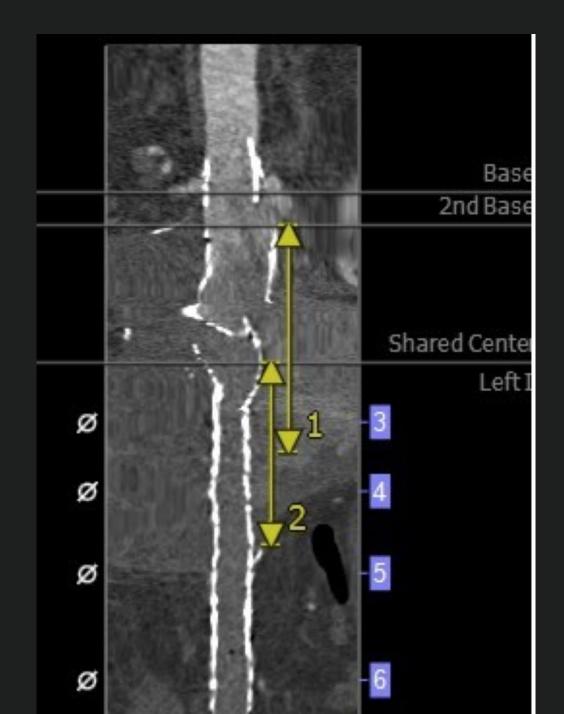


_				
1	Vessel Len	ngth Length 1	10,0 m	
2	Vessel Len	ngth Length 2	18,0 m	
3	Vessel Len	ngth Length 3	102,1 r	
4	Vessel Len	ngth Length 5	82,1 m	
Di	ameters			
ID	Distance	Label	Value	
5	0,0 mm	Diameter	22,4	
6	10,0 mm	Diameter	29,3	
7	29,0 mm	Diameter	29,2	
8	42,0 mm	Diameter	26,8	
9	96,1 mm	Diameter	12,8	
10)107,1 mm	Diameter	13,9	
11	144,1 mm	Diameter	15,3	
12	2177,1 mm	Diameter	14,2	
13	3222,2 mm	Diameter	18,8	
14	1298,2 mm	Diameter	11,4	
15	5346,3 mm	Diameter	12,4	
16	5411,3 mm	Diameter	11,8	
Сс	Comments:			











3mens Report Details	510		
Creation Date: Created By: Received Date: Reviewed Date:	25-4-2018 TvdK 25-04-2018 25-074-2018	Physician: Hospital: City: Country:	WORKLIST
Patient Information			
Name: Sex: Year Of Birth (Age): Comments:	TSIROZIDIS AIMILIANOS Male 1929 (88) Patient with AnnuPy bifurcated stentoraft in s	Study Description: Study Date:	Vascular^BodyAngio3D_M (Adult) 29-3-2018 14:31
comments.	Patient with AneuRx bifurcated stentgraft in situ. Cranial extensions with -most likely- two Talent extension cufs. The talent cuffs have correct overlap. The connection with the AneuRx is completely disconnected. According the product specifications for teh AneuRx the body should be 30 mm long. I can only measure a length of 18 mm. Something has happened with the graft integrity, resulting in a shortening of the body. The body is too short to use for a new extension/ tube graft. Remaining option is conversion to an Aorto Unilliac system. Access through the different graftcomponents will be difficult which is the reason to leave the access site right or left open to which is succesfull. The contralateral side could then be used for an Amplatzer plug. Preferably AUI from the right side because the diameter in the distal sealzone is a bit bigger compared to the left side. I suggest to start the AUI graft-fabric ± 15 mm caudal from the renal artery level in order to limit the amount of metal in front of the renal artery ostia. ETUF3214C102EE with extension ETLW1616C82EE. Amplatzer plug in the contralateral limb an dfem-fem.		



	•	
3me	ensio	

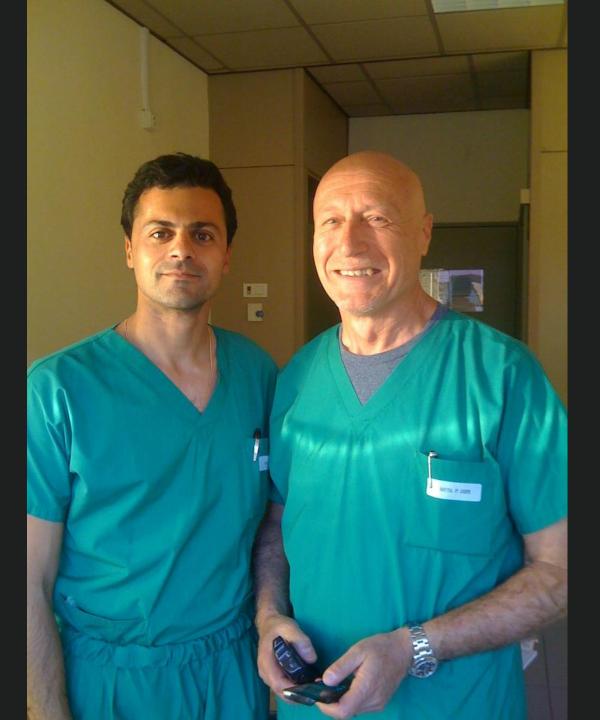
Report Details

Creation Date: Created By: Received Date: Reviewed Date:	25-4-2018 TvdK 25-04-2018 25-074-2018	Physician: Hospital: City: Country:	WORKLIST
Patient Information			
Name:	TSIROZIDIS AIMILIANOS	Study Description:	Vascular^BodvAngio3D_M (Adult)

Name:	TSIROZIDIS AIMILIANOS	Study Description:	Vascular^BodyAngio3D_M (Adult)
Sex:	Male	Study Date:	29-3-2018 14:31
Year Of Birth (Age):	1929 (88)		
Comments:	Patient with AneuRx bifurcated stentgraft in situ The talent cuffs have correct overlap. The connection with the AneuRx is completely d According the product specifications for teh Ane I can only measure a length of 18 mm. Somethin body. The body is too short to use for a new extension Remaining option is conversion to an Aorto Unii Access through the different graftcomponents v to which is succesfull. The contralateral side cou Preferably AUI from the right side because the of I suggest to start the AUI graft-fabric ± 15 mm of front of the renal artery ostia. E1UF3214C102EE with extension E1LW1616C82E Amplatzer plug in the contralateral limb an dfen	isconnected. euRx the body should be 3 ng has happened with the / tube graft. liac system. vill be difficult which is the ld then be used for an Am liameter in the distal seal audal from the renal arte	30 mm long. e graft integrity, resulting in a shortening of the e reason to leave the access site right or left open aplatzer plug. zone is a hit bigger compared to the left side



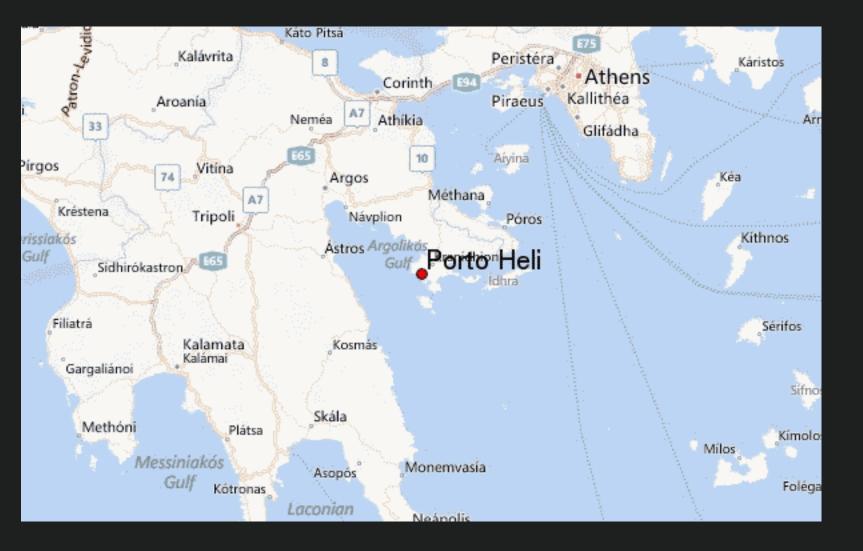
















Thank you for your attention....