

Disclosure

- Medtronic Advisory Board
- Venostent Advisory Board
- Investigational Device Exemption for laser fenestration G240064
- Discussion of off-label therapy
- This work was supported by Medtronic, Inc. (Santa Rosa, CA, USA)









	TAAA (N=121)	TEVAR (N=82)	Total	%	• Comorbidition
90	71 3 (41-88)	62 4 (27-89)	67.8	~	· comorbialities:
ex.	/1.5 (41 00)	02.4(27 05)	07.0		 CAD 61 patients (30%)
Female	27	24	51	25	
Male	97	57	154	76	 COPD in 39 patients (19%)
thnicity					,
Hispanic/Latino	16	9	25	12	 Renal Insufficiency 43 patie
Not Hispanic/Latino	95	69	164	81	
Not reported	5	2	7	3	 Dialysis 7 patients (3%)
Race					Dialysis / patients (5%)
White	81	63	144	71	
Black	5	5	10	5	 Prior stroke 31 patients (15)
Asian	7	4	11	5	
Native Hawaiian	0	1	1	0.5	 GTAD 3 patients (1.5%) – al
Other	12	7	19	9	
Not reported	8	1	9	4	

- (21%)
- VAR



























Outcomes TEVAR							
Post-op/Thirty-day	follo	w-up	Mid-term fol	Mid-term follow-up			
N = 82	N	%	N = 82 (patients) 89 branch stents	N	%		
Selected complications			Mean follow-up (range)	15 (1-81 months)			
Death	4	5	Selected complications				
Stroke	6	7.4	Death	4	5		
-Resolution of stroke	3	3.7	-Related to aneurysm/repair	NR	NR		
Spinal cord injury	0	0	Branch stent reintervention	20	24		
-Partial recovery	NA	NA	-Innominate	5	3		
Postop CSF drain placed	3	3.7	-Left carotid artery	7	5		
MI	0	0	-Left subclavian artery	8	8		
Respiratory failure	3	3.7	Mean reintervention interval	14 months			
Renal injury → dialysis	1	1.2	Stents occluded	0	0		
Vascular access	4	5	Retrograde Type A dissection	1	1.1		
ASA	72	89					
Clopidogrel	43	53					
Oral anticoagulation	15	19					





Conclusions

- Concerns with end-organ ischemia did not clinically manifest in this series
- Rapid endovascular seal, laser fenestration may be preferred for urgent aortic pathologies
- Long-term clinical evidence is needed to understand the broader applicability of laser fenestration in complex aortic repair
 Limitations include short follow-up, patient selection bias and small numbers
- Phase II Core Lab detailed analysis of morphological sequelae of laser fenestration

Thank you for listening – Questions? Holston Valley Medical Center É G (B)



