

















Methods

- Prospectively collected data from 6 Physician-Sponsored Investigational Device Exemption studies (2012-2018) All consecutive procedures at each participating site
- Juxtarenal, pararenal, and thoracoabdominal aneurysms
 All repairs included >1 fenestration and/or branch

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Cohort was stratified according to whether the F/BEVAR procedure was performed after EVAR failure



	Total (n=893)	No EVAR	Failed EVAR	
		(n=732)	(n=161)	P-value
Men	622 (70)	486 (66)	136 (84)	< 0.0001
Mean (SD) Age	71 (14)	71 (14)	70(17)	0.27
Comorbidities				
Coronary artery disease	441 (49)	355 (49)	86 (53)	0.26
Cerebrovascular disease	306 (91)	243 (33)	63 (39)	0.15
Hypertension	809 (91)	657 (90)	152 (94)	0.07
Hyperlipidemia	655 (73)	531 (73)	124 (77)	0.24
Diabetes mellitus	126 (14)	103 (14)	23 (14)	0.94
Chronic obstructive pulmonary	355 (40)			
disease		291 (40)	64 (40)	0.99
Renal failure requiring dialysis	10(1.1)	8 (1.1)	2(1.2)	0.70
Cancer	109 (12)	94 (13)	15 (9.3)	0.22
Aneurysm size (max diameter, mm)	65 (13)	64 (11)	69 (17)	< 0.001



	Results: Devices Used	
	Off-the-Shelf Cook t-Branch* Cook p-Branch*	
WA	<i>t-Branch</i> = 93 (10%) <i>p-Branch</i> = 20 (2.3%)	
	Patient Specific CMD	
	n = 777 (87%)	6

Results: Target Vessels					
3209 target visceral arteries (3.6/patient)					
	Overall $n = 3209$	No EVAR n = 732	Failed EVAR n = 161	P value	
-	n (Percent) or Mean ± Standard Deviation				
Vessels per patient	3.6 (0.7)	3.6 (0.7)	3.6 (0.7)	0.74	
Fenestrations	2.4 (1.6)	2.4 (1.6)	2.4 (1.7)	0.99	
Branches	1.1 (1.5)	1.0 (1.5)	1.2 (1.7)	0.15	
Scallops	0.2 (0.4)	0.2 (0.4)	0.1 (0.3)	0.003	
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	No EVAR n = 732	Failed EVAR n = 161	P value
Number of target vessels	3.6 (0.6)	3.6 (0.7)	0.77
Dose area product (mGy cm ²)	82842 (158925)	154572 (218543)	< 0.001
Exam dose (mGy)	2924 (2987)	4753 (18304)	0.01
Volume of contrast used (mL)	111 (59)	97 (55)	0.01
Operative times (hours)			
In OR to incision	1.8 (1.3)	1.9 (1.0)	0.63
Incision to surgery end	4.6 (1.7)	5.2 (2.6)	0.002
In OR to out of room	6.7 (2.1)	6.9 (1.9)	0.30
Technical success	579 (97)	132 (99)	0.15
ICU length of stay (mean, SD)	2.9 (4.1)	2.9 (3.4)	0.88
Hospital length of stay (mean, SD)	6.1 (15)	6.8 (10)	0.57





















