

Supplementary Table I. Different Endograft configurations in population

No. of target vessels	No. of patients	CME	PME	Celiac Trunk	SMA	RRA	LRA
4-target vessels (n=184)	117	X	117	Fen	Fen	Fen	Fen
	63	X	63	Scallop	Fen	Fen	Fen
	4	X	4	Scallop	Scallop	Fen	Fen
3-target vessels (n=690)	326	251	75	X	Fen	Fen/Scallop	Fen/Scallop
	337	335	2	X	Scallop	Fen/Scallop	Fen/Scallop
	15	12	3	Fen	2x Fen/Scallop in SMA/RRA/LRA		
	8	5	3	Scallop	2x Fen/Scallop in SMA/RRA/LRA		
2-target vessels (n=443)	362	360	2	X	X	Fen	Fen
	4	3	1	X	X	Fen	Scallop
	16	16	0	X	X	Scallop	Fen
	6	6	0	X	X	Scallop	Scallop
	2	2	0	Fen/Scallop	X	Fen/Scallop in either RRA/LRA	
	45	35	10	X	Fen/Scallop	Fen/Scallop in either RRA/LRA	
	8	7	1	Fen/Scallop	Fen/Scallop	X	X
1-target vessel (n=169)	1	1	0	Fen/Scallop	X	X	X
	81	79	2	X	Fen/Scallop	X	X
	47	35	12	X	X	Fen/Scallop	X
	40	39	1	X	X	X	Fen/Scallop

CME = Commercial FEVAR, PME = Physician Modified Endograft, SMA = Superior Mesenteric Artery; RRA = Right Renal Artery; LRA = Left Renal Artery; Fen = Fenestration

Supplementary Table II. Perioperative mortality and in-hospital complications following the use of commercial FEVAR versus physician modified endograft for repair of juxta-/pararenal abdominal aortic aneurysms

	PMEG (n=300) vs. Commercial FEVAR (n=1186)		
	<u>Risk-adjusted[¶] Outcomes</u>		
	Hazard Ratio	95%-Confidence Interval	p-value
Perioperative Mortality	1.24	0.51-2.97	NS
3-year Mortality	1.00	0.59-1.69	.99
<u>In-hospital Complications</u>	Odds Ratio	95%-Confidence Interval	p-value
Type-IA Endoleaks at Completion Angiogram	0.73	0.36-1.38	.35
Any Complication	1.54	1.02-2.31	.038
Pulmonary Complications	2.86	1.54-5.42	<.001
Cardiac Complication	1.24	0.59-2.52	.52
Bowel Ischemia	0.93	0.34-2.27	.87
Stroke	1.64	0.42-6.20	.46
Leg Ischemia	0.81	0.25-2.25	.70
AKI	1.65	1.17-2.30	.004
Postoperative Dialysis	1.71	0.52-5.50	.36
Spinal Cord Ischemia	1.14	0.30-3.78	.84
Reintervention/Reoperation	1.81	1.08-3.03	.024

[¶]Age, Gender, Race, Diameter, Hypertension, Diabetes, Myocardial Infarction, Congestive Heart Failure (NYHA I/II / NYHA III/IV), Smoking Status, Chronic Obstructive Pulmonary Disease, Obesity, Renal Dysfunction, Anemia, Prior Medication use (Aspirin, P2Y12-inhibitor, Statin, ACE/ARB), Prior Aortic Surgery, Aneurysm Extent (Zone 8/9), Proximal Sealing Level (Supraceliac vs. Infraceliac), Distal Sealing Zone, Low Center volume, Low Physician volume