

Supplementary Table S4. Comparison of vascular morphology for women and men without propensity score matching for cardiovascular risk factors. Measurements generated using fully automated volume segmentation.

	Women (n=145)	Men (n=1310)	p-value
AAA Neck – mm			
Neck Diameter	22.55 [20.38, 25.68]	24.57 [22.47, 27.41]	<.001
Maximum Neck Diameter	27.72 [25.10, 31.97]	29.77 [27.19, 33.23]	<.001
Minimum Neck Diameter	20.80 [18.97, 23.30]	22.74 [20.85, 25.36]	<.001
Neck Length	23.79 [13.79, 33.74]	28.43 [17.74, 40.63]	<.001
Infrarenal Neck Angle*	35.72 [27.70, 47.26]	32.55 [24.72, 41.59]	<.001
Vessel Diameters – mm			
Coeliac Artery	6.50 [5.39, 7.35]	7.06 [6.19, 8.10]	<.001
Superior Mesenteric Artery	5.80 [4.83, 6.72]	6.94 [6.11, 7.81]	<.001
Left Renal Artery	4.55 [3.71, 5.34]	4.96 [4.29, 5.75]	<.001
Right Renal Artery	4.13 [3.55, 4.89]	4.71 [4.07, 5.41]	<.001
Left CIA	11.90 [10.33, 13.47]	14.38 [12.61, 17.11]	<.001
Right CIA	12.66 [10.81, 15.58]	14.88 [13.08, 17.51]	<.001
Left EIA	7.35 [6.53, 7.98]	9.14 [8.17, 10.17]	<.001
Right EIA	7.34 [6.46, 7.86]	9.11 [8.11, 10.09]	<.001
Left IIA	6.47 [5.33, 7.96]	7.69 [6.44, 9.16]	<.001
Right IIA	6.77 [5.85, 8.10]	7.74 [6.53, 9.11]	<.001
CIA Stenosis – %			
Right CIA	14.34 [10.43, 20.80]	14.28 [10.33, 18.86]	.313
Left CIA	12.49 [8.73, 17.95]	12.29 [8.71, 16.67]	.819

Tortuosity Index			
Thoracic Aorta	1.19 [1.02, 1.34]	1.21 [1.03, 1.30]	.884
Neck	1.01 [1.00, 1.02]	1.01 [1.00, 1.02]	.767
Coeliac Artery	1.04 [1.01, 1.11]	1.05 [1.01, 1.10]	.988
Superior Mesenteric Artery	1.05 [1.02, 1.10]	1.04 [1.02, 1.07]	.007
Left Renal Artery	1.11 [1.04, 1.23]	1.08 [1.04, 1.17]	.076
Right Renal Artery	1.12 [1.06, 1.19]	1.10 [1.05, 1.17]	.025
Infrarenal Aorta	1.10 [1.07, 1.15]	1.08 [1.05, 1.11]	<.001
Left CIA	1.07 [1.03, 1.14]	1.07 [1.03, 1.14]	.554
Right CIA	1.05 [1.03, 1.10]	1.07 [1.03, 1.13]	.003
Left EIA	1.12 [1.08, 1.20]	1.15 [1.10, 1.22]	<.001
Right EIA	1.16 [1.10, 1.25]	1.19 [1.12, 1.28]	.010
Left IIA	1.12 [1.06, 1.20]	1.12 [1.06, 1.23]	.548
Right IIA	1.10 [1.05, 1.19]	1.10 [1.05, 1.18]	.375
Calcification** – cm³			
Neck	0.04 [0.01, 0.17]	0.04 [0.00, 0.18]	.938
Left Renal Artery	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	.321
Right Renal Artery	0.00 [0.00, 0.01]	0.00 [0.00, 0.00]	.007
Left CIA	0.21 [0.09, 0.42]	0.24 [0.08, 0.47]	.617
Right CIA	0.25 [0.10, 0.48]	0.26 [0.10, 0.54]	.524
Left IIA	0.05 [0.00, 0.12]	0.05 [0.00, 0.15]	.468
Right IIA	0.03 [0.00, 0.11]	0.03 [0.00, 0.11]	.925

*Data presented as median [interquartile range] . Abbreviations: CIA – common iliac artery, EIA – external iliac artery, IIA – internal iliac artery, AAA –abdominal aortic aneurysm, IQR – Interquartile Range. * – Neck angle data presented in degrees. ** Calcification data presented for vessels where segmentation was successful le for >90% of scans.*