

Supplement 1. Univariate and multiple linear regression analysis of carotid IMT, right arm arterial IMTs, and left ventricular mass

Common carotid	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	67.0	<0.001	49.7	0.002
CoA Surgery	40.0	0.053	15.6	0.292
CoA Stent	80.1	<0.001	67.5	<0.001
Right arm systolic BP	2.2	<0.001	1.6	0.007
BMI z-score	27.6	0.002	15.0	0.044
Age	6.7	0.110	-0.1	0.972
Gender (Male)	37.5	0.030	5.2	0.720
Right brachial	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	19.0	0.038	-2.7	0.749
CoA Surgery	3.4	0.729	4.1	0.639
CoA Stented	16.4	0.106	-9.0	0.312
Right arm systolic BP	1.39	<0.001	1.0	0.003
BMI z-score	13.0	0.007	7.7	0.071
Age	7.3	0.001	4.4	0.035
Gender (Male)	29.1	0.002	14.8	0.088

Right radial	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	19.8	0.003	5.8	0.278
CoA Surgery	16.4	0.031	9.5	0.102
CoA Stent	15.8	0.032	3.6	0.516
Right arm systolic BP	1.1	0.001	0.6	0.004
BMI z-score	2.9	0.482	-4.0	0.190
Age	6.2	<0.001	3.5	0.008
Gender (Male)	33.2	<0.001	24.7	<0.001
Right ulnar	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	6.6	0.375	-3.3	0.656
CoA Surgery	2.1	0.792	-1.3	0.866
CoA Stent	14.5	0.079	4.8	0.533
Right arm systolic BP	0.5	0.078	0.1	0.660
BMI z-score	2.9	0.484	-0.04	0.992
Age	4.5	0.015	2.7	0.132
Gender (Male)	33.9	<0.001	31.0	<0.001

Left ventricle	Unadjusted mass		Adjusted mass	
	Beta	p-value	Beta	p-value
CoA All	25.3	0.025	2.8	0.774
CoA Surgery	-1.6	0.900	-13.6	0.180
CoA Stent	47.7	<0.001	25.9	0.013

Left ventricle	Unadjusted mass		Adjusted mass	
Right arm systolic BP	1.5	<0.001	0.7	0.068
BMI z-score	21.1	<0.001	14.6	0.003
Age	11.4	<0.001	8.1	0.001
Gender (Male)	43.7	<0.001	27.2	0.006

IMT, intima-media thickness; CoA, coarctation of the aorta; BP, blood pressure; BMI, body mass index; Beta, regression coefficient. The unit is micrometer for IMT, mmHg for BP, gram for LV-mass and years for age. CoA All, CoA surgery, and CoA stent adjusted for right arm systolic BP, BMI z-score, age and gender. Right arm systolic BP, BMI z-score, age and gender adjusted for CoA, right arm systolic BP, BMI z-score, age and gender as appropriate.

Supplement 2. Univariate and multiple regression analyses of left arm arterial IMT

Left brachial	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	-19.4	0.009	-22.3	0.001
CoA Subclavian flap	-37.0	<0.001	-33.0	<0.001
CoA Stent	0.7	0.993	-12.0	0.081
Left arm systolic BP	1.5	<0.001	0.9	0.001
BMI z-score	12.6	0.001	6.7	0.046
Age	5.1	0.007	4.1	0.006
Gender (Male)	19.4	0.015	17.5	0.005
Left radial	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	-10.2	0.111	-11.6	0.047
CoA Subclavian flap	-20.7	0.005	-19.2	0.023
CoA Stent	5.5	0.445	-2.8	0.657
Left arm systolic BP	0.9	<0.001	0.7	0.004
BMI z-score	3.7	0.296	-1.7	0.599
Age	4.4	0.007	3.1	0.028
Gender (Male)	22.7	0.001	21.1	0.001
Left ulnar	Unadjusted IMT		Adjusted IMT	
	Beta	p-value	Beta	p-value
CoA All	-12.5	0.153	-15.5	0.096
CoA Subclavian flap	-18.8	0.064	-30.6	0.021
CoA Stent	6.0	0.542	3.5	0.727
Left arm systolic BP	0.4	0.286	0.4	0.381
BMI z-score	-4.3	0.366	-7.3	0.150
Age	2.1	0.354	1.4	0.533
Gender (Male)	21.8	0.019	25.3	0.008

IMT, intima-media thickness; CoA, coarctation of the aorta; BP, blood pressure; BMI, body mass index; Beta, regression coefficient. The unit is micrometer for IMT, mmHg for BP and years for age. CoA All, CoA subclavian flap and CoA stent adjusted for left arm systolic BP, BMI z-score, age and gender. Left arm systolic BP, BMI z-score, age and gender adjusted for CoA, left arm systolic BP, BMI z-score, age and gender as appropriate.