

Supplementary Table 1. Baseline characteristics, atheroma change, pulse wave analysis and aortic strain analysis data according to sex

Atheroma change	Total (N=131)	Male (N=92)	Female (N=39)	P value
Clinical characteristics				
Age, years	62.0 [54.5;70.0]	61.0 [53.0;69.0]	65.0 [57.5;73.0]	0.136
Height, cm	165.0 [158.0;170.0]	169.0 [164.0;171.5]	154.0 [150.0;160.0]	<0.001
Weight, kg	66.0 [58.0;73.0]	69.0 [62.0;76.0]	57.0 [52.0;65.5]	<0.001
Body mass index, kg/m ²	24.3 [22.0;26.8]	24.2 [22.1;26.2]	24.8 [21.6;27.4]	0.921
Follow up, month	23.6 [20.8;26.8]	23.7 [20.6;27.2]	23.6 [21.3;26.0]	0.852
Comorbidity, n (%)				
AF	19 (14.5%)	16 (17.4%)	3 (7.7%)	0.242
HTN	92 (70.2%)	66 (71.7%)	26 (66.7%)	0.710
DM	44 (33.6%)	30 (32.6%)	14 (35.9%)	0.871
PAOD	4 (3.1%)	4 (4.3%)	0 (0.0%)	0.317
CAD	2 (1.5%)	1 (1.1%)	1 (2.6%)	0.508
Lipid profile				
LDL, mg/dL	105.0 [81.0;132.0]	105.0 [79.0;130.5]	103.0 [89.5;137.5]	0.601
FU LDL, mg/dL	66.0 [56.0;76.0]	66.0 [55.0;76.5]	65.0 [57.5;75.5]	0.906
ΔLDL, mg/dL	-42.0 [-64.0;-10.5]	-43.0 [-64.0;-9.5]	-40.0 [-66.0;-14.5]	0.233
Atheroma change				
Atheroma size, mm				
Maximal, base	4.1 [3.5; 5.4]	4.1 [3.5; 5.4]	3.7 [3.3; 5.1]	0.281
Maximal, FU	4.0 [3.3; 5.5]	4.0 [3.2; 5.3]	4.1 [3.5; 5.8]	0.546
Δ maximal	0.0 [-0.4; 0.2]	-0.2 [-0.5; 0.1]	0.1 [-0.1; 0.8]	0.001
Baseline atheroma grade, n (%)				
- Complex	18 (13.7%)	16 (17.4%)	2 (5.1%)	0.113
- Severe	26 (19.8%)	17 (18.5%)	9 (23.1%)	0.716
- Moderate	66 (50.4%)	46 (50.0%)	20 (51.3%)	0.999
- Mild	21 (16.0%)	13 (14.1%)	8 (20.5%)	0.516
FU atheroma grade, n (%)				
- Complex	20 (15.3%)	14 (15.2%)	6 (15.4%)	0.999
- Severe	23 (17.6%)	15 (16.3%)	8 (20.5%)	0.743
- Moderate	65 (49.6%)	45 (48.9%)	20 (51.3%)	0.955
- Mild	22 (16.8%)	17 (18.5%)	5 (12.8%)	0.592
- No	1 (0.8%)	1 (1.1%)	0 (0.0%)	0.999
Pulse wave analysis				
Radial BP, mmHg				

Atheroma change	Total (N=131)	Male (N=92)	Female (N=39)	P value
Systolic	152.5 [135.0;161.0]	147.5 [135.0;161.0]	154.0 [138.5;160.0]	0.614
Diastolic	81.5 [77.0;90.0]	82.0 [77.0;91.0]	81.5 [76.5;86.0]	0.532
MP	107.0 [100.0;114.0]	107.0 [101.0;113.0]	108.0 [94.5;114.0]	0.428
PP	72.0 [51.0;87.0]	70.0 [50.0;91.0]	73.0 [63.0;84.0]	0.878
Aortic BP, mmHg				
Systolic	141.5 [126.0;153.0]	139.0 [126.0;153.0]	148.0 [125.0;154.0]	0.959
Diastolic	84.0 [79.0;91.0]	84.0 [79.0;92.0]	83.0 [77.5;87.5]	0.526
MP	107.0 [100.0;114.0]	107.0 [101.0;113.0]	108.0 [94.5;114.0]	0.421
PP	62.0 [45.0;76.0]	59.5 [44.0;79.0]	63.5 [54.5;71.5]	0.768
AIx@75, %	31.0 [26.0;34.0]	29.0 [26.0;33.0]	32.5 [29.0;39.0]	0.068
ED, m/s	34.0 [32.0;38.0]	34.0 [32.0;37.0]	35.5 [33.0;40.5]	0.387
SEVR, %	147.0 [132.0;168.0]	152.5 [136.0;171.0]	139.5 [123.5;154.0]	0.089
PWV, m/s	9.5 [8.3;11.3]	9.9 [8.3;11.8]	9.1 [8.4; 9.8]	0.084
Operator index	98.5 [96.0;100.0]	98.0 [96.0;100.0]	100.0 [94.0;100.0]	0.691
Aorta strain				
GCAS, %	5.1 [3.9; 6.6]	5.2 [4.0; 6.8]	4.4 [3.8; 6.3]	0.224
Corrected GCAS, %	0.1 [0.1; 0.1]	0.1 [0.1; 0.1]	0.1 [0.1; 0.1]	0.145
FAC, %	8.0 [6.0;10.0]	7.0 [6.0; 9.0]	8.0 [6.0;10.0]	0.226
β	10.2 [6.9;15.9]	10.0 [6.8;14.1]	12.1 [8.2;16.8]	0.240
Aortic distensibility, cm ² /dyn	16.9 [12.0;25.9]	18.0 [12.7;27.7]	14.6 [11.0;22.6]	0.145

AF, atrial fibrillation; AIx@75, augmentation index adjusted to a heart rate of 75 beats per minute; BP, blood pressure; β, aortic stiffness index; CAD, coronary artery disease; DM, diabetes mellitus; ED, ejection duration; FAC, fractional area change; FU, follow up; GCAS, global circumferential strain; LDL, low-density lipoprotein; MP, mean pressure; PAOD, peripheral artery occlusive disease; PP, pulse pressure; PWV, pulse wave velocity SEVR, subendocardial viability ratio

Delta values are calculated between baseline and follow-up value

Supplementary Figure 1. Representative 2D-GCAS curves. Peak values of GCAS in each color-coded curve were measured and GCAS was calculated as the mean of 6 peak values. This patient had a GCAS of 5.86%. 2D, two-dimensional; GCAS, global circumferential aortic strain.

