

Supplementary table 1. Vasoreactivity test according to intra-aortic pulse pressure

	Low Aortic PP (N=856)	High Aortic PP (N=1038)	p-value
<b>Coronary Flow Reserve</b>	3.1 ± 0.8	2.8 ± 0.7	<0.001
<b>Base APV, cm/sec</b>	23.5 ± 8.3	26.6 ± 10.3	<0.001
<b>Hyperemic APV, cm/sec</b>	70.2 ± 20.8	70.9 ± 21.7	<0.001
<b>BMR, mmHg x sec/cm<sup>3</sup></b>	4.3 ± 1.5	4.2 ± 1.6	0.743
<b>HMR, mmHg x sec/cm<sup>3</sup></b>	1.4 ± 0.5	1.6 ± 0.6	<0.001
<b>Change in CAD in response NTG, mm</b>	0.3 ± 0.4	0.2 ± 0.4	<0.001
<b>Percent change in CAD in response NTG, %</b>	10.4 ± 14.3	9.1 ± 15.0	0.064
<b>Percent change in CAD in response to Ach, %</b>	-13.4 ± 21.3	-11.9 ± 19.5	0.113
<b>Percent change in CBF in response to Ach, %</b>	62.4 ± 97.3	57.8 ± 95.8	0.294
<b>Abnormal CFR (&lt; 2.5)</b>	156 (18.2)	330 (31.8)	<0.001
<b>Abnormal HMR (&gt;2.0 mmHg/cm/sec)</b>	86 (11.1)	176 (18.7)	<0.001
<b>CMEID</b>	216 (25.2)	425 (40.9)	<0.001
<b>CMED</b>	437 (51.1)	559 (53.9)	0.242
<b>CMD</b>	528 (61.7)	727 (70.0)	<0.001
<b>Epicardial endothelial dysfunction</b>	267 (31.2)	299 (28.8)	0.281

Continuous variables were expressed in mean±SD as indicated CFR, coronary flow reserve; HMR, hyperemic microvascular resistance; BMR, baseline microvascular resistance; % Δ CAD NTG, Percentage change in coronary artery diameter in response to nitroglycerine; % Δ CAD Ach, Percentage change in coronary artery diameter in response to acetylcholine (Ach); % Δ CBF Ach, Percentage change in coronary artery blood flow in response to Acetylcholine; CMEID, coronary microvascular endothelial independent dysfunction (CFR Abnormal CFR or HMR induced by adenosine); CMED; coronary microvascular endothelial dependent dysfunction (CBF≤50 % change CBF in response to Ach), CMD; coronary microvascular dysfunction (CMED or CMEID); Epicardial endothelial dysfunction: percent decrease in CAD of ≥ 20% in response to a maximum dose of Ach

Supplementary table 2. Determinants of CMED

Variables	Univariate analysis			Multivariate analysis		
	OR	95% CI	P value	OR	95% CI	P value
<b>Aortic PP (<math>\geq 50</math> mmHg)</b>	1.12	0.93-1.34	0.224	1.06	0.86-1.30	0.605
<b>Old age (<math>\geq 60</math> years old)</b>	0.91	0.75-1.10	0.323	1.43	1.12-1.83	0.005
<b>Female sex</b>	1.38	1.12-1.71	0.003	0.84	0.68-1.03	0.093
<b>Body mass index <math>\geq 30</math> kg/m<sup>2</sup></b>	1.39	1.16-1.68	0.005	1.40	1.16-1.71	0.001
<b>Hypertension</b>	1.06	0.88-1.27	0.528	0.93	0.76-1.15	0.515
<b>Diabetes mellitus</b>	1.36	1.01-1.82	0.042	1.23	0.91-1.68	0.184
<b>Dyslipidemia</b>	1.03	0.86-1.23	0.756	0.92	0.75-1.12	0.384
<b>Renal dysfunction (eGFR <math>&lt; 60</math> mL/min/1.73m<sup>2</sup>)</b>	1.06	0.82-1.38	0.656	0.90	0.68-1.20	0.476
<b>Current smoking</b>	0.62	0.47-0.82	$< 0.001$	0.64	0.48-0.85	0.002

OR, odds ratio, CI, confidence interval; PP, pulse pressure; GFR, glomerular filtration rate