

Table 1 Demographic characteristics and cardiovascular risk factors according to sex

	All (n=456)	men (n=265)	women (n=191)	P value
Age (years)	61±13	61±13	62±12	0.23
Body mass index (kg/m ²)	24±4	24±4	23±3	0.19
Current smoking, n (%)	125 (27)	112 (42)	13 (7)	<0.01
Hypertension, n (%)	263 (58)	158 (60)	105 (55)	0.32
Dyslipidemia, n (%)	216 (84)	117 (44)	99 (52)	0.11
Diabetes mellitus, n (%)	178 (39)	110 (42)	68 (36)	0.2
Systolic blood pressure (mmHg)	129±19	129±18	129±20	0.32
Diastolic blood pressure (mmHg)	75±10	76±10	74±11	0.22
Total cholesterol (mg/dl)	192±37	185±35	201±38	<0.01
Triglycerides (mg/dl)	107 [70]	110 [82]	102 [60]	0.28
HDL cholesterol (mg/dl)	58±17	54±16	62±18	<0.01
LDL cholesterol (mg/dl)	115±30	111±30	120±30	<0.01
HemoglobinA1c (%)	6.6±1.7	6.6±1.6	6.5±1.8	0.67
Creatinine (mg/dl)	0.73±0.13	0.80±0.10	0.62±0.10	<0.01
eGFR (mL/min/1.73m ²)	78±13	78±14	77±12	0.14
Cystatin C (mg/l)	0.91 [0.22]	0.96 [0.23]	0.88 [0.18]	<0.01
Agatston score	8 [146]	24 [219]	0 [53]	<0.01
Medications				
ACEIs or ARBs, n (%)	148 (32)	89 (34)	59 (31)	0.57
β-blocker, n (%)	83 (18)	52 (20)	31 (16)	0.37
Calcium channel blockers, n (%)	120 (26)	72 (27)	48 (25)	0.65

Statins, n (%)	122 (27)	61 (12)	61 (32)	0.03
Hypoglycemic agents, n (%)	130 (29)	82 (31)	48 (25)	0.18

Values are mean \pm SD, n (%), or median [interquartile range].

eGFR, estimated glomerular filtration rate; ACEI, angiotensin-converting enzyme inhibitor, ARB;

angiotensin II receptor blocker. p value, men versus women.

Table 2 Demographic characteristics according to the Agatston score

	All	Mild CAC	Moderate CAC	Severe CAC
		0-9	10-399	≥ 400
	(n=456)	(n=235)	(n=157)	(n=64)
Age (years)	61±13	56±14	65±10 *	71±7 *,†
Men, n (%)	265 (58)	117 (50)	98 (62) *	50 (78) *,†
Body mass index (kg/m ²)	24±4	23±4	24±4	23±3
Smoking, n (%)	125 (27)	69 (29)	38 (27)	18 (28)
Hypertension, n (%)	263 (58)	119 (51)	106 (68) *	38 (59)
Dyslipidemia, n (%)	216 (84)	99 (42)	87 (55) *	30 (47)
Diabetes mellitus, n (%)	178 (39)	72 (31)	70 (45) *	36 (56) *
Total cholesterol (mg/dl)	192±37	193±35	192±40	186±37
Systolic blood pressure (mmHg)	129±19	129±18	128±20	130±19
Diastolic blood pressure (mmHg)	75±10	76±10	74±11	75±10
Triglycerides (mg/dl)	107 [70]	105 [68]	107 [74]	108 [73]
HDL cholesterol (mg/dl)	58±17	59±17	55±17	60±18
LDL cholesterol (mg/dl)	115±30	116±29	116±31	107±31
Hemoglobin A1c (%)	6.6±1.7	6.5±1.9	6.7±1.7	6.6±1.0
Creatinine (mg/dl)	0.73±0.13	0.72±0.14	0.73±0.14	0.75±0.11
eGFR (mL/min/1.73m ²)	78±13	78±14	77±12	75±12
Cystatin C (mg/l)	0.91 [0.22]	0.89 [0.22]	0.94 [0.21]	0.97 [0.16] *
Medications				
ACEI or ARB, n (%)	148 (32)	61 (26)	62 (39) *	25 (39) *

β-blockers, n (%)	83 (18)	48 (20)	30 (19)	5 (8) *,†
Calcium channel blocker, n (%)	120 (26)	44 (19)	51 (32) *	25 (39) *
Statin, n (%)	122 (27)	51 (22)	53 (34) *	18 (28)
Hypoglycemic agents, n (%)	130 (29)	57 (24)	47 (30)	26 (41) *

Values are mean ± SD, n (%), or median [interquartile range].

eGFR, estimated glomerular filtration rate; ACEI, angiotensin-converting enzyme inhibitor, ARB; angiotensin II receptor blocker.

*p<0.05 versus CAC of 0–9, †p<0.05 versus CAC of 10–399.

Table 3 Multivariate predictors of severe CAC ≥ 400 in men and women with preserved renal function

	All (n=456)				Men (n=265)				Women (n=191)			
	Univariate		Multivariate		Univariate		Multivariate		Univariate		Multivariate	
	OR(95%CI)	P value	OR(95%CI)	P value	OR (95%CI)	P value	OR(95%CI)	P value	OR(95%CI)	P value	OR(95%CI)	P value
Cystatin C (\geq cutoff value)	2.49 (1.33-4.65)	<0.01	1.29 (0.63-2.60)	0.49	4.04 (0.94-17.49)	0.06	2.96 (0.62-14.15)	0.2	6.95 (1.51-31.976)	0.01	7.80 (1.76-34.6)	<0.01
Sex (men=1)	2.94 (1.57-5.50)	<0.01	3.10 (1.46-6.56)	<0.01								
Hypertension	1.09 (0.63-1.86)	0.77	0.73(0.38-1.40)	0.34	0.83 (0.44-1.55)	0.56	0.50(0.24-1.0)	0.1	2.16 (0.65-7.14)	0.21	1.74(0.28-10.73)	0.6
Dyslipidemia	0.98 (0.58-1.66)	0.93	1.25(0.58-2.69)	0.56	0.73 (0.39-1.38)	0.73	0.67(0.26-17.67)	0.4	3.71 (1.00-13.75)	0.05	9.45 (0.97-91.99)	0.1
Diabetes Mellitus	2.26 (1.33-3.88)	<0.01	2.36(1.27-4.39)	<0.01	2.29 (1.22-4.27)	0.01	2.90(1.39-6.02)	<0.01	1.90 (0.64-5.67)	0.25	1.35 (0.33-5.51)	0.7
Smoking	1.12 (0.61-2.04)	0.71	0.77(0.39-1.53)	0.77	0.78 (0.41-1.49)	0.45	0.80(0.39-1.64)	0.5	N/A	N/A	N/A	N/A
Age (>65)	4.97 (2.66-9.28)	<0.01	4.67(2.33-9.38)	<0.01	5.34 (2.64-10.82)	<0.01	4.96 (2.24-10.84)	<0.01	6.64 (1.45-30.54)	0.01	2.60 (0.44-15.23)	0.3

Statin use	1.09 (0.60- 1.98)	0.78	0.82 (0.35- 1.93)	0.66	0.96 (0.46- 2.02)	0.91	1.22 (0.40- 3.69)	0.7	2.11 (0.71- 6.32)	0.18	0.80 (0.18- 3.60)	0.8
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Cutoff values in all patients, men, and women were 0.88, 0.78, and 0.97 mg/dl, respectively.

N/A, not available