

Supplementary material

Oleksiak A, Kępka C, Rucińska K, et al. Hemoglobin level as a predictor of major adverse cardiac events during a long-term follow-up in patients with coronary artery disease. *Pol Arch Intern Med.* 2022; 132: 16377. doi:10.20452/pamw.16377

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Supplementary Table S1.

The patients characteristics.

Parameter	Value (n=300)
Clinical characteristics:	
Age (years)	66 (8)
Sex (male)	191 (64%)
BMI (kg/m ²)	27.5 (24.7-30.7)
CKD G3a	6 (2%)
CKD G3b	40 (13%)
Stroke *	16 (5%)
CAD risk factors:	
Hypertension	257 (86%)
Dyslipidemia**	203 (68%)
Diabetes	74 (25%)
Family history	51 (17%)
Smoking - current	46 (15%)
Smoking – in the past	42 (14%)
Medications:	
Beta-blocker	207 (69%)
Statin	180 (60%)
Other lipid-lowering drugs	23 (8%)
ACEi	99 (33%)
ARB	89 (30%)
Calcium antagonist	106 (35%)

Diuretic - any	98 (33%)
Metformin	55 (18%)
Acetylsalicylid acid	143 (48%)

Values are mean (SD), n (%) or median (IQR).

* 2 hemorrhagic strokes, 1 transient ischemic attack, 13 ischemic strokes

**dyslipidemia diagnosis in the medical records at the day of CTCA

Abbreviations: ACEi, angiotensin converting enzyme inhibitor, ARB, angiotensin receptor blocker, BMI, body mass index, CAD, coronary artery disease, CASC, coronary artery calcium score, CKD, chronic kidney disease, CTCA, computed tomography coronary angiography, IQR interquartile range, SD, standard deviation

Supplementary Table S2

Laboratory results.

Parameter	Women (n=109)*	Men (n=191)*	P value
Hemoglobin (g/dl)	13.5 (12.6-14.0)	14.7 (14.0-15.5)	<0.001
Iron (µg/dl)	87.5 (70.5-113.6)	100.9 (82.3-119.9)	0.01
Vitamin B12 (pg/ml)	365.7 (285.0-489.2)	354.7 (274.3-464.0)	0.37
Folic acid (ng/ml)	6.8 (4.8-10.2)	6.8 (5.1-9.5)	0.81
Creatinine (mg/dl)	0.8 (0.7-0.9)	1.0 (0.9-1.1)	<0.001
LDL (mg/dl)	100.0 (73.0-131.3)	85.0 (66.0-112.0)	0.005
HDL (mg/dl)	57.6 (50.0-70.5)	48.0 (41.0-57.0)	<0.001
Total cholesterol (mg/dl)	174.5 (143.0-204.0)	152.0 (128.0-174.0)	<0.001
Trigliceryde (mg/dl)	112.5 (83.0-161.0)	114.0 (88.0-162.0)	0.46
hsCRP (mg/dl)	0.14 (0.07-0.25)	0.15 (0.08-0.29)	0.24

* Presented median (IQR).

Abbreviations: LDL low density lipoprotein, HDL high density lipoprotein, hsCRP high sensitivity C-reactive protein.

Supplementary Table S3

Results of regression analysis for major adverse cardiac events prediction in the study population (n=300).

Parameter	UNIVARIABLE		MULTIVARIABLE	
	HR (95%CI)	P value	HR (95%CI)	P value
Male sex	0.98 (0.46-2.09)	0.98		
Age (years)	1.00 (0.98-1.02)	0.83		
Dyslipidemia	1.14 (0.48-2.69)	0.76		
Hypertension	0.96 (0.51-1.84)	0.91		
Smoking (current)	0.56 (0.17-1.85)	0.34		
Family history of CAD	0.62 (0.21-1.81)	0.38		
hs-CRP	1.00 (0.98-1.03)	0.74		
Hemoglobin	0.69 (0.53-0.88)	0.003	0.73 (0.54-0.97)	0.03
RDW-CV	1.44 (1.13-1.84)	0.004	1.14 (0.86-1.49)	0.36
Fibrous plaque (%)	0.94 (0.90-0.99)	0.01	0.94 (0.86-1.02)	0.14
Noncalcified plaque (%)	0.95 (0.93-1.00)	0.03	0.97 (0.89-1.06)	0.57
Dense calcium (%)	1.03 (1.01-1.05)	0.01	0.99 (0.92-1.07)	0.90

Abbreviations: CAD, coronary artery disease, hs-CRP, high-sensitivity C-reactive protein, RDW-CV

Red Cell Distribution Width