

Supplementary material

Siniarski A, Baker SR, Stępień K, et al. Left atrial size and volume are associated with fibrin clot ultrastructure in patients with acute myocardial infarction. *Pol Arch Intern Med.* 2023; 133: 16625. doi:10.20452/pamw.16625

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Table S1. Study group clinical characteristics

Variable	
Age, yrs	64 (57-78)
Male gender, %	12 (57)
STEMI, %	8 (38)
BMI, kg/m ²	27.3 (25.20-30.42)
Obesity, %	11 (52)
Previous MI, %	7 (33)
Smoking, %	8 (38)
Diabetes, %	9 (43)
CKD, %	3 (14)
Hypercholesterolemia, %	21 (100)
Hypertension, %	20 (95)
Hypertriglyceridemia, %	2 (9.5)
Medications	
ASA, %	21 (100)
B-blocker, %	18 (86)
ACEI, %	17 (81)
ARB, %	3 (14)
Statin, %	19 (90)
Laboratory investigation	
Fibrinogen, g/L	3.85 (3.34-4.29)
Total cholesterol, mmol/L	5.08 (4.31-5.77)
LDL-C, mmol/L	3.37 (2.62-3.87)
HDL-C, mmol/L	1.5 (1.09-1.82)
TG, mmol/L	1.1 (0.87-1.75)
ALT, U/L	28.5 (23-41)
hsCRP, mg/L	4.7 (1.62-19.25)
hsTnT, ng/mL	1.17 (0.07-4.25)
Glucose, mmol/L	6.20 (5.60-11.70)

Data shown as median and interquartile range or number (percentage). **Abbreviations:** ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; ASA, acetylsalicylic acid; BMI, body mass index; CKD, chronic kidney disease; HDL-C, high-density lipoprotein cholesterol; hsCRP, high-sensitivity C-reactive protein; hsTnT, high-sensitivity troponin T; LDL-C, low-density lipoprotein cholesterol; STEMI, ST-elevation myocardial infarction; TG, triglycerides.

Table S2. Echocardiographic evaluation of the studied group.

LA diameter, mm	44 (38-49)
LA area, cm ²	23 (19-27)
LAV, mL	212 ± 79
LAVI, ml/m ²	111.8 ± 39.8
Maximal E wave, m/s	0.75 (0.63-0.95)
Mean mitral gradient, mmHg	0.95 (0.80-1.05)
E/A	0.95 (0.7-1.2)
Deceleration time, ms	213 (186-247)
LVEDV, mL	135 (117-171)
LVEF, %	45 (40-55)

Data shown as mean ± SD or median and IQR. Abbreviations: LA, left atrium; LAV, left atrial volume; LAVI, left atrial volume index; LVEDV, left ventricular end-diastolic volume; LVEF, left ventricle ejection fraction.

Table S3. Clot formation and breakdown evaluation.

Fibers per 100 um	26.8 ± 2.46
Fiber size, nm	120.7 (112.7-137.0)
Pore size (Ks), × 10 ⁻⁹ cm ²	34.2 ± 16.1
Max OD, AU	0.47 ± 0.14
Lag time, s	322.4 ± 137.3
Time to Max OD, s	4889 ± 873.6
Average rate of clotting, ΔOD/s	0.94 ± 0.34
Maximum rate of clotting, ΔOD/s	1.14 ± 0.37
Time from Max OD to maximum rate of lysis, s	4784 ± 1039
Time to 25% lysis, s	3692 (2784-4146)
Time to 50% lysis, s	4656 (3832-4890)
Time to 75% lysis, s	5404 (4728-5746)

Data shown as mean ± SD or median and IQR. Abbreviations: AMI, acute myocardial infarction; FGN, fibrinogen; SD, standard deviation; IQR, interquartile range; Max OD, maximum absorbance.