

Table S1 Baseline characteristics of subgroups based on LVEF and segmental LGE for patients treated by CTO-PCI

Characteristics	LVEF $\geq$ 50%		LVEF <50%		P value
	Segmental LGE >50% (n=14)	Segmental LGE $\leq$ 50% (n=38)	Segmental LGE >50% (n=10)	Segmental LGE $\leq$ 50% (n=9)	
Age	54.43 $\pm$ 10.09	87.589 $\pm$ 10.94	61.00 $\pm$ 10.67	52.44 $\pm$ 9.71	0.25
Male	11 (78.6)	29 (76.3)	8 (80.0)	9 (100.0)	0.53
Smoking	10 (71.4)	17 (44.7)	6 (60.0)	5 (55.6)	0.36
Hypertension	8 (57.1)	20 (52.6)	9 (90.0)	5 (55.6)	0.20
Diabetes	5 (35.7)	9 (23.7)	3 (30.0)	2 (22.2)	0.82
Hyperlipidemia	6 (42.9)	20 (52.6)	2 (20.0)	3 (33.3)	0.29
PCI history	6 (42.9)	11 (28.9)	3 (30.0)	1 (11.1)	0.49
OMI history	7 (50.0)	3 (7.9)	3 (30.0)	1 (11.1)	0.005**
TC (mmol/L)	4.09 $\pm$ 1.26	3.85 $\pm$ 0.87	3.47 $\pm$ 0.76	4.08 $\pm$ 0.85	0.40
TG (mmol/L)	1.61 $\pm$ 0.67	1.78 $\pm$ 1.46	1.60 $\pm$ 0.80	2.01 $\pm$ 1.46	0.68
LDL (mmol/L)	2.56 $\pm$ 1.09	2.07 $\pm$ 0.77	2.06 $\pm$ 0.80	2.50 $\pm$ 0.55	0.19
HDL (mmol/L)	0.97 $\pm$ 0.17	1.10 $\pm$ 0.20	0.92 $\pm$ 0.26	0.91 $\pm$ 0.16	0.015*
Cre (μ mol/L)	76.47 $\pm$ 31.90	73.39 $\pm$ 15.28	74.74 $\pm$ 13.93	73.96 $\pm$ 8.39	0.97
eGFR	104.19 $\pm$ 29.19	105.34 $\pm$ 34.24	104.94 $\pm$ 14.85	111.89 $\pm$ 19.16	0.95
BNP (pg/mL)	42.14 $\pm$ 26.19	44.84 $\pm$ 40.52	97.00 $\pm$ 78.87	57.63 $\pm$ 56.96	0.61
cTNI (ng/mL)	0.13 $\pm$ 0.03	0.012 $\pm$ 0.04	0.03 $\pm$ 0.04	0.02 $\pm$ 0.04	0.44
CKMB (ng/mL)	1.75 $\pm$ 1.8	1.98 $\pm$ 2.26	1.79 $\pm$ 0.85	2.7 $\pm$ 3.88	0.65
ACEI	6 (42.9)	11 (28.9)	6 (60.0)	4 (44.4)	0.30
Beta blocker	11 (78.6)	28 (73.7)	8 (80.0)	7 (77.8)	>0.99
CTO artery					0.79
LAD	7 (50.0)	14 (36.8)	4 (40.0)	3 (33.3)	
LCX	2 (14.3)	3 (7.9)	2 (20.0)	1 (11.1)	
RCA	5 (35.7)	21 (55.3)	4 (40.0)	5 (55.6)	
MVD	8 (57.1)	16 (42.1)	4 (40.0)	8 (88.9)	0.075
Collateral circulation grading					0.80
0	0 (0.0)	1 (2.6)	1 (10.0)	0 (0.0)	
1	2 (14.3)	2 (5.3)	1 (10.0)	1 (11.1)	
2	3 (21.4)	11 (28.9)	1 (10.0)	2 (22.2)	
3	9 (64.3)	24 (63.2)	7 (70.0)	6 (66.7)	

Values are presented as mean $\pm$ SD or n (%). **, P<0.01; *, P<0.05. ACEI, angiotensin-converting enzyme inhibitor; BNP, B-type brain natriuretic peptide; CKMB, creatine kinase isoenzyme; Cre, creatinine; cTNI, cardiac troponin I; CTO, chronic total occlusion; eGFR, estimated glomerular filtration rate; HDL, high-density lipoprotein; LAD, left anterior descending artery; LCX, left circumflex artery; LDL, low-density lipoprotein; LGE, late gadolinium enhancement; LVEF, left ventricular ejection fraction; MVD, multi-vessel disease; OMI, obsolete myocardial infarction; PCI, percutaneous coronary intervention; RCA, right coronary artery; SD, standard deviation; TC, total cholesterol; TG, triglyceride.