

Supplementary Table S1 Baseline characteristics

Characteristic	Quartile 1 (n = 997)	Quartile 2 (n = 1,003)	Quartile 3 (n = 961)	Quartile 4 (n = 982)	p-Value
Mean platelet count × 10 ⁹ /L	159 ± 21.9	205 ± 10.3	241 ± 11.7	317 ± 68.6	<0.001
Age, y	67.1 ± 11.5	64.9 ± 12.3	63.6 ± 11.9	62.9 ± 12.0	<0.001
Sex					
Female, no. (%)	129 (12.9)	211 (21.0)	253 (26.3)	345 (35.1)	<0.001
Diabetes, no. (%)	255 (25.6)	219 (21.8)	188 (19.6)	216/981 (22.0)	0.015
Insulin-treated, no. (%)	89 (8.9)	60 (6.0)	52 (5.4)	71/981 (7.2)	0.011
Current smoker, no. (%)	275/991 (27.7)	317 (31.6)	334/957 (34.9)	392/976 (40.2)	<0.001
Arterial hypertension, no. (%)	728/994 (73.2)	711 (70.9)	647/960 (67.4)	682/980 (69.6)	0.039
Hypercholesterolemia, no. (%)	613/996 (61.5)	598/1,002 (59.7)	575/959 (60.0)	523/979 (53.4)	0.001
Prior myocardial infarction, no. (%)	199/996 (20.0)	169 (16.8)	135/959 (14.1)	120 (12.2)	<0.001
Prior PCI, no. (%)	301/996 (30.2)	237 (23.6)	196/959 (20.4)	174 (17.7)	<0.001
Prior CABG, no. (%)	110/996 (11.0)	66 (6.6)	39/960 (4.1)	29 (2.9)	<0.001
Cardiogenic shock, no. (%)	17 (1.7)	14 (1.4)	15 (1.6)	18 (1.8)	0.882
Systolic blood pressure, mmHg	142 (24.1)	144 (24.9)	144 (25.3)	143 (24.5)	0.247
Diastolic blood pressure, mmHg	80.8 (13.8)	82.1 (14.3)	82.4 (14.2)	82.2 (14.3)	0.054
Heart rate, beats/min	74.8 (15.8)	75.5 (15.1)	76.7 (15.1)	78.8 (16.5)	<0.001
Body mass index, kg/m ²	28.0 (4.35)	27.9 (4.52)	27.7 (4.30)	27.6 (4.84)	0.147
Weight <60 kg, no. (%)	29 (2.9)	54 (5.4)	45 (4.7)	69 (7.1)	<0.001
Creatinine, µmol/L	92.7 (31.1)	89.8 (31.5)	86.1 (25.1)	83.3 (26.1)	<0.001
Diagnosis at admission					
Unstable angina, no. (%)	163 (16.3)	141 (14.1)	119 (12.4)	84 (8.6)	<0.001
NSTEMI, no. (%)	484 (48.5)	475 (47.4)	435 (45.3)	452 (46.0)	
STEMI, no. (%)	350 (35.1)	387 (38.6)	407 (42.4)	446 (45.4)	
Coronary angiography, no. (%)	994 (99.7)	1000 (99.7)	958 (99.7)	977 (99.5)	0.880
Treatment strategy, no. (%)					
PCI	816 (81.9)	822 (82.0)	816 (85.0)	851 (86.8)	0.028
CABG	26 (2.6)	19 (1.9)	20 (2.1)	18 (1.8)	
Conservative	154 (15.5)	161 (16.1)	124 (12.9)	111 (11.3)	

Abbreviations: CABG, coronary artery bypass grafting; NSTEMI, non-ST-elevation myocardial infarction; PCI, percutaneous coronary intervention; STEMI, ST-elevation myocardial infarction.

Note: Data are mean ± standard deviation or counts (%).

Missing continuous data:

Quartile 1 group: systolic blood pressure: 2 patients, diastolic blood pressure: 4 patients, heart rate: 1 patient, body mass index: 12 patients.

Quartile 2 group: systolic blood pressure: 1 patient, diastolic blood pressure: 5 patients, body mass index: 5 patients.

Quartile 3 group: body mass index: 7 patients.

Quartile 4 group: diastolic blood pressure: 2 patients, heart rate: 1 patient, body mass index: 7 patients.

The remaining continuous data were complete.

Supplementary Table S2 Angiographic and procedural characteristics

Characteristic	Quartile 1 (n = 994)	Quartile 2 (n = 1,000)	Quartile 3 (n = 958)	Quartile 4 (n = 977)	p-Value
Access site					
Femoral artery	619 (62.3)	635 (63.5)	601 (62.7)	620 (63.5)	0.999
Radial artery	370 (37.2)	360 (36.0)	352 (36.7)	353 (36.1)	
Other	5 (0.5)	5 (0.5)	5 (0.5)	4 (0.4)	
Number of diseased coronary arteries					
No obstructive CAD	83 (8.4)	89 (8.9)	82 (8.6)	79 (8.1)	0.013
One-vessel disease	255 (25.7)	297 (29.7)	295 (30.8)	309 (31.6)	
Two-vessel disease	250 (25.2)	266 (26.6)	260 (27.1)	273 (27.9)	
Three-vessel disease	406 (40.8)	348 (34.8)	321 (33.5)	316 (32.3)	
Left ventricular ejection fraction ^a	51.3 ± 11.4	52.1 ± 11.0	52.4 ± 10.9	51.3 ± 11.6	0.090

Abbreviation: CAD, coronary artery disease.

Note: Data are shown as counts (proportion; %) or mean ± standard deviation. Angiographic data were not available for 3 patients in the quartile 1 group, 3 patients in the quartile 2 group, 3 patients in the quartile 3 group, and 5 patients in the quartile 4 group.

^aLeft ventricular ejection fraction was not available in 69 patients in the quartile 1 group, 63 patients in the quartile 2 group, 44 patients in the quartile 3 group, and 43 patients in the quartile 4 group.

Supplementary Table S3 Procedural characteristics

Characteristic	Quartile 1 (n = 816)	Quartile 2 (n = 822)	Quartile 3 (n = 816)	Quartile 4 (n = 851)	p-Value
Target vessel					
Left main coronary artery	19 (2.3)	17 (2.1)	18 (2.2)	20 (2.4)	0.285
LAD coronary artery	343 (42.0)	344 (41.8)	368 (45.1)	374 (43.9)	
Left circumflex coronary artery	171 (21.0)	174 (21.2)	159 (19.5)	176 (20.7)	
Right coronary artery	258 (31.6)	275 (33.5)	257 (31.5)	273 (32.1)	
Bypass graft	25 (3.1)	12 (1.5)	14 (1.7)	8 (0.9)	
Complex lesion (type B2/C)	465 (57.0)	512 (62.3)	475 (58.2)	495 (58.2)	0.140
More than 1 lesion treated	285 (34.9)	272 (33.1)	300 (36.8)	292 (34.3)	0.468
TIMI flow grade before the intervention					
0	261 (32.0)	300 (36.5)	263 (32.2)	323 (38.0)	0.094
1	65 (8.0)	76 (9.3)	62 (7.6)	74 (8.7)	
2	182 (22.3)	176 (21.4)	194 (23.8)	180 (21.2)	
3	308 (37.7)	270 (32.8)	297 (36.4)	274 (32.2)	
TIMI flow grade after the intervention					
0	12 (1.5)	4 (0.5)	6 (0.7)	10 (1.2)	0.533
1	4 (0.5)	5 (0.6)	2 (0.3)	5 (0.6)	
2	24 (2.9)	20 (2.4)	23 (2.8)	17 (2.0)	
3	776 (95.1)	793 (96.5)	785 (96.2)	819 (96.2)	
Type of intervention					
Drug-eluting stent	733 (89.8)	737 (89.7)	745 (91.3)	766 (90.0)	0.671
Bare-metal stent	2 (0.3)	4 (0.5)	0 (0.0)	6 (0.7)	0.067
Bioresorbable vascular scaffold	41 (5.0)	54 (6.6)	44 (5.4)	47 (5.5)	0.565
Drug-eluting balloon	22 (2.7)	9 (1.1)	16 (2.0)	14 (1.7)	0.109
Plain balloon angioplasty	26 (3.2)	22 (2.7)	22 (2.7)	28 (3.3)	0.827
Maximal stent diameter (mm)	3.2 (0.5)	3.2 (0.5)	3.2 (0.5)	3.2 (0.5)	0.176
Total stented length (mm)	30.8 (18.0)	31.0 (17.6)	30.1 (15.9)	30.3 (16.2)	0.676
Successful PCI	797 (97.7)	807 (98.2)	804 (98.5)	825 (96.9)	0.135
Periprocedural antithrombotic medication					
Aspirin	714 (87.5)	729 (88.7)	754 (92.4)	771 (90.6)	0.006
Unfractionated heparin	767 (94.0)	771 (93.8)	765 (93.8)	803 (94.4)	0.952
Low-molecular-weight heparin	38 (4.7)	34 (4.1)	26 (3.2)	36 (4.2)	0.489
Bivalirudin	60 (7.4)	73 (8.9)	69 (8.5)	64 (7.5)	0.614
GPIIb/IIIa inhibitor	87 (10.7)	101 (12.3)	112 (13.7)	94 (11.0)	0.213

Abbreviations: GPIIb/IIIa, glycoprotein IIb/IIIa; LAD, left anterior descending; PCI, percutaneous coronary intervention; TIMI, Thrombolysis in Myocardial Infarction.

Note: Data are shown as counts (proportions; %) or mean ± standard deviation.

Supplementary Table S4 Clinical outcomes according to subgroup analyses and study drugs among platelet count quartiles

	Quartile 1 (n = 997)				Quartile 2 (n = 1,003)				Quartile 3 (n = 961)				Quartile 4 (n = 982)			
	Ticagrelor (N = 485)	Prasugrel (N = 512)	HR [95% CI]	p-Value	Ticagrelor (N = 500)	Prasugrel (N = 503)	HR [95% CI]	p-Value	Ticagrelor (N = 482)	Prasugrel (N = 479)	HR [95% CI]	p-Value	Ticagrelor (N = 499)	Prasugrel (N = 483)	HR [95% CI]	p-Value
≥75 y or <60 kg																
Primary endpoint	23/157 (15.0)	16/158 (10.3)	1.49 [0.79–2.83]	0.217	20/130 (15.4)	18/151 (12.1)	1.28 [0.68–2.42]	0.444	14/123 (11.6)	12/112 (10.9)	1.06 [0.49–2.30]	0.874	21/136 (15.6)	22/118 (19.0)	0.78 [0.43–1.43]	0.426
BARC 3 to 5 bleeding	12/155 (9.6)	9/127 (7.9)	1.20 [0.51–2.86]	0.673	14/128 (14.3)	6/133 (5.0)	2.82 [1.08–7.34]	0.033	9/121 (8.8)	6/102 (6.8)	1.34 [0.48–3.78]	0.574	10/135 (9.1)	13/99 (14.5)	0.56 [0.25–1.28]	0.167
<75 y and ≥60 kg																
Primary endpoint	19/326 (5.9)	16/349 (4.6)	1.28 [0.66–2.48]	0.472	29/369 (7.9)	11/349 (3.2)	2.58 [1.29–5.16]	0.007	23/356 (6.6)	14/366 (3.9)	1.72 [0.89–3.35]	0.109	29/361 (8.1)	26/363 (7.3)	1.13 [0.66–1.91]	0.657
BARC 3 to 5 bleeding	12/324 (4.1)	8/302 (2.7)	1.53 [0.63–3.76]	0.347	12/361 (3.8)	9/311 (3.3)	1.26 [0.53–3.00]	0.594	9/354 (2.9)	6/329 (1.9)	1.53 [0.54–4.29]	0.421	14/358 (4.4)	21/330 (6.8)	0.65 [0.33–1.27]	0.204
≥75 y																
Primary endpoint	23/148 (15.9)	15/149 (10.3)	1.60 [0.83–3.06]	0.157	18/116 (15.5)	18/134 (13.7)	1.14 [0.59–2.19]	0.698	13/107 (12.4)	11/104 (10.8)	1.16 [0.52–2.58]	0.721	19/112 (17.2)	22/100 (22.4)	0.71 [0.39–1.32]	0.280
BARC 3 to 5 bleeding	12/146 (10.1)	9/121 (8.3)	1.21 [0.51–2.88]	0.662	12/114 (13.5)	5/121 (4.6)	2.93 [1.03–8.32]	0.043	7/106 (7.7)	5/95 (6.2)	1.34 [0.43–4.22]	0.617	10/111 (10.9)	13/83 (17.3)	0.55 [0.24–1.26]	0.158
<75 y																
Primary endpoint	19/337 (5.7)	17/363 (4.7)	1.21 [0.63–2.32]	0.570	31/384 (8.2)	11/369 (3.0)	2.80 [1.41–5.58]	0.003	24/375 (6.5)	15/375 (4.1)	1.63 [0.85–3.10]	0.139	31/387 (8.1)	26/383 (6.9)	1.19 [0.71–2.00]	0.516
BARC 3 to 5 bleeding	12/335 (4.0)	8/313 (2.7)	1.54 [0.63–3.78]	0.341	14/376 (4.4)	10/326 (3.4)	1.34 [0.60–3.03]	0.476	11/372 (3.4)	7/337 (2.2)	1.56 [0.60–4.02]	0.359	14/384 (4.1)	21/348 (6.4)	0.64 [0.33–1.26]	0.196
Women																
Primary endpoint	4/55 (7.3)	4/74 (5.5)	1.39 [0.35–5.57]	0.639	8/109 (7.4)	8/102 (7.9)	0.93 [0.35–2.48]	0.883	10/133 (7.7)	12/120 (10.1)	0.76 [0.33–1.75]	0.517	18/170 (10.7)	15/175 (8.7)	1.25 [0.63–2.48]	0.527
BARC 3 to 5 bleeding	6/54 (12.3)	1/53 (1.9)	7.17 [0.86–59.59]	0.068	9/105 (13.1)	5/82 (7.2)	1.82 [0.61–5.45]	0.282	8/132 (7.6)	8/98 (8.9)	0.82 [0.31–2.19]	0.691	11/169 (7.9)	19/147 (14.4)	0.54 [0.26–1.13]	0.102
Men																
Primary endpoint	38/430 (8.9)	28/438 (6.5)	1.40 [0.86–2.28]	0.179	41/391 (10.6)	21/401 (5.3)	2.06 [1.22–3.49]	0.007	27/349 (7.8)	14/359 (4.0)	2.01 [1.06–3.85]	0.033	32/329 (9.8)	33/308 (10.9)	1.25 [0.55–1.45]	0.641
BARC 3 to 5 bleeding	18/427 (5.0)	16/381 (4.5)	1.09 [0.56–2.14]	0.797	17/385 (5.0)	10/365 (3.0)	1.73 [0.79–3.77]	0.171	10/346 (3.3)	4/334 (1.3)	2.60 [0.82–8.30]	0.106	13/326 (4.5)	15/284 (5.5)	0.78 [0.37–1.64]	0.512
Smoker																
Primary endpoint	9/129 (7.1)	9/146 (6.2)	1.14 [0.45–2.87]	0.784	14/158 (8.9)	9/159 (5.7)	1.62 [0.70–3.75]	0.258	9/176 (4.5)	7/158 (4.5)	1.17 [0.43–3.13]	0.759	14/200 (7.1)	16/192 (8.4)	0.84 [0.41–1.72]	0.638
BARC 3 to 5 bleeding	3/127 (2.5)	5/133 (3.9)	0.65 [0.16–2.71]	0.553	11/155 (8.5)	3/151 (2.2)	3.97 [1.11–14.2]	0.034	5/176 (3.2)	6/147 (4.3)	0.76 [0.23–2.48]	0.644	7/199 (4.0)	18/179 (10.4)	0.35 [0.15–0.85]	0.020
Nonsmoker																
Primary endpoint	32/354 (9.1)	22/362 (6.2)	1.51 [0.88–2.61]	0.134	35/342 (10.3)	20/344 (5.9)	1.79 [1.03–3.09]	0.038	27/304 (6.1)	19/319 (6.1)	1.51 [0.84–2.72]	0.165	35/294 (12.0)	31/290 (10.9)	1.09 [0.68–1.78]	0.712
BARC 3 to 5 bleeding	20/352 (6.8)	12/297 (4.3)	1.59 [0.78–3.25]	0.204	15/335 (5.3)	12/296 (4.5)	1.23 [0.57–2.62]	0.599	12/300 (4.7)	6/283 (2.2)	2.05 [0.77–5.47]	0.150	17/291 (6.8)	15/251 (6.7)	1.04 [0.52–2.09]	0.905

Supplementary Table S4 (Continued)

	Quartile 1 (n = 997)			Quartile 2 (n = 1,003)			Quartile 3 (n = 961)			Quartile 4 (n = 982)			p-Value			
	Ticagrelor (N = 485)	Prasugrel (N = 512)	HR [95% CI]	Ticagrelor (N = 500)	Prasugrel (N = 503)	HR [95% CI]	Ticagrelor (N = 482)	Prasugrel (N = 479)	HR [95% CI]	Ticagrelor (N = 499)	Prasugrel (N = 483)	HR [95% CI]				
Diabetes																
Primary endpoint	13/117 (11.3)	13/138 (9.5)	1.22 [0.57–2.63]	0.614	13/114 (11.5)	1.09 [0.49–2.44]	11/105 (10.7)	0.828	12/103 (11.9)	10/85 [0.43–2.30]	0.99 [0.43–2.30]	0.984 [0.43–2.30]	12/117 (10.4)	21/99 [0.22–0.91]	0.026	
BARC 3 to 5 bleeding	5/114 (5.4)	3/120 (2.8)	2.03 [0.48–8.50]	0.333	4/111 (4.6)	2/92 (2.4)	1.85 [0.34–10.1]	0.477	8/101 (8.6)	3/80 (4.1)	2.19 [0.58–8.25]	0.248 [0.58–8.25]	9/117 (8.6)	1/89 [1.39]	0.64 [0.27–1.55]	0.325
Nondiabetes																
Primary endpoint	29/368 (8.0)	19/374 (5.1)	1.56 [0.88–2.79]	0.130	36/386 (9.4)	2.11 [1.20–3.72]	18/398 (4.6)	0.009	25/379 (6.7)	16/394 [0.38–3.09]	1.65 [0.38–3.09]	0.117 [0.38–3.09]	38/382 [10.1]	26/383 [6.9]	1.48 [0.90–2.44]	0.122
BARC 3 to 5 bleeding	19/367 (5.9)	14/314 (4.7)	1.26 [0.63–2.51]	0.511	22/379 (6.9)	1.76 [0.89–3.49]	13/355 (4.1)	0.107	10/377 (3.2)	9/352 (2.7)	1.14 [0.46–2.81]	0.773 [0.46–2.81]	15/378 [4.6]	22/341 [6.8]	0.65 [0.33–1.24]	0.191

Abbreviations: BARC, Bleeding Academic Research Consortium; CI, confidence interval; HR, hazard ratio.

Note: The analysis was performed in selected prespecified subgroups, where the number of patients allowed for it in all quartiles. Statistically significant p-values are denoted in bold.