

**Supplementary Table 1. Baseline characteristics of study patients according to treatment at discharge and during follow-up**

Variable	Vasodilating $\beta$ -blockers (n = 3,608)	Conventional $\beta$ -blockers (n = 3,661)	p value	Standardized difference
<b>Demographics</b>				
Age, yr	62.3 $\pm$ 12.4	63.2 $\pm$ 12.4	0.002	7.8
Male sex	2,779 (77.0)	2,740 (74.8)	0.030	8.6
<b>Coronary risk factors</b>				
Diabetes mellitus	689 (19.1)	855 (23.4)	< 0.001	11.3
Hypertension	1,804 (50.0)	1,909 (52.1)	0.067	6.0
Dyslipidemia	291 (8.1)	305 (8.3)	0.680	0.4
Current or ex-smoking	2,212 (62.8)	2,176 (60.7)	0.012	6.0
Chronic kidney disease	546 (15.1)	634 (17.3)	0.011	7.3
<b>Previous medical history</b>				
History of MI	140 (3.9)	148 (4.0)	0.723	0.8
History of Angina	184 (5.1)	181 (4.9)	0.761	0.1
History of heart failure	30 (0.8)	22 (0.6)	0.241	1.6
History of CVA	153 (4.2)	176 (4.8)	0.240	3.8
<b>Clinical characteristics at presentation and in-hospital</b>				
Killip class $\geq$ III on admission	329 (9.1)	437 (11.9)	< 0.001	9.8
STEMI	2,004 (55.5)	1,859 (50.8)	< 0.001	9.4
Left ventricular ejection fraction	51.5 $\pm$ 10.5	52.5 $\pm$ 10.5	< 0.001	9.7
<b>Medication at discharge</b>				
Aspirin	3,603 (99.9)	3,659 (99.9)	0.249	1.6
Clopidogrel	2,470 (68.5)	2,548 (69.6)	0.293	2.5
Prasugrel	331 (9.2)	474 (12.9)	< 0.001	12.1
Ticagrelor	781 (21.6)	626 (17.1)	< 0.001	11.5
RAS blockade	3,020 (83.7)	3,285 (89.7)	< 0.001	16.7
Statins	3,485 (96.6)	3,477 (95.0)	0.001	9.1
<b>Angiographic and procedural characteristics</b>				
Glycoprotein IIb/IIIa inhibitor	527 (14.6)	535 (14.6)	0.993	0.7
Intracoronary imaging device	799 (22.1)	750 (20.5)	0.084	5.2
LM or LAD infarct-related artery	1,831 (50.7)	1,814 (49.5)	0.307	2.1
ACC/AHA B2/C lesion	3,612 (87.6)	3,171 (86.6)	0.193	2.4
Pre-procedural TIMI flow grade 0–1	2,083 (57.7)	2,093 (57.2)	0.628	2.4
Post-procedural TIMI flow grade 3	3,516 (97.5)	3,577 (97.7)	0.479	2.5
Stent diameter, mm	3.13 $\pm$ 0.43	3.15 $\pm$ 0.44	0.165	3.6
Total stent length, mm	29.4 $\pm$ 13.9	30.0 $\pm$ 14.6	0.086	3.5
Multi-vessel coronary artery disease	1,900 (52.7)	1,831 (50.0)	0.024	5.9
Cardiogenic shock	173 (4.8)	226 (6.2)	0.010	6.1
Mechanical circulatory support	82 (2.3)	71 (1.9)	0.322	1.1

Values are presented as mean  $\pm$  SD or number (%).

MI, myocardial infarction; CVA, cerebrovascular accident; STEMI, ST segment elevation myocardial infarction; RAS, renin-angiotensin system; LM, left main; LAD, left anterior descending; ACC/AHA, American College of Cardiology/American Heart Association; TIMI, thrombolysis in myocardial infarction.