**Supplementary Table 1.** Baseline characteristics among patients with and without homocysteine assessment.

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| **Variables** | **No Homocysteine assessment**  **(n=181)** | **Homocysteine asssessment**  **(n=1306)** | **p-value** |
| ***Demographics and medical history*** | | | |
| Age, years | 66.6 ± 12.3 | 66.8 ± 12.4 | 0.766 |
| Sex (male), n (%) | 128 (70.7) | 903 (69.1) | 0.667 |
| Hypertension, n (%) | 115 (63.5) | 804 (61.6) | 0.608 |
| Diabetes, n (%) | 56 (30.9) | 420 (32.2) | 0.742 |
| Dyslipidemia, m (%) | 89 (79.2) | 556 (42.6) | 0.093 |
| Smoker | 41 (22.6) | 408 (31.2) | 0.018 |
| Prior smoker | 60 (33.1) | 355 (27.2) | 0.093 |
| Family history of IHD, n (%) | 19 (10.5) | 120 (9.2) | 0.571 |
| Prior IHD, n (%) | 75 (41.4) | 498 (38.1) | 0.392 |
| Prior MI, n (%) | 46 (25.4) | 285 (21.8) | 0.276 |
| Previous PCI, n (%) | 14 (7.7) | 72 (5.5) | 0.230 |
| Previous CABG, n (%) | 8 (4.4) | 57 (4.4) | 0.973 |
| Charlson comorbidity indexa | 1 (0 – 2) | 1 (1 – 2) | 0.026 |
| ACS type, n (%)  STEMI  NSTEACS | 59 (32.6)  122 (67.4) | 444 (34.0)  862 (66.0) | 0.709 |
| Killip class >I | 24 (13.3) | 253 (19.4) | 0.048 |
| GRACE score, points | 137 (119 – 173) | 144 (122 – 175) | 0.182 |
| ***Vital signs on admission*** | | | |
| Heart rate, bpm | 83 ± 16 | 85 ± 19 | 0.190 |
| SBP, mmHg | 141 ± 21 | 146 ± 25 | 0.034 |
| ***ECG and echocardiography*** | | | |
| ST segment deviation, n (%) | 88 (48.6) | 665 (50.9) | 0.562 |
| LVEFb, n (%) | 56 ± 13 | 58 ± 13 | 0.184 |
| ***Laboratory*** | | | |
| Creatinine, mg/dL | 1.16 ± 0.76 | 1.20 ± 0.85 | 0.466 |
| Total cholesterolc, mg/dL | 188 ± 38 | 193 ± 43 | 0.303 |
| Troponin I elevation (>1 ng/mL) d, n (%) | 101 (56.7) | 887 (69.5) | 0.001 |
| ***Revascularization during admission*** | | | |
| Coronary angiography, n (%) | 86 (47.5) | 635 (48.6) | 0.780 |
| Revascularization, n (%) | 55 (30.4) | 343 (26.3) | 0.240 |

ACS: acute coronary syndrome; CABG: coronary artery by-pass graft; GRACE: Global Registry of Acute Coronary Events; IHD: ischemic heart disease; LVEF: left ventricle ejection fraction; MI: myocardial infarction; NSTEACS: non-ST-segment elevation acute coronary syndrome; PCI: percutaneous coronary intervention; SBP: systolic blood pressure; STEMI: ST-segment elevation acute myocardial infarction.

Continuous variables are expressed as mean (standard deviation) unless otherwise specified.

aValues are expressed as median (interquartile range).

bData available in 976 (72.6%) patients.

cData available in 1298 (92.5%) patients.

dData available in 1277 (97.8%) patients.