**Supplementary Table 1** Association between abnormal AMR and clinical risk factors in patients with ACS and CKD

| | Univariate analysis HR (95% CI) | *P*-value |
|---|---|---|
| Age | 1.002 (0.983-1.022) | 0.806 |
| Female | 0.882 (0.544-1.430) | 0.612 |
| BMI | 0.968 (0.916-1.022) | 0.243 |
| Heart rate | 1.025 (1.012-1.037) | < 0.001 |
| SBP | 1.012 (1.002-1.023) | 0.021 |
| Smoking | 1.276 (0.801-2.030) | 0.305 |
| Prior MI | 0.982 (0.578-1.669) | 0.947 |
| Hypertension | 1.553 (0.625-3.859) | 0.343 |
| Diabetes | 1.672 (1.029-2.717) | 0.038 |
| Dialysis | 2.118 (1.073-4.182) | 0.031 |
| Gensini score | 1.005 (0.999-1.011) | 0.095 |
| LVEF | 0.975 (0.955-0.996) | 0.019 |
| KILLIP class ≥ II | 2.259 (1.418- 3.600) | < 0.001 |
| Invasive strategy | 0.594 (0.371-0.951) | 0.030 |
| TC | 0.871 (0.719-1.054) | 0.156 |
| TG | 0.918 (0.742-1.135) | 0.429 |
| HDL-C | 1.082 (0.490-2.391) | 0.845 |
| LDL-C | 0.848 (0.663-1.084) | 0.188 |
| eGFR | 0.980 (0.968-0.993) | 0.002 |
| AMR | 1.095 (1.048-1.143) | < 0.001 |
| AMR ≥ 250 | 1.861 (1.157-2.995) | 0.011 |
| ACEI/ARB | 0.944 (0.597- 1.492) | 0.803 |
| β-blockers | 1.923 (0.883-4.188) | 0.100 |
| Statins | 1.547 (0.487-4.915) | 0.460 |

BMI, body mass index; SBP, systolic blood pressure; MI, myocardial infarction; LVEF, left ventricular ejection fraction; TC, total cholesterol; TG, triglyceride; HDL-C, high-density lipoprotein C; LDL-C, low-density lipoprotein C; eGFR, estimated glomerular filtration rate; AMR, angiography-derived microcirculatory resistance; ACEI/ARB, angiotensin-converting-enzyme inhibitor/angiotensin receptor blocker.