**Table 1: Summary statistics of ACS patient baseline characteristics before multiple imputations of missing data.**

|  |  |  |
| --- | --- | --- |
| Patient demographics | Summary (% of n=7,201,900) | Missing data (% of n=7,201,900) |
| No. of STEMI | 2,380,808(33.1%) | NA |
| Median (IQR) age, y | 67(56, 79) | 0.009% |
| Female | 40.3% | 0.014% |
| Admission/weekend | 25.8% | NA |
| Race |
| White | 76.3% | 17.4% |
| Black | 10.0% |
| Hispanic | 7.6% |
| Asian/Pacific islander | 2.2% |
| Native American | 0.6% |
| Other | 3.2% |
| Median income |
| Frist | 29.0% | 2.4% |
| Second | 27.3% |
| Third | 23.5% |
| Fourth | 20.1% |
| Treatments |  |  |
| PCI | 40.7% | NA |
| CA | 62.0% | NA |
| Thrombolysis | 1.3% | NA |
| CABG | 8.4% | NA |
| IABP | 4.6% | NA |
| Outcomes |
| Death | 5.5% | 0.04% |
| Major Bleeding | 4.8% | NA |
| MACCE | 8.0% | NA |
| Comorbidities | **Comorbidity index in which included** |
| Previous Myocardial infarction | 10.2% | CCI |
| Previous Cerebrovascular disease | 1.5% | CCI |
| Dementia | 0.7% | CCI |
| Mild liver disease | 0.5% | CCI |
| Moderate or severe liver disease | 0.2% | CCI |
| Congestive heart failure | 0.8% | CCI and ECS |
| Peripheral vascular disease | 10.5% | CCI and ECS |
| Chronic pulmonary disease | 20.5% | CCI and ECS |
| Rheumatologic/collagen vascular disease | 2.1% | CCI and ECS |
| Peptic ulcer | 0.03% | CCI and ECS |
| Diabetes, uncomplicated | 28.0% | CCI and ECS |
| Diabetes with chronic complications | 5.9% | CCI and ECS |
| Paralysis/hemiplegia | 1.6% | CCI and ECS |
| Moderate/severe renal disease |  | CCI |
| Renal Disease | 15.8% | ECS |
| Any malignancy including leukaemia and lymphoma | 0.5% | CCI and ECS |
| Metastatic cancer | 0.8% | CCI and ECS |
| AIDS | 0.1% | CCI and ECS |
| Solid tumour without metastasis | 1.4% | ECS |
| Liver disease | 1.2% | ECS |
| Hypertension | 66.4% | ECS |
| Depression | 6.4% | ECS |
| Valvular disease | 0.2% | ECS |
| Pulmonary circulation disorders | 0.1% | ECS |
| Neurodegenerative disorders | 5.7% | ECS |
| Hypothyroidism | 9.6% | ECS |
| Coagulopathy | 4.1% | ECS |
| Obesity | 11.7% | ECS |
| Weight loss | 2.0% | ECS |
| Fluid and electrolyte disorders | 18.5% | ECS |
| Blood loss anemia | 1.0% | ECS |
| Deficiency anemia | 14.2% | ECS |
| Alcohol abuse | 2.8% | ECS |
| Drug abuse | 2.0% | ECS |
| Psychosis | 2.1% | ECS |
| Other conditions  |
| Smoking | 33.8% |  |
| Atrial Fibrillation | 16.6% |  |
| Long-term use of anticoagulants | 2.9% |  |
| Previous PCI | 11.3% |  |
| Previous CABG | 7.5% |  |

ACS: acute coronary syndrome; STEMI: ST-elevation myocardial infarction; IQR: interquartile range; PCI: percutaneous coronary intervention; CA: coronary angiography; CABG: coronary artery bypass graft; IABP: intra-aortic balloon pump; MACCE: major acute cardiovascular and cerebrovascular events: composite of death, cardiac complications, stroke, and vascular complications.