

Appendix 7: Variables for Risk Adjustment

Variables for risk adjustment (at time of admission) of AMI mortality rates are presented with the source of data shown in the columns on the right. Variables may be obtained from administrative data, clinical chart abstraction or both. The purpose of risk adjustment is to permit more accurate comparisons of AMI mortality rates among regions or hospitals after adjustment for confounding factors.

| POTENTIAL VARIABLES FOR DETERMINING AMI RISK-ADJUSTED MORTALITY | DATA SOURCE | |
|-----------------------------------------------------------------|-------------|------|
| | ADM‡ | CHT† |
| DEMOGRAPHIC | | |
| Age | X | X |
| Sex | X | X |
| Socioeconomic status | X | X |
| MEDICAL HISTORY | | |
| (Previous) Congestive heart failure | X | X |
| Cancer | X | X |
| Central nervous system disease | X | X |
| Cerebrovascular disease (i.e., previous stroke) | X | X |
| Chronic lung disease | X | X |
| Depression | X | X |
| Diabetes | X | X |
| Family history of coronary artery disease | | X |
| History of transient ischemic attack (TIA) | X | X |
| Hypercholesterolemia | | X |
| Hypertension | X | X |
| Hemiplegia or paraplegia | X | X |
| Renal disease ^{§§} | X | X |
| Peripheral vascular disease | X | X |
| Metastatic solid tumor | X | X |
| Previous angina | X | X |
| Previous CABG | X | X |
| Previous catheterization with stenosis >50% | | X |
| Previous myocardial infarction | X | X |
| Previous PCI | X | X |
| Smoking | | X |
| Type of stroke | | X |
| CLINICAL PRESENTATION) | | |
| Angina | | X |
| Cardiac arrest | | X |
| Congestive heart failure on admission | | X |
| Dialysis-dependent | | X |
| Height | | X |

| POTENTIAL VARIABLES FOR DETERMINING AMI RISK-ADJUSTED MORTALITY | DATA SOURCE | |
|----------------------------------------------------------------------|-------------|------|
| | ADM‡ | CHT† |
| Killip class | | X |
| Pulmonary edema | | X |
| Shock | | X |
| Weight | | X |
| VITAL SIGNS | | |
| Diastolic blood pressure | | X |
| Heart rate | | X |
| Systolic blood pressure | | X |
| LABORATORY INVESTIGATIONS AT PRESENTATION | | |
| Creatinine | | X |
| First HDL | | X |
| First LDL | | X |
| First total serum cholesterol level | | X |
| ECG FINDINGS AT PRESENTATION | | X |
| Location of ECG changes (anatomic location of MI) | | X |
| Rhythm (e.g., sinus, atrial fibrillation, paced, other) | | X |
| Type of ECG changes (e.g., STEMI, NSTEMI, T-wave inversion, Q-waves) | | X |
| ELECTROCARDIOGRAM | | |
| Ejection fraction | | X |

†Chart review

‡Administrative data