Supplementary Table S1: ICD-9 Codes Used to Capture the a Diagnosis of Left Ventricular (LV) Dysfunction, Arrhythmia, and Respiratory Support

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| **LV Dysfunction** | |
| **ICD-9** | **Descriptor** |
| 425.0 | Endomyocardial fibrosis |
| 425.11 | Hypertrophic obstructive cardiomyopathy |
| 425.18 | Other hypertrophic cardiomyopathy |
| 425.4 | Other primary cardiomyopathies |
| 425.7 | Nutritional and metabolic cardiomyopathy |
| 425.8 | Cardiomyopathy in other diseases classified elsewhere |
| 425.9 | Secondary cardiomyopathy, unspecified |
| 428.20 | Systolic heart failure, unspecified |
| 428.21 | Systolic heart failure, acute |
| 428.22 | Systolic heart failure, chronic |
| 428.23 | Systolic heart failure, acute on chronic |
| 428.30 | Diastolic heart failure, unspecified |
| 428.31 | Diastolic heart failure, acute |
| 428.32 | Diastolic heart failure, chronic |
| 428.33 | Diastolic heart failure, acute on chronic |
| 428.40 | Combined systolic and diastolic heart failure, unspecified |
| 428.41 | Combined systolic and diastolic heart failure, acute |
| 428.42 | Combined systolic and diastolic heart failure, chronic |
| 428.43 | Combined systolic and diastolic heart failure, acute on chronic |
| 428.0 | Congestive heart failure, unspecified |
| 398.91 | Rheumatic heart failure (congestive) |
| 428.1 | Left heart failure |
| 428.9 | Heart failure, unspecified |
| 412 | Old myocardial infarction |
| 414.8 | Other specified forms of chronic ischemic heart disease |
| 414.9 | Chronic ischemic heart disease, unspecified |
| 429.2 | Cardiovascular disease, unspecified |
| 429.3 | Cardiomegaly |
| 429.82 | Hyperkinetic heart disease |
| 429.89 | Other ill-defined heart diseases |
| 429.9 | Heart disease, unspecified |
| **Arrhythmia** | |
| **ICD-9** | **Descriptor** |
| V45.02 | Cardiac device in situ, Automatic implantable cardiac defibrillator |
| V53.32 | Fitting and adjustment of other device, Automatic implantable cardiac defibrillator |
| 996.04 | Mechanical complication of cardiac device, implant, and graft; Due to automatic implantable cardiac defibrillator |
| 427.9 | Cardiac dysrhythmia, unspecified |
| 427.1 | Paroxysmal ventricular tachycardia |
| 427.41 | Ventricular fibrillation |
| 427.42 | Ventricular flutter |
| 427.5 | Cardiac arrest |
| 427.31 | Atrial fibrillation |
| 427.32 | Atrial flutter |
| 427.81 | Sinoatrial node dysfunction |
| 427.89 | Other specified cardiac dysrhythmias |
| 426.7 | Anomalous atrioventricular excitation |
| 426.6 | Other heart block |
| 426.82 | Long QT syndrome |
| 426.89 | Other specified conduction disorders |
| 426.9 | Conduction disorder, unspecified |
| V45.00 | Cardiac device in situ, Unspecified cardiac device |
| V45.01 | Cardiac device in situ, Cardiac pacemaker |
| V45.02 | Automatic implantable cardiac defibrillator in situ |
| V45.09 | Cardiac device in situ, Other specified cardiac device |
| V53.3 | Fitting and adjustment of cardiac device |
| V53.31 | Fitting and adjustment of other device, Cardiac pacemaker |
| V53.32 | Fitting and adjustment of automatic implantable cardiac defibrillator |
| V53.39 | Fitting and adjustment of other device, Other cardiac device |
| **Respiratory Support** | |
| **ICD-9** | **Descriptor** |
| V46.2 | Dependence, Supplemental oxygen |
| 518.81 | Acute respiratory failure |
| 518.84 | Acute and chronic respiratory failure |
| 518.51 | Acute respiratory failure following trauma and surgery |
| 518.52 | Other pulmonary insufficiency, not elsewhere classified, following trauma and surgery |
| 518.53 | Acute and chronic respiratory failure following trauma and surgery |
| 518.82 | Other pulmonary insufficiency, not elsewhere classified |
| 518.83 | Chronic respiratory failure |
| 799.1 | Respiratory arrest |
| V46.11 | Dependence on respirator, status |
| V46.12 | Encounter for respirator dependence during power failure |
| V46.13 | Encounter for weaning from respirator [ventilator] |
| V46.14 | Mechanical complication of respirator [ventilator] |
| 997.31 | Ventilator associated pneumonia |
| 997.32 | Postprocedural aspiration pneumonia |
| 997.39 | Other respiratory complications |
| 519.00 | Tracheostomy complication, unspecified |
| 519.01 | Infection of tracheostomy |
| 519.02 | Mechanical complication of tracheostomy |
| 519.09 | Other tracheostomy complications |
| V44.0 | Artificial opening status, tracheostomy |
| V55.0 | Attention to artificial openings, tracheostomy |
| 31.1 | Temporary tracheostomy |
| 31.21 | Mediastinal tracheostomy |
| 31.29 | Other permanent tracheostomy |
| V46.8 | Other enabling machines |