**Table S3.** ICD-9-CM Diagnosis and Procedure Codes CPT Outpatient Procedure codes used to identify ‘moderate-risk’ cardiac conditions

|  |  |
| --- | --- |
| **Cardiac Condition** | **ICD-9-CM Codes** |
| Previous Rheumatic Fever | **ICD-9 Diagnostic Codes:**390 rheumatic fever without heart involvement3910 acute rheumatic pericarditis3911 acute rheumatic endocarditis3912 acute rheumatic myocarditis3918 other acute rheumatic heart disease3919 acute rheumatic heart disease, unspecified3920 rheumatic chorea with heart involvement3929 rheumatic chorea without heart involvement3941 rheumatic mitral insufficiency3940 mitral stenosis3942 mitral stenosis with insufficiency3949 other unspecified mitral disease3950 rheumatic aortic stenosis3951 rheumatic aortic insufficiency3952 rheumatic aortic stenosis with insufficiency3959 other and unspecified aortic rheumatic diseases3960 mitral and aortic stenosis3961 mitral stenosis and aortic insufficiency3962 mitral insufficiency and aortic stenosis3963 mitral insufficiency and aortic insufficiency3968 multiple involvement of mitral and aortic valves3969 mitral and aortic valve disease unspecified3970 diseases of tricuspid valve3971 rheumatic diseases of pulmonary valve3979 rheumatic diseases of endocardium, valve unspecified39890 rheumatic heart disease, unspecified39899 other rheumatic heart diseases |
| Non-Rheumatic Valve Disease | **ICD-9 Diagnostic codes:**4240 mitral valve disorders4241 aortic valve disorders4242 tricuspid valve disorders specified as non-rheumatic 4243 pulmonary valve disorders |
| Hypertrophic cardiomyopathy | **ICD-9 Diagnostic Codes:**42511 hypertrophic obstructive cardiomyopathy42518 other hypertrophic cardiomyopathy |
| Congenital valve anomalies | **ICD-9 Diagnostic codes:**74600 congenital pulmonary valve anomaly, unspecified74601 atresia of pulmonary valve, congenital74602 stenosis of pulmonary valve, congenital74609 other congenital anomalies of pulmonary valve7461 tricuspid atresia and stenosis, congenital7462 Ebstein’s anomaly7463 congenital stenosis of aortic valve7464 congenital insufficiency of aortic valve7465 congenital mitral stenosis7466 congenital mitral insufficiency7467 hyperplastic left heart syndrome74681 sub-aortic stenosis74683 infundibular pulmonic stenosis74689 other specified congenital heart anomalies of heart |

Notes:

Patients at “moderate-risk” of developing IE were identified by determining whether they had been diagnosed with a “moderate-risk” condition (ICD-9 codes) at any time before they first developed IE or at any-time for those who did not develop IE during the study period (within the available healthcare records for that individual).