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

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| --- | --- |
| **Cardiac Condition** | **ICD-9-CM Codes** |
| Previous Rheumatic Fever | **ICD-9 Diagnostic Codes:**  390 rheumatic fever without heart involvement  3910 acute rheumatic pericarditis  3911 acute rheumatic endocarditis  3912 acute rheumatic myocarditis  3918 other acute rheumatic heart disease  3919 acute rheumatic heart disease, unspecified  3920 rheumatic chorea with heart involvement  3929 rheumatic chorea without heart involvement  3941 rheumatic mitral insufficiency  3940 mitral stenosis  3942 mitral stenosis with insufficiency  3949 other unspecified mitral disease  3950 rheumatic aortic stenosis  3951 rheumatic aortic insufficiency  3952 rheumatic aortic stenosis with insufficiency  3959 other and unspecified aortic rheumatic diseases  3960 mitral and aortic stenosis  3961 mitral stenosis and aortic insufficiency  3962 mitral insufficiency and aortic stenosis  3963 mitral insufficiency and aortic insufficiency  3968 multiple involvement of mitral and aortic valves  3969 mitral and aortic valve disease unspecified  3970 diseases of tricuspid valve  3971 rheumatic diseases of pulmonary valve  3979 rheumatic diseases of endocardium, valve unspecified  39890 rheumatic heart disease, unspecified  39899 other rheumatic heart diseases |
| Non-Rheumatic Valve Disease | **ICD-9 Diagnostic codes:**  4240 mitral valve disorders  4241 aortic valve disorders  4242 tricuspid valve disorders specified as non-rheumatic  4243 pulmonary valve disorders |
| Hypertrophic cardiomyopathy | **ICD-9 Diagnostic Codes:**  42511 hypertrophic obstructive cardiomyopathy  42518 other hypertrophic cardiomyopathy |
| Congenital valve anomalies | **ICD-9 Diagnostic codes:**  74600 congenital pulmonary valve anomaly, unspecified  74601 atresia of pulmonary valve, congenital  74602 stenosis of pulmonary valve, congenital  74609 other congenital anomalies of pulmonary valve  7461 tricuspid atresia and stenosis, congenital  7462 Ebstein’s anomaly  7463 congenital stenosis of aortic valve  7464 congenital insufficiency of aortic valve  7465 congenital mitral stenosis  7466 congenital mitral insufficiency  7467 hyperplastic left heart syndrome  74681 sub-aortic stenosis  74683 infundibular pulmonic stenosis  74689 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).