Online Resource 1 - International Classification of Disease-9 Description

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| ICD9 | ICD9 Description CHD | ICD9 | ICD9 Description Surgical Procedures |
| 426.0 | Atrioventricular block complete | 35.00 | Closed heart valvotomy, unspecified valve |
| 426.1 | Atrioventricular block, other and unspecified | 35.01 | Closed heart valvotomy, aortic valve |
| 426.10 | Atrioventricular block NOS | 35.02 | Closed heart valvotomy, mitral valve |
| 426.11 | Atrioventricular block-1st degree | 35.03 | Closed heart valvotomy, pulmonary valve |
| 426.12 | Atrioventricular block-mobitz ii | 35.04 | Closed heart valvotomy, tricuspid valve |
| 426.13 | Atrioventricular block-2nd degree NEC | 35.10 | Open heart valvuloplasty without replacement, unspecified valve |
| 426.50 | Bundle branch block NOS | 35.11 | Open heart valvuloplasty of aortic valve without replacement |
| 427.0 | Paroxysmal atrial tachycardia | 35.12 | Open heart valvuloplasty of mitral valve without replacement |
| 427.1 | Paroxysmal ventricular tachycardia | 35.13 | Open heart valvuloplasty of pulmonary valve without replacement |
| 427.2 | Paroxysmal tachycardia NOS | 35.14 | Open heart valvuloplasty of tricuspid valve without replacement |
| 427.3 | Atrial fibrillation and flutter | 35.20 | Replacement of unspecified heart valve |
| 427.31 | Atrial fibrillation | 35.21 | Replacement of aortic valve with tissue graft |
| 427.32 | Atrial flutter | 35.22 | Other replacement of aortic valve |
| 427.4 | Ventricular fibrillation and flutter | 35.23 | Replacement of mitral valve with tissue graft |
| 427.41 | Ventricular fibrillation | 35.24 | Other replacement of mitral valve |
| 427.42 | Ventricular flutter | 35.25 | Replacement of pulmonary valve with tissue graft |
| 428.0 | Congestive heart failure NOS | 35.26 | Other replacement of pulmonary valve |
| 428.1 | Left heart failure | 35.27 | Replacement of tricuspid valve with tissue graft |
| 428.2 | Systolic heart failure | 35.28 | Other replacement of tricuspid valve |
| 428.20 | Systolic heart failure NOS | 35.31 | Operations on papillary muscle |
| 428.21 | Acute systolic heart failure | 35.32 | Operations on chordae tendineae |
| 428.22 | Chronic systolic heart failure | 35.33 | Annuloplasty |
| 428.23 | Acute on chronic systolic heart failure | 35.34 | Infundibulectomy |
| 428.3 | Diastolic heart failure | 35.35 | Operations on trabeculae carnae cordis |
| 428.30 | Diastolic heart failure NOS | 35.39 | Operations on other structures adjacent to valves of heart |
| 428.31 | Acute diastolic heart failure | 35.41 | Enlargement of existing atrial septal defect |
| 428.32 | Chronic diastolic heart failure | 35.42 | Creation of septal defect in heart |
| 428.33 | Acute on chronic diastolic heart failure | 35.50 | Repair of unspecified septal defect of heart with prosthesis |
| 428.4 | Combined systolic and diastolic heart failure | 35.51 | Repair of atrial septal defect with prosthesis, open technique |
| 428.40 | Systolic/diastolic heart failure NOS | 35.52 | Repair of atrial septal defect with prosthesis, closed technique |
| 428.41 | Acute systolic/diastolic heart failure | 35.53 | Repair of ventricular septal defect with prosthesis |
| 428.42 | Chronic systolic/diastolic heart failure | 35.54 | Repair of endocardial cushion defect with prosthesis |
| 428.43 | Acute/chronic systolic/diastolic heart failure | 35.60 | Repair of unspecified septal defect of heart with tissue graft |
| 428.9 | Heart failure NOS | 35.61 | Repair of atrial septal defect with tissue graft |
| 584.9 | Acute kidney failure NOS | 35.62 | Repair of ventricular septal defect with tissue graft |
| 585.9 | Chronic kidney disease NOS | 35.63 | Repair of endocardial cushion defect with tissue graft |
| 745.0 | Common truncus | 35.70 | Other and unspecified repair of unspecified septal defect of heart |
| 745.10 | Complete transposition of the great vessels | 35.71 | Other and unspecified repair of atrial septal defect |
| 745.11 | Double outlet right ventricle | 35.72 | Other and unspecified repair of ventricular septal defect |
| 745.12 | Correct transposition of the great vessels | 35.73 | Other and unspecified repair of endocardial cushion defect |
| 745.19 | Transposition of the great vessels NEC | 35.81 | Total repair of tetralogy of Fallot |
| 745.5 | Secundum atrial septal defect | 35.82 | Total repair of total anomalous pulmonary venous connection |
| 745.60 | Endocardial cushion defect NOS | 35.83 | Total repair of truncus arteriosus |
| 745.61 | Ostium primum defect | 35.84 | Total correction of transposition of great vessels, not elsewhere classified |
| 745.69 | Endocardial cushion defect NEC | 35.91 | Interatrial transposition of venous return |
| 746.01 | Congenital pulmonary valve atresia | 35.92 | Creation of conduit between right ventricle and pulmonary artery |
| 746.1 | Congenital tricuspid atresia/stenosis | 35.93 | Creation of conduit between left ventricle and aorta |
| 746.2 | Ebstein's anomaly | 35.94 | Creation of conduit between atrium and pulmonary artery |
| 746.7 | Hypoplastic left heart syndrome | 35.95 | Revision of corrective procedure on heart |
| 746.85 | Coronary artery anomaly | 35.98 | Other operations on septa of heart |
| 747.41 | Total anomalous pulmonary venous connection | 35.99 | Other operations on valves of heart |
| 747.42 | Partial anomalous pulmonary venous connection | 36.99 | Other operations on vessel of heart |
|  |  | 37.33 | Excision or destruction of other lesion or tissue of heart |
|  |  | 37.5 | Heart replacement procedures |
|  |  | 37.51 | Heart transplantation |
|  |  | 37.52 | Implantation of total replacement heart system |
|  |  | 39.0 | Systemic to pulmonary artery shunt |
|  |  | 39.21 | Caval-pulmonary artery anastomosis |

*Abbreviations: CHD, Congenital Heart Disease; ICD9, International Classification of Disease-9; NEC, not elsewhere classifiable; NOS, not otherwise specified*