Supplementary Table 1. BPA code definitions

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| **Birth defect** | **BPA codes** |
| **Cardiovascular anomalies** |  |
| Endocardial cushion defects |  |
| Ostium primum defects without CAVCa | 745.600 |
| Single common atrium  | 745.610 |
| CAVCa | 745.630 |
| Other endocardial cushion defect | 745.680, 745.690 |
| Septal defects |  |
| Additional ventricular septal defect | 745.4 |
| Secundum atrial septal defect | 745.5 |
| Conotruncal defects |  |
| Tetralogy of Fallot | 745.2 |
| Pulmonary infundibular stenosis, not otherwise specified | 746.830 |
| Transposition of great vessels | 745.1 |
| Common truncus | 745.0 |
| Aortic arch abnormalities |  |
| Coarctation of aorta | 747.1 |
| Hypoplasia of aorta | 747.210 |
| Persistent right aortic arch | 747.230 |
| Anomalies of great veins |  |
| Persistent left superior vena cava | 747.410 |
| Total anomalous pulmonary venous return | 747.420 |
| Partial anomalous pulmonary venous return | 747.430 |
| Hypoplastic or single ventricle variants |  |
| Hypoplastic left ventricle | 746.881 |
| Hypoplastic right ventricle | 746.882 |
| Hypoplastic ventricle, not otherwise specified | 746.883 |
| Single ventricle, not otherwise specified | 745.3 |
| Additional specified abnormality of common atrioventricular valve |  |
| Congenital stenosis of ‘mitral’ component | 746.5 |
| Atresia or stenosis of ‘tricuspid’ component | 746.1 |
| Anomalies of aortic valve |  |
| Congenital stenosis of aortic valve | 746.3 |
| Congenital insufficiency of aortic valve | 746.4 |
| Anomalies of pulmonary valve |  |
| Atresia, hypoplasia, or absence of pulmonary valve | 746.000 |
| Stenosis of pulmonary valve | 746.010 |
| Unspecified pulmonary atresia, stenosis, or hypoplasia | 746.995 |
| Anomalies of pulmonary artery | 747.3 |
| Anomalies of coronary artery or sinus | 746.885 |
| **Non-cardiac birth defects** |  |
| Visceral heterotaxy | 759.390 or 759.000-759.080 |
| Anomalies of nervous system  | 742 |
| Anomalies of eye  | 743 |
| Anomalies of ear, face, and neck  | 744 or 749 |
| Anomalies of respiratory system  | 748 |
| Anomalies of digestive system | 750 or 751 |
| Anomalies of intestinal fixation | 751.4 |
| Anomalies of gallbladder, bile ducts, and liver | 751.6 |
| Other specified anomalies of stomach | 750.7 |
| Anomalies of urinary system and genital organs | 752 or 753 |
| Anomalies of musculoskeletal system | 754 or 755 or 756 |
| Polydactyly | 755.0 |
| Anomalies of spine | 756.1 |
| Other anomalies of ribs and sternum | 756.3 |

a Complete atrioventicular canal defect