Supplementary Online Content

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**eFigure.** Geographical Distribution of Patients by First Digit of US Zip Code of CRWD Version Used in Study

**eTable.** Definitions of Congenital Heart Defects

This supplementary material has been provided by the authors to give readers additional information about their work.
**eFigure.** Geographical Distribution of Patients by First Digit of US Zip Code of CRWD Version Used in Study
| CHD Type                  | Diagnosis                                                | ICD-10-CM Codes |
|--------------------------|----------------------------------------------------------|-----------------|
| Single ventricle         | Common ventricle or double inlet ventricle               | Q20.4           |
|                          | Congenital tricuspid atresia and stenosis                | Q22.9, Q22.4, Q22.8 |
|                          | Hypoplastic left heart syndrome                           | Q23.4           |
| Simple biventricular     | Ventricular septal defect                                | Q21.0, I27.83   |
|                          | Ostium secundum type atrial septal defect                 | Q21.1           |
|                          | Endocardial cushion defect                               | Q21.2           |
|                          | Ostium primum atrial septal defect                        | Q21.2           |
|                          | Other bulbus cordis anomaly of septal defect              | Q20.8, Q21.4    |
|                          | Patent ductus arteriosus                                 | Q25.0           |
|                          | Unspecified defect of septal defect                      | Q21.9           |
| Complex biventricular    | Common truncus                                           | Q20.0           |
|                          | Complete transposition of great vessels                   | Q20.3, Q20.8    |
|                          | Double outlet right ventricle                            | Q20.1           |
|                          | L-transposition of great vessels                         | Q20.5           |
|                          | Tetralogy of Fallot                                       | Q21.3           |
|                          | Cor biloculare                                           | Q20.8           |
|                          | Anomalies of pulmonary valve congenital                   | Q22.3           |
|                          | Pulmonary atresia                                         | Q22.0           |
|                          | Congenital pulmonary stenosis                            | Q22.1, Q24.3    |
|                          | Other congenital anomalies of pulmonary valve             | Q22.2           |
|                          | Ebstein’s anomaly                                         | Q22.5           |
|                          | Congenital stenosis of aortic valve                      | Q23.0           |
|                          | Congenital insufficiency of aortic valve                 | Q23.1           |
|                          | Congenital mitral stenosis                               | Q23.2           |
|                          | Congenital mitral insufficiency                          | Q23.3           |
|                          | Subaortic stenosis                                        | Q24.4           |
|                          | Cor triatriatum                                          | Q24.2           |
|                          | Congenital obstructive anomalies of heart                 | Q24.8           |
|                          | Congenital coronary artery anomaly                        | Q24.5           |
|                          | Congenital heart block                                   | Q24.6           |
|                          | Malposition of heart and cardiac apex                     | Q24.0, Q24.1    |
|                          | Other congenital anomalies of heart                       | Q23.8, Q24.8, Q23.9, Q20.9, Q24.9 |
|                          | Coarctation of aorta                                     | Q25.1           |
|                          | Interruption of aortic arch                              | Q25.21          |
| Condition                                         | ICD-10 Codes          |
|--------------------------------------------------|-----------------------|
| Other congenital anomalies of aorta              | Q25.4, Q25.41, Q25.42, Q25.43, Q25.44, Q25.45, Q25.46, Q25.47, Q25.48, Q25.49 |
| Atresia and stenosis of aorta                   | Q25.29, Q25.3, Q25.2  |
| Congenital anomalies of great veins              | Q26.9, Q26.0, Q26.1, Q26.0, Q26.8 |
| Total anomalous pulmonary venous return          | Q26.2                 |
| Partial anomalous pulmonary venous connection    | Q26.3, Q26.4          |
| Congenital anomalies of pulmonary artery         | Q25.71, Q25.5, Q25.6, Q25.8, Q25.9, Q25.79 |