

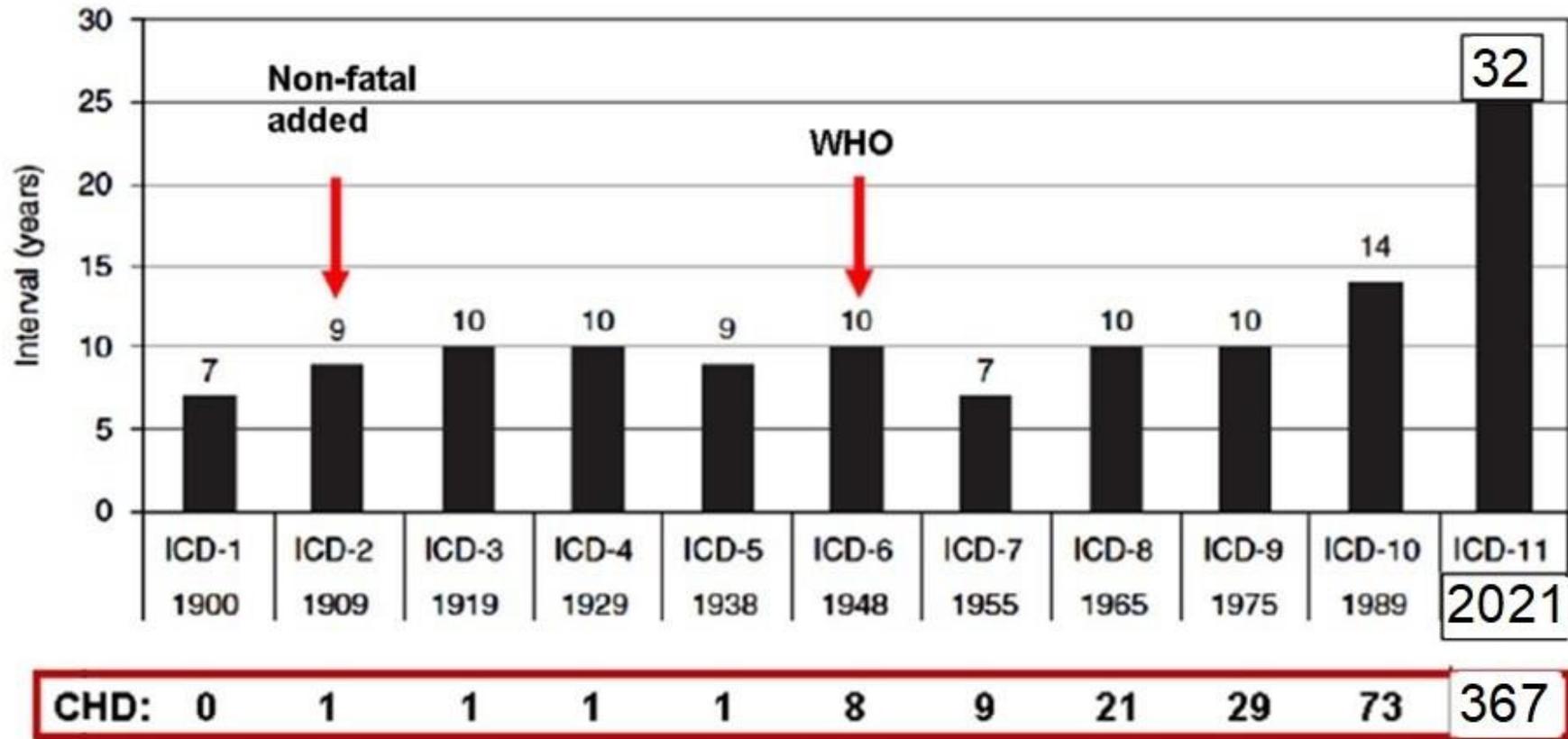
Supplemental Material

**Nomenclature for Pediatric and Congenital Cardiac Care:
Unification of Clinical and Administrative Nomenclature –**

***The 2021 International Paediatric and Congenital Cardiac Code (IPCCC) and
the Eleventh Revision of the International Classification of Diseases (ICD-11)***

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Supplemental Figure 1



Supplemental Figure 1 Legend:

Supplemental Figure 1: *The International Classification of Diseases (ICD)*. This bar chart documents the time interval between each Revision of the International Classification of Diseases (ICD), 1900–2021. The horizontal lower bar indicates the number of terms related to congenital heart disease (CHD) listed in each ICD version.

Supplemental Tables of IPCCC ICD-11 Nomenclature for Congenital Cardiac Diagnostic Terms in *ICD-11 Foundation*

Supplemental Table 1. IPCCC ICD-11 Diagnostic Hierarchy

Supplemental Table 1 presents the diagnostic hierarchy of the paediatric and congenital cardiac terms in the *ICD-11 Foundation*. Terms that appear in the *ICD-11 MMS* are presented in rows highlighted in yellow.

Supplemental Table 2 contains the definitions, commentary, synonyms, and abbreviations for these terms of the paediatric and congenital cardiac terms in the *ICD-11 Foundation*. Terms that appear in the *ICD-11 MMS* are presented in rows highlighted in yellow.

Supplemental Table 3 contains the various IPCCC ICD-11 Codes, including the IPCCC codes as well as the ICD-11 Foundation entity numbers and the ICD-11 MMS codes.

In the Supplemental Tables:

* = New terms added by the *WHO* ICD-11 team since the original 318 terms contained in the publication [105] from 2017

** = Terms that code normal human anatomy, but are important to specify when part of a complex congenital cardiac malformation

*** = Terms that are not located in the paediatric and congenital cardiac section of ICD-11

Rows with numbers in the second column labelled “ICD-11 Row Number or Letter” contain terms in the original 318 terms contained in the publication [105] from 2017.

Rows with letters in the second column labelled “ICD-11 Row Number or Letter” contain new terms added by the *WHO* ICD-11 team since the original 318 terms contained in the publication [105] from 2017.

Supplemental Table 1. IPCCC ICD-11 Diagnostic Hierarchy

| ICD-11 New Row Number or Letter | ICD-11 Old Row Number or New Letter | IPCCC code | ICD-11 Level 0 | ICD-11 Level I | ICD-11 Level II | ICD-11 Level III | ICD-11 Level IV | ICD-11 Level V | ICD-11 Level VI | ICD-11 Level VII |
|---------------------------------|-------------------------------------|------------|--|---|---|--------------------------------------|-----------------|----------------|-----------------|------------------|
| 1 | 1 | 01.01.59 | Structural developmental anomaly of heart or great vessels | | | | | | | |
| 2 | 2 | 03.01.13 | | Congenital anomaly of position or spatial relationships of thoraco-abdominal organs | | | | | | |
| 3 | 3 | 02.01.09 | | | Anomalous position-orientation of heart | | | | | |
| 4 | 4** | 02.01.03 | | | | Laevocardia | | | | |
| 5 | 5 | 02.01.02 | | | | Dextrocardia | | | | |
| 6 | 6 | 02.01.04 | | | | Mesocardia | | | | |
| 7 | 7 | 02.01.01 | | | | Extrathoracic heart | | | | |
| 8 | 8** | 01.03.00 | | | Usual atrial arrangement | | | | | |
| 9 | 9 | 01.03.06 | | | Abnormal atrial arrangement | | | | | |
| 10 | 10 | 01.03.01 | | | | Atrial situs inversus | | | | |
| 11 | 11 | 01.03.02 | | | | Isomerism of right atrial appendages | | | | |
| 12 | 12 | 01.03.03 | | | | Isomerism of left atrial appendages | | | | |
| 13 | 13 | 02.04.12 | | | Abnormal ventricular relationships | | | | | |

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|----|------|----------|--|--|---|---|--|--|--|--|
| 14 | 14** | 02.03.01 | | | | Right hand pattern ventricular topology | | | | |
| 15 | 15 | 02.03.02 | | | | Left hand pattern ventricular topology | | | | |
| 16 | 16 | 02.03.03 | | | | Crisscross heart | | | | |
| 17 | 17 | 02.04.00 | | | | Superior-inferior ventricular relationship | | | | |
| 18 | 18 | 02.06.12 | | | Abnormal relationship of great arterial roots | | | | | |
| 19 | 19 | 02.06.03 | | | | Aortic root directly anterior to pulmonary root | | | | |
| 20 | 20 | 02.06.02 | | | | Aortic root anterior and rightward to pulmonary root | | | | |
| 21 | 21 | 02.06.04 | | | | Aortic root anterior and leftward to pulmonary root | | | | |
| 22 | 22 | 02.06.01 | | | | Aortic root side by side and directly rightward to pulmonary root | | | | |
| 23 | 23 | 02.06.05 | | | | Aortic root side by side and directly leftward to pulmonary root | | | | |
| 24 | 24 | 02.06.07 | | | | Aortic root directly posterior to pulmonary root | | | | |
| 25 | 25** | 02.06.00 | | | | Aortic root posterior and rightward to pulmonary root | | | | |
| 26 | 26 | 02.06.06 | | | | Aortic root posterior and leftward to pulmonary root | | | | |

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|----|------|----------|--|---|--|--|--|--|--|--|
| 27 | 27 | 02.07.03 | | | Abnormal intrapericardial course of great arteries | | | | | |
| 28 | 28** | 02.07.00 | | | | Spiralling course of great arteries | | | | |
| 29 | 29 | 02.07.01 | | | | Parallel course of great arteries | | | | |
| 30 | 30 | 03.01.02 | | | Visceral heterotaxy | | | | | |
| 31 | 31 | 03.01.04 | | | | Right isomerism | | | | |
| 32 | 32 | 03.01.05 | | | | Left Isomerism | | | | |
| 33 | 33 | 03.01.03 | | | Total mirror imagery | | | | | |
| 34 | 34 | 01.03.09 | | Congenital anomaly of an atrioventricular or ventriculo-arterial connection | | | | | | |
| 35 | 35** | 01.04.00 | | | Concordant atrioventricular connections | | | | | |
| 36 | 36 | 01.04.01 | | | Discordant atrioventricular connections | | | | | |
| 37 | 37 | 01.01.03 | | | | Congenitally corrected transposition of great arteries | | | | |
| 38 | 38 | 01.05.01 | | | Transposition of the great arteries | | | | | |

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|----|------|---------------------|--|--|--|---|--|--|--|--|
| 39 | 39 | 01.01.02 | | | | Transposition of the great arteries with concordant atrioventricular connections and intact ventricular septum | | | | |
| 40 | 40 | 01.01.10 | | | | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect | | | | |
| 41 | 41 | 01.01.10 + 07.09.01 | | | | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect and left ventricular outflow tract obstruction | | | | |
| 42 | 42** | 01.05.00 | | | Concordant ventriculo-arterial connections | | | | | |
| 43 | 43 | 01.05.10 | | | | Concordant ventriculo-arterial connections with parallel great arteries | | | | |
| 44 | 44 | 01.01.04 | | | Double outlet right ventricle | | | | | |
| 45 | 45 | 01.01.17 | | | | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | | | | |
| 46 | 46 | 01.01.17 + 07.13.04 | | | | | Double outlet right ventricle with subaortic ventricular septal defect and pulmonary | | | |

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|----|----|---------------------|--|--|--|---|---|--|--|--|
| | | | | | | | stenosis, Fallot type | | | |
| 47 | 47 | 01.01.17 + 07.13.02 | | | | | Double outlet right ventricle with doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | | | |
| 48 | 48 | 01.01.18 | | | | Double outlet right ventricle with subpulmonary ventricular septal defect, transposition type | | | | |
| 49 | 49 | 01.01.19 | | | | Double outlet right ventricle with non-committed ventricular septal defect | | | | |
| 50 | 50 | 01.01.40 | | | | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect without pulmonary stenosis, ventricular septal defect type | | | | |
| 51 | 51 | 01.01.40 + 07.13.04 | | | | | Double outlet right ventricle with subaortic ventricular septal defect without pulmonary stenosis | | | |
| 52 | 52 | 01.01.40 + 07.13.02 | | | | | Double outlet right ventricle with doubly committed ventricular septal defect without pulmonary stenosis | | | |
| 53 | 53 | 01.01.24 | | | | Double outlet right ventricle with intact ventricular septum | | | | |

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|----|----|----------|--|--|------------------------------|--|---|--|--|--|
| 54 | 54 | 01.05.03 | | | Double outlet left ventricle | | | | | |
| 55 | 55 | 09.01.01 | | | Common arterial trunk | | | | | |
| 56 | 56 | 09.01.15 | | | | Common arterial trunk with aortic dominance | | | | |
| 57 | 57 | 09.01.14 | | | | | Common arterial trunk with aortic dominance and both pulmonary arteries arising from trunk | | | |
| 58 | 58 | 09.01.11 | | | | | Common arterial trunk with aortic dominance and one pulmonary artery absent from the trunk, isolated pulmonary artery | | | |
| 59 | 59 | 09.01.12 | | | | Common arterial trunk with pulmonary dominance and aortic arch obstruction | | | | |
| 60 | 60 | 09.01.18 | | | | | Common arterial trunk with pulmonary dominance and interrupted aortic arch | | | |
| 61 | 61 | 09.01.19 | | | | | Common arterial trunk with pulmonary dominance and aortic coarctation | | | |
| 62 | A+ | 09.02.10 | | | | | Atypical truncal valve | | | |

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|----|----|----------|--|--|---|---|--|--|--|--|
| 63 | 62 | 09.02.19 | | | | | | Congenital truncal valvar regurgitation | | |
| 64 | 63 | 09.02.18 | | | | | | Congenital truncal valvar stenosis | | |
| 65 | 64 | 09.02.01 | | | | | | Dysplasia of truncal valve | | |
| 66 | 65 | 04.00.07 | | Congenital anomaly of mediastinal vein | | | | | | |
| 67 | 66 | 04.00.08 | | | Congenital anomaly of mediastinal systemic vein | | | | | |
| 68 | 67 | 04.01.09 | | | | Congenital anomaly of superior caval vein | | | | |
| 69 | 68 | 04.01.05 | | | | | | Absent right superior caval vein | | |
| 70 | 69 | 04.01.25 | | | | | | Left superior caval vein | | |
| 71 | 70 | 04.01.01 | | | | | | Left superior caval vein to coronary sinus | | |
| 72 | 71 | 04.01.02 | | | | | | Left superior caval vein to left-sided atrium | | |
| 73 | B+ | 04.01.07 | | | | | | Congenital stenosis of superior caval vein | | |
| 74 | 72 | 04.03.08 | | | | Congenital anomaly of inferior caval vein | | | | |
| 75 | 73 | 04.03.10 | | | | | | Interrupted inferior caval vein with absent suprarenal segment and azygos continuation | | |
| 76 | C+ | 04.03.06 | | | | | | Congenital stenosis of inferior caval vein | | |

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|----|-------|----------|--|--|--------------------------------------|--|---|--|--|--|
| 77 | 74 | 04.04.05 | | | | Congenital anomaly of the coronary sinus | | | | |
| 78 | 75 | 04.04.13 | | | | | Unroofed coronary sinus | | | |
| 79 | D+ | 04.04.02 | | | | | | Completely unroofed coronary sinus | | |
| 80 | E+ | 04.04.01 | | | | | | Partially unroofed coronary sinus | | |
| 81 | 76 | 04.04.14 | | | | | Coronary sinus orifice atresia or stenosis | | | |
| 82 | 77*** | 04.02.13 | | | | Anomalous hepatic venous connection to heart | | | | |
| 83 | 78 | 04.08.04 | | | Congenital anomaly of pulmonary vein | | | | | |
| 84 | 79 | 04.08.07 | | | | Anomalous pulmonary venous connection | | | | |
| 85 | 80 | 04.08.05 | | | | | Total anomalous pulmonary venous connection | | | |
| 86 | 81 | 04.06.00 | | | | | | Total anomalous pulmonary venous connection of the supracardiac type | | |
| 87 | 82 | 04.08.10 | | | | | | Total anomalous pulmonary venous connection of the cardiac type | | |
| 88 | 83 | 04.08.20 | | | | | | Total anomalous pulmonary venous connection of the infracardiac type | | |
| 89 | 84 | 04.08.30 | | | | | | Total anomalous pulmonary venous connection of the mixed type | | |
| 90 | 85 | 04.07.01 | | | | | | Partial anomalous pulmonary venous connection | | |

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|-----|------|----------|--|--|-------------------------------------|--|--|--|--|--|
| 91 | 86 | 01.01.16 | | | | | Partial anomalous pulmonary venous connection of Scimitar type | | | |
| 92 | 87 | 03.02.23 | | | | | | Scimitar syndrome | | |
| 93 | 88 | 04.08.06 | | | | | Obstructed anomalous pulmonary venous pathway or connection | | | |
| 94 | 89 | 04.08.31 | | | | | Congenital pulmonary venous stenosis or hypoplasia | | | |
| 95 | 90 | 04.08.02 | | | | | Congenital atresia of pulmonary vein | | | |
| 96 | 91 | 05.00.02 | | Congenital anomaly of an atrium or atrial septum | | | | | | |
| 97 | 92 | 05.07.01 | | | Congenital anomaly of atrial septum | | | | | |
| 98 | 93 | 05.06.04 | | | | | Restrictive interatrial communication or intact atrial septum when an interatrial shunt is physiologically necessary | | | |
| 99 | 94 | 05.03.03 | | | | | Aneurysm of atrial septum | | | |
| 100 | 95 | 05.04.01 | | | | | Interatrial communication | | | |
| 101 | 96** | 05.03.01 | | | | | | Patent oval foramen | | |
| 102 | 97 | 05.04.02 | | | | | | Atrial septal defect within oval fossa | | |
| 103 | 98 | 05.05.00 | | | | | | Sinus venosus defect | | |
| 104 | 99 | 05.06.02 | | | | | | Common atrium with separate atrioventricular junctions | | |

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|-----|-----|----------|--|--|---------------------------------------|--|--|--|--|--|
| 105 | 100 | 05.05.03 | | | | | Interatrial communication through coronary sinus orifice | | | |
| 106 | 101 | 05.01.13 | | | Congenital anomaly of right atrium | | | | | |
| 107 | 102 | 05.01.21 | | | | Divided right atrium | | | | |
| 108 | F+ | 05.01.04 | | | | Chiari network | | | | |
| 109 | 103 | 05.01.06 | | | | Left-sided juxtaposition of the atrial appendages | | | | |
| 110 | 104 | 05.01.12 | | | | Congenital giant right atrium | | | | |
| 111 | 105 | 05.02.11 | | | Congenital anomaly of left atrium | | | | | |
| 112 | 106 | 05.02.01 | | | | Divided left atrium | | | | |
| 113 | 107 | 05.02.04 | | | | Right-sided juxtaposition of the atrial appendages | | | | |
| 114 | 108 | 06.00.15 | | Congenital anomaly of an atrioventricular valve or atrioventricular septum | | | | | | |
| 115 | 109 | 06.01.11 | | | Congenital anomaly of tricuspid valve | | | | | |
| 116 | 110 | 06.01.25 | | | | Congenital tricuspid regurgitation | | | | |
| 117 | 111 | 06.01.07 | | | | Congenital tricuspid valvar stenosis | | | | |
| 118 | 112 | 06.01.04 | | | | Tricuspid annular hypoplasia | | | | |
| 119 | 113 | 06.01.03 | | | | Dysplasia of tricuspid valve | | | | |
| 120 | 114 | 06.01.09 | | | | Straddling tricuspid valve | | | | |
| 121 | 115 | 06.01.05 | | | | Overriding tricuspid valve | | | | |

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|-----|-----|----------|--|--|--|---|--|--|--|--|
| 122 | 116 | 06.01.34 | | | | Ebstein malformation of tricuspid valve | | | | |
| 123 | G+ | 06.01.32 | | | | Absent tricuspid valve leaflet | | | | |
| 124 | H+ | 06.01.36 | | | | True cleft of tricuspid valve leaflet | | | | |
| 125 | 117 | 06.02.11 | | | Congenital anomaly of mitral valve | | | | | |
| 126 | 118 | 06.02.25 | | | | Congenital mitral regurgitation | | | | |
| 127 | 119 | 06.02.07 | | | | Congenital mitral valvar stenosis | | | | |
| 128 | 120 | 06.02.04 | | | | Mitral annular hypoplasia | | | | |
| 129 | 121 | 06.02.09 | | | | Straddling mitral valve | | | | |
| 130 | 122 | 06.02.05 | | | | Overriding mitral valve | | | | |
| 131 | 123 | 06.02.03 | | | | Dysplasia of mitral valve | | | | |
| 132 | 124 | 05.02.02 | | | | Supravalvar or intra-valvar mitral ring | | | | |
| 133 | I+ | 06.02.23 | | | | | Congenital intra-valvar mitral ring | | | |
| 134 | J+ | 06.02.17 | | | | | Congenital supravalvar mitral ring | | | |
| 135 | 125 | 06.02.72 | | | | Congenital mitral valvar prolapse | | | | |
| 136 | 126 | 06.02.36 | | | | True cleft of anterior mitral leaflet | | | | |
| 137 | 127 | 06.02.21 | | | | Congenital anomaly of mitral subvalvar apparatus | | | | |
| 138 | 128 | 06.02.22 | | | | | Congenital mitral subvalvar stenosis | | | |
| 139 | 129 | 06.02.56 | | | | | Parachute malformation of mitral valve | | | |

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|-----|-----|----------|--|--|--|--|---|--|--|--|
| 140 | K+ | 06.02.39 | | | | Accessory tissue on mitral valve leaflet | | | | |
| 141 | L+ | 06.02.32 | | | | Congenital unguarded mitral orifice | | | | |
| 142 | M+ | 06.02.33 | | | | Double orifice of mitral valve | | | | |
| 143 | 130 | 06.04.11 | | | | Congenital anomaly of left-sided atrioventricular valve in double inlet ventricle | | | | |
| 144 | 131 | 06.03.11 | | | | Congenital anomaly of right-sided atrioventricular valve in double inlet ventricle | | | | |
| 145 | 132 | 06.06.11 | | | | Common atrioventricular junction | | | | |
| 146 | 133 | 06.06.00 | | | | Common atrioventricular junction with atrioventricular septal defect | | | | |
| 147 | 134 | 06.07.27 | | | | | Atrioventricular septal defect with balanced ventricles | | | |
| 148 | 135 | 06.07.26 | | | | | Atrioventricular septal defect with ventricular imbalance | | | |

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|-----|-----|----------|--|--|--|--|--|--|--|--|
| 149 | 136 | 06.07.05 | | | | | | Atrioventricular septal defect with ventricular imbalance with dominant right ventricle and hypoplastic left ventricle | | |
| 150 | 137 | 06.07.06 | | | | | | Atrioventricular septal defect with ventricular imbalance with dominant left ventricle and hypoplastic right ventricle | | |
| 151 | 138 | 06.06.01 | | | | | | Atrioventricular septal defect with communication at the atrial level only | | |
| 152 | 139 | 06.06.08 | | | | | | Atrioventricular septal defect with communication at the ventricular level only | | |
| 153 | 140 | 06.06.10 | | | | | | Atrioventricular septal defect with communication at atrial level and restrictive communication at ventricular level | | |

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|-----|-----|----------|--|--|--|--|--|---|--|--|
| 154 | 141 | 06.06.09 | | | | | Atrioventricular septal defect with communication at atrial level and unrestrictive communication at ventricular level | | | |
| 155 | 142 | 01.01.20 | | | | | Atrioventricular septal defect and tetralogy of Fallot | | | |
| 156 | 143 | 05.06.03 | | | | | Common atrium with common atrioventricular junction | | | |
| 157 | 144 | 06.05.60 | | | | | Common atrioventricular valvar regurgitation | | | |
| 158 | 145 | 06.05.14 | | | | | Atypical common atrioventricular valve | | | |
| 159 | 146 | 06.07.36 | | | | | | Common atrioventricular valve with unbalanced commitment of valve to ventricles | | |
| 160 | 147 | 06.07.37 | | | | | | | Common atrioventricular valve with unbalanced commitment of valve to right ventricle | |
| 161 | 148 | 06.07.38 | | | | | | | Common atrioventricular valve with unbalanced commitment of valve to left ventricle | |

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|-----|-----|----------|--|---|---|--|--|---|--|--|
| 162 | 149 | 06.05.71 | | | | | | Atypical right ventricular component of common atrioventricular valve | | |
| 163 | 150 | 06.05.72 | | | | | | Atypical left ventricular component of common atrioventricular valve | | |
| 164 | 151 | 06.05.25 | | | | | | | Double orifice of left ventricular component of common atrioventricular valve | |
| 165 | 152 | 06.05.98 | | | | | | | Deficient mural leaflet of left ventricular component of common atrioventricular valve | |
| 166 | 153 | 06.07.28 | | | | | Common atrioventricular junction without an atrioventricular septal defect | | | |
| 167 | 154 | 07.14.02 | | | Communication between left ventricle and right atrium | | | | | |
| 168 | 155 | 07.00.00 | | Congenital anomaly of a ventricle or the ventricular septum | | | | | | |
| 169 | 156 | 07.01.07 | | | Congenital right ventricular anomaly | | | | | |
| 170 | 157 | 07.02.00 | | | | Right ventricular hypoplasia | | | | |
| 171 | 158 | 07.05.20 | | | | Congenital right ventricular outflow tract obstruction | | | | |
| 172 | 159 | 07.03.01 | | | | Double chambered right ventricle | | | | |

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|-----|----------------|----------|--|--|-------------------------------------|---|--|--|--|--|
| 173 | 160 | 07.01.13 | | | | Right ventricular myocardial sinusoids | | | | |
| 174 | 161 | 07.01.06 | | | | Parchment right ventricle | | | | |
| 175 | 162 | 01.01.01 | | | | Tetralogy of Fallot | | | | |
| 176 | 163 | 09.05.25 | | | | | Tetralogy of Fallot with absent pulmonary valve syndrome | | | |
| 177 | 164 | 01.01.26 | | | | | Tetralogy of Fallot with pulmonary atresia | | | |
| 178 | 165 | 01.01.57 | | | | | Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral arteries | | | |
| 179 | 166 | 07.06.07 | | | Congenital left ventricular anomaly | | | | | |
| 180 | 167 | 07.07.00 | | | | Left ventricular hypoplasia | | | | |
| 181 | 168 | 07.06.19 | | | | Congenital left ventricular aneurysm or diverticulum | | | | |
| 182 | N ⁺ | 07.06.01 | | | | | Congenital left ventricular aneurysm | | | |
| 183 | O ⁺ | 07.06.03 | | | | | Congenital left ventricular diverticulum | | | |
| 184 | 169 | 07.09.28 | | | | Congenital left ventricular outflow tract obstruction | | | | |
| 185 | 170 | 07.09.08 | | | | | Congenital left ventricular outflow tract obstruction due to atrioventricular valve | | | |

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|-----|-----|----------|--|--|--|--|--|--|--|--|
| 186 | 171 | 01.01.33 | | | | Left heart obstruction at multiple sites | | | | |
| 187 | 172 | 07.06.12 | | | | Left ventricular myocardial sinusoids | | | | |
| 188 | P+ | 07.00.07 | | | Anomalous ventricular bands | | | | | |
| 189 | 173 | 07.20.04 | | | Congenital anomaly of ventricular septum | | | | | |
| 190 | 174 | 07.14.07 | | | | Restrictive interventricular communication when an interventricular shunt is physiologically necessary | | | | |
| 191 | 175 | 07.10.00 | | | | Ventricular septal defect | | | | |
| 192 | 176 | 07.10.01 | | | | | Perimembranous central ventricular septal defect | | | |
| 193 | 177 | 07.14.05 | | | | | Inlet ventricular septal defect without a common atrioventricular junction | | | |
| 194 | 178 | 07.10.02 | | | | | | Inlet perimembranous ventricular septal defect without atrioventricular septal malalignment without a common atrioventricular junction | | |

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|-----|-----|----------|--|--|--|--|--|---|--|--|
| 195 | 179 | 07.14.06 | | | | | | Inlet perimembranous ventricular septal defect with atrioventricular septal malalignment and without a common atrioventricular junction | | |
| 196 | 180 | 07.11.02 | | | | | | Inlet muscular ventricular septal defect | | |
| 197 | 181 | 07.11.01 | | | | | | Trabecular muscular ventricular septal defect | | |
| 198 | 182 | 07.11.04 | | | | | | Trabecular muscular ventricular septal defect midseptal | | |
| 199 | 183 | 07.11.03 | | | | | | Trabecular muscular ventricular septal defect apical | | |
| 200 | 184 | 07.11.12 | | | | | | Trabecular muscular ventricular septal defect postero-inferior | | |
| 201 | 185 | 07.11.07 | | | | | | Trabecular muscular ventricular septal defect anterosuperior | | |
| 202 | 186 | 07.11.05 | | | | | | Multiple trabecular muscular ventricular septal defects | | |
| 203 | 187 | 07.12.00 | | | | | | Outlet ventricular septal defect | | |
| 204 | 188 | 07.12.09 | | | | | | Outlet ventricular septal defect without malalignment | | |
| 205 | 189 | 07.11.06 | | | | | | | Outlet muscular ventricular septal defect without malalignment | |

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|-----|-----|----------|--|--|--|--|--|---|--|---|
| 206 | 190 | 07.12.01 | | | | | | | Doubly committed juxta-arterial ventricular septal defect without malalignment | |
| 207 | 191 | 07.12.02 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect without malalignment and with muscular postero-inferior rim |
| 208 | 192 | 07.12.03 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect without malalignment and with perimembranous extension |
| 209 | 193 | 07.10.17 | | | | | | Outlet ventricular septal defect with anteriorly malaligned outlet septum | | |
| 210 | 194 | 07.11.15 | | | | | | | Outlet muscular ventricular septal defect with anteriorly malaligned outlet septum | |
| 211 | 195 | 07.10.04 | | | | | | | Outlet perimembranous ventricular septal defect with anteriorly malaligned outlet septum | |
| 212 | 196 | 07.12.12 | | | | | | | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum | |

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|-----|-----|----------|--|--|--|--|--|--|---|--|
| 213 | 197 | 07.12.07 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and muscular postero-inferior rim |
| 214 | 198 | 07.12.05 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and perimembranous extension |
| 215 | 199 | 07.10.18 | | | | | | Outlet ventricular septal defect with posteriorly malaligned outlet septum | | |
| 216 | 200 | 07.11.16 | | | | | | | Outlet muscular ventricular septal defect with posteriorly malaligned outlet septum | |
| 217 | 201 | 07.10.19 | | | | | | | Outlet perimembranous ventricular septal defect with posteriorly malaligned outlet septum | |
| 218 | 202 | 07.12.13 | | | | | | | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum | |

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|-----|-----|----------|--|-----------------------------------|--|--|--|--|--|---|
| 219 | 203 | 07.12.08 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and muscular postero-inferior rim |
| 220 | 204 | 07.12.06 | | | | | | | | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and perimembranous extension |
| 221 | 205 | 07.15.01 | | | | | Ventricular septal defect haemodynamically insignificant | | | |
| 222 | 206 | 07.15.04 | | | | | Multiple ventricular septal defects | | | |
| 223 | 207 | 01.01.22 | | Functionally univentricular heart | | | | | | |
| 224 | 208 | 01.01.14 | | | Double inlet atrioventricular connection | | | | | |
| 225 | 209 | 01.04.04 | | | | Double inlet left ventricle | | | | |
| 226 | 210 | 01.04.03 | | | | Double inlet right ventricle | | | | |
| 227 | 211 | 01.04.05 | | | | Double inlet to solitary ventricle of indeterminate morphology | | | | |
| 228 | 212 | 06.01.01 | | | Tricuspid atresia | | | | | |
| 229 | 213 | 06.01.26 | | | | Tricuspid atresia with absent atrioventricular connection | | | | |
| 230 | 214 | 06.01.02 | | | | Tricuspid atresia with imperforate tricuspid valve | | | | |
| 231 | 215 | 06.02.01 | | | Mitral atresia | | | | | |

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|-----|-----|----------|--|---|--|--|--|--|--|--|
| 232 | 216 | 06.02.26 | | | | Mitral atresia with absent atrioventricular connection | | | | |
| 233 | 217 | 06.02.02 | | | | Mitral atresia with imperforate mitral valve | | | | |
| 234 | 218 | 01.01.09 | | | Hypoplastic left heart syndrome | | | | | |
| 235 | 219 | 09.04.29 | | Congenital anomaly of a ventriculo-arterial valve or adjacent regions | | | | | | |
| 236 | 220 | 09.05.29 | | | Congenital anomaly of pulmonary valve | | | | | |
| 237 | 221 | 09.05.04 | | | | Congenital pulmonary valvar stenosis | | | | |
| 238 | 222 | 09.05.05 | | | | Pulmonary annular hypoplasia | | | | |
| 239 | 223 | 09.05.22 | | | | Congenital pulmonary regurgitation | | | | |
| 240 | 224 | 09.05.24 | | | | Dysplasia of pulmonary valve | | | | |
| 241 | 225 | 09.05.32 | | | | Bicuspid pulmonary valve | | | | |
| 242 | 226 | 07.05.32 | | | Congenital subpulmonary stenosis | | | | | |
| 243 | 227 | 09.07.15 | | | Congenital supra-valvar pulmonary stenosis | | | | | |
| 244 | 228 | 09.05.16 | | | Congenital pulmonary atresia | | | | | |
| 245 | Q+ | 09.05.12 | | | | Congenital pulmonary valvar atresia | | | | |
| 246 | 229 | 01.01.07 | | | | Pulmonary atresia with intact ventricular septum | | | | |
| 247 | 230 | 09.15.19 | | | Congenital anomaly of aortic valve | | | | | |
| 248 | 231 | 09.15.01 | | | | Congenital aortic valvar stenosis | | | | |

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|-----|--------|----------|--|--|---|--|--|--|--|--|
| 249 | 232 | 09.15.07 | | | | Congenital aortic regurgitation | | | | |
| 250 | 233 | 09.15.22 | | | | Bicuspid aortic valve | | | | |
| 251 | 234 | 09.15.21 | | | | Unicuspid aortic valve | | | | |
| 252 | 235*** | 09.15.30 | | | | Aortic valvar prolapse | | | | |
| 253 | 236 | 09.15.06 | | | | Aortic valvar atresia | | | | |
| 254 | 237 | 09.15.17 | | | | Aortic annular hypoplasia | | | | |
| 255 | 238 | 09.15.09 | | | | Dysplasia of aortic valve | | | | |
| 256 | 239 | 07.09.50 | | | Congenital subaortic stenosis | | | | | |
| 257 | 240 | 07.09.03 | | | | Subaortic stenosis due to fibromuscular shelf | | | | |
| 258 | 241 | 07.09.16 | | | | Subaortic stenosis due to fibromuscular tunnel | | | | |
| 259 | 242 | 09.16.18 | | | Congenital supra-valvar aortic stenosis | | | | | |
| 260 | 243 | 09.18.01 | | | Aneurysm of aortic sinus of Valsalva | | | | | |
| 261 | 244 | 09.17.01 | | | Aortoventricular tunnel | | | | | |
| 262 | R+ | 09.17.02 | | | | Aorto-left ventricular tunnel | | | | |
| 263 | S+ | 09.17.04 | | | | Aorto-right ventricular tunnel | | | | |
| 264 | 245 | 09.04.28 | | Congenital anomaly of great arteries including arterial duct | | | | | | |
| 265 | 246 | 09.04.07 | | | Congenital aortopulmonary window | | | | | |
| 266 | 247 | 09.07.16 | | | Congenital anomaly of pulmonary arterial tree | | | | | |

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|-----|-----|----------|--|--|--|--|--|--|--|--|
| 267 | 248 | 09.10.36 | | | | Congenital dilation of pulmonary arterial tree | | | | |
| 268 | 249 | 09.07.19 | | | | Congenital pulmonary trunk anomaly | | | | |
| 269 | 250 | 09.07.20 | | | | | Congenital pulmonary trunk hypoplasia | | | |
| 270 | 251 | 09.07.05 | | | | | Absent or atretic pulmonary trunk | | | |
| 271 | 252 | 09.10.41 | | | | Congenital pulmonary arterial branch anomaly | | | | |
| 272 | 253 | 09.10.27 | | | | | Congenital pulmonary arterial branch stenosis | | | |
| 273 | 254 | 09.10.28 | | | | | | Congenital right pulmonary arterial stenosis | | |
| 274 | 255 | 09.10.29 | | | | | | Congenital left pulmonary arterial stenosis | | |
| 275 | 256 | 09.10.71 | | | | | Congenital pulmonary arterial branch hypoplasia | | | |
| 276 | 257 | 09.10.72 | | | | | | Congenital right pulmonary arterial hypoplasia | | |
| 277 | 258 | 09.10.73 | | | | | | Congenital left pulmonary arterial hypoplasia | | |
| 278 | T+ | 09.10.21 | | | | | Absent or atretic right or left pulmonary artery | | | |
| 279 | 259 | 09.10.75 | | | | | | Absent or atretic right pulmonary artery | | |
| 280 | 260 | 09.10.77 | | | | | | Absent or atretic left pulmonary artery | | |

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|-----|-----|----------|--|--|---|--|--|---|--|--|
| 281 | 261 | 09.10.37 | | | | | Congenital central pulmonary arterial stenosis or hypoplasia proximal to hilar bifurcation | | | |
| 282 | 262 | 09.10.38 | | | | | Congenital peripheral pulmonary arterial stenosis or hypoplasia at or beyond hilar bifurcation | | | |
| 283 | 263 | 09.10.30 | | | | | Congenitally discontinuous, non-confluent right and left pulmonary arteries | | | |
| 284 | 264 | 09.09.08 | | | | | Pulmonary artery origin from ascending aorta | | | |
| 285 | 265 | 09.09.03 | | | | | | Right pulmonary artery from ascending aorta | | |
| 286 | 266 | 09.09.05 | | | | | | Left pulmonary artery from ascending aorta | | |
| 287 | 267 | 09.09.11 | | | | | Pulmonary artery from arterial duct | | | |
| 288 | 268 | 09.09.02 | | | | | | Right pulmonary artery from arterial duct | | |
| 289 | 269 | 09.09.04 | | | | | | Left pulmonary artery from arterial duct | | |
| 290 | 270 | 07.09.34 | | | Congenital anomaly of aorta or its branches | | | | | |
| 291 | 271 | 09.16.06 | | | | | Congenital anomaly of ascending aorta | | | |
| 292 | 272 | 09.16.02 | | | | | Hypoplasia of ascending aortic | | | |
| 293 | 273 | 09.16.19 | | | | | Congenital ascending aortic | | | |

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|-----|----------------|----------|--|--|--|--|---|--|--|--|
| | | | | | | | aneurysm or dilation | | | |
| 294 | 274 | 09.28.10 | | | | | Congenital anomaly of aortic arch | | | |
| 295 | 275 | 09.29.11 | | | | | Hypoplasia of aortic arch | | | |
| 296 | 277 | 09.29.31 | | | | | Interrupted aortic arch | | | |
| 297 | 278 | 09.29.32 | | | | | | Interrupted aortic arch distal to subclavian artery, type A | | |
| 298 | 279 | 09.29.33 | | | | | | Interrupted aortic arch between subclavian and common carotid arteries, type B | | |
| 299 | 280 | 09.29.34 | | | | | | Interrupted aortic arch between carotid arteries, type C | | |
| 300 | 281 | 09.28.15 | | | | | Right aortic arch | | | |
| 301 | 282 | 09.28.22 | | | | | Left aortic arch | | | |
| 302 | 283 | 09.28.06 | | | | | Cervical aortic arch | | | |
| 303 | X ⁺ | 09.30.22 | | | | | Aortic diverticulum of Kommerell | | | |
| 304 | Y ⁺ | 09.28.08 | | | | | Persistent fifth aortic arch | | | |
| 305 | 276 | 09.29.01 | | | | | Coarctation of aorta | | | |
| 306 | U ⁺ | 09.29.02 | | | | | Preductal coarctation of aorta | | | |
| 307 | V ⁺ | 09.29.04 | | | | | Postductal coarctation of aorta | | | |
| 308 | W ⁺ | 09.29.03 | | | | | Juxtaductal (paraductal) coarctation of aorta | | | |
| 309 | 284 | 09.30.17 | | | | | Congenital anomaly of aortic arch branch | | | |
| 310 | 285 | 09.30.02 | | | | | Aberrant origin of right subclavian artery | | | |

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|-----|-----|----------|--|--|--|--|---|--|--|--|
| 311 | 286 | 09.30.04 | | | | | Aberrant origin of left subclavian artery | | | |
| 312 | 287 | 09.30.16 | | | | | Isolation of an aortic arch branch | | | |
| 313 | Z+ | 09.30.11 | | | | | | Isolation of innominate artery | | |
| 314 | AA+ | 09.30.14 | | | | | | Isolation of left subclavian artery | | |
| 315 | AB+ | 09.30.15 | | | | | | Isolation of right subclavian artery | | |
| 316 | AC+ | 09.30.12 | | | | | | Isolation of left common carotid artery | | |
| 317 | AD+ | 09.30.13 | | | | | | Isolation of right common carotid artery | | |
| 318 | AE+ | 09.30.34 | | | | | Aberrant origin of innominate artery | | | |
| 319 | AF+ | 09.30.31 | | | | | Common origin of the innominate artery and left common carotid artery | | | |
| 320 | AG+ | 09.30.28 | | | | | Separate origins of internal and external carotid arteries | | | |
| 321 | 288 | 09.28.47 | | | | | Congenital anomaly of descending thoracic or abdominal aorta | | | |
| 322 | 289 | 09.29.44 | | | | | Descending thoracic or abdominal aortic coarctation | | | |
| 323 | AH+ | 09.29.05 | | | | | | Coarctation of the descending thoracic aorta | | |

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|-----|-----|----------|--|--|---|---|--|------------------------------------|--|--|
| 324 | AI+ | 09.29.06 | | | | | | Coarctation of the abdominal aorta | | |
| 325 | 290 | 09.31.40 | | | Tracheo-oesophageal compressive syndrome | | | | | |
| 326 | 291 | 09.30.23 | | | | Innominate artery compression syndrome | | | | |
| 327 | AJ+ | 09.30.27 | | | | | Retro-oesophageal origin of aberrant innominate artery | | | |
| 328 | 292 | 09.31.00 | | | Vascular Ring | | | | | |
| 329 | 293 | 09.28.09 | | | | Double aortic arch | | | | |
| 330 | 294 | 09.31.35 | | | | Vascular ring of right aortic arch and left arterial duct or ligament | | | | |
| 331 | 295 | 09.31.34 | | | | Vascular ring of left aortic arch and right arterial duct or ligament | | | | |
| 332 | 296 | 09.09.06 | | | Anomalous origin of left pulmonary artery from right pulmonary artery | | | | | |
| 333 | 297 | 09.27.05 | | | Congenital arterial duct anomaly | | | | | |
| 334 | 298 | 09.27.21 | | | | Patent arterial duct | | | | |
| 335 | AK+ | 09.27.03 | | | | Absent arterial duct | | | | |
| 336 | AL+ | 09.27.04 | | | | Congenital aneurysm of arterial duct | | | | |
| 337 | AM+ | 09.27.41 | | | | Anomalous origin of arterial duct | | | | |
| 338 | AN+ | 09.27.82 | | | | Anomalous origin of arterial ligament | | | | |

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|-----|-----|----------|--|---------------------------------------|--|---|---|--|--|--|
| 339 | AO+ | 14.10.51 | | | | Fetal arterial duct narrowing-closure | | | | |
| 340 | 299 | 09.08.18 | | | Systemic-to-pulmonary collateral arteries | | | | | |
| 341 | 300 | 09.46.03 | | Congenital anomaly of coronary artery | | | | | | |
| 342 | 301 | 09.41.01 | | | Anomalous origin of coronary artery from pulmonary arterial tree | | | | | |
| 343 | 302 | 09.41.03 | | | | Anomalous origin of left coronary artery from pulmonary artery | | | | |
| 344 | 303 | 09.42.00 | | | Anomalous aortic origin or course of coronary artery | | | | | |
| 345 | 304 | 09.42.21 | | | | Anomalous aortic origin of coronary artery with ventriculo-arterial concordance | | | | |
| 346 | 305 | 09.46.26 | | | | | Right coronary artery from left aortic sinus with ventriculo-arterial concordance | | | |
| 347 | 306 | 09.46.21 | | | | | Left coronary artery from right aortic sinus with ventriculo-arterial concordance | | | |
| 348 | 307 | 09.43.04 | | | | Anterior descending from right coronary artery across right ventricular outflow tract | | | | |
| 349 | 308 | 09.43.05 | | | | Intramural proximal coronary arterial course | | | | |
| 350 | 309 | 09.43.13 | | | | Single coronary artery supplying all of heart | | | | |

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|-----|--------|----------|--|---------------------------------|---|---|--|--|--|--|
| 351 | 310 | 09.43.12 | | | Myocardial bridging of coronary artery | | | | | |
| 352 | 311 | 09.44.05 | | | Congenital coronary arterial orifice stenosis | | | | | |
| 353 | 312 | 09.44.19 | | | Congenital coronary arterial orifice atresia | | | | | |
| 354 | 313 | 09.45.16 | | | Congenital coronary arterial fistula | | | | | |
| 355 | 314 | 09.45.10 | | | | Congenital coronary arterial fistula to right ventricle | | | | |
| 356 | 315 | 09.45.22 | | | | Congenital coronary arterial fistula to left ventricle | | | | |
| 357 | 316 | 09.46.14 | | | Congenital coronary arterial aneurysm | | | | | |
| 358 | AP+ | 09.42.09 | | | Accessory coronary artery | | | | | |
| 359 | AQ+ | 09.46.44 | | | Congenital absence of coronary artery | | | | | |
| 360 | AR+ | 09.46.19 | | | Coronary arterial hypoplasia | | | | | |
| 361 | 317 | 10.01.05 | | Congenital pericardial anomaly | | | | | | |
| 362 | AS+ | 10.01.02 | | | Complete agenesis of pericardium | | | | | |
| 363 | AT+ | 10.01.01 | | | Partial agenesis of pericardium | | | | | |
| 364 | AU+ | 10.01.03 | | | Pleuropericardial cyst | | | | | |
| 365 | AV+ | 10.03.53 | | Congenital cardiac tumour | | | | | | |
| 366 | 318*** | 09.19.05 | | Pulmonary arteriovenous fistula | | | | | | |
| 367 | AW+ | 02.02.03 | | Bifid apex of heart | | | | | | |

Supplemental Table 2. IPCCC ICD-11 Definitions

Supplemental Table 1 presents the diagnostic hierarchy of the paediatric and congenital cardiac terms in the **ICD-11 Foundation**. Terms that appear in the **ICD-11 MMS** are presented in rows highlighted in yellow.

Supplemental Table 2 contains the definitions, commentary, synonyms, and abbreviations for these terms of the paediatric and congenital cardiac terms in the **ICD-11 Foundation**. Terms that appear in the **ICD-11 MMS** are presented in rows highlighted in yellow.

Supplemental Table 3 contains the various IPCCC ICD-11 Codes, including the IPCCC codes as well as the ICD-11 Foundation entity numbers and the ICD-11 MMS codes.

In the Supplemental Tables:

+ = New terms added by the **WHO** ICD-11 team since the original 318 terms contained in the publication [105] from 2017

** = Terms that code normal human anatomy, but are important to specify when part of a complex congenital cardiac malformation

*** = Terms that are not located in the paediatric and congenital cardiac section of ICD-11

Rows with numbers in the second column labelled “ICD-11 Row Number or Letter” contain terms in the original 318 terms contained in the publication [105] from 2017.

Rows with letters in the second column labelled “ICD-11 Row Number or Letter” contain new terms added by the **WHO** ICD-11 team since the original 318 terms contained in the publication [105] from 2017.

Supplemental Table 2. IPCCC ICD-11 Definitions

| ICD-11 New Row Number or Letter | ICD-11 Old Row Number or New Letter | IPCCC code | ICD-11 Congenital Cardiac term | Definition | Commentary | Synonyms | Abbreviations |
|---------------------------------|-------------------------------------|------------|---|---|--|---|---------------|
| 1 | 1 | 01.01.59 | Structural developmental anomaly of heart or great vessels | A congenital malformation of the heart and/or great vessels or an acquired abnormality unique to the congenitally malformed heart. | This term should be selected only if a more specific term does not exist. | Congenital anomaly of heart and/or great vessels and related acquired abnormality; Congenital heart disease; Congenital malformation of heart | |
| 2 | 2 | 03.01.13 | Congenital anomaly of position or spatial relationships of thoraco-abdominal organs | A congenital cardiovascular finding or malformation associated with an abnormal position of the heart or thoraco-abdominal organs, or an abnormal relative position of its component parts. | | | |
| 3 | 3 | 02.01.09 | Anomalous position-orientation of heart | A congenital cardiovascular finding / malformation in which there is an abnormality of the position or orientation of heart. | | Malposition of heart | |
| 4 | 4** | 02.01.03 | Laevocardia | A congenital cardiovascular finding in which the heart is predominantly to the left of the thoracic midline. | This is independent of the orientation of the cardiac apex. This is a normal finding and should be coded only in the context of complex heart disease. | Levocardia; Left-sided heart | |
| 5 | 5 | 02.01.02 | Dextrocardia | A congenital cardiovascular malformation in which the heart is predominantly to the right of the thoracic midline. | This is independent of the orientation of the cardiac apex. | Right-sided heart; heart in right chest; congenital dextrocardia of heart | |
| 6 | 6 | 02.01.04 | Mesocardia | A congenital cardiovascular malformation in which the heart is central or midline within the thorax. | | Midline heart | |
| 7 | 7 | 02.01.01 | Extrathoracic heart | A congenital cardiovascular malformation in which the heart is at least partially outside of the thorax. | | Ectopia cordis | |
| 8 | 8** | 01.03.00 | Usual atrial arrangement | A congenital cardiac finding in which the atrial laterality (sidedness) is normal. | This is a normal finding and should be coded only in the context of complex congenital heart disease. | Atrial situs solitus | |
| 9 | 9 | 01.03.06 | Abnormal atrial arrangement | A congenital cardiac malformation in which there is an abnormality of the laterality (or sidedness) of the atria. | | Abnormal atrial situs | |
| 10 | 10 | 01.03.01 | Atrial situs inversus | A congenital cardiac malformation in which the atrial morphologies and positions are the mirror image of normal. | | Mirror-image atrial arrangement | |

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|----|------|----------|---|--|---|--|--|
| 11 | 11 | 01.03.02 | Isomerism of right atrial appendages | A congenital cardiac malformation in which both atrial appendages have the morphology of a right atrial appendage. | | Bilateral right atrial appendages, isomeric right atrial appendages | |
| 12 | 12 | 01.03.03 | Isomerism of left atrial appendages | A congenital cardiac malformation in which both atrial appendages have the morphology of a left atrial appendage. | | Bilateral left atrial appendages, isomeric left atrial appendages | |
| 13 | 13 | 02.04.12 | Abnormal ventricular relationships | A congenital cardiac malformation in which the ventricular positions relative to each other or their laterality (sidedness) are abnormal. | | | |
| 14 | 14** | 02.03.01 | Right hand pattern ventricular topology | A congenital cardiac finding in which the chirality, or handedness, of the ventricles is normal, also known as D-loop. | Chirality or handedness with a right-handed right ventricle and means likening the morphological right ventricle to a right hand by representing the inflow by the thumb, outflow by the index finger, and septum by the palm. This is a normal finding but should be coded in the presence of abnormal positions of the atria or great arteries where it represents an abnormality of the interrelationships of the ventricles relative to the remainder of the heart. | D-loop ventricles, Dextro-ventricular looping, D-bulboventricular loop | |
| 15 | 15 | 02.03.02 | Left hand pattern ventricular topology | A congenital cardiac malformation in which the chirality, or handedness, of the ventricles is mirror image of normal, also known as L-loop. | Chirality or handedness with a left-handed right ventricle and means likening the morphological right ventricle to a left hand by representing the inflow by the thumb, outflow by the index finger, and septum by the palm. An example is congenitally corrected transposition of great arteries. | L-loop ventricles, Levo-ventricular looping, Sinistro-ventricular looping, L-bulboventricular loop | |
| 16 | 16 | 02.03.03 | Crisscross heart | A congenital cardiac malformation in which the atrioventricular inflow vectors are approximately orthogonal or perpendicular. | | Twisted atrioventricular connections; Criss-cross heart | |
| 17 | 17 | 02.04.00 | Superior-inferior ventricular relationship | A congenital cardiac malformation in which the ventricles are positioned superior-inferior to each other. | Excludes situations where one ventricle does not receive an atrioventricular valve (univentricular atrioventricular connection). | Upstairs-downstairs ventricular relationship, supero-inferior heart | |
| 18 | 18 | 02.06.12 | Abnormal relationship of great arterial roots | A congenital cardiovascular malformation in which the aortic root or its remnant is abnormally positioned relative to the pulmonary root or its remnant. | | Abnormal relationships of great arteries, Abnormal relationships of great vessels | |

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|----|----|----------|---|--|--|---|--|
| 19 | 19 | 02.06.03 | Aortic root directly anterior to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned directly anterior to the pulmonary root or its remnant. | | Antero-posterior great arteries, Antero-posterior great vessels, A-malposed aorta, A-malposed great arteries, Aorta directly anterior to pulmonary artery | |
| 20 | 20 | 02.06.02 | Aortic root anterior and rightward to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned anterior and to the right of the pulmonary root or its remnant. | | D-malposed great arteries with anterior aorta, D-malposed great vessels with anterior aorta, Dextroposed great arteries with anterior aorta, Dextroposed great vessels with anterior aorta, D-transposed great arteries, D-transposed great vessels | |
| 21 | 21 | 02.06.04 | Aortic root anterior and leftward to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned anterior and to the left of the pulmonary root or its remnant. | | L-malposed great arteries with anterior aorta, L-malposed great vessels with anterior aorta, Levoposed great arteries with anterior aorta, Levoposed great vessels with anterior aorta, L-transposed great arteries with anterior aorta, L-transposed great vessels with anterior aorta | |
| 22 | 22 | 02.06.01 | Aortic root side by side and directly rightward to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned directly to the right of the pulmonary root or its remnant. | | D-malposed side-by-side great arteries, D-malposed side-by-side great vessels, Dextroposed side-by-side great arteries, Dextroposed side-by-side great vessels | |
| 23 | 23 | 02.06.05 | Aortic root side by side and directly leftward to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned directly to the left of the pulmonary root or its remnant. | | L-malposed side-by-side great arteries, L-malposed side-by-side great vessels, Levoposed side-by-side great arteries, Levoposed side-by-side great vessels | |
| 24 | 24 | 02.06.07 | Aortic root directly posterior to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned directly posterior to the pulmonary root or its remnant. | | | |

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|----|------|----------|---|---|---|---|--|
| 25 | 25** | 02.06.00 | Aortic root posterior and rightward to pulmonary root | A congenital cardiovascular finding in which the aortic root or its remnant is positioned posterior and to the right of the pulmonary root or its remnant. | This is a normal finding but should only be coded in the context of complex congenital heart disease. | Segmental analysis D with posterior aorta, Normally related great arteries, Normally related great vessels, D-malposed great arteries with posterior aorta, D-malposed great vessels with posterior aorta | |
| 26 | 26 | 02.06.06 | Aortic root posterior and leftward to pulmonary root | A congenital cardiovascular malformation in which the aortic root or its remnant is positioned posterior and to the left of the pulmonary root or its remnant. | | L-malposed great arteries with posterior aorta, L-malposed great vessels with posterior aorta, Levoposed great arteries, Levoposed great vessels, Mirror imaged normally related great arteries, Mirror imaged normally related great vessels | |
| 27 | 27 | 02.07.03 | Abnormal intrapericardial course of great arteries | A congenital cardiovascular malformation in which the course of the ascending aorta or its remnant is abnormal relative to the course of the pulmonary trunk or its remnant. | The normal course of the proximal great vessels results in a nearly orthogonal relationship of the axis of the aorta to the axis of the pulmonary artery. | | |
| 28 | 28** | 02.07.00 | Spiralling course of great arteries | A congenital cardiovascular finding in which the course of the great arteries results in a nearly orthogonal relationship of the axis of the ascending aorta to the axis of the pulmonary trunk. | This is a normal finding but should be coded in the presence of abnormal positions of the great arteries relative to the ventricles. | Normal course of great arteries | |
| 29 | 29 | 02.07.01 | Parallel course of great arteries | A congenital cardiovascular finding in which the course of the great arteries results in a nearly parallel relationship of the axis of the ascending aorta to the axis of the pulmonary trunk. | | | |
| 30 | 30 | 03.01.02 | Visceral heterotaxy | A congenital malformation in which the internal thoraco-abdominal organs demonstrate abnormal arrangement across the left-right axis of the body. By convention, in congenital cardiology, heterotaxy syndrome does not include patients with complete mirror-imaged arrangement of the internal organs along the left-right axis also known as "total mirror imagery" or "situs inversus totalis". | | Situs ambiguus; Situs ambiguus; Heterotaxy; Heterotaxy syndrome; Heterotaxia; Heterotaxia syndrome; Splenic syndromes; Abnormal arrangement of thoraco-abdominal organs | |
| 31 | 31 | 03.01.04 | Right isomerism | A congenital cardiovascular malformation that is a variant of heterotaxy syndrome in which some paired structures on opposite sides of the left-right axis of the body are symmetrical mirror images of each other and have the morphology of the normal right-sided structures. | | Bilateral right-sidedness; Ivemark syndrome; Asplenia syndrome; Splenic agenesis syndrome | |

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| 32 | 32 | 03.01.05 | Left Isomerism | A congenital cardiovascular malformation that is a variant of an heterotaxy syndrome in which some paired structures on opposite sides of the left-right axis of the body are symmetrical mirror images of each other and have the morphology of the normal left-sided structures. | | Bilateral left-sidedness; Polysplenia syndrome; Moller syndrome | |
| 33 | 33 | 03.01.03 | Total mirror imagery | A congenital malformation in which there is complete mirror-imaged arrangement of the internal organs along the left-right axis of the body. | | Situs inversus totalis; Situs inversus viscerum; Situs inversus | |
| 34 | 34 | 01.03.09 | Congenital anomaly of an atrioventricular or ventriculo-arterial connection | A congenital cardiovascular malformation in which one or more of the following connections is abnormal: 1) the morphologically right atrium to the morphologically right ventricle, 2) the morphologically left atrium to the morphologically left ventricle, 3) the morphologically right ventricle to the pulmonary trunk, 4) the morphologically left ventricle to the aorta. | This excludes codes for hearts with a univentricular atrioventricular connection (mitral atresia, tricuspid atresia and double inlet ventricle), as these are listed under Functionally Univentricular Heart. | | |
| 35 | 35** | 01.04.00 | Concordant atrioventricular connections | A congenital cardiovascular finding in which the morphologically right atrium connects to the morphologically right ventricle and the morphologically left atrium connects to the morphologically left ventricle. | This is a normal finding that should only be coded when associated with abnormal atrial arrangement and/or ventriculo-arterial connections. | Normal atrioventricular connections; Atrioventricular concordance | |
| 36 | 36 | 01.04.01 | Discordant atrioventricular connections | A congenital cardiac malformation in which the morphologically right atrium connects to the morphologically left ventricle and the morphologically left atrium connects to the morphologically right ventricle. | | Atrioventricular discordance | |
| 37 | 37 | 01.01.03 | Congenitally corrected transposition of great arteries | A congenital cardiovascular malformation in which the morphologically right atrium connects to the morphologically left ventricle, the morphologically left atrium connects to the morphologically right ventricle, the morphologically right ventricle connects to the aorta, and the morphologically left ventricle connects to the pulmonary trunk. | | Transposition (S,L,L); Transposition (I,D,D); Discordant atrioventricular & ventriculo-arterial connections; Corrected transposition of the great arteries; Corrected transposition of the great vessels; Congenitally corrected transposition of the great vessels; Double discordance; Physiologically corrected transposition of the great vessels; Physiologically corrected transposition of the great arteries | ccTGA |
| 38 | 38 | 01.05.01 | Transposition of the great arteries | A congenital cardiovascular malformation in which the morphologically right ventricle connects to the aorta and the morphologically left ventricle connects to the pulmonary trunk. | | Discordant ventriculo-arterial connections; Transposition of the great vessels | TGA; TGV |

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| 39 | 39 | 01.01.02 | Transposition of the great arteries with concordant atrioventricular connections and intact ventricular septum | A congenital cardiovascular malformation in which the morphologically right atrium connects to the morphologically right ventricle, the morphologically left atrium connects to the morphologically left ventricle, the morphologically right ventricle connects to the aorta, the morphologically left ventricle connects to the pulmonary trunk, and a ventricular septal defect is not present. | | Transposition {S,D,D}; Transposition {L,L,L}; Concordant atrioventricular and discordant ventriculo-arterial connections with intact ventricular septum; Simple transposition | TGA & IVS; D-TGA |
| 40 | 40 | 01.01.10 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect | A congenital cardiovascular malformation in which the morphologically right atrium connects to the morphologically right ventricle, the morphologically left atrium connects to the morphologically left ventricle, the morphologically right ventricle connects to the aorta, the morphologically left ventricle connects to the pulmonary trunk, and one or more ventricular septal defects are present. | | Concordant atrioventricular connections and discordant ventriculo-arterial connections with ventricular septal defect | TGA & VSD |
| 41 | 41 | 01.01.10 + 07.09.01 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect and left ventricular outflow tract obstruction | A congenital cardiovascular malformation in which the morphologically right atrium connects to the morphologically right ventricle, the morphologically left atrium connects to the morphologically left ventricle, the morphologically right ventricle connects to the aorta, the morphologically left ventricle connects to the pulmonary trunk, one or more ventricular septal defects are present, and left ventricular outflow tract obstruction is present. | | Concordant atrioventricular connections and discordant ventriculo-arterial connections with ventricular septal defect and left ventricular outflow tract obstruction; Transposition with ventricular septal defect and pulmonary stenosis | TGA & VSD & LVOTO; TGA & VSD & PS |
| 42 | 42** | 01.05.00 | Concordant ventriculo-arterial connections | A congenital cardiovascular finding in which the left ventricle is connected to the aorta or its remnant and the right ventricle is connected to the pulmonary trunk or its remnant. | This is a normal finding that should only be coded when associated with abnormal atrioventricular connections and/or ventriculo-arterial arrangement | Concordant ventriculo-arterial alignments | |
| 43 | 43 | 01.05.10 | Concordant ventriculo-arterial connections with parallel great arteries | A congenital cardiovascular malformation in which the left ventricle is connected by way of an infundibulum to the aorta or its remnant, the right ventricle is connected to the pulmonary trunk or its remnant, and the proximal arteries have a parallel course. | | Anatomically corrected malposition of the great arteries | ACM |
| 44 | 44 | 01.01.04 | Double outlet right ventricle | A congenital cardiovascular malformation in which both great arteries arise entirely or predominantly from the morphologically right ventricle. | | | DORV |
| 45 | 45 | 01.01.17 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a subaortic or doubly committed (with absence or deficiency of the conal septum) ventricular septal defect, and pulmonary outflow tract obstruction. | | Double outlet right ventricle with subaortic or doubly committed interventricular communication & pulmonary stenosis (Fallot type) | DORV & PS |

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| 46 | 46 | 01.01.17 + 07.13.04 | Double outlet right ventricle with subaortic ventricular septal defect and pulmonary stenosis, Fallot type | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a subaortic ventricular septal defect, and pulmonary outflow tract obstruction. | | Double outlet right ventricle with subaortic interventricular communication & pulmonary stenosis (Fallot type) | DORV & PS |
| 47 | 47 | 01.01.17 + 07.13.02 | Double outlet right ventricle with doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a doubly committed ventricular septal defect with absence or deficiency of the conal septum, and pulmonary outflow tract obstruction. | | Double outlet right ventricle with doubly committed interventricular communication & pulmonary stenosis (Fallot type) | DORV & PS |
| 48 | 48 | 01.01.18 | Double outlet right ventricle with subpulmonary ventricular septal defect, transposition type | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections that is associated with a subpulmonary ventricular septal defect (includes Taussig-Bing heart). | | Double outlet right ventricle with subpulmonary interventricular communication (transposition type); Taussig-Bing syndrome; Taussig-Bing malformation; Taussig-Bing heart | |
| 49 | 49 | 01.01.19 | Double outlet right ventricle with non-committed ventricular septal defect | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections that is associated with ventricular septal defect that is remote from the ventricular outflow tracts and usually within the inlet or muscular septum. | | Double outlet right ventricle with remote ventricular septal defect; Double outlet right ventricle with uncommitted ventricular septal defect; Double outlet right ventricle with non-committed interventricular communication | |
| 50 | 50 | 01.01.40 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect without pulmonary stenosis, ventricular septal defect type | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a subaortic or doubly committed (with absence or deficiency of the conal septum) ventricular septal defect, and unobstructed pulmonary outflow tract. | | Double outlet right ventricle with subaortic or doubly committed interventricular communication without pulmonary stenosis (ventricular septal defect type) | |
| 51 | 51 | 01.01.40 + 07.13.04 | Double outlet right ventricle with subaortic ventricular septal defect without pulmonary stenosis | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a subaortic or doubly committed (with absence or deficiency of the conal septum) ventricular septal defect, and unobstructed pulmonary outflow tract. | | Double outlet right ventricle with subaortic or doubly committed interventricular communication without pulmonary stenosis (ventricular septal defect type) | |

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| 52 | 52 | 01.01.40 + 07.13.02 | Double outlet right ventricle with doubly committed ventricular septal defect without pulmonary stenosis | A congenital cardiovascular malformation that is a variant of double outlet right ventricle with concordant atrioventricular connections, a doubly committed ventricular septal defect with absence or deficiency of the conal septum, and unobstructed pulmonary outflow tract. | | Double outlet right ventricle with doubly committed interventricular communication without pulmonary stenosis (ventricular septal defect type) | |
| 53 | 53 | 01.01.24 | Double outlet right ventricle with intact ventricular septum | A congenital cardiovascular malformation that is a variant of double outlet right ventricle that is associated with an intact ventricular septum. | | | |
| 54 | 54 | 01.05.03 | Double outlet left ventricle | A congenital cardiovascular malformation in which both great arteries arise entirely or predominantly from the morphologically left ventricle. | | | DOLV |
| 55 | 55 | 09.01.01 | Common arterial trunk | A congenital cardiovascular malformation in which a single arterial trunk arises from the heart, giving origin sequentially to the coronary arteries, one or more pulmonary arteries, and the systemic arterial circulation. | This category includes Collett and Edwards truncus arteriosus types I, II, III and Van Praagh truncus arteriosus types 1, 2, 3, and 4. This category does not include Collett and Edwards truncus arteriosus type IV (which consists of pulmonary atresia with ventricular septal defect and absent intrapericardial pulmonary arteries) or "Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral arteries". | Truncus arteriosus communis; Persistent truncus arteriosus; Common truncus arteriosus; Truncus arteriosus | CAT, PTA, TAC, TA |
| 56 | 56 | 09.01.15 | Common arterial trunk with aortic dominance | A congenital cardiovascular malformation in which a common arterial trunk is associated with an unobstructed aortic arch. | | | |
| 57 | 57 | 09.01.14 | Common arterial trunk with aortic dominance and both pulmonary arteries arising from trunk | A congenital cardiovascular malformation in which a common arterial trunk is associated with an unobstructed aortic arch and both pulmonary arteries arise from the common arterial trunk. | This category includes Collett and Edwards truncus arteriosus types I, II, III and Van Praagh truncus arteriosus types 1, 2. | | |
| 58 | 58 | 09.01.11 | Common arterial trunk with aortic dominance and one pulmonary artery absent from the trunk, isolated pulmonary artery | A congenital cardiovascular malformation in which a common arterial trunk is associated with an unobstructed aortic arch and one pulmonary artery does not arise from the common arterial trunk. | | Truncus arteriosus with discontinuous pulmonary arteries; Common arterial trunk with discontinuous pulmonary arteries; Van Praagh truncus arteriosus type 3 | |
| 59 | 59 | 09.01.12 | Common arterial trunk with pulmonary dominance and aortic arch obstruction | A congenital cardiovascular malformation in which a common arterial trunk is associated with aortic arch obstruction or interruption. | | Common arterial trunk with aortic arch obstruction; Truncus arteriosus with aortic arch obstruction; Van Praagh truncus arteriosus type 4 | |

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| 60 | 60 | 09.01.18 | Common arterial trunk with pulmonary dominance and interrupted aortic arch | A congenital cardiovascular malformation in which a common arterial trunk is associated with an interrupted aortic arch. | | Truncus arteriosus with interrupted aortic arch; Van Praagh truncus arteriosus type 4 | |
| 61 | 61 | 09.01.19 | Common arterial trunk with pulmonary dominance and aortic coarctation | A congenital cardiovascular malformation in which a common arterial trunk is associated with aortic coarctation. | | Truncus arteriosus with coarctation of aorta; Van Praagh truncus arteriosus type 4 | |
| 62 | A+ | 09.02.10 | Atypical truncal valve | A congenital cardiovascular malformation in which the truncal valve does not have the usual morphological or functional attributes at birth. Additional information: this may include truncal valves with more than trivial or mild dysplasia, stenosis, or regurgitation at birth, absent or perforated truncal valve leaflet(s), or a truncal valve that is made up of less than three or more than four leaflets. | | Congenital abnormality of truncal valve | |
| 63 | 62 | 09.02.19 | Congenital truncal valvar regurgitation | A congenital cardiovascular malformation in which there is backward flow through the truncal valve. | | Congenital truncal valvar incompetence; Congenital truncal valvar insufficiency; Congenital truncal valve regurgitation; Congenital truncal valve insufficiency; Truncal insufficiency; Truncal regurgitation; Truncal incompetence | |
| 64 | 63 | 09.02.18 | Congenital truncal valvar stenosis | A congenital cardiovascular malformation in which there is obstruction to flow through the truncal valve due to narrowing or stricture. | | Congenital truncal valve stenosis | |
| 65 | 64 | 09.02.01 | Dysplasia of truncal valve | A congenital cardiovascular malformation where the truncal valve leaflets are markedly thickened with restricted mobility, characterized by the presence of myxomatous tissue. | | Congenital truncal valve dysplasia | |
| 66 | 65 | 04.00.07 | Congenital anomaly of mediastinal vein | A congenital cardiovascular malformation in which there is an abnormality of a mediastinal vein including but not limited to: pulmonary veins, caval veins, coronary sinus, coronary veins, hepatic veins connecting to the heart, brachiocephalic veins, azygos veins, and/or levo-atrial cardinal veins. | | | |
| 67 | 66 | 04.00.08 | Congenital anomaly of mediastinal systemic vein | A congenital cardiovascular malformation in which there is an abnormality of a mediastinal systemic vein including but not limited to: caval veins, coronary sinus, coronary veins, hepatic veins connecting to the heart, brachiocephalic veins, and/or azygos veins. | | | |
| 68 | 67 | 04.01.09 | Congenital anomaly of superior caval vein | A congenital cardiovascular malformation in which there is an abnormality of the superior caval vein (superior vena cava). | | Congenital anomaly of superior vena cava | Congenital anomaly of SCV; Congenital |

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| | | | | | | | anomaly of SVC |
| 69 | 68 | 04.01.05 | Absent right superior caval vein | A congenital cardiovascular malformation in which there is no right superior caval vein (superior vena cava) in the setting of the usual atrial arrangement (atrial situs solitus). | | Absent right superior vena cava | Absent RSCV; Absent R SVC |
| 70 | 69 | 04.01.25 | Left superior caval vein | A congenital cardiovascular malformation in which there is a left superior caval vein (superior vena cava). | Unless the code for absent right superior caval vein is used, this term assumes that a right superior caval vein is present and, therefore, there are bilateral superior caval veins with or without a bridging vein. | Bilateral superior venae cavae; Bilateral superior caval veins; Persistent left superior caval vein; Persistent left superior vena cava | Persistent LSCV, Persistent LSVC, Bilateral SCVs, Bilateral SVCs |
| 71 | 70 | 04.01.01 | Left superior caval vein to coronary sinus | A congenital cardiovascular malformation in which there is a left superior caval vein (superior vena cava) entering a left-sided coronary sinus. | Unless the code for absent right superior caval vein is used, this term assumes that a right superior caval vein is present and, therefore, there are bilateral superior caval veins with or without a bridging vein. | Persistent left superior caval vein to coronary sinus; Persistent left superior vena cava to coronary sinus | LSCV to CS, LSVC to CS, PLSCV to CS; PLSVC to CS |
| 72 | 71 | 04.01.02 | Left superior caval vein to left-sided atrium | A congenital cardiovascular malformation in which there is a left superior caval vein (superior vena cava) connecting directly to the left-sided atrium. | Unless the code for absent right superior caval vein is used, this term assumes that a right superior caval vein is present and, therefore, there are bilateral superior caval veins with or without a bridging vein. This term should not be used in the presence of situs inversus of the atria where this is the expected arrangement. | Left superior caval vein persisting to left-sided atrium; Left superior vena cava to left-sided atrium | Persistent LSCV to LA; Persistent LSVC to LA |
| 73 | B ⁺ | 04.01.07 | Congenital stenosis of superior caval vein | A congenital cardiovascular malformation in which there is narrowing or stricture of a superior caval vein (superior vena cava). | | | |
| 74 | 72 | 04.03.08 | Congenital anomaly of inferior caval vein | A congenital cardiovascular malformation in which there is an abnormality of the inferior caval vein (inferior vena cava). | | Congenital malformation of inferior vena cava; Congenital anomaly of the inferior vena cava | |
| 75 | 73 | 04.03.10 | Interrupted inferior caval vein with absent suprarenal segment and azygos continuation | A congenital cardiovascular malformation in which there is an absence of the renal-to-hepatic segment of the inferior caval vein (inferior vena cava) with connection to a superior caval vein (superior vena cava) through the azygos venous system. | | Interrupted inferior vena cava with absent suprarenal segment and azygos continuation | |
| 76 | C ⁺ | 04.03.06 | Congenital stenosis of inferior caval vein | A congenital cardiovascular malformation in which there is narrowing or stricture of the inferior caval vein (inferior vena cava). | | | |

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| 77 | 74 | 04.04.05 | Congenital anomaly of the coronary sinus | A congenital cardiovascular malformation in which there is an abnormality of the coronary sinus. | | | |
| 78 | 75 | 04.04.13 | Unroofed coronary sinus | A congenital cardiac malformation in which there is direct communication between the left atrium and the coronary sinus. | This term includes partial, and complete unroofing or fenestration of the coronary sinus in the presence or absence of an interatrial communication. If an interatrial communication is present through the coronary sinus orifice, then also select the term "interatrial communication through coronary sinus orifice". If a left superior caval vein (superior vena cava) is present then one should also select the term for "left superior caval vein (superior vena cava) to left-sided atrium". | | |
| 79 | D+ | 04.04.02 | Completely unroofed coronary sinus | A congenital cardiac malformation in which there is complete absence of the walls of the coronary sinus and left atrium that usually separate the lumen of the coronary sinus from the left atrial cavity. | | | |
| 80 | E+ | 04.04.01 | Partially unroofed coronary sinus | A congenital cardiac malformation in which there is a communication between the lumen of the coronary sinus and the left atrial cavity. | | | |
| 81 | 76 | 04.04.14 | Coronary sinus orifice atresia or stenosis | A congenital cardiac malformation in which the orifice of the coronary sinus is narrowed or absent. | | Coronary sinus ostial atresia or stenosis | |
| 82 | 77*** | 04.02.13 | Anomalous hepatic venous connection to heart | A congenital cardiovascular malformation in which a hepatic vein or hepatic veins do not connect to the inferior caval vein (inferior vena cava) but connect directly to the heart. | This term does not apply to interruption of the inferior caval vein (inferior vena cava) with a single connection of the hepatic veins to the heart. Coding note: This term in ICD-11 resides in the section entitled "Developmental anomalies of the liver" and is a child of "Congenital anomaly of the hepatic veins". | | |
| 83 | 78 | 04.08.04 | Congenital anomaly of pulmonary vein | A congenital cardiovascular malformation in which there is an abnormality of the pulmonary veins. | | Congenital malformation of pulmonary vein | |
| 84 | 79 | 04.08.07 | Anomalous pulmonary venous connection | A congenital cardiovascular malformation in which one or more pulmonary vein(s) do(es) not connect normally to the morphologically left atrium. | | | APVC |
| 85 | 80 | 04.08.05 | Total anomalous pulmonary venous connection | A congenital cardiovascular malformation in which none of the pulmonary veins connect to the morphologically left atrium. | | Totally anomalous pulmonary venous connection; Total anomalous pulmonary venous return | TAPVC, TAPVR, TAPVD |

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| 86 | 81 | 04.06.00 | Total anomalous pulmonary venous connection of the supracardiac type | A congenital cardiovascular malformation with total anomalous pulmonary venous connection to the superior caval vein (superior vena cava) or one of its venous tributaries. | | Total anomalous pulmonary venous connection Type 1 | TAPVC Type 1 |
| 87 | 82 | 04.08.10 | Total anomalous pulmonary venous connection of the cardiac type | A congenital cardiovascular malformation with total anomalous pulmonary venous connection to the right atrium directly or to the coronary sinus or to both. | | Total anomalous pulmonary venous connection Type 2; Total anomalous pulmonary venous connection, intracardiac | TAPVC Type 2 |
| 88 | 83 | 04.08.20 | Total anomalous pulmonary venous connection of the infracardiac type | A congenital cardiovascular malformation with infradiaphragmatic total anomalous pulmonary venous connection. | | Total anomalous pulmonary venous connection Type 3 | TAPVC Type 3 |
| 89 | 84 | 04.08.30 | Total anomalous pulmonary venous connection of the mixed type | A congenital cardiovascular malformation with total anomalous pulmonary venous connection at two or more levels (supracardiac, cardiac, or infracardiac). | | Total anomalous pulmonary venous connection Type 4 | TAPVC Type 4 |
| 90 | 85 | 04.07.01 | Partial anomalous pulmonary venous connection | A congenital cardiovascular malformation in which one or more (but not all) of the pulmonary veins connect anomalously to the right atrium or to one or more of its venous tributaries and the remaining pulmonary veins connect to the left atrium. | | Partially anomalous pulmonary venous connection; Partial anomalous pulmonary venous return | PAPVC. PAPVD, PAPVR |
| 91 | 86 | 01.01.16 | Partial anomalous pulmonary venous connection of Scimitar type | A congenital cardiovascular malformation with partial anomalous pulmonary venous connection in which some of the pulmonary veins (usually the right pulmonary veins) connect anomalously to the inferior caval vein (inferior vena cava) or to the right atrium at the insertion of the inferior vena cava. | | Partial anomalous pulmonary venous return of Scimitar type | |
| 92 | 87 | 03.02.23 | Scimitar syndrome | A congenital cardiopulmonary malformation with "partial anomalous pulmonary venous connection of Scimitar type" and one or more of the following: hypoplasia of the right lung with bronchial anomalies, dextrocardia, hypoplasia of the right pulmonary artery, lobar lung sequestration, and anomalous systemic arterial supply to the lower lobe of the right lung directly from the aorta or its main branches. | | Pulmonary venolobar syndrome | |
| 93 | 88 | 04.08.06 | Obstructed anomalous pulmonary venous pathway or connection | A congenital cardiovascular malformation in which the pathway of one or more anomalous pulmonary veins is blocked or impeded. | | Obstructed anomalous pulmonary venous return | |
| 94 | 89 | 04.08.31 | Congenital pulmonary venous stenosis or hypoplasia | A congenital cardiovascular malformation with a pathologic narrowing of one or more pulmonary veins including diffuse hypoplasia, long segment focal/tubular stenosis and/or discrete stenosis. | | Congenital pulmonary vein stenosis and/or hypoplasia | |
| 95 | 90 | 04.08.02 | Congenital atresia of pulmonary vein | A congenital cardiovascular malformation with atresia of one or more pulmonary veins. | | Congenital pulmonary vein atresia | |
| 96 | 91 | 05.00.02 | Congenital anomaly of an atrium or atrial septum | A congenital cardiovascular malformation in which there is an abnormality of an atrium and/or atrial septum. | | Congenital atrial malformation | |
| 97 | 92 | 05.07.01 | Congenital anomaly of atrial septum | A congenital cardiac malformation in which there is an abnormality of the atrial septum. | | Congenital malformation of atrial septum | |

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| 98 | 93 | 05.06.04 | Restrictive interatrial communication or intact atrial septum when an interatrial shunt is physiologically necessary | A cardiac finding in which there is either absence of an interatrial communication or the communication is smaller than is required to permit physiologically adequate interatrial flow. | This is always an abnormal finding prenatally but is a postnatal finding that should only be coded when present prenatally or when associated with other cardiac abnormalities that result in physiological disturbances secondary to the absence of a larger interatrial communication (such as mitral or tricuspid valve atresia). | Restrictive interatrial communication in the presence of an obligatory interatrial shunt; Restrictive interatrial communication or intact atrial septum in the presence of an obligatory interatrial shunt | |
| 99 | 94 | 05.03.03 | Aneurysm of the atrial septum | A congenital cardiac finding in which the septum primum is abnormally large (redundant) and results in aneurysmal protrusion into one or both atria. | | Atrial septal aneurysm | ASA |
| 100 | 95 | 05.04.01 | Interatrial communication | A congenital cardiac malformation in which there is a hole or pathway between the atrial chambers. | *Although loosely often termed an "atrial septal defect", not all interatrial communications have a defect in the true atrial septum, and so "atrial septal defect" in this context is not a true synonym | Atrial septal defect*; Congenital atrial septal defect; Auricular septal defect; Interatrial septal defect | ASD |
| 101 | 96** | 05.03.01 | Patent oval foramen | A congenital cardiovascular finding in which there is a small interatrial communication (or potential communication) confined to the region of the oval fossa (fossa ovalis) characterized by no deficiency of the primary atrial septum (septum primum) and a normal limbus with no deficiency of the septum secundum (superior interatrial fold). | | Patent foramen ovale; Open foramen ovale; Open oval foramen; Persistent foramen ovale | PFO |
| 102 | 97 | 05.04.02 | Atrial septal defect within oval fossa | A congenital cardiac malformation in which there is an interatrial communication confined to the region of the oval fossa (fossa ovalis), most commonly due to a deficiency of the primary atrial septum (septum primum) but deficiency of the septum secundum (superior interatrial fold) may also contribute. | | Secundum atrial septal defect; Ostium secundum atrial septal defect | ASD II; OSASD |
| 103 | 98 | 05.05.00 | Sinus venosus defect | A congenital cardiovascular malformation in which there is a caval vein (vena cava) and/or pulmonary vein (or veins) that overrides the atrial septum or the septum secundum (superior interatrial fold) producing an interatrial or anomalous veno-atrial communication. | Although the term sinus venosus atrial septal defect is commonly used, the lesion is more properly termed a sinus venosus communication because, while it functions as an interatrial communication, this lesion is not a defect of the atrial septum. | Sinus venosus atrial septal defect; Sinus venosus communication | |
| 104 | 99 | 05.06.02 | Common atrium with separate atrioventricular junctions | A congenital cardiovascular malformation in which there is complete or near-complete absence of the interatrial septum. | | Single atrium; Atrium communis | |

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| 105 | 100 | 05.05.03 | Interatrial communication through coronary sinus orifice | A congenital cardiovascular malformation in which there is a communication between the left atrium and the coronary sinus allowing interatrial communication through the coronary sinus ostium. | "Interatrial communication through coronary sinus orifice" may or may not be associated with a persistent left superior caval vein (superior vena cava). This occurs in the absence of the coronary sinus (total unroofing of the coronary sinus) or partial unroofing of the coronary sinus. | Coronary sinus atrial septal defect | |
| 106 | 101 | 05.01.13 | Congenital anomaly of right atrium | A congenital cardiac malformation in which there is an abnormality of the right atrium. | | | |
| 107 | 102 | 05.01.21 | Divided right atrium | A congenital cardiac malformation in which the right atrium is partially divided by a large or obstructive Eustachian valve. | | Cor triatriatum dexter; Cor triatriatum dextrum; Right cor triatriatum | |
| 108 | F+ | 05.01.04 | Chiari network | A congenital cardiac finding in which there is a filamentous, web-like structure originating from the Eustachian valve near the orifice of the inferior caval vein (inferior vena cava) and connecting to variable parts of the right atrium. | | Filigreed network of venous valves | |
| 109 | 103 | 05.01.06 | Left-sided juxtaposition of the atrial appendages | A congenital cardiac malformation in which the right atrial appendage extends from the right atrium, behind the great arteries, to lie adjacent to the left atrial appendage. | This is frequently associated with horizontal orientation of the atrial septum, hypoplasia or atresia of the tricuspid valve, hypoplasia of the right ventricle, transposition of the great arteries or double outlet right ventricle, and subpulmonary or subaortic stenosis. | | |
| 110 | 104 | 05.01.12 | Congenital giant right atrium | A congenital cardiac malformation in which the right atrium is severely dilated. This is an isolated finding not secondary to abnormalities of the tricuspid valve or right ventricle. | | Congenital right atrial aneurysm | |
| 111 | 105 | 05.02.11 | Congenital anomaly of left atrium | A congenital cardiac malformation in which there is an abnormality of the left atrium. | | | |
| 112 | 106 | 05.02.01 | Divided left atrium | A congenital cardiac malformation in which there is a partition that divides the left atrium into a posterior chamber that receives some or all of the pulmonary veins and an anterior chamber that communicates with the left atrial appendage and atrioventricular junction (usually the mitral valve). | In differentiating cor triatriatum from supralvar mitral ring, in cor triatriatum the posterior compartment contains the pulmonary veins while the anterior contains the left atrial appendage and atrioventricular junction (usually the mitral valve); in supralvar mitral ring, the anterior compartment contains only the mitral valve orifice. | Cor triatriatum sinister; Cor triatriatum sinistrum; Left cor triatriatum | |

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| 113 | 107 | 05.02.04 | Right-sided juxtaposition of the atrial appendages | A congenital cardiac malformation in which the left atrial appendage extends from the left atrium, behind the great arteries, to lie adjacent to the right atrial appendage. | This is commonly associated with hypoplasia or atresia of the mitral valve, hypoplasia of the left ventricle, normal (i.e., subpulmonary only) conus and may be seen with atrioventricular septal defect (common atrioventricular canal) or subaortic or aortic stenosis or atresia. | | |
| 114 | 108 | 06.00.15 | Congenital anomaly of an atrioventricular valve or atrioventricular septum | A congenital cardiac malformation in which there is an abnormality of an atrioventricular valve or atrioventricular septum. | | | |
| 115 | 109 | 06.01.11 | Congenital anomaly of tricuspid valve | A congenital cardiac malformation in which there is an abnormality of the tricuspid valve. | Tricuspid atresia is listed in the functionally univentricular heart section. | Congenital tricuspid valve anomaly | |
| 116 | 110 | 06.01.25 | Congenital tricuspid regurgitation | A congenital cardiac finding in which there is backward flow through the tricuspid valve. | | Congenital tricuspid insufficiency; Congenital tricuspid incompetence; congenital tricuspid valve regurgitation; Congenital tricuspid valve insufficiency; Congenital tricuspid valve incompetence | |
| 117 | 111 | 06.01.07 | Congenital tricuspid valvar stenosis | A congenital cardiovascular malformation of the tricuspid valve in which there is narrowing or stricture (obstruction to flow) | | Congenital tricuspid valve stenosis; Congenital stenosis of tricuspid valve; Congenital tricuspid stenosis | |
| 118 | 112 | 06.01.04 | Tricuspid annular hypoplasia | A congenital cardiac malformation of the tricuspid valve in which there is annular hypoplasia (incomplete development or underdevelopment so that it is abnormally small [below the lower limit of normal adjusted for body size]). Hypoplasia may or may not be associated with stenosis. | | Hypoplasia of tricuspid valvar annulus; Hypoplasia of the tricuspid annulus | |
| 119 | 113 | 06.01.03 | Dysplasia of tricuspid valve | A congenital cardiac malformation of the tricuspid valve, commonly consisting of leaflet thickening and restricted mobility, with normally hinged leaflets. | This diagnosis is not used for patients with Ebstein malformation of tricuspid valve, which is characterized by abnormally hinged tricuspid valve. | Dysplasia of tricuspid valve; tricuspid valvar dysplasia; dysplastic tricuspid valve | |
| 120 | 114 | 06.01.09 | Straddling tricuspid valve | A congenital cardiac malformation in which the tricuspid subvalvar apparatus has attachments within both ventricles. | This may or may not be associated with valvar overriding. | | |
| 121 | 115 | 06.01.05 | Overriding tricuspid valve | A congenital cardiac malformation in which the tricuspid valve annulus lies in part above both the right and left ventricles. | | | |

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| 122 | 116 | 06.01.34 | Ebstein malformation of tricuspid valve | A congenital cardiac malformation of the tricuspid valve and right ventricle that is characterized by incomplete delamination of the septal and inferior (posterior) tricuspid valvar leaflets from the myocardium of the right ventricle, and varying degrees of downward (apical) rotational displacement of the functional annulus. | Associated cardiac anomalies include an interatrial communication, the presence of accessory conduction pathways, and varying degrees of right ventricular outflow tract obstruction, including pulmonary atresia. In the setting of discordant atrioventricular and ventriculo-arterial connections ['Congenitally corrected transposition of the great arteries'], 'Ebstein malformation of tricuspid valve' may be present. | Ebstein syndrome; Ebstein anomaly; Ebstein disease; Ebstein anomaly of tricuspid valve; Ebstein's malformation of tricuspid valve; Ebstein; anomaly or syndrome; Tricuspid valve, Ebstein anomaly; Congenital Ebstein deformity of tricuspid valve | |
| 123 | G ⁺ | 06.01.32 | Absent tricuspid valve leaflet | A congenital cardiac malformation in which a tricuspid valve leaflet is missing along with its corresponding subvalvar apparatus, thereby leaving a gap between the two other leaflets, particularly at the level of the atrioventricular junction. | | | |
| 124 | H ⁺ | 06.01.36 | True cleft of tricuspid valve leaflet | A congenital cardiac malformation in which a leaflet of the tricuspid valve is divided into two parts. | | | |
| 125 | 117 | 06.02.11 | Congenital anomaly of mitral valve | A congenital cardiac malformation in which there is an abnormality of the mitral valve. | Mitral atresia is listed in the functionally univentricular heart section. | Congenital mitral valve anomaly | |

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| 126 | 118 | 06.02.25 | Congenital mitral regurgitation | A congenital cardiac finding in which there is backward flow through the mitral valve. | | Congenital mitral insufficiency; Congenital mitral incompetence; congenital mitral valve regurgitation; Congenital mitral valve insufficiency; Congenital mitral valve incompetence | |
| 127 | 119 | 06.02.07 | Congenital mitral valvar stenosis | A congenital cardiac malformation of the mitral valve in which there is narrowing or stricture of the valvar orifice (obstruction to flow). | | Duroziez disease; congenital mitral stenosis; congenital stenosis of mitral valve | |
| 128 | 120 | 06.02.04 | Mitral annular hypoplasia | A congenital cardiac malformation of the mitral valve in which there is annular hypoplasia (incomplete development or underdevelopment so that it is abnormally small [below the lower limit of normal adjusted for body size]). Hypoplasia may or may not be associated with stenosis. | | Hypoplasia of mitral valvar annulus; Hypoplasia of the mitral annulus | |
| 129 | 121 | 06.02.09 | Straddling mitral valve | A congenital cardiac malformation in which the mitral subvalvar apparatus has attachments within both ventricles. | This may or may not be associated with valvar overriding. | | |
| 130 | 122 | 06.02.05 | Overriding mitral valve | A congenital cardiac malformation in which the mitral valve annulus lies in part above both the right and left ventricles. | | | |
| 131 | 123 | 06.02.03 | Dysplasia of mitral valve | A congenital cardiac malformation that includes any structural abnormality of the mitral valvar leaflet(s), commonly consisting of leaflet thickening and restricted mobility. | | Mitral valve dysplasia; Dysplastic mitral valve | |
| 132 | 124 | 05.02.02 | Supravalvar or intravalvar mitral ring | A congenital cardiac malformation in which a ridge of tissue is immediately adjacent or integrally attached to the atrial side of the mitral valve. | The intravalvar variant is distinguished from the supravalvar variant because the intravalvar ring is within the funnel of the mitral valvar leaflets. Both the intravalvar variant and the supravalvar variant are differentiated from divided left atrium because in the latter the posterosuperior compartment contains the pulmonary veins while the antero-inferior contains the left atrial appendage (and the atrioventricular valve [usually mitral valve] in the absence of left atrioventricular valvar atresia); in supravalvar or intravalvar mitral ring, the antero-inferior compartment contains only the mitral valve orifice and not the left atrial appendage. | Supravalvar mitral membrane; Membranous supravalvular mitral stenosis; Congenital supravalvar mitral ring; supravalvar mitral stenosis; Supravalvular congenital mitral stenosis | |

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| 133 | I+ | 06.02.23 | Congenital intravalvar mitral ring | A congenital cardiac malformation in which there is a fibrous shelf-like ridge of tissue adherent to the atrial surface of the mitral valve. | | | |
| 134 | J+ | 06.02.17 | Congenital supra-valvar mitral ring | A congenital cardiac malformation in which there is a fibrous shelf-like ridge of tissue located between the mitral valve and the opening to the left atrial appendage. | | | |
| 135 | 125 | 06.02.72 | Congenital mitral valvar prolapse | A congenital cardiac malformation of the mitral valve in which one or both leaflets move to the atrial side of the plane of the annulus in systole. | | Congenital mitral valve prolapse | Congenital MVP |
| 136 | 126 | 06.02.36 | True cleft of anterior mitral leaflet | A congenital cardiac malformation of the mitral valve in which the anterior leaflet is divided into two parts. | This term should not be used for the so-called "mitral cleft" of a common atrioventricular valve, as this malformation in a patient with a common atrioventricular valve is actually the zone of apposition between the superior and inferior bridging leaflets, and not a divided valve leaflet. | Isolated cleft of the anterior mitral leaflet (without common atrioventricular junction); True cleft of anterior mitral leaflet (without common atrioventricular junction). | Cleft MV, MV cleft |
| 137 | 127 | 06.02.21 | Congenital anomaly of mitral subvalvar apparatus | A congenital cardiac malformation in which the mitral chords, chordal attachments, or papillary muscles are abnormal. | | | |
| 138 | 128 | 06.02.22 | Congenital mitral subvalvar stenosis | A congenital cardiac malformation in which there is stenosis (narrowing or stricture of a duct or a canal) of the subvalvar components (chordae tendineae and/or papillary muscles) of the mitral valve. This diagnosis includes mitral stenosis associated with parachute mitral valve, mitral arcade, and hammock mitral valve. | | Subvalvar mitral stenosis | |
| 139 | 129 | 06.02.56 | Parachute malformation of mitral valve | A congenital cardiac malformation in which the chords of the mitral valve attach to a single or to closely adjacent papillary muscles. | | Parachute mitral valve | |
| 140 | K+ | 06.02.39 | Accessory tissue on mitral valve leaflet | A congenital cardiac malformation in which there is extraneous leaflet material forming a string, sheet, or pedunculated mass attached to the atrial or ventricular surface of the mitral valve. | | | |
| 141 | L+ | 06.02.32 | Congenital unguarded mitral orifice | A congenital cardiac malformation of the mitral valve in which there is a patent valve orifice with complete absence of both leaflets. | | | |
| 142 | M+ | 06.02.33 | Double orifice of mitral valve | A congenital cardiac malformation of the mitral valve in which there are two separate flow orifices through the mitral valve into the left ventricle. | To differentiate the congenital term "Double orifice of mitral valve" from a mitral valve with a fenestrated or perforated mitral valve leaflet, this term should only be used when both orifices | | |

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| | | | | | are supported by tensor apparatuses. | | |
| 143 | 130 | 06.04.11 | Congenital anomaly of left-sided atrioventricular valve in double inlet ventricle | A congenital cardiac malformation in association with double inlet ventricle (excluding common atrioventricular valve) in which the atrioventricular valve morphology cannot be determined. This term should be used for the left-sided atrioventricular valve in those hearts. | | Left atrioventricular valve stenosis or regurgitation | |
| 144 | 131 | 06.03.11 | Congenital anomaly of right-sided atrioventricular valve in double inlet ventricle | A congenital cardiac malformation in association with double inlet ventricle (excluding common atrioventricular valve) in which the atrioventricular valve morphology cannot be determined. This term should be used for the right-sided atrioventricular valve in those hearts. | | | |
| 145 | 132 | 06.06.11 | Common atrioventricular junction | A congenital cardiac malformation where both atria connect to a common atrioventricular valve which characteristically has 4 or 5 leaflets including superior and inferior bridging leaflets with a single annulus. The common valve may have one or two major orifices depending on the absence or presence of fusion of the bridging leaflets to each other or the septal crest. | The left ventricular zone of apposition between the superior and inferior bridging leaflets is commonly referred to as a "cleft". | Common atrioventricular canal | |
| 146 | 133 | 06.06.00 | Common atrioventricular junction with atrioventricular septal defect | A congenital cardiac malformation with a common atrioventricular junction and an atrioventricular septal defect. | | Atrioventricular septal defect; Atrioventricular canal; Atrioventricular canal defect | AVSD, AVC, AVC defect |
| 147 | 134 | 06.07.27 | Atrioventricular septal defect with balanced ventricles | A congenital cardiac malformation that is a variant of atrioventricular septal defect (atrioventricular canal defect) with ventricles that are equal or nearly equal in size. | | Balanced atrioventricular canal | |
| 148 | 135 | 06.07.26 | Atrioventricular septal defect with ventricular imbalance | A congenital cardiac malformation that is a variant of atrioventricular septal defect (atrioventricular canal defect) with one ventricle significantly larger than the other. | Unbalanced ventricular size and unbalanced relation of the common atrioventricular valve to the ventricles are to be distinguished by coding unbalanced ventricular size as "Atrioventricular septal defect with ventricular imbalance" and the unbalanced relation of the common atrioventricular valve to the ventricles should also be coded as "Common atrioventricular valve with unbalanced commitment of valve to ventricles". | Unbalanced atrioventricular canal | |

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| 149 | 136 | 06.07.05 | Atrioventricular septal defect with ventricular imbalance with dominant right ventricle and hypoplastic left ventricle | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with the right ventricle significantly larger than the left. | | Right dominant AV canal/AVSD | |
| 150 | 137 | 06.07.06 | Atrioventricular septal defect with ventricular imbalance with dominant left ventricle and hypoplastic right ventricle | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with the left ventricle significantly larger than the right. | | Left dominant AV canal/AVSD | |
| 151 | 138 | 06.06.01 | Atrioventricular septal defect with communication at the atrial level only | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with an interatrial communication just above the atrioventricular valve, no interventricular communication just below the atrioventricular valve, separate right and left atrioventricular valvar orifices, and varying degrees of malformation of the left-sided component of the common atrioventricular valve. The bridging leaflets of the common atrioventricular valve are bound down to the crest of the scooped-out ventricular septum so that the potential for shunting through the atrioventricular septal defect is possible only at the atrial level and not at the ventricular level. | | Incomplete atrioventricular septal defect with isolated atrial component; Incomplete atrioventricular canal defect with isolated atrial component; Ostium primum atrial septal defect; Atrioventricular defect with atrial shunting only; Primum atrial septal defect; Partial atrioventricular canal defect with isolated atrial component; Partial atrioventricular septal defect: ostium primum type; Partial atrioventricular septal defect | PAVSD, PAVC |
| 152 | 139 | 06.06.08 | Atrioventricular septal defect with communication at the ventricular level only | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with an interventricular communication just below the atrioventricular valve, no interatrial communication just above the atrioventricular valve, separate right and left atrioventricular valvar orifices, and varying degrees of malformation of the left-sided component of the common atrioventricular valve. The bridging leaflets of the common atrioventricular valve are bound to the atrial septum so that the potential for shunting through the atrioventricular septal defect is possible only at the ventricular level and not at the atrial level. | | AV canal/AVSD with isolated VSD; Atrioventricular canal defect with isolated ventricular communication | |

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| 153 | 140 | 06.06.10 | Atrioventricular septal defect with communication at atrial level and restrictive communication at ventricular level | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with an interatrial communication immediately above the atrioventricular valve, and a restrictive interventricular communication immediately below the atrioventricular valve. | This term is used to identify hearts with a restrictive interventricular communication. If there is a single atrioventricular valvar orifice this term should still be used. If the ventricular component of the atrioventricular septal defect is unrestrictive (no interventricular pressure gradient), this malformation should not be coded as "Atrioventricular septal defect (atrioventricular canal defect) with communication at atrial level and restrictive communication at ventricular level" and instead the term "Atrioventricular septal defect (atrioventricular canal defect) with communication at atrial level and unrestrictive communication at ventricular level" should be used. | Intermediate atrioventricular septal defect with atrial and ventricular components and separate atrioventricular valvar orifices; Atrioventricular canal defect associated with a restrictive ventricular septal defect; Atrioventricular septal defect with atrial shunting and restrictive ventricular shunting; Intermediate atrioventricular canal defect with atrial and ventricular components and separate atrioventricular valve; Transitional atrioventricular canal defect with atrial and ventricular components and separate atrioventricular valve; Transitional atrioventricular septal defect with atrial and ventricular components and separate atrioventricular valves | |
| 154 | 141 | 06.06.09 | Atrioventricular septal defect with communication at atrial level and unrestrictive communication at ventricular level | A congenital cardiac malformation that is a variant of an atrioventricular septal defect (atrioventricular canal defect) with an interatrial communication just above the atrioventricular valve, an interventricular communication just below the atrioventricular valve, and varying degrees of malformation of the left ventricular component of the common atrioventricular valve. There is unrestrictive interventricular communication (no interventricular pressure gradient) and the bridging leaflets usually float to varying extent within the atrioventricular septal defect. | | Complete atrioventricular septal defect; Complete atrioventricular canal defect | CAVSD, CAVC |

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| 155 | 142 | 01.01.20 | Atrioventricular septal defect and tetralogy of Fallot | A congenital cardiac malformation with both an atrioventricular septal defect (atrioventricular canal defect) and tetralogy of Fallot. | Tetralogy of Fallot with atrioventricular septal defect (common atrioventricular canal) is always the complete form (unrestrictive interventricular component) and usually has four leaflets of the common atrioventricular valve (undivided superior leaflet) and very few or no attachments of that leaflet to the crest of the ventricular septum. | Atrioventricular septal defect associated with tetralogy of Fallot; Atrioventricular canal and Tetralogy of Fallot | TOF/AVC, TOF/AVSD |
| 156 | 143 | 05.06.03 | Common atrium with common atrioventricular junction | A congenital cardiac malformation in which there is complete absence of the interatrial septum in the setting of a common atrioventricular junction (common atrioventricular canal). | | Single atrium | |
| 157 | 144 | 06.05.60 | Common atrioventricular valvar regurgitation | A congenital cardiac finding where there is backward flow through the common atrioventricular valve. | | | |
| 158 | 145 | 06.05.14 | Atypical common atrioventricular valve | A congenital cardiac malformation in which the common atrioventricular valve does not have the usual morphology of 4-5 non-dysplastic leaflets that relate relatively equally to both ventricles. | | | |
| 159 | 146 | 06.07.36 | Common atrioventricular valve with unbalanced commitment of valve to ventricles | A congenital cardiac malformation in which the common atrioventricular valve is primarily related to one ventricle, usually but not always associated with hypoplasia of the other ventricle. | Unbalanced ventricular size and unbalanced relation of the common atrioventricular valve to the ventricles are to be distinguished by coding unbalanced ventricular size as "Atrioventricular septal defect with ventricular imbalance" and the unbalanced relation of the common atrioventricular valve to the ventricles should also be coded as "Common atrioventricular valve with unbalanced commitment of valve to ventricles". | | |
| 160 | 147 | 06.07.37 | Common atrioventricular valve with unbalanced commitment of valve to right ventricle | A congenital cardiac malformation in which the common atrioventricular valve is primarily related to the right ventricle, usually but not always associated with hypoplasia of the left ventricle. | | | |
| 161 | 148 | 06.07.38 | Common atrioventricular valve with unbalanced commitment of valve to left ventricle | A congenital cardiac malformation in which the common atrioventricular valve is primarily related to the left ventricle, usually but not always associated with hypoplasia of the right ventricle. | | | |
| 162 | 149 | 06.05.71 | Atypical right ventricular component of common atrioventricular valve | A congenital cardiac malformation in which the right ventricular component of the common atrioventricular valve does not have the usual structure (independently supported and well developed right ventricular components of the common atrioventricular valve). | | | |

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| 163 | 150 | 06.05.72 | Atypical left ventricular component of common atrioventricular valve | A congenital cardiac malformation in which the left ventricular component of the common atrioventricular valve does not have the usual structure (independently supported and well developed left ventricular components of the common atrioventricular valve). | | | |
| 164 | 151 | 06.05.25 | Double orifice of left ventricular component of common atrioventricular valve | A congenital cardiac malformation in which the left ventricular component of the common atrioventricular valve has two orifices. | | | |
| 165 | 152 | 06.05.98 | Deficient mural leaflet of left ventricular component of common atrioventricular valve | A congenital cardiac malformation in which the left ventricular component of the common atrioventricular valve is composed primarily of the bridging leaflets due to hypoplasia or absence of the mural (lateral) leaflet. | | Deficient lateral leaflet of left ventricular component of common atrioventricular valve | |
| 166 | 153 | 06.07.28 | Common atrioventricular junction without an atrioventricular septal defect | A congenital cardiac malformation in which there is a common atrioventricular junction without any communication at the level of the atrioventricular septum. | This code could be used when there is a trifoliate left atrioventricular valve, commonly known as cleft mitral valve secondary to atrioventricular septal defect, and also has evidence of spontaneous obliteration of the atrioventricular septal defect by valvar or subvalvar tissue. Additional defects in the atrial or ventricular septums that do not involve the atrioventricular septum are not excluded by this term and should be coded separately. | Common atrioventricular junction with spontaneous fibrous closure of atrioventricular septal defect; Common atrioventricular junction with intact atrioventricular septal structures | |
| 167 | 154 | 07.14.02 | Communication between left ventricle and right atrium | A deficiency of the atrioventricular component of the membranous septum permitting shunting of blood from the left ventricle to the right atrium. | This is an isolated absence of the atrioventricular septum without other components that may be commonly seen in association with spectrum of disorders associated with atrioventricular septal defects such as a common atrioventricular valve or interatrial or interventricular communications. The Gerbode defect may be confused with ventricular septal defects where a deficiency of tricuspid valvar tissue permits ventriculo-atrial shunting subsequent to initial interventricular shunting (left ventricle to right ventricle to right atrium). | Gerbode defect | |
| 168 | 155 | 07.00.00 | Congenital anomaly of a ventricle or the ventricular septum | A congenital cardiac malformation in which there is an abnormality of a ventricle and/or the ventricular septum. The ventricles include the ventricular inlet, ventricular body and ventricular outflow tract. | | Congenital ventricular or ventricular septal malformation | |

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| 169 | 156 | 07.01.07 | Congenital right ventricular anomaly | A congenital cardiac malformation in which there is an abnormality of the right ventricle. | | | |
| 170 | 157 | 07.02.00 | Right ventricular hypoplasia | A congenital cardiac malformation in which the right ventricle is abnormally small (below the lower limit of normal adjusted for body size). | This morphological abnormality usually is an integral part of other congenital cardiovascular anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiovascular anomaly if the right ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiovascular diagnosis. It would rarely be coded as a primary and/or isolated diagnosis. | Hypoplastic right ventricle | |
| 171 | 158 | 07.05.20 | Congenital right ventricular outflow tract obstruction | A congenital cardiac condition in which the flow through the right ventricular outflow tract (proximal to the valve[s] guarding the outflow from the right ventricle) is blocked or impeded. | | | RVOTO |
| 172 | 159 | 07.03.01 | Double chambered right ventricle | A congenital cardiac malformation in which the right ventricle is divided into two chambers, one inferior including the inlet and trabecular portions of the right ventricle and one superior including the trabecular portion and infundibulum. | Double chamber right ventricle is often associated with one or several closing ventricular septal defects. In some cases, the ventricular septal defect is already closed. Double chamber right ventricle is differentiated from the rare isolated infundibular stenosis that develops more superiorly. | Double-chamber right ventricle; Anomalous right ventricular muscle bundle; Double chamber right ventricle | DCRV |
| 173 | 160 | 07.01.13 | Right ventricular myocardial sinusoids | A congenital cardiac malformation in which there are deep, endothelial lined, blind-ended intramyocardial tunnels communicating with the right ventricular chamber. These occur in the setting of pulmonary atresia or severe right ventricular outflow tract obstruction, intact ventricular septum and a patent tricuspid valve. | These RV sinusoids do not communicate with the coronary arteries. Where connections from the right ventricle to the coronary arteries exist, one should code for "Congenital coronary artery-to-right ventricular fistula". | | |
| 174 | 161 | 07.01.06 | Parchment right ventricle | A congenital cardiac malformation in which there is almost complete absence of right ventricular myocardium and preserved septal and left ventricular myocardium. | Parchment right ventricle can occur in association with a normal tricuspid valve (Uhl anomaly) or with an abnormal tricuspid valve, such as Ebstein Anomaly. This should be distinguished from arrhythmogenic right ventricular cardiomyopathy by the presence of fatty infiltration in the latter. | Uhl's anomaly; Uhl anomaly | |

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| 175 | 162 | 01.01.01 | Tetralogy of Fallot | A group of congenital cardiac malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta. Tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, aortic override, and most often right ventricular hypertrophy. | | Tetrad of Fallot; Fallot tetralogy; Fallot tetrad; Fallot disease; Fallot complex; Fallot's tetralogy; Subpulmonic stenosis, ventricular septal defect, overriding aorta, and right ventricular hypertrophy; Ventricular septal defect with pulmonary stenosis or atresia, dextroposition of aorta, and hypertrophy of right ventricle | TOF |
| 176 | 163 | 09.05.25 | Tetralogy of Fallot with absent pulmonary valve syndrome | A congenital cardiovascular malformation that is a variant of tetralogy of Fallot in which the ventriculo-arterial junction of the right ventricle with the pulmonary trunk features an atypical valve with absent or rudimentary leaflets (cusps) that do not coapt. In its usual form there is dilatation of the pulmonary trunk and central right and left pulmonary arteries, which when extreme, is associated with abnormal arborization of lobar and segmental pulmonary artery branches and with compression of the trachea and mainstem bronchi, often with tracheobronchomalacia. | A congenital cardiovascular malformation that is a variant of tetralogy of Fallot in which the ventriculo-arterial junction of the right ventricle with the pulmonary trunk features an atypical valve with absent or rudimentary leaflets (cusps) that do not coapt. In its usual form there is dilatation of the pulmonary trunk and central right and left pulmonary arteries, which when extreme, is associated with abnormal arborization of lobar and segmental pulmonary artery branches and with compression of the trachea and mainstem bronchi, often with tracheobronchomalacia. The physiologic consequence is usually a combination of variable degrees of both stenosis and regurgitation of the pulmonary valve. | | |
| 177 | 164 | 01.01.26 | Tetralogy of Fallot with pulmonary atresia | A congenital cardiovascular malformation that is a variant of tetralogy of Fallot in which there is no direct communication between the right ventricle and the pulmonary arterial tree. | This term should not be used when major systemic-to-pulmonary artery collaterals (including major aortopulmonary collateral arteries [MAPCAs]) are known to be present. | Pulmonary atresia with ventricular septal defect [Fallot type] | |

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| 178 | 165 | 01.01.57 | Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral arteries | A congenital cardiovascular malformation that is a variant of tetralogy of Fallot in which there is no direct communication between the right ventricle and the pulmonary arterial tree and there are collateral blood vessels between the systemic and pulmonary arteries. | | Pulmonary atresia with ventricular septal defect and systemic-to-pulmonary collateral artery(ies) [Fallot type]; Pulmonary atresia, ventricular septal defect and MAPCAs | |
| 179 | 166 | 07.06.07 | Congenital left ventricular anomaly | A congenital cardiac malformation in which there is an abnormality of the left ventricle. | | | |
| 180 | 167 | 07.07.00 | Left ventricular hypoplasia | A congenital cardiac malformation in which the left ventricle is abnormally small (below the lower limit of normal adjusted for body size). | This morphological abnormality usually is an integral part of other congenital cardiovascular anomalies and does not need to be coded separately if this is the case. It should be coded as secondary to an accompanying congenital cardiovascular anomaly if the left ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiovascular diagnosis such as hypoplastic left heart syndrome. | Hypoplastic left ventricle | |
| 181 | 168 | 07.06.19 | Congenital left ventricular aneurysm or diverticulum | A congenital cardiac malformation in which there is an outpouching of the left ventricular wall. | | | |
| 182 | N ⁺ | 07.06.01 | Congenital left ventricular aneurysm | A congenital cardiac malformation in which there is a discrete region of the ventricular wall that is thinner than the adjacent myocardial segments, bulges away from the lumen of the left ventricle during systole, and exhibits either akinesis or dyskinesis. | | | |
| 183 | O ⁺ | 07.06.03 | Congenital left ventricular diverticulum | A congenital cardiac malformation in which there is an outpouching from the ventricular wall that contains endocardium, myocardium, and pericardium and displays normal contraction. | | | |
| 184 | 169 | 07.09.28 | Congenital left ventricular outflow tract obstruction | A congenital cardiac condition in which the flow through the left ventricular outflow tract (proximal to the valve[s] guarding the outflow from the left ventricle) is blocked or impeded. | This code should not be used for obstruction immediately under the arterial valve such as subaortic stenosis due to fibromuscular shelf or tunnel. | | LVOTO |
| 185 | 170 | 07.09.08 | Congenital left ventricular outflow tract obstruction due to atrioventricular valve | A congenital cardiac malformation in which the flow through the left ventricular outflow tract is blocked or impeded due to abnormal position or attachments of tricuspid, mitral, or common atrioventricular valvar tissue. | | | |

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| 186 | 171 | 01.01.33 | Left heart obstruction at multiple sites | A congenital cardiovascular malformation in which more than one of the following lesions are present: (1) supra-avalvar or intra-avalvar mitral ring, (2) mitral sub-avalvar stenosis, (3) a parachute deformity of the mitral valve, (4) subaortic stenosis, (5) valvar aortic stenosis, and (6) aortic coarctation. | Shone's syndrome consists of multilevel hypoplasia or obstruction of the left-heart. The syndrome is based on the original report from Shone that was based on analysis of 8 autopsied cases and described the tendency of these four obstructive, or potentially obstructive, conditions to coexist. Only 2 of the 8 cases exhibited all four conditions, with the other cases exhibiting only two or three of the anomalies. | Shone syndrome; Shone's syndrome; Shone's anomaly; Shone's complex; Shone's disease | |
| 187 | 172 | 07.06.12 | Left ventricular myocardial sinusoids | A congenital cardiac malformation in which there are deep, endothelial lined, blind-ended intramyocardial tunnels communicating with the left ventricular chamber. These occur in the setting of aortic atresia or severe left ventricular outflow tract obstruction, intact ventricular septum and a patent mitral valve. | These left ventricular sinusoids do not communicate with the coronary arteries. Where connections from the left ventricle to the coronary arteries exist, one should code for "Congenital coronary artery-to-left ventricular fistula". This code should not be used for left ventricular non-compaction. | | |
| 188 | P+ | 07.00.07 | Anomalous ventricular bands | A congenital cardiac malformation in which fibromuscular tissue crosses through a ventricular cavity, inserting at two or more points on the ventricular wall or papillary muscles. | | | |
| 189 | 173 | 07.20.04 | Congenital anomaly of ventricular septum | A congenital cardiac malformation in which there is an abnormality of the interventricular septum. | | <ul style="list-style-type: none"> •anomaly; ventricular septum •ventricle septa anomaly •ventricle septal heart anomaly •ventricle septum heart anomaly •ventricular septa anomaly •ventricular septal heart anomaly | |

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| 190 | 174 | 07.14.07 | Restrictive interventricular communication when an interventricular shunt is physiologically necessary | A congenital cardiac finding in which there is an interventricular communication that is smaller than is required to permit physiologically adequate interventricular flow. | This should be coded only when associated with other cardiac abnormalities that result in physiological disturbances secondary to the absence of a larger interventricular communication. Clinically important examples include double outlet right ventricle or tetralogy of Fallot with restrictive ventricular septal defect, double inlet left ventricle or tricuspid atresia with concordant or discordant great arterial connections and restrictive ventricular septal defect, and others. | | |
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| 191 | 175 | 07.10.00 | Ventricular septal defect | A congenital cardiac malformation in which there is a hole or pathway between the ventricular chambers. | <p>The definitions offered for a "ventricular septal defect", in its various forms, will be used most frequently in the setting of patients who do not have abnormalities of either the atrioventricular or ventriculo-arterial connections. The definitions themselves, however, are equally applicable for the description and categorization of holes or pathways between the ventricles when the segmental connections between the cardiac components are abnormal. The key to understanding the definitions is to appreciate that the hole or pathway between the ventricles is defined both on the basis of its geographic location within the ventricular septum and its margins as seen from the aspect of the morphologically right ventricle. In this respect, when the ventriculo-arterial connections are concordant or discordant, the roof of the channel, as viewed from the right ventricle, is the muscular outlet septum or its fibrous remnant. When both arterial trunks arise from the morphologically right ventricle, in contrast, the channel between the ventricles provides the outflow from the morphologically left ventricle, and is roofed by the inner heart curvature. In the setting of double outlet right ventricle, therefore, the interventricular communication is not the same geometric locus as the ventricular septal defect, although many still continue to describe the outlet from the left ventricle as the "ventricular septal defect". In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication, which used to be called a bulboventricular foramen, is both a ventricular septal defect and an interventricular communication.</p> | Interventricular communication; Interventricular septal defect; Congenital ventricular septal defect | VSD |
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| | | | | | <p>The situation in the setting of double outlet right ventricle, however, shows that the terms cannot always be used as being synonymous. A similar situation pertains in the setting of common arterial trunk, since the hole usually closed by the surgeon to provide septal integrity is the right ventricular margin of the channel between the ventricles, rather than the geometric interventricular communication.</p> | | |
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| 192 | 176 | 07.10.01 | Perimembranous central ventricular septal defect | <p>A congenital cardiovascular malformation in which there is a ventricular septal defect that 1) occupies the space that is usually closed by the interventricular part of the membranous septum, 2) is adjacent to the area of fibrous continuity between the leaflets of an atrioventricular valve and an arterial valve, 3) is adjacent to an area of mitral-tricuspid fibrous continuity, and 4) is located at the center of the base of the ventricular mass.</p> | <p>Although best used to describe the perimembranous defect that opens centrally at the base of the right ventricle, this term might be used to code perimembranous defects with inlet or outlet extension. It is recommended, however, that the more precise terms be used whenever possible for coding the latter lesions. This code is used by some as synonymous with the perimembranous, conoventricular, Type II, or the paramembranous defects. It should not be used to code an inlet VSD, or the so-called atrioventricular canal VSD. More specific terms exist for coding these entities. It is used by some to describe an isolated perimembranous VSD without extension, although it is unlikely that perimembranous defects exist in the absence of deficiency of their muscular perimeter. The conoventricular VSD with malalignment should be coded as an outlet defect, as should the perimembranous defect opening to the outlet of the right ventricle. All perimembranous defects, nonetheless, have part of their margins made up of fibrous continuity either between the leaflets of an atrioventricular and an arterial valve or, in the setting of double outlet right ventricle or overriding of the tricuspid valve, by fibrous continuity between the leaflets of the mitral and tricuspid valves. Such defects can also extend to become doubly committed and juxta-arterial (conal septal hypoplasia) when there is also fibrous continuity between the leaflets of the arterial valves or when there is a common arterial valve. Specific codes exist for these variants, which ideally should not be coded using this term.</p> | <p>Perimembranous ventricular septal defect; Membranous ventricular septal defect; Paramembranous ventricular septal defect; Type 2 ventricular septal defect; Central perimembranous ventricular septal defect</p> | PMVSD |
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| 193 | 177 | 07.14.05 | Inlet ventricular septal defect without a common atrioventricular junction | A congenital cardiac malformation in which there is a ventricular septal defect that opens predominantly into the inlet component of the right ventricle in the absence of a common atrioventricular junction. | | Type 3 ventricular septal defect; Inlet atrioventricular canal type ventricular septal defect; Inlet ventricular septal defect | |
| 194 | 178 | 07.10.02 | Inlet perimembranous ventricular septal defect without atrioventricular septal malalignment without a common atrioventricular junction | A congenital cardiac malformation in which there is a ventricular septal defect that usually, but not always, extends beneath the full annular length of the septal leaflet of the tricuspid valve and to the membranous septum, into the inlet component of the right ventricle in the absence of atrioventricular septal malalignment and of a common atrioventricular junction. | | Perimembranous ventricular septal defect with extension to right ventricular inlet (posterior); Inlet perimembranous ventricular septal defect; Perimembranous inlet ventricular septal defect | |
| 195 | 179 | 07.14.06 | Inlet perimembranous ventricular septal defect with atrioventricular septal malalignment and without a common atrioventricular junction | A congenital cardiac malformation in which there is an inlet ventricular septal defect with malalignment between the atrial septum and the postero-inferior part of the muscular ventricular septum, in the absence of a common atrioventricular junction, such that there is overriding with or without straddling of the tricuspid valve. | | Perimembranous ventricular septal defect with extension to right ventricular inlet (posterior) and atrioventricular septal malalignment; Inlet perimembranous ventricular septal defect with atrioventricular septal malalignment; Perimembranous inlet ventricular septal defect with atrioventricular septal malalignment | |
| 196 | 180 | 07.11.02 | Inlet muscular ventricular septal defect | A congenital cardiac malformation in which there is a ventricular septal defect with exclusively muscular borders that opens into the inlet component of the right ventricle. | | Muscular ventricular septal defect opening into right ventricular inlet; Inlet muscular ventricular septal defect | |
| 197 | 181 | 07.11.01 | Trabecular muscular ventricular septal defect | A congenital cardiac malformation in which there is a ventricular septal defect within the trabeculated component of the ventricular septum. | The code specifying defects within the trabecular part of the ventricular septum should not be used to code the inlet or outlet muscular defects as there are specific codes for these. | Type 4 ventricular septal defect; Trabecular ventricular septal defect; Muscular trabecular ventricular septal defect | |
| 198 | 182 | 07.11.04 | Trabecular muscular ventricular septal defect midseptal | A congenital cardiac malformation in which there is a ventricular septal defect that opens to the right ventricle in the middle of the trabeculated component of the ventricular septum. | | Midmuscular ventricular septal defect; Trabecular muscular ventricular septal defect: mid; Muscular trabecular ventricular septal defect: Midseptal | |
| 199 | 183 | 07.11.03 | Trabecular muscular ventricular septal defect apical | A congenital cardiac malformation in which there is a ventricular septal defect that opens to the right ventricle in the apical region of the trabeculated component of the ventricular septum. | | Apical muscular ventricular septal defect; Muscular trabecular ventricular septal defect: Apical | |

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| 200 | 184 | 07.11.12 | Trabecular muscular ventricular septal defect postero-inferior | A congenital cardiac malformation in which there is a ventricular septal defect that opens to the right ventricle in the postero-inferior region of the trabeculated component of the ventricular septum. | It can be arbitrary as to when an inlet muscular defect becomes an inferior apical defect. The distinction should be made on whether or not the defect is partly shielded by the septal leaflet of the tricuspid valve. | Postero-inferior muscular ventricular septal defect; Posterior muscular ventricular septal defect; Inferior muscular ventricular septal defect; Muscular ventricular septal defect in postero-inferior trabecular septum; Muscular trabecular ventricular septal defect: postero-inferior | |
| 201 | 185 | 07.11.07 | Trabecular muscular ventricular septal defect anterosuperior | A congenital cardiac malformation in which there is a muscular ventricular septal defect that opens to the right ventricle anterior to the body of the septomarginal trabeculation, or septal band. | | Anterosuperior muscular ventricular septal defect; Anterior muscular ventricular septal defect; Superior muscular ventricular septal defect; Muscular ventricular septal defect opening anterior to body of septomarginal trabeculation; Muscular trabecular ventricular septal defect: Anterosuperior | |
| 202 | 186 | 07.11.05 | Multiple trabecular muscular ventricular septal defects | A congenital cardiac malformation in which there are multiple muscular ventricular septal defects that open to the right ventricle in the trabeculated component of the ventricular septum. | | Multiple muscular trabecular ventricular septal defects; Muscular trabecular ventricular septal defect: Multiple ("Swiss cheese" septum) | |
| 203 | 187 | 07.12.00 | Outlet ventricular septal defect | A congenital cardiac malformation in which there is a ventricular septal defect that opens to the outlet of the right ventricle between or above the limbs of the septal band. | | Supracristal ventricular septal defect; Conal septal defect; Infundibular ventricular septal defect; Type 1 ventricular septal defect; Subpulmonary ventricular septal defect; Subarterial ventricular septal defect; Juxtaarterial ventricular septal defect; Conal ventricular septal defect; Conoseptal hypoplasia; Intraconal ventricular septal defect | |
| 204 | 188 | 07.12.09 | Outlet ventricular septal defect without malalignment | A congenital cardiac malformation in which there is an outlet ventricular septal defect, in the absence of malalignment of the outlet septum with the trabecular muscular septum. | | | |

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| 205 | 189 | 07.11.06 | Outlet muscular ventricular septal defect without malalignment | A congenital cardiac malformation in which there is an outlet ventricular septal defect with exclusively muscular borders, in the absence of malalignment of the outlet septum with the trabecular muscular septum. | | Muscular outlet ventricular septal defect with aligned outlet septum; Conal septal hypoplasia with exclusively muscular borders; Muscular outlet ventricular septal defect | |
| 206 | 190 | 07.12.01 | Doubly committed juxta-arterial ventricular septal defect without malalignment | A congenital cardiac malformation in which there is an outlet ventricular septal defect bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, that is aligned with the trabecular muscular septum. | | Doubly committed subarterial ventricular septal defect with aligned outlet septum; Conoseptal hypoplasia with aligned outlet septum; Doubly committed juxta-arterial outlet ventricular septal defect; Doubly committed subarterial outlet ventricular septal defect | |
| 207 | 191 | 07.12.02 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with muscular postero-inferior rim | A congenital cardiac malformation in which there is an outlet ventricular septal defect with muscular postero-inferior rim, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, that is aligned with the trabecular muscular septum. | | Doubly committed juxta-arterial ventricular septal defect with muscular postero-inferior rim; Doubly committed subarterial ventricular septal defect with muscular postero-inferior rim | |
| 208 | 192 | 07.12.03 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with perimembranous extension | A congenital cardiac malformation in which there is an outlet ventricular septal defect with perimembranous extension, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, that is aligned with the trabecular muscular septum. | | Doubly committed subarterial ventricular septal defect with aligned outlet septum with perimembranous extension; Conal septal hypoplasia without cranial muscular border with aligned outlet septum and with perimembranous extension; Doubly committed juxta-arterial outlet ventricular septal defect with perimembranous extension; Doubly committed juxta-arterial ventricular septal defect with without malaligned fibrous outlet septum and fibrous postero-inferior rim (perimembranous) | |

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| 209 | 193 | 07.10.17 | Outlet ventricular septal defect with anteriorly malaligned outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect and the muscular outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Ventricular septal defect opening into right ventricular outlet with anterior malalignment of outlet septum; Outlet ventricular septal defect "Fallot type" | |
| 210 | 194 | 07.11.15 | Outlet muscular ventricular septal defect with anteriorly malaligned outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect with exclusively muscular borders, and the muscular outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Muscular ventricular septal defect opening into right ventricular outlet with anterior malalignment of outlet septum; Muscular outlet ventricular septal defect "Fallot type"; Muscular outlet ventricular septal defect with anteriorly malaligned outlet septum | |
| 211 | 195 | 07.10.04 | Outlet perimembranous ventricular septal defect with anteriorly malaligned outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect with perimembranous extension and the muscular outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Perimembranous ventricular septal defect with outlet extension and anterior malalignment of outlet septum; Perimembranous outlet ventricular septal defect "Fallot type"; Perimembranous outlet ventricular septal defect with anteriorly malaligned outlet septum | |
| 212 | 196 | 07.12.12 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Doubly committed subarterial ventricular septal defect and anterior malalignment of the outlet septum; Doubly committed juxta-arterial ventricular septal defect "Fallot type" | |
| 213 | 197 | 07.12.07 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | A congenital cardiac malformation in which there is an outlet ventricular septal defect with muscular postero-inferior rim, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Doubly committed subarterial ventricular septal defect with muscular posterior inferior rim and anterior malalignment of outlet septum; Doubly committed juxta-arterial ventricular septal defect with muscular posterior inferior rim "Fallot type" | |

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| 214 | 198 | 07.12.05 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and perimembranous extension | A congenital cardiac malformation in which there is an outlet ventricular septal defect with perimembranous extension, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in an antero-cranial fashion with respect to the trabecular muscular septum such that there is overriding of the arterial valve supported predominantly by the left ventricle. | | Doubly committed subarterial ventricular septal defect with perimembranous extension and anterior malalignment of outlet septum; Doubly committed juxta-arterial ventricular septal defect with perimembranous extension "coarctation type"; Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and fibrous postero-inferior rim (perimembranous) | |
| 215 | 199 | 07.10.18 | Outlet ventricular septal defect with posteriorly malaligned outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect and the muscular outlet septum is malaligned in a postero-caudal fashion with respect to the trabecular muscular septum such that there is usually obstruction to the left ventricular outflow tract. | | Ventricular septal defect opening into right ventricular outlet with posterior malalignment of outlet septum; Outlet ventricular septal defect "coarctation type" | |
| 216 | 200 | 07.11.16 | Outlet muscular ventricular septal defect with posteriorly malaligned outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect with exclusively muscular borders, and the muscular outlet septum is malaligned in a postero-caudal fashion with respect to the trabecular muscular septum such that there is usually obstruction to the left ventricular outflow tract. | | Muscular ventricular septal defect opening into right ventricular outlet with posterior malalignment of outlet septum; Muscular outlet ventricular septal defect "coarctation type"; Muscular outlet ventricular septal defect with posteriorly malaligned outlet septum | |
| 217 | 201 | 07.10.19 | Outlet perimembranous ventricular septal defect with posteriorly malaligned outlet septum | | | | |
| 218 | 202 | 07.12.13 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum | A congenital cardiac malformation in which there is an outlet ventricular septal defect bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in a postero-caudal fashion with respect to the trabecular muscular septum such that there is usually obstruction to the left ventricular outflow tract. | | Doubly committed subarterial ventricular septal defect with posterior malalignment of outlet septum; Doubly committed juxta-arterial ventricular septal defect "coarctation type" | |

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| 219 | 203 | 07.12.08 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | A congenital cardiac malformation in which there is an outlet ventricular septal defect with muscular postero-inferior rim, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in a postero-caudal fashion with respect to the trabecular muscular septum such that there is usually obstruction to the left ventricular outflow tract. | | Doubly committed subarterial ventricular septal defect with muscular posterior inferior rim and posterior malalignment of outlet septum; Doubly committed juxta-arterial ventricular septal defect with muscular posterior inferior rim "coarctation type" | |
| 220 | 204 | 07.12.06 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and perimembranous extension | A congenital cardiac malformation in which there is an outlet ventricular septal defect with perimembranous extension, bordered superiorly by the area of fibrous continuity or a fibrous outlet septum between the aortic and pulmonary valves, and the fibrous outlet septum is malaligned in a postero-caudal fashion with respect to the trabecular muscular septum such that there is usually obstruction to the left ventricular outflow tract. | | Doubly committed subarterial ventricular septal defect with perimembranous extension and posterior malalignment of outlet septum; Doubly committed juxta-arterial ventricular septal defect with perimembranous extension "coarctation type"; Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and fibrous postero-inferior rim (perimembranous) | |
| 221 | 205 | 07.15.01 | Ventricular septal defect haemodynamically insignificant | A congenital cardiac malformation in which there is one or more small, clinically insignificant ventricular septal defect(s) in the absence of flow-related cardiac chamber dilation or abnormal elevation of pulmonary arterial pressure. | Though restrictive ventricular septal defect is listed as a synonym of haemodynamically insignificant VSD, it should be recognized that some pressure restrictive ventricular septal defects will lead to flow-related chamber dilation, and thus would be haemodynamically significant. In such instances, the term haemodynamically insignificant ventricular septal defect should not be coded. | Maladie de Roger; Restrictive ventricular septal defect; Haemodynamically insignificant ventricular septal defect | |
| 222 | 206 | 07.15.04 | Multiple ventricular septal defects | A congenital cardiac malformation in which there are multiple ventricular septal defects, which could be of any type. | For multiply fenestrated trabecular septums one should use the term "Multiple trabecular muscular ventricular septal defects". | | |

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| 223 | 207 | 01.01.22 | Functionally univentricular heart | The term “functionally univentricular heart” describes a spectrum of congenital cardiac malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. | A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term “functionally univentricular heart”. | Univentricular cardiopathy; Single ventricle; Univentricular heart | |
| 224 | 208 | 01.01.14 | Double inlet atrioventricular connection | A congenital cardiovascular malformation with a univentricular atrioventricular connection wherein both atria connect to one ventricle either via two separate atrioventricular valves or a common atrioventricular valve, such that all or nearly all of the total atrioventricular junctional (annular) area is committed to one ventricular chamber. | | Double inlet ventricle | |
| 225 | 209 | 01.04.04 | Double inlet left ventricle | A congenital cardiovascular malformation with a univentricular atrioventricular connection wherein both atria connect to a morphologically left ventricle either via two separate atrioventricular valves or a common atrioventricular valve, such that all or nearly all of the total atrioventricular junctional (annular) area is committed to the left ventricular chamber. | | | DILV |
| 226 | 210 | 01.04.03 | Double inlet right ventricle | A congenital cardiovascular malformation with a univentricular atrioventricular connection wherein both atria connect to a morphologically right ventricle either via two separate atrioventricular valves or a common atrioventricular valve, such that all or nearly all of the total atrioventricular junctional (annular) area is committed to the right ventricular chamber. | | | DIRV |

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| 227 | 211 | 01.04.05 | Double inlet to solitary ventricle of indeterminate morphology | A congenital cardiovascular malformation with a univentricular atrioventricular connection wherein both atria connect to a solitary and morphologically indeterminate ventricle either via two separate atrioventricular valves or a common atrioventricular valve. | | | |
| 228 | 212 | 06.01.01 | Tricuspid atresia | A congenital cardiovascular malformation with absence of the tricuspid valvar annulus (connection/junction) or an imperforate tricuspid valve. | | | |
| 229 | 213 | 06.01.26 | Tricuspid atresia with absent atrioventricular connection | A congenital cardiovascular malformation with absence of the tricuspid valve and its associated annulus (connection/junction). | | Tricuspid atresia with absent valvar annulus | |
| 230 | 214 | 06.01.02 | Tricuspid atresia with imperforate tricuspid valve | A congenital cardiovascular malformation with an imperforate tricuspid valve (the tricuspid valve and associated atrioventricular connection/junction are present but the valve is imperforate). | | | |
| 231 | 215 | 06.02.01 | Mitral atresia | A congenital cardiovascular malformation with absence of the mitral valvar annulus (connection/junction) or an imperforate mitral valve. | | | |
| 232 | 216 | 06.02.26 | Mitral atresia with absent atrioventricular connection | A congenital cardiovascular malformation with absence of the mitral valve and its associated annulus (connection/junction). | | Mitral atresia with absent valvar annulus | |
| 233 | 217 | 06.02.02 | Mitral atresia with imperforate mitral valve | A congenital cardiovascular malformation with an imperforate mitral valve (the mitral valve and associated atrioventricular connection/junction are present but the valve is imperforate). | | | |
| 234 | 218 | 01.01.09 | Hypoplastic left heart syndrome | A spectrum of congenital cardiovascular malformations with normally aligned great arteries without a common atrioventricular junction, characterized by underdevelopment of the left heart with significant hypoplasia of the left ventricle including atresia, stenosis, or hypoplasia of the aortic or mitral valve, or both valves, and hypoplasia of the ascending aorta and aortic arch. | | Hypoplasia of the left heart; hypoplasia of the left heart; HLHS; hih - hypoplastic left heart syndrome; left heart hypoplasia syndrome | HLHS |
| 235 | 219 | 09.04.29 | Congenital anomaly of a ventriculo-arterial valve or adjacent regions | A congenital cardiovascular malformation of a ventriculo-arterial valve or its immediate subvalvar and supra-valvar regions. This does not include anomalies of the truncal valve which are classified along with codes related to the common arterial trunk. | | | |
| 236 | 220 | 09.05.29 | Congenital anomaly of pulmonary valve | A congenital malformation of the heart where the pulmonary valve is abnormal. | | | |

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| 237 | 221 | 09.05.04 | Congenital pulmonary valvar stenosis | A congenital cardiovascular malformation of the pulmonary valve in which there is narrowing or stricture causing obstruction to flow | Congenital pulmonary valvar stenosis ranges from critical neonatal pulmonic valve stenosis with hypoplasia of the right ventricle to valvar pulmonary stenosis in the infant, child, or adult. | Congenital pulmonary stenosis; Congenital pulmonary valve stricture; Congenital stenosis of pulmonary valve; Congenital pulmonary valve stenosis | |
| 238 | 222 | 09.05.05 | Pulmonary annular hypoplasia | A congenital cardiovascular malformation of the pulmonary valve in which its 'annulus' is hypoplastic (incomplete development or underdevelopment so that it is abnormally small [below the lower limit of normal adjusted for body size]). | | | |
| 239 | 223 | 09.05.22 | Congenital pulmonary regurgitation | A congenital cardiovascular malformation of the pulmonary valve allowing backward flow into the ventricle | Congenital pulmonary valve regurgitation may be due to primary annular dilation, prolapse, and leaflet underdevelopment. | Congenital pulmonary insufficiency; Congenital pulmonary incompetence; Congenital insufficiency of pulmonary valve | |
| 240 | 224 | 09.05.24 | Dysplasia of pulmonary valve | A congenital cardiovascular malformation where the pulmonary valve leaflets are markedly thickened with restricted mobility, characterized by the presence of myxomatous tissue. | | Pulmonary valve dysplasia; Dysplastic pulmonary valve; Pulmonary valve cusp dysplasia | |
| 241 | 225 | 09.05.32 | Bicuspid pulmonary valve | A congenital cardiovascular malformation where the pulmonary valve has only two leaflets (cusps) and includes absent or fused commissure. | | Bicommissural pulmonary valve | |

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| 242 | 226 | 07.05.32 | Congenital subpulmonary stenosis | A congenital cardiovascular malformation associated with narrowing within the outflow tract supporting the pulmonary valve. | Subvalvar (infundibular) pulmonary stenosis is a narrowing of the outflow tract of the ventricle immediately below the pulmonic valve. This term should preferably be used in the setting of abnormal ventriculo-arterial connections, such as double outlet ventricle. Although subpulmonary obstruction is a type of right ventricular outflow tract obstruction if the ventriculo-arterial connections are normal, in this setting 'Congenital right ventricular outflow tract obstruction' should be used. Subvalvar pulmonary stenosis is also a type of left ventricular outflow tract obstruction in the setting of discordant ventriculo-arterial connections; this term should be used when obstruction is only apparent immediately below the pulmonary valve, otherwise the term 'Congenital left ventricular outflow tract obstruction' should be used. | Infundibular pulmonary stenosis | |
| 243 | 227 | 09.07.15 | Congenital supra-valvar pulmonary stenosis | A congenital cardiovascular malformation associated with narrowing at the level of the pulmonary sinotubular junction. | | | |
| 244 | 228 | 09.05.16 | Congenital pulmonary atresia | A congenital cardiovascular malformation in which there is no opening between any ventricle and the pulmonary arterial tree. | For "pulmonary atresia with VSD", please see the section under "Tetralogy of Fallot". | Pulmonary atresia. | |
| 245 | Q+ | 09.05.12 | Congenital pulmonary valvar atresia | A congenital cardiac malformation in which the pulmonary valve leaflet structure is present but imperforate. | This term is limited to describe hearts in which the pulmonary subvalvar or supra-valvar regions are not atretic. | Congenital pulmonary valve atresia; Imperforate pulmonary valve; Pulmonary valvar atresia; Atretic pulmonary valve; Pulmonary valvular atresia. | |

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| 246 | 229 | 01.01.07 | Pulmonary atresia with intact ventricular septum | A congenital cardiovascular malformation in which there are normally aligned great arteries, no opening between the morphologically right ventricle and the pulmonary trunk, and no ventricular level communication. | Pulmonary atresia with intact ventricular septum is a duct-dependent congenital malformation that forms a spectrum of lesions including atresia of the pulmonary valve, a varying degree of right ventricle and tricuspid valve hypoplasia, and anomalies of the coronary circulation. A right ventricular dependent coronary artery circulation is present when coronary artery fistulas are associated with a proximal coronary artery stenosis. Associated Ebstein anomaly of the tricuspid valve can be present. | | PA/IVS |
| 247 | 230 | 09.15.19 | Congenital anomaly of aortic valve | A congenital cardiovascular malformation where the aortic valve is abnormal | | | |

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| 248 | 231 | 09.15.01 | Congenital aortic valvar stenosis | <p>A congenital cardiovascular malformation of the aortic valve in which there is narrowing or stricture (obstruction to flow). 'Congenital aortic valvar stenosis' arises most commonly as a result of partial or complete fusion of one or more commissures, or is due to dysplasia of one or more aortic cusps. These congenital malformations of the aortic valve may not be initially obstructive but may become stenotic later in life due to leaflet thickening, poor relative growth and-or calcification. It is not until the congenitally malformed aortic valve is or becomes stenotic that this term should be used.</p> | | <p>Congenital valvar aortic stenosis; Congenital valvular aortic stenosis; Congenital aortic valve stricture; Congenital stenosis of aortic valve; Congenital aortic valve stenosis</p> | AS |
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| 249 | 232 | 09.15.07 | Congenital aortic regurgitation | A congenital cardiovascular malformation of the aortic valve allowing backward flow into the ventricle. | Congenital aortic regurgitation/insufficiency is rare as an isolated entity. Aortic insufficiency is more commonly seen with other associated cardiovascular anomalies. | Congenital aortic incompetence; Congenital aortic insufficiency; AR - Congenital aortic regurgitation; Congenital aorta valve insufficiency; Congenital aortic regurgitation; Congenital insufficiency of aortic valve | Congenital AI; Congenital AR |
| 250 | 233 | 09.15.22 | Bicuspid aortic valve | A congenital cardiovascular malformation where the aortic valve has two commissures and two separate leaflets (cusps) because of fusion or absence of one of the commissures | | Bicommissural aortic valve | BAV |
| 251 | 234 | 09.15.21 | Unicuspid aortic valve | A congenital cardiovascular malformation in which the aortic valve has a single commissure and a single or functionally single leaflet (cusp) | | Unicommissural aortic valve | |
| 252 | 235*** | 09.15.30 | Aortic valvar prolapse | A congenital cardiovascular malformation of the aortic valve in which part or all of one or more of the aortic valve leaflets is on the ventricular side of the plane of the inferior aspect of the attachments of the aortic valve leaflets. | | Aortic valve prolapse | |

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| 253 | 236 | 09.15.06 | Aortic valvar atresia | A congenital cardiovascular malformation in which there is no orifice of the aortic valve. | Aortic valve atresia will most often be coded under the hypoplastic left heart syndrome/complex diagnostic codes since it most often occurs as part of a spectrum of cardiovascular malformations. However, there is a small subset of patients with aortic valve atresia who have a well developed left ventricle and mitral valve and a large ventricular septal defect (nonrestrictive or restrictive). | Aortic valve atresia; Atresia of the aortic valve; Aorta valvular atresia; Aortic valvular atresia; Congenital aortic: atresia; Congenital atresia of aortic valve; Imperforate aortic valve | AA |
| 254 | 237 | 09.15.17 | Aortic annular hypoplasia | A congenital cardiovascular malformation of the aortic valve in which its 'annulus' is hypoplastic (incomplete development or underdevelopment so that it is abnormally small [below the lower limit of normal adjusted for body size]). | | Hypoplasia of the aortic annulus | |
| 255 | 238 | 09.15.09 | Dysplasia of aortic valve | A congenital cardiovascular malformation where the aortic valve leaflets are markedly thickened with restricted mobility, characterized by the presence of myxomatous tissue. | | Aortic valve dysplasia; Aortic valvar dysplasia | |
| 256 | 239 | 07.09.50 | Congenital subaortic stenosis | A congenital cardiovascular malformation associated with narrowing within the outflow tract supporting the aortic valve. | This term should be used for congenital subaortic stenosis due to lesions such as deviation of the outlet septum (seen in coarctation of the aorta and interrupted aortic arch), or a restrictive ventricular septal defect (bulboventricular foramen) in single ventricle complexes. This term should not be used for subaortic stenosis due to a fibromuscular shelf or tunnel, as specific terms exist for these lesions. For subaortic stenosis due to an atrioventricular valve in the setting of normal ventriculo-arterial connections, the term 'Congenital left ventricular outflow tract obstruction due to an atrioventricular valve' should be used. | Congenital subvalvular aortic stenosis; Subvalvular aortic stenosis, Congenital; Congenital subvalvar aortic stenosis | |
| 257 | 240 | 07.09.03 | Subaortic stenosis due to fibromuscular shelf | A cardiovascular malformation in which there is subaortic stenosis due to a discrete fibrous and/or muscular ridge. | | Discrete LVOTO | |
| 258 | 241 | 07.09.16 | Subaortic stenosis due to fibromuscular tunnel | A cardiovascular malformation in which there is a long-segment fibrous and/or muscular subaortic stenosis. | | Diffuse LVOTO | |

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| 259 | 242 | 09.16.18 | Congenital supra-valvar aortic stenosis | A congenital cardiovascular malformation with narrowing of the aorta at the level of the sinotubular junction which may extend into the ascending aorta. | <p>Congenital supra-valvar aortic stenosis is described as three forms: an hourglass deformity, a fibrous membrane, and a diffuse narrowing of the ascending aorta. Supra-valvar aortic stenosis may involve the coronary artery ostia, and the aortic leaflets may be tethered.</p> <p>The coronary arteries can become tortuous and dilated due to elevated pressures and early atherosclerosis may ensue.</p> | Stenosis at or above the sinotubular junction; Ascending aorta stenosis; Ascending aorta stricture | |
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| 260 | 243 | 09.18.01 | Aneurysm of aortic sinus of Valsalva | A congenital cardiovascular malformation in which there is dilation of one or more aortic sinus of Valsalva. | <p>The sinus of Valsalva is defined as that portion of the aortic root between the aortic root annulus and the sinotubular junction. Sinus of Valsalva aneurysm most commonly originates from the right sinus, less commonly from the non-coronary sinus, and rarely from the left sinus (<5%). The aneurysm may rupture into an adjacent chamber or site (right atrium, right ventricle, left atrium, left ventricle, pulmonary artery, pericardium) and in this case should be coded specifically ('Ruptured aortic sinus of Valsalva aneurysm'). This is to be distinguished from aortic root dilation associated with connective tissue disorders and aortopathies.</p> | Aortic sinus of valsalva aneurysm | |
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| 261 | 244 | 09.17.01 | Aortoventricular tunnel | A congenital cardiovascular malformation in which there is a paravalvar communication between the aorta and a ventricle. | | Aortico-ventricular tunnel; Ventriculo-aortic tunnel; Aorto-ventricular tunnel | |
| 262 | R ⁺ | 09.17.02 | Aorto-left ventricular tunnel | A congenital cardiovascular malformation in which there is a paravalvar communication between the ascending aorta and the left ventricle. | | | |
| 263 | S ⁺ | 09.17.04 | Aorto-right ventricular tunnel | A congenital cardiovascular malformation in which there is a paravalvar communication between the ascending aorta and the right ventricle | | | |
| 264 | 245 | 09.04.28 | Congenital anomaly of great arteries including arterial duct | A congenital cardiovascular malformation of the great arteries (aorta, pulmonary trunk [main pulmonary artery], branch pulmonary arteries) or the arterial duct (ductus arteriosus). | This term excludes the truncal root in "Common arterial trunk" (truncus arteriosus). | | |
| 265 | 246 | 09.04.07 | Congenital aortopulmonary window | A congenital cardiovascular malformation in which there is side-to-side continuity of the lumens of the ascending aorta and pulmonary trunk in association with separate aortic and pulmonary valves or their atretic remnants. | Side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants, and involvement of the pulmonary trunk (main pulmonary artery). | Aortopulmonary window; Aortic septal defect; Aortopulmonary septal defect; aorticopulmonary window; aorticopulmonary fenestration; aorticopulmonary septal defect | |

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| 266 | 247 | 09.07.16 | Congenital anomaly of pulmonary arterial tree | A congenital cardiovascular malformation of the pulmonary trunk (main pulmonary artery) and/or branch pulmonary arteries (right, left, and ramifications). | | | |
| 267 | 248 | 09.10.36 | Congenital dilation of pulmonary arterial tree | A congenital cardiovascular malformation in which there is an enlargement of the luminal diameter of the pulmonary trunk (main pulmonary artery) and/or branch pulmonary arteries (above the upper limit of normal adjusted for body size). | Includes idiopathic isolated PA dilation | | |
| 268 | 249 | 09.07.19 | Congenital pulmonary trunk anomaly | A congenital cardiovascular malformation of the pulmonary arterial trunk (main pulmonary artery). | | Congenital main pulmonary artery anomaly | |
| 269 | 250 | 09.07.20 | Congenital pulmonary trunk hypoplasia | A congenital cardiovascular malformation of the pulmonary trunk (main pulmonary artery) in which there is incomplete development or underdevelopment resulting in diffuse luminal narrowing (below the lower limit of normal adjusted for body size). | The stenosis or hypoplasia may be isolated or associated with other cardiovascular lesions. Since the narrowing is distal to the pulmonary valve, it may also be known as supravalvar pulmonary stenosis. | Main pulmonary artery hypoplasia | |
| 270 | 251 | 09.07.05 | Absent or atretic pulmonary trunk | A congenital cardiovascular malformation where the pulmonary trunk (main pulmonary artery) is not present or has luminal occlusion, excluding common arterial trunk. | | Pulmonary artery atresia; Atretic pulmonary trunk; Pulmonary trunk absent; Absent main pulmonary artery; Atretic main pulmonary artery; Absent or atretic main pulmonary artery | |
| 271 | 252 | 09.10.41 | Congenital pulmonary arterial branch anomaly | A congenital cardiovascular malformation of a pulmonary arterial branch. | | Congenital abnormality of pulmonary artery | |
| 272 | 253 | 09.10.27 | Congenital pulmonary arterial branch stenosis | | | | |
| 273 | 254 | 09.10.28 | Congenital right pulmonary arterial stenosis | A congenital cardiovascular malformation in which there is discrete narrowing of the luminal diameter of one or more segments of the right pulmonary artery (below the lower limit of normal adjusted for body size). | | | |
| 274 | 255 | 09.10.29 | Congenital left pulmonary arterial stenosis | A congenital cardiovascular malformation in which there is discrete narrowing of the luminal diameter of one or more segments of the left pulmonary artery (below the lower limit of normal adjusted for body size). | | | |
| 275 | 256 | 09.10.71 | Congenital pulmonary arterial branch hypoplasia | A congenital cardiovascular malformation in which there is diffuse luminal narrowing of a pulmonary arterial branch (below the lower limit of normal adjusted for body size). | | Hypoplasia of pulmonary artery; congenital hypoplasia of pulmonary artery; pulmonary artery hypoplasia | |

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| 276 | 257 | 09.10.72 | Congenital right pulmonary arterial hypoplasia | A congenital cardiovascular malformation in which there is diffuse luminal narrowing of the right pulmonary artery (below the lower limit of normal adjusted for body size). | | | |
| 277 | 258 | 09.10.73 | Congenital left pulmonary arterial hypoplasia | A congenital cardiovascular malformation in which there is diffuse luminal narrowing of the left pulmonary artery (below the lower limit of normal adjusted for body size). | | | |
| 278 | T+ | 09.10.21 | Absent or atretic right or left pulmonary artery | A congenital cardiovascular malformation in which the right and/or left pulmonary artery is not present or has luminal occlusion. | | Atretic right or left pulmonary artery; Absent right or left pulmonary artery; Agenesis of pulmonary artery; Pulmonary arterial agenesis | |
| 279 | 259 | 09.10.75 | Absent or atretic right pulmonary artery | A congenital cardiovascular malformation in which the right pulmonary artery is not present or has luminal occlusion. | | Atretic right pulmonary artery; Absent right pulmonary artery | |
| 280 | 260 | 09.10.77 | Absent or atretic left pulmonary artery | A congenital cardiovascular malformation in which the left pulmonary artery is not present or has luminal occlusion. | | Atretic left pulmonary artery; Absent left pulmonary artery | |
| 281 | 261 | 09.10.37 | Congenital central pulmonary arterial stenosis or hypoplasia proximal to hilar bifurcation | A congenital cardiovascular malformation of a pulmonary artery, proximal to its first branch, in which there is luminal narrowing (below the lower limit of normal adjusted for body size). | The stenosis or hypoplasia may be isolated or associated with other cardiovascular lesions. Coarctation of the pulmonary artery is related to abnormal extension of the arterial duct (ductus arteriosus) into a pulmonary arterial branch, more frequently the left branch. This is to be distinguished from narrowing or hypoplasia of the pulmonary trunk (main pulmonary artery). | Central pulmonary arterial stenosis; Central pulmonary stenosis; Proximal pulmonary arterial stenosis; Proximal pulmonary stenosis | |
| 282 | 262 | 09.10.38 | Congenital peripheral pulmonary arterial stenosis or hypoplasia at or beyond hilar bifurcation | A congenital cardiovascular malformation of a pulmonary artery, distal to its first branch, in which there is luminal narrowing (below the lower limit of normal adjusted for body size). | Peripheral pulmonary artery narrowing or hypoplasia at or beyond the hilar bifurcation. The stenosis or hypoplasia may be isolated or associated with other cardiovascular lesions. | Peripheral pulmonary stenosis; Distal peripheral pulmonary stenosis; Peripheral pulmonary arterial stenosis; Distal peripheral pulmonary arterial stenosis | |
| 283 | 263 | 09.10.30 | Congenitally discontinuous, non-confluent right and left pulmonary arteries | A congenital cardiovascular malformation in which there is absence of luminal continuity between the right and left branch pulmonary arteries. | The discontinuous branch pulmonary artery is typically supplied by a patent arterial duct (ductus arteriosus) or an aortopulmonary collateral. | | |

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| 284 | 264 | 09.09.08 | Pulmonary artery origin from ascending aorta | A congenital cardiovascular malformation in which one branch pulmonary artery arises from the ascending aorta and the other branch pulmonary artery arises from the pulmonary trunk (main pulmonary artery). | One pulmonary artery arises from the ascending aorta and the other pulmonary artery arises from the right ventricle. This does include origin of the right or left pulmonary artery from the innominate (brachiocephalic) artery or the aortic arch via a patent arterial duct (ductus arteriosus) or collateral artery. | | Hemitruncus |
| 285 | 265 | 09.09.03 | Right pulmonary artery from ascending aorta | A congenital cardiovascular malformation in which the right pulmonary artery arises from the ascending aorta and the left pulmonary artery arises from the pulmonary trunk (main pulmonary artery). | | | Hemitruncus |
| 286 | 266 | 09.09.05 | Left pulmonary artery from ascending aorta | A congenital cardiovascular malformation in which the left pulmonary artery arises from the ascending aorta and the right pulmonary artery arises from the pulmonary trunk (main pulmonary artery). | | | Hemitruncus |
| 287 | 267 | 09.09.11 | Pulmonary artery from arterial duct | A congenital cardiovascular malformation in which the pulmonary arteries are non-confluent and one or both arise from an arterial duct (ductus arteriosus). | When both arise from AD then code under discontinuous | Pulmonary artery from ductus arteriosus | |
| 288 | 268 | 09.09.02 | Right pulmonary artery from arterial duct | A congenital cardiovascular malformation in which the pulmonary arteries are non-confluent and the right pulmonary artery arises from an arterial duct (ductus arteriosus). | | Right pulmonary artery from ductus arteriosus | |
| 289 | 269 | 09.09.04 | Left pulmonary artery from arterial duct | A congenital cardiovascular malformation in which the pulmonary arteries are non-confluent and the left pulmonary artery arises from an arterial duct (ductus arteriosus). | | Left pulmonary artery from ductus arteriosus | |
| 290 | 270 | 07.09.34 | Congenital anomaly of aorta or its branches | A congenital cardiovascular malformation of the aorta and/or its branches. | | | |
| 291 | 271 | 09.16.06 | Congenital anomaly of ascending aorta | A congenital cardiovascular malformation of the aorta between the sinotubular junction and the origin of its first branch. | | | |
| 292 | 272 | 09.16.02 | Hypoplasia of ascending aortic | A congenital cardiovascular malformation in which the luminal diameter of the aorta between its sinotubular junction and the origin of the innominate (brachiocephalic) artery is narrowed (below the lower limit of normal adjusted for body size). | | Ascending aortic hypoplasia | |
| 293 | 273 | 09.16.19 | Congenital ascending aortic aneurysm or dilation | A congenital cardiovascular malformation in which the luminal diameter of the aorta between its sinotubular junction and the origin of the innominate (brachiocephalic) artery is dilated (above the upper limit of normal adjusted for body size). | | | |
| 294 | 274 | 09.28.10 | Congenital anomaly of aortic arch | A congenital cardiovascular malformation of the aorta between the origin of the innominate artery and the insertion of the arterial duct (ductus arteriosus). | | | |

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| 295 | 275 | 09.29.11 | Hypoplasia of aortic arch | A congenital cardiovascular malformation in which there is diffuse luminal narrowing of the aortic arch (below the lower limit of normal adjusted for body size). | Hypoplasia of the aortic arch is hypoplasia of the proximal or distal transverse arch or the aortic isthmus. The isthmus (arch between the left subclavian and insertion of the patent ductus arteriosus / ligamentum arteriosum) is hypoplastic if its diameter is less than 40% of the diameter of the ascending aorta. The proximal transverse arch (arch between the innominate and left carotid arteries) and distal transverse arch (arch between the left carotid and left subclavian arteries) are hypoplastic if their diameters are less than 60% and 50%, respectively, of the diameter of the ascending aorta. | Hypoplastic aortic arch; Arch hypoplasia; Aortic hypoplasia; Aortic arch hypoplasia | |
| 296 | 277 | 09.29.31 | Interrupted aortic arch | A congenital cardiovascular malformation in which there is an absence of luminal continuity between the ascending and descending aorta. | This term includes luminal atresia with discontinuity between the aortic segments and also luminal atresia with fibrous continuity between the aortic segments. Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases, blood flow to the descending thoracic aorta is through a patent arterial duct, and there is a large ventricular septal defect. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B, interruption is between the left carotid and left subclavian arteries; and in type C, interruption occurs between the innominate and left carotid arteries. | Aortic arch interruption, aortic interruption, interruption of the aortic arch, aortic atresia | IAA |
| 297 | 278 | 09.29.32 | Interrupted aortic arch distal to subclavian artery, type A | A congenital cardiovascular malformation of the aorta in which there is an absence of luminal continuity distal to the subclavian artery ipsilateral to the arch. | | Aortic arch interruption Type A; Aortic interruption Type A; Interruption of the aortic arch Type A | IAA Type A |
| 298 | 279 | 09.29.33 | Interrupted aortic arch between subclavian and common carotid arteries, type B | A congenital cardiovascular malformation of the aorta in which there is an absence of luminal continuity of the aorta between the carotid and subclavian arteries. | | Aortic arch interruption Type B; Aortic interruption Type B; Interruption of the aortic arch Type B | IAA Type B |

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| 299 | 280 | 09.29.34 | Interrupted aortic arch between carotid arteries, type C | A congenital cardiovascular malformation of the aorta in which there is an absence of luminal continuity of the aorta between the carotid arteries. | | Aortic arch interruption Type C; Aortic interruption Type C; Interruption of the aortic arch Type C | IAA Type C |
| 300 | 281 | 09.28.15 | Right aortic arch | A congenital cardiovascular malformation of the great vessels in which the aortic arch crosses to the right of the trachea. | | Right arch; Right-sided arch; Right-sided aortic arch; Persistent right arch; Persistent right-sided arch; Persistent right-sided aortic arch | |
| 301 | 282 | 09.28.22 | Left aortic arch | A congenital cardiovascular finding of the great vessels in which the aortic arch crosses to the left of the trachea. | To be coded only when this represents an abnormal finding, such as in situs inversus. | Left arch; Left-sided arch; Left-sided aortic arch | |
| 302 | 283 | 09.28.06 | Cervical aortic arch | A congenital cardiovascular malformation in which the aortic arch is located superior to the clavicle, and is most commonly right-sided. | | Cervical arch | |
| 303 | X ⁺ | 09.30.22 | Aortic diverticulum of Kommerell | A congenital cardiovascular malformation consisting of an aneurysmally dilated proximal portion of an aberrant subclavian artery or aberrant innominate (brachiocephalic) artery as it arises from the descending aorta. | | | |
| 304 | Y ⁺ | 09.28.08 | Persistent fifth aortic arch | A congenital cardiovascular malformation in which there is an accessory artery originating from the ascending aorta proximal to the ostium of the innominate (brachiocephalic) artery which connects to the descending aorta or near the confluence of the right and left pulmonary arteries. | When the arterial connection is between the ascending and descending aorta, it is often associated with coarctation of the aorta. This malformation may be distinguished from a double aortic arch by the lack of arch vessels arising from it and by establishing that the accessory vessel and the aortic arch lie on the same side of the tracheo-oesophageal axis. Although this malformation has been termed a "persistent fifth aortic arch", the use of this term is in dispute. | | |
| 305 | 276 | 09.29.01 | Coarctation of aorta | A congenital cardiovascular malformation in which there is a discrete luminal narrowing of the junction between the aortic arch and the descending aorta. | Coarctation of the aorta generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta. | Aortic coarctation | |
| 306 | U ⁺ | 09.29.02 | Preductal coarctation of aorta | A congenital cardiovascular malformation in which there is narrowing of the aortic lumen proximal to the insertion of the arterial duct (ductus arteriosus) or ligament (ligamentum arteriosum). | | | |
| 307 | V ⁺ | 09.29.04 | Postductal coarctation of aorta | A congenital cardiovascular malformation in which there is narrowing of the aortic lumen distal to the insertion of the arterial duct (ductus arteriosus) or ligament (ligamentum arteriosum). | | | |

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| 308 | W ⁺ | 09.29.03 | Juxtaductal (paraductal) coarctation of aorta | A congenital cardiovascular malformation in which there is narrowing of the aortic lumen opposite the level of insertion of the arterial duct (ductus arteriosus) or ligament (ligamentum arteriosum). | | | |
| 309 | 284 | 09.30.17 | Congenital anomaly of aortic arch branch | A congenital cardiovascular malformation of one or more branches of the aortic arch (innominate, carotid, or subclavian arteries). | | | |
| 310 | 285 | 09.30.02 | Aberrant origin of right subclavian artery | A congenital cardiovascular malformation in which the right subclavian artery arises distal to the left subclavian artery in the setting of a left aortic arch. | Dysphagia lusoria (or Bayford-Autenrieth dysphagia) is an abnormal condition characterized by difficulty in swallowing caused by an aberrant right subclavian artery. It was discovered by David Bayford in 1761 and first reported in a paper by the same in 1787 | Aberrant right subclavian artery; Arteria lusoria; Dysphagia lusoria; Aberrant right subclavian artery syndrome | ARSA, ARSCA |
| 311 | 286 | 09.30.04 | Aberrant origin of left subclavian artery | A congenital cardiovascular malformation in which the left subclavian artery arises distal to the right subclavian artery in the setting of a right arch. | | Aberrant left subclavian artery; Retrosophageal left subclavian artery | ALSA, ALSCA, RELSCA |
| 312 | 287 | 09.30.16 | Isolation of an aortic arch branch | A congenital cardiovascular malformation in which the only connection to a brachiocephalic vessel is via an arterial duct (ductus arteriosus) or its ligament. | | | |
| 313 | Z ⁺ | 09.30.11 | Isolation of innominate artery | A congenital cardiovascular malformation in which the innominate (brachiocephalic) artery has no direct connection to the aorta. | | Isolation of brachiocephalic artery; Isolation of brachiocephalic trunk | |
| 314 | AA ⁺ | 09.30.14 | Isolation of left subclavian artery | A congenital cardiovascular malformation in which the left subclavian artery has no direct connection to the aorta. | | | |
| 315 | AB ⁺ | 09.30.15 | Isolation of right subclavian artery | A congenital cardiovascular malformation in which the right subclavian artery has no direct connection to the aorta. | | | |
| 316 | AC ⁺ | 09.30.12 | Isolation of left common carotid artery | A congenital cardiovascular malformation in which the left common carotid artery has no direct connection to the aorta. | | | |
| 317 | AD ⁺ | 09.30.13 | Isolation of right common carotid artery | A congenital cardiovascular malformation in which in which the right common carotid artery has no direct connection to the aorta. | | | |
| 318 | AE ⁺ | 09.30.34 | Aberrant origin of innominate artery | A congenital cardiovascular malformation in which an innominate (brachiocephalic) artery arises from an abnormally distal position on the aortic arch, or from a diverticulum of Kommerell, or from a pulmonary artery. | | Aberrant origin of brachiocephalic artery; Aberrant origin of brachiocephalic trunk | |
| 319 | AF ⁺ | 09.30.31 | Common origin of the innominate artery and left common carotid artery | A congenital cardiovascular malformation in which the innominate (brachiocephalic) artery and left common carotid artery arise from a single aortic orifice in the setting of a left aortic arch. | This term as well as "Left common carotid arising from innominate artery" have been used synonymously (but incorrectly) with the term "Bovine aortic arch", despite the fact that neither resemble a true bovine arch. | | |

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| 320 | AG+ | 09.30.28 | Separate origins of internal and external carotid arteries | A congenital cardiovascular malformation in which there is an absence of a common carotid artery and the internal and external carotid arteries connect separately to the aorta. | | | |
| 321 | 288 | 09.28.47 | Congenital anomaly of descending thoracic or abdominal aorta | A congenital cardiovascular malformation of the aorta distal to the aortic arch. | | Congenital anomaly of thoracoabdominal aorta | |
| 322 | 289 | 09.29.44 | Descending thoracic or abdominal aortic coarctation | A congenital cardiovascular malformation in which there is discrete luminal narrowing of the descending thoracic or abdominal aorta. | | Middle aortic syndrome | MAS |
| 323 | AH+ | 09.29.05 | Coarctation of the descending thoracic aorta | A congenital cardiovascular malformation in which there is discrete luminal narrowing of the descending thoracic aorta. | | | |
| 324 | AI+ | 09.29.06 | Coarctation of the abdominal aorta | A congenital cardiovascular malformation in which there is discrete luminal narrowing of the abdominal aorta. | | | |
| 325 | 290 | 09.31.40 | Tracheo-oesophageal compressive syndrome | A congenital cardiovascular malformation which causes compression of the trachea and/or the oesophagus. | | | |
| 326 | 291 | 09.30.23 | Innominate artery compression syndrome | A congenital cardiovascular malformation in which there is anterior compression of the trachea by the innominate artery. | This syndrome is a true compression of the trachea by the abnormally positioned innominate artery. The innominate artery can appear to "compress" the trachea in the presence of tracheomalacia but, in the absence of an abnormal origin and course of the innominate artery, this apparent "compression" most likely is a consequence of the tracheomalacia itself rather than actual compression by the innominate artery. | Innominate artery compressive syndrome; Brachiocephalic artery compression syndrome; Brachiocephalic artery compressive syndrome; Innominate artery compression of the trachea; Brachiocephalic artery compression of the trachea; Aberrant innominate artery; Aberrant brachiocephalic artery; Anomalous origin of the innominate artery; Anomalous origin of the brachiocephalic artery | |
| 327 | AJ+ | 09.30.27 | Retro-oesophageal origin of aberrant innominate artery | A congenital cardiovascular malformation in which the innominate (brachiocephalic) artery passes from right-to-left or from left-to-right posterior to the oesophagus. | | | |

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| 328 | 292 | 09.31.00 | Vascular Ring | A congenital cardiovascular malformation in which one or more of the following encircle the trachea and oesophagus: the aorta and its major branches, the pulmonary trunk and its major branches, and the arterial duct (ductus arteriosus) or their vascular remnant(s). | The term vascular ring refers to a group of congenital vascular anomalies that encircle and compress the oesophagus and/or trachea. The compression may be from a complete anatomic ring (double aortic arch or right aortic arch with a left ligamentum) or from a compressive effect of an aberrant vessel (innominate artery compression syndrome). | | |
| 329 | 293 | 09.28.09 | Double aortic arch | A congenital cardiovascular malformation in which the right and left aortic arches (patent or atretic) encircle the trachea and oesophagus. | | Encircling double aortic arch | DAA |
| 330 | 294 | 09.31.35 | Vascular ring of right aortic arch and left arterial duct or ligament | A congenital cardiovascular malformation in which continuity of the right aortic arch, pulmonary trunk and left arterial duct (or ligament) encircles the trachea and oesophagus. | This diagnosis may or may not include the presence of a diverticulum of Kommerell. | | |
| 331 | 295 | 09.31.34 | Vascular ring of left aortic arch and right arterial duct or ligament | A congenital cardiovascular malformation in which continuity of the left aortic arch, pulmonary trunk and right arterial duct (or ligament) encircles the trachea and oesophagus. | This diagnosis may or may not include the presence of a diverticulum of Kommerell. | | |
| 332 | 296 | 09.09.06 | Anomalous origin of left pulmonary artery from right pulmonary artery | A congenital cardiovascular malformation in which the left pulmonary artery originates from the right pulmonary artery and passes between the trachea and oesophagus, and is often associated with tracheobronchial anomalies such as tracheomalacia, stenosis, or complete tracheal rings. | | Pulmonary arterial sling | |
| 333 | 297 | 09.27.05 | Congenital arterial duct anomaly | A congenital cardiovascular malformation of the arterial duct (ductus arteriosus) or its fibrous remnant (ligamentum arteriosum). | The described anomalies include an anomalous course, abnormal laterality or duplication, persistent patency or premature closure, and aneurysm formation. | Congenital ductus arteriosus anomaly | Congenital PDA anomaly |

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|-----|-----|----------|----------------------|---|---|--|------------------------|
| 334 | 298 | 09.27.21 | Patent arterial duct | A congenital cardiovascular finding in which the arterial duct (ductus arteriosus) is open beyond the normal age of spontaneous closure. | A patent arterial duct (ductus arteriosus) is a vascular arterial connection between the thoracic aorta and the pulmonary artery. Most commonly, a patent arterial duct has its origin from the descending thoracic aorta, just distal and opposite the origin of the left subclavian artery. The insertion of the ductus is most commonly into the very proximal left pulmonary artery at its junction with the main pulmonary artery. Origination and insertion sites can be variable, however. | Patent ductus arteriosus; Persistent ductus Botalli; Patent ductus Botalli; Open ductus arteriosus; Persistent ductus arteriosus; Ductus arteriosus nonclosure; Patent ductus arteriosus - persisting type; PDA - patent ductus arteriosus; Persistent ductus arteriosus (Botalli) | PDA; PAD |
| 335 | AK+ | 09.27.03 | Absent arterial duct | A congenital cardiovascular malformation in which the arterial duct (ductus arteriosus) or ligament (ligamentum arteriosum) is not present. | | Absent ductus arteriosus; Ductus arteriosus agenesis | Absent PDA; Absent PAD |

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|-----|-----|----------|--------------------------------------|--|--|---------------------------------------|---|
| 336 | AL+ | 09.27.04 | Congenital aneurysm of arterial duct | A congenital cardiovascular malformation where there is fusiform or saccular dilatation of the arterial duct (ductus arteriosus). | | Aneurysm of ductus arteriosus | Aneurysm of PDA; Aneurysm of PAD |
| 337 | AM+ | 09.27.41 | Anomalous origin of arterial duct | A congenital cardiovascular malformation in which there is an arterial duct (ductus arteriosus) that is not in its expected position between the aorta or arch vessels and the pulmonary arterial circulation. | While in the setting of a left aortic arch the arterial duct is expected to arise from the concavity of the aortic arch, in the case of a right aortic arch it can normally be expected to arise from the base of the innominate (brachiocephalic) artery. | Anomalous origin of ductus arteriosus | Anomalous origin of PDA; Anomalous origin of PAD |

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|-----|-----|----------|---------------------------------------|--|---|---|--|
| 338 | AN+ | 09.27.82 | Anomalous origin of arterial ligament | A congenital cardiovascular malformation in which there is a remnant of the arterial duct (ductus arteriosus) that is not in its expected position between the aorta or arch vessels and the pulmonary arterial circulation. | While in the setting of a left aortic arch the arterial ligament is expected to be seen stretching from the concavity of the aortic arch to the pulmonary artery confluence, in the case of a right aortic arch one end of the ligament can normally be found at the base of the innominate (brachiocephalic) artery. | | |
| 339 | AO+ | 14.10.51 | Fetal arterial duct narrowing-closure | A congenital cardiovascular malformation in which there is prenatal partial or complete closure of the arterial duct (ductus arteriosus). | | Fetal ductus arteriosus narrowing-closure | Fetal PDA narrowing-closure; Fetal PAD narrowing-closure |

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|-----|-----|----------|--|---|---|---|----------------|
| 340 | 299 | 09.08.18 | Systemic-to-pulmonary collateral arteries | A congenital cardiovascular malformation in which the blood supply to the lungs is derived completely or in part from collateral vessels that arise from the aorta or its branches. | At least part of the pulmonary blood flow is derived from systemic-to-pulmonary collateral arteries that are highly variable in number, and that usually arise from the descending thoracic aorta, but uncommonly may originate from the aortic arch or the subclavian, carotid or even the coronary arteries. There may or may not be native pulmonary arteries which, if present, may be hypoplastic, and either confluent or non-confluent. This term is intended to exclude patients with systemic to pulmonary artery collaterals and "Tetralogy of Fallot with pulmonary atresia" since they are coded using the term "Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral arteries". | Major systemic-to-pulmonary collateral arteries; Major systemic-to-pulmonary collateral artery; Systemic-to-pulmonary collateral vessels; Systemic-to-pulmonary collateral flow; Aortopulmonary collateral arteries | APCAs; MAPCAs |
| 341 | 300 | 09.46.03 | Congenital anomaly of coronary artery | A congenital cardiovascular malformation of a coronary artery. | This includes absence of a coronary, anomalous origin or course, dilation or stenosis, and fistulas. Congenital anomalies of the coronary venous system should not be included here but rather under 'Congenital anomaly of mediastinal systemic vein'. | Congenital malformations of coronary vessels; malformation of coronary vessels | |
| 342 | 301 | 09.41.01 | Anomalous origin of coronary artery from pulmonary arterial tree | A congenital cardiovascular malformation in which a coronary artery originates from the pulmonary trunk or one of its branches. | Although the most common of these malformations involves the left coronary artery arising from the pulmonary trunk (main pulmonary artery) rather than from the aorta, occasionally the right coronary artery, the circumflex, or both coronary arteries may arise from any of the central pulmonary arteries. | | |
| 343 | 302 | 09.41.03 | Anomalous origin of left coronary artery from pulmonary artery | A congenital cardiovascular malformation in which the left coronary artery originates from the pulmonary trunk or one of its branches. | | Anomalous origin of left coronary artery from pulmonary trunk (ALCAPT) | ALCAPA; ALCAPT |

| 344 | 303 | 09.42.00 | Anomalous aortic origin or course of coronary artery | A congenital cardiovascular malformation in which the origin and/or course of a coronary artery is abnormal. | This is where coronary "anomalies" in the presence of discordant ventriculo-arterial connections should be coded. | | |
|-----|-----|----------|---|--|---|--|-------|
| 345 | 304 | 09.42.21 | Anomalous aortic origin of coronary artery with ventriculo-arterial concordance | A congenital cardiovascular malformation in the setting of ventriculo-arterial concordance in which a coronary artery arises from the aorta at a location other than its expected sinus. | Anomalous aortic origins of the coronary arteries include a spectrum of anatomic variations of the normal coronary artery origins. Coronary artery anomalies of aortic origin to be coded under this diagnostic field include: anomalies of take-off (high take-off), origin (sinus), branching, and number. An anomalous course of the coronary artery vessels is also significant, particularly those coronary arteries that arise or course between the great vessels. This term is used for patients with concordant ventriculo-arterial connections. | AAOCA; Anomalous aortic origin of coronary artery | AAOCA |
| 346 | 305 | 09.46.26 | Right coronary artery from left aortic sinus with ventriculo-arterial concordance | A congenital cardiovascular malformation in the setting of ventriculo-arterial concordance in which the right coronary artery arises from, or immediately above, the left sinus of Valsalva. | This term applies to patients with concordant ventriculo-arterial connections. | | |
| 347 | 306 | 09.46.21 | Left coronary artery from right aortic sinus with ventriculo-arterial concordance | A congenital cardiovascular malformation in the setting of ventriculo-arterial concordance in which the left coronary artery arises from, or immediately above, the right sinus of Valsalva. | This term applies to patients with concordant ventriculo-arterial connections. | | |
| 348 | 307 | 09.43.04 | Anterior descending from right coronary artery across right ventricular outflow tract | A congenital cardiovascular malformation in which the left circumflex coronary artery arises normally and the anterior descending coronary artery arises from the proximal right coronary artery and courses across the right ventricular outflow tract. | | Anterior interventricular artery from right coronary artery across right ventricular outflow tract; Left anterior descending (LAD) from right coronary artery across right ventricular outflow tract | |
| 349 | 308 | 09.43.05 | Intramural proximal coronary arterial course | A congenital cardiovascular malformation in which the proximal coronary artery courses within and parallel to the wall of the aorta before it emerges to assume its epicardial course. | | Intramural coronary artery | |
| 350 | 309 | 09.43.13 | Single coronary artery supplying all of heart | A congenital cardiovascular malformation in which a solitary coronary artery supplies the myocardium. | | | |
| 351 | 310 | 09.43.12 | Myocardial bridging of coronary artery | A congenital cardiovascular malformation in which a usually epicardial coronary arterial segment is located within the ventricular myocardium, making this segment susceptible to compression during systole. | | Myocardial bridge | MB |
| 352 | 311 | 09.44.05 | Congenital coronary arterial orifice stenosis | A congenital cardiovascular malformation in which the orifice of a coronary artery is narrowed. | | Congenital coronary ostial stenosis | |

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| 353 | 312 | 09.44.19 | Congenital coronary arterial orifice atresia | A congenital cardiovascular malformation in which the orifice of a coronary artery is not patent. | This excludes single coronary artery anomalies | Congenital coronary ostial atresia | COSA |
| 354 | 313 | 09.45.16 | Congenital coronary arterial fistula | A congenital cardiovascular malformation in which a coronary artery communicates, through an anomalous channel, with a cardiac chamber or with any segment of the pulmonary circulation. | This communication may be simple and direct or may be tortuous and dilated. In order of frequency the involved coronary artery is the right, the left and, rarely, both coronary arteries. Occasionally multiple fistulas are present. | Coronary fistula | |
| 355 | 314 | 09.45.10 | Congenital coronary arterial fistula to right ventricle | A congenital cardiovascular malformation in which a coronary artery communicates, through an anomalous channel, with the right ventricle. | | | |
| 356 | 315 | 09.45.22 | Congenital coronary arterial fistula to left ventricle | A congenital cardiovascular malformation in which a coronary artery communicates, through an anomalous channel, with the left ventricle. | | | |
| 357 | 316 | 09.46.14 | Congenital coronary arterial aneurysm | A congenital cardiovascular malformation in which there is one or more localized dilation(s) of a coronary vessel. | Coronary artery aneurysms are usually seen in two forms, saccular (shaped like a sack, with a change in caliber over a very short distance), and fusiform (shaped like a spindle, tapering towards each end), and both may be single or multiple. | | |
| 358 | AP+ | 09.42.09 | Accessory coronary artery | A congenital cardiac malformation in which there is an additional coronary artery that duplicates the blood supply of an existing and named coronary artery. | | | |
| 359 | AQ+ | 09.46.44 | Congenital absence of coronary artery | A congenital cardiac malformation in which a right, left main, interventricular, or circumflex coronary artery is not present in its anticipated epicardial course. | | | |
| 360 | AR+ | 09.46.19 | Coronary arterial hypoplasia | A congenital cardiovascular malformation in which one or more coronary arteries have an abnormally reduced length or lumen diameter. | | | |
| 361 | 317 | 10.01.05 | Congenital pericardial anomaly | A congenital malformation in which there is a structural and/or functional abnormality of the pericardium. | This term can include complete or partial absence of pericardium, pericardial cysts, antenatal pericardial effusion and congenital tumours of the serous pericardium. | | |
| 362 | AS+ | 10.01.02 | Complete agenesis of pericardium | A congenital cardiac malformation in which the fibroserous pericardium is completely absent. | | | |
| 363 | AT+ | 10.01.01 | Partial agenesis of pericardium | A congenital cardiac malformation in which the fibroserous pericardium is partly absent. | | | |

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|-----|--------|----------|---------------------------------|---|---|---|--|
| 364 | AU+ | 10.01.03 | Pleuropericardial cyst | A congenital finding in which there is a closed sac typically found at the pleuropericardial angle, having a distinct membrane and division compared to the nearby tissue. | It may contain air, fluid, or semi-solid material. Congenital non-malignant pleuropericardial cysts include pericardial teratoma, cystic lymphangioma, bronchogenic, and celomic cysts. | | |
| 365 | AV+ | 10.03.53 | Congenital cardiac tumour | A congenital malformation consisting of growth of abnormal tissue within the heart. | | | |
| 366 | 318*** | 09.19.05 | Pulmonary arteriovenous fistula | A congenital cardiovascular malformation in which there is an abnormal, direct connection between a pulmonary artery and pulmonary vein or left atrium without an intervening capillary bed. | | Pulmonary arteriovenous malformation; Pulmonary arteriovenous aneurysm | |
| 367 | AW+ | 02.02.03 | Bifid apex of heart | A congenital cardiac finding in which there is a notch or cleft on the epicardial surface of the heart at the level of the distal interventricular groove that divides the apex in two, so that the apex of the left ventricle lies on one side of the cleft while the apex of the right ventricle lies on the other. | A bifid cardiac apex can be associated with congenital malformations but may also be found in otherwise normal hearts. | | |

Supplemental Table 3. IPCCC ICD-11 Codes

Supplemental Table 1 presents the diagnostic hierarchy of the paediatric and congenital cardiac terms in the **ICD-11 Foundation**. Terms that appear in the **ICD-11 MMS** are presented in rows highlighted in yellow.

Supplemental Table 2 contains the definitions, commentary, synonyms, and abbreviations for these terms of the paediatric and congenital cardiac terms in the **ICD-11 Foundation**. Terms that appear in the **ICD-11 MMS** are presented in rows highlighted in yellow.

Supplemental Table 3 contains the various IPCCC ICD-11 Codes, including the IPCCC codes as well as the ICD-11 Foundation entity numbers and the ICD-11 MMS codes.

In the Supplemental Tables:

+ = New terms added by the **WHO** ICD-11 team since the original 318 terms contained in the publication [105] from 2017

** = Terms that code normal human anatomy, but are important to specify when part of a complex congenital cardiac malformation

*** = Terms that are not located in the paediatric and congenital cardiac section of ICD-11

Rows with numbers in the second column labelled “ICD-11 Row Number or Letter” contain terms in the original 318 terms contained in the publication [105] from 2017.

Rows with letters in the second column labelled “ICD-11 Row Number or Letter” contain new terms added by the **WHO** ICD-11 team since the original 318 terms contained in the publication [105] from 2017.

MMS coding notes for Supplemental Table 3:

- 1) The column titled “**ICD-11 MMS code or ICD-11 MMS crossmap**” contains the alphanumeric codes for terms listed in ICD-11 Mortality and Morbidity Statistics (highlighted in yellow). For the terms that are not highlighted (not in ICD-11 MMS), the column

contains the alphanumeric codes of higher order MMS terms to which they have been crossmapped. For example, “Complete agenesis of pericardium” (not listed in MMS), has been crossmapped to MMS term “Congenital pericardial anomaly” (LA8D).

- 2) Several terms in MMS have two additional versions (not published here) with distinct alphanumeric codes (either ending in “Y” [Other specified] or “Z” [unspecified]). For example, in addition to the term “Congenital anomaly of coronary artery” (LA8C), the following terms also exist: “Other specified congenital anomaly of coronary artery” (LA8C.Y) and “Congenital anomaly of coronary artery, unspecified” (LA8C.Z). When available, the non-highlighted terms in Supplemental Table 3 have been crossmapped to the “Y” version of higher order MMS terms, since it conveys the added information that a more specific diagnosis is known, but that the more specific term does not exist in MMS. For example, “Accessory coronary artery” has been crossmapped to LA8C.Y instead of LA8C.
- 3) The first term of Supplemental Table 3, “Structural developmental anomaly of heart or great vessels”, is listed in MMS but does not have an MMS alphanumeric code. If wanting to code for this term in MMS, one must use either “Structural developmental anomaly of heart or great vessels, unspecified” (LA8Z), or “Other specified structural developmental anomaly of heart or great vessels” (LA8Y). Several non-highlighted terms in Supplemental Table 3, such as “Bifid cardiac apex”, have been crossmapped to LA8Y, when no appropriate higher order term exists in MMS.

Supplemental Table 3. IPCCC ICD-11 Codes

| ICD-11 New Row Number or Letter | ICD-11 Old Row Number or New Letter | IPCCC code | ICD-11 Congenital Cardiac term | ICD-11 Foundation entity number | ICD-11 MMS code or ICD-11 MMS crossmap | Parent | Sibling order | ICD-11 Congenital Cardiac term published in 2017 [105] (terms in blue cells have been changed) | ICD-11 Congenital Cardiac term components published in 2017 [105] and now moved to Synonyms |
|---------------------------------|-------------------------------------|------------|---|---------------------------------|--|-------------------------|---------------|--|---|
| 1 | 1 | 01.01.59 | Structural developmental anomaly of heart or great vessels | 2004408087 | LA8Z | No parent - top of list | 0 | Structural developmental anomaly of heart and great vessels | |
| 2 | 2 | 03.01.13 | Congenital anomaly of position or spatial relationships of thoraco-abdominal organs | 422322292 | LA8Y | 01.01.59 | 1 | Congenital anomaly of position or spatial relationships of thoraco-abdominal organs | |
| 3 | 3 | 02.01.09 | Anomalous position-orientation of heart | 731798335 | LA80 | 03.01.13 | 1 | Anomalous position-orientation of heart | |
| 4 | 4** | 02.01.03 | Laevocardia | 848076902 | LA80.0 | 02.01.09 | 1 | Laevocardia | |
| 5 | 5 | 02.01.02 | Dextrocardia | 1472687600 | LA80.1 | 02.01.09 | 2 | Dextrocardia | |
| 6 | 6 | 02.01.04 | Mesocardia | 1251061251 | LA80.2 | 02.01.09 | 3 | Mesocardia | |
| 7 | 7 | 02.01.01 | Extrathoracic heart | 285576893 | LA80.3 | 02.01.09 | 4 | Extrathoracic heart | |
| 8 | 8** | 01.03.00 | Usual atrial arrangement | 1486434040 | | 03.01.13 | 2 | Usual atrial arrangement (atrial situs solitus) | Atrial situs solitus |
| 9 | 9 | 01.03.06 | Abnormal atrial arrangement | 152930652 | LA8Y | 03.01.13 | 3 | Abnormal atrial arrangement (abnormal atrial situs) | Abnormal atrial situs |
| 10 | 10 | 01.03.01 | Atrial situs inversus | 1956091337 | LA8Y | 01.03.06 | 1 | Atrial situs inversus | |
| 11 | 11 | 01.03.02 | Isomerism of right atrial appendages | 967750556 | LA8Y | 01.03.06 | 2 | Isomerism of right atrial appendages | |
| 12 | 12 | 01.03.03 | Isomerism of left atrial appendages | 108224239 | LA8Y | 01.03.06 | 3 | Isomerism of left atrial appendages | |
| 13 | 13 | 02.04.12 | Abnormal ventricular relationships | 2036838536 | LA81 | 03.01.13 | 4 | Abnormal ventricular relationships | |
| 14 | 14** | 02.03.01 | Right hand pattern ventricular topology | 1541694179 | | 02.14.12 | 1 | Left-hand pattern ventricular topology | |
| 15 | 15 | 02.03.02 | Left hand pattern ventricular topology | 1819755421 | LA81 | 02.14.12 | 2 | Right-hand pattern ventricular topology | |

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|----|------|----------|---|------------|------|----------|---|--|--|
| 16 | 16 | 02.03.03 | Crisscross heart | 856695997 | LA81 | 02.14.12 | 3 | Crisscross heart (twisted atrioventricular connections) | Twisted atrioventricular connections |
| 17 | 17 | 02.04.00 | Superior-inferior ventricular relationship | 1577251368 | LA81 | 02.14.12 | 4 | Superior-inferior ('upstairs-downstairs') ventricular relationship | 'Upstairs-downstairs' ventricular relationship |
| 18 | 18 | 02.06.12 | Abnormal relationship of great arterial roots | 1403694832 | LA8Y | 03.01.13 | 5 | Abnormal relationship of great arterial roots | |
| 19 | 19 | 02.06.03 | Aortic root directly anterior to pulmonary root | 1491991321 | LA8Y | 02.06.12 | 1 | Aortic root directly anterior to pulmonary root | |
| 20 | 20 | 02.06.02 | Aortic root anterior and rightward to pulmonary root | 2054039932 | LA8Y | 02.06.12 | 2 | Aortic root anterior and rightward to pulmonary root | |
| 21 | 21 | 02.06.04 | Aortic root anterior and leftward to pulmonary root | 1308428290 | LA8Y | 02.06.12 | 3 | Aortic root anterior and leftward to pulmonary root | |
| 22 | 22 | 02.06.01 | Aortic root side by side and directly rightward to pulmonary root | 1682649237 | LA8Y | 02.06.12 | 4 | Aortic root side by side and directly rightward to pulmonary root | |
| 23 | 23 | 02.06.05 | Aortic root side by side and directly leftward to pulmonary root | 1447224468 | LA8Y | 02.06.12 | 5 | Aortic root side by side and directly leftward to pulmonary root | |
| 24 | 24 | 02.06.07 | Aortic root directly posterior to pulmonary root | 1772030433 | LA8Y | 02.06.12 | 6 | Aortic root directly posterior to pulmonary root | |
| 25 | 25** | 02.06.00 | Aortic root posterior and rightward to pulmonary root | 1577855135 | | 02.06.12 | 7 | Aortic root posterior and rightward to pulmonary root | |
| 26 | 26 | 02.06.06 | Aortic root posterior and leftward to pulmonary root | 1995160254 | LA8Y | 02.06.12 | 8 | Aortic root posterior and leftward to pulmonary root | |
| 27 | 27 | 02.07.03 | Abnormal intrapericardial course of great arteries | 1155690171 | LA8Y | 03.01.13 | 6 | Abnormal intrapericardial course of great arteries | |
| 28 | 28** | 02.07.00 | Spiralling course of great arteries | 1834243628 | | 02.07.03 | 1 | Spiralling course of great arteries | |
| 29 | 29 | 02.07.01 | Parallel course of great arteries | 1523021650 | LA8Y | 02.07.03 | 2 | Parallel course of great arteries | |

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|----|------|----------|--|------------|---------|----------|---|--|---|
| 30 | 30 | 03.01.02 | Visceral heterotaxy | 780273165 | LA8Y | 03.01.13 | 7 | Visceral heterotaxy (abnormal arrangement of thoraco-abdominal organs) | Abnormal arrangement of thoraco-abdominal organs |
| 31 | 31 | 03.01.04 | Right isomerism | 1576694141 | LA83 | 03.01.02 | 1 | Right isomerism ('asplenia syndrome') | 'Asplenia syndrome' |
| 32 | 32 | 03.01.05 | Left Isomerism | 1234712569 | LA84 | 03.01.02 | 2 | Left Isomerism ('polysplenia syndrome') | 'Polysplenia syndrome' |
| 33 | 33 | 03.01.03 | Total mirror imagery | 797648408 | LA82 | 03.01.13 | 8 | Total mirror imagery (situs inversus totalis) | Situs inversus totalis |
| 34 | 34 | 01.03.09 | Congenital anomaly of an atrioventricular or ventriculo-arterial connection | 238916322 | LA85 | 01.01.59 | 2 | Congenital anomaly of an atrioventricular or ventriculo-arterial connection | |
| 35 | 35** | 01.04.00 | Concordant atrioventricular connections | 221514522 | | 01.03.09 | 1 | Concordant atrioventricular connections | |
| 36 | 36 | 01.04.01 | Discordant atrioventricular connections | 230955773 | LA85.0 | 01.03.09 | 2 | Discordant atrioventricular connections | |
| 37 | 37 | 01.01.03 | Congenitally corrected transposition of great arteries | 254915185 | LA85.00 | 01.04.01 | 1 | Congenitally corrected transposition of great arteries (discordant atrioventricular & ventriculo-arterial connections) | Discordant atrioventricular & ventriculo-arterial connections |
| 38 | 38 | 01.05.01 | Transposition of the great arteries | 429190257 | LA85.1 | 01.03.09 | 3 | Transposition of the great arteries (discordant ventriculo-arterial connections) | Discordant ventriculo-arterial connections |
| 39 | 39 | 01.01.02 | Transposition of the great arteries with concordant atrioventricular connections and intact ventricular septum | 1927702340 | LA85.1 | 01.05.01 | 1 | Transposition of the great arteries with concordant atrioventricular connections and intact ventricular septum | |

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|----|------|---------------------|---|------------|---------|----------|---|---|------------------------------------|
| 40 | 40 | 01.01.10 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect | 1165313598 | LA85.1 | 01.05.01 | 2 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect | |
| 41 | 41 | 01.01.10 + 07.09.01 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect and left ventricular outflow tract obstruction | 1744213081 | LA85.1 | 01.05.01 | 3 | Transposition of the great arteries with concordant atrioventricular connections and ventricular septal defect and left ventricular outflow tract obstruction | |
| 42 | 42** | 01.05.00 | Concordant ventriculo-arterial connections | 840265755 | | 01.03.09 | 4 | Concordant ventriculo-arterial connections | |
| 43 | 43 | 01.05.10 | Concordant ventriculo-arterial connections with parallel great arteries | 1912928588 | LA85.Y | 01.05.00 | 1 | Concordant ventriculo-arterial connections with parallel great arteries (anatomically corrected malposition) | Anatomically corrected malposition |
| 44 | 44 | 01.01.04 | Double outlet right ventricle | 141717788 | LA85.2 | 01.03.09 | 5 | Double outlet right ventricle | |
| 45 | 45 | 01.01.17 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | 1060446859 | LA85.23 | 01.01.04 | 1 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect & pulmonary stenosis (Fallot type) | |
| 46 | 46 | 01.01.17 + 07.13.04 | Double outlet right ventricle with subaortic ventricular septal defect and pulmonary stenosis, Fallot type | 2017764663 | LA85.23 | 01.01.17 | 1 | Double outlet right ventricle with subaortic ventricular septal defect & pulmonary stenosis | |
| 47 | 47 | 01.01.17 + 07.13.02 | Double outlet right ventricle with doubly committed ventricular septal defect and pulmonary stenosis, Fallot type | 1460882984 | LA85.23 | 01.01.17 | 2 | Double outlet right ventricle with doubly committed ventricular septal defect & pulmonary stenosis | |

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|----|----|---------------------|---|------------|---------|----------|---|--|---|
| 48 | 48 | 01.01.18 | Double outlet right ventricle with subpulmonary ventricular septal defect, transposition type | 1963185163 | LA85.20 | 01.01.04 | 2 | Double outlet right ventricle with subpulmonary ventricular septal defect (transposition type) | |
| 49 | 49 | 01.01.19 | Double outlet right ventricle with non-committed ventricular septal defect | 2032277111 | LA85.21 | 01.01.04 | 3 | Double outlet right ventricle with non-committed ventricular septal defect | |
| 50 | 50 | 01.01.40 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect without pulmonary stenosis, ventricular septal defect type | 1410257155 | LA85.22 | 01.01.04 | 4 | Double outlet right ventricle with subaortic or doubly committed ventricular septal defect without pulmonary stenosis (ventricular septal defect type) | |
| 51 | 51 | 01.01.40 + 07.13.04 | Double outlet right ventricle with subaortic ventricular septal defect without pulmonary stenosis | 434071545 | LA85.22 | 01.01.40 | 1 | Double outlet right ventricle with subaortic ventricular septal defect without pulmonary stenosis | |
| 52 | 52 | 01.01.40 + 07.13.02 | Double outlet right ventricle with doubly committed ventricular septal defect without pulmonary stenosis | 776750727 | LA85.22 | 01.01.40 | 2 | Double outlet right ventricle with doubly committed ventricular septal defect without pulmonary stenosis | |
| 53 | 53 | 01.01.24 | Double outlet right ventricle with intact ventricular septum | 1351035695 | LA85.2Y | 01.01.04 | 5 | Double outlet right ventricle with intact ventricular septum | |
| 54 | 54 | 01.05.03 | Double outlet left ventricle | 2094997989 | LA85.3 | 01.03.09 | 6 | Double outlet left ventricle | |
| 55 | 55 | 09.01.01 | Common arterial trunk | 1832500366 | LA85.4 | 01.03.09 | 7 | Common arterial trunk (Truncus arteriosus) | Truncus arteriosus |
| 56 | 56 | 09.01.15 | Common arterial trunk with aortic dominance | 551770382 | LA85.40 | 09.01.01 | 1 | Common arterial trunk (truncus arteriosus) with aortic dominance (no aortic arch obstruction) | Truncus arteriosus with aortic dominance (no aortic arch obstruction) |

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|----|----|----------|---|------------|---------|----------|---|---|---|
| 57 | 57 | 09.01.14 | Common arterial trunk with aortic dominance and both pulmonary arteries arising from trunk | 214930658 | LA85.40 | 09.01.15 | 1 | Common arterial trunk (truncus arteriosus) with aortic dominance and both pulmonary arteries arising from trunk | Truncus arteriosus with aortic dominance and both pulmonary arteries arising from trunk |
| 58 | 58 | 09.01.11 | Common arterial trunk with aortic dominance and one pulmonary artery absent from the trunk, isolated pulmonary artery | 524203135 | LA85.40 | 09.01.15 | 2 | Common arterial trunk (truncus arteriosus) with aortic dominance and one pulmonary artery absent from trunk (isolated pulmonary artery) | Truncus arteriosus with aortic dominance and one pulmonary artery absent from the trunk (isolated pulmonary artery) |
| 59 | 59 | 09.01.12 | Common arterial trunk with pulmonary dominance and aortic arch obstruction | 659759166 | LA85.4Y | 09.01.01 | 2 | Common arterial trunk (truncus arteriosus) with pulmonary dominance and aortic arch obstruction | Truncus arteriosus with pulmonary dominance and aortic arch obstruction |
| 60 | 60 | 09.01.18 | Common arterial trunk with pulmonary dominance and interrupted aortic arch | 97579611 | LA85.41 | 09.01.12 | 1 | Common arterial trunk (truncus arteriosus) with pulmonary dominance and interrupted aortic arch | Truncus arteriosus with pulmonary dominance and interrupted aortic arch |
| 61 | 61 | 09.01.19 | Common arterial trunk with pulmonary dominance and aortic coarctation | 843305765 | LA85.4Y | 09.01.12 | 2 | Common arterial trunk (truncus arteriosus) with pulmonary dominance and aortic coarctation | Truncus arteriosus with pulmonary dominance and aortic coarctation |
| 62 | A* | 09.02.10 | Atypical truncal valve | 1983503623 | LA85.4Y | 09.01.01 | 3 | | |
| 63 | 62 | 09.02.19 | Congenital truncal valvar regurgitation | 1421479778 | LA85.4Y | 09.02.10 | 1 | Congenital truncal valvar regurgitation | |
| 64 | 63 | 09.02.18 | Congenital truncal valvar stenosis | 2079188083 | LA85.4Y | 09.02.10 | 2 | Congenital truncal valvar stenosis | |
| 65 | 64 | 09.02.01 | Dysplasia of truncal valve | 1690328350 | LA85.4Y | 09.02.10 | 3 | Dysplasia of truncal valve | |
| 66 | 65 | 04.00.07 | Congenital anomaly of mediastinal vein | 1569064706 | LA86 | 01.01.59 | 3 | Congenital anomaly of mediastinal vein | |
| 67 | 66 | 04.00.08 | Congenital anomaly of mediastinal systemic vein | 1524626968 | LA86.Y | 04.00.07 | 1 | Congenital anomaly of mediastinal systemic vein | |

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| 68 | 67 | 04.01.09 | Congenital anomaly of superior caval vein | 1459500132 | LA86.Y | 04.00.08 | 1 | Congenital anomaly of superior caval vein (superior vena cava) | Congenital anomaly of superior vena cava |
| 69 | 68 | 04.01.05 | Absent right superior caval vein | 1665636689 | LA86.Y | 04.01.09 | 1 | Absent right superior caval vein (superior vena cava) | Absent right superior vena cava |
| 70 | 69 | 04.01.25 | Left superior caval vein | 804505819 | LA86.0 | 04.01.09 | 2 | Left superior caval vein (superior vena cava) | Left superior vena cava |
| 71 | 70 | 04.01.01 | Left superior caval vein to coronary sinus | 523545228 | LA86.0 | 04.01.25 | 1 | Left superior caval vein (superior vena cava) to coronary sinus | Left superior vena cava to coronary sinus |
| 72 | 71 | 04.01.02 | Left superior caval vein to left-sided atrium | 320170224 | LA86.0 | 04.01.25 | 2 | Left superior caval vein (superior vena cava) to left-sided atrium | Left superior vena cava to left-sided atrium |
| 73 | B+ | 04.01.07 | Congenital stenosis of superior caval vein | 1640580264 | LA86.Y | 04.01.09 | 3 | | |
| 74 | 72 | 04.03.08 | Congenital anomaly of inferior caval vein | 1266881625 | LA86.Y | 04.00.08 | 2 | Congenital anomaly of inferior caval vein (inferior vena cava) | Congenital anomaly of inferior vena cava |
| 75 | 73 | 04.03.10 | Interrupted inferior caval vein with absent suprarenal segment and azygos continuation | 1193646260 | LA86.Y | 04.03.08 | 1 | Interrupted inferior caval vein (inferior vena cava) with absent suprarenal segment and azygos continuation | Interrupted inferior vena cava with absent suprarenal segment and azygos continuation |
| 76 | C+ | 04.03.06 | Congenital stenosis of inferior caval vein | 100656181 | LA86.Y | 04.03.08 | 2 | | |
| 77 | 74 | 04.04.05 | Congenital anomaly of the coronary sinus | 1737150764 | LA86.Y | 04.00.08 | 3 | Congenital anomaly of coronary sinus | |
| 78 | 75 | 04.04.13 | Unroofed coronary sinus | 800577917 | LA86.1 | 04.04.05 | 1 | Unroofed coronary sinus | |
| 79 | D+ | 04.04.02 | Completely unroofed coronary sinus | 1900154411 | LA86.1 | 04.04.13 | 1 | | |
| 80 | E+ | 04.04.01 | Partially unroofed coronary sinus | 455093006 | LA86.1 | 04.04.13 | 2 | | |
| 81 | 76 | 04.04.14 | Coronary sinus orifice atresia or stenosis | 1460525276 | LA86.Y | 04.04.05 | 2 | Coronary sinus orifice atresia or stenosis | |
| 82 | 77*** | 04.02.13 | Anomalous hepatic venous connection to heart | 170873794 | LB20.OY | 04.00.08 | 4 | Anomalous hepatic venous connection to heart | |
| 83 | 78 | 04.08.04 | Congenital anomaly of pulmonary vein | 969599265 | LA86.Y | 04.00.07 | 2 | Congenital anomaly of pulmonary vein | |

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| 84 | 79 | 04.08.07 | Anomalous pulmonary venous connection | 1308345892 | LA86.2 | 04.08.04 | 1 | Anomalous pulmonary venous connection | |
| 85 | 80 | 04.08.05 | Total anomalous pulmonary venous connection | 1532925990 | LA86.20 | 04.08.07 | 1 | Total anomalous pulmonary venous connection | |
| 86 | 81 | 04.06.00 | Total anomalous pulmonary venous connection of the supracardiac type | 1914403600 | LA86.20 | 04.08.05 | 1 | Total anomalous pulmonary venous connection of supracardiac type | |
| 87 | 82 | 04.08.10 | Total anomalous pulmonary venous connection of the cardiac type | 2117777772 | LA86.20 | 04.08.05 | 2 | Total anomalous pulmonary venous connection of cardiac type | |
| 88 | 83 | 04.08.20 | Total anomalous pulmonary venous connection of the infracardiac type | 1784217576 | LA86.20 | 04.08.05 | 3 | Total anomalous pulmonary venous connection of infracardiac type | |
| 89 | 84 | 04.08.30 | Total anomalous pulmonary venous connection of the mixed type | 1719221652 | LA86.20 | 04.08.05 | 4 | Total anomalous pulmonary venous connection of mixed type | |
| 90 | 85 | 04.07.01 | Partial anomalous pulmonary venous connection | 1041585584 | LA86.21 | 04.08.07 | 2 | Partial anomalous pulmonary venous connection | |
| 91 | 86 | 01.01.16 | Partial anomalous pulmonary venous connection of Scimitar type | 211220931 | LA86.2Y | 04.08.07 | 3 | Partial anomalous pulmonary venous connection of Scimitar type | |
| 92 | 87 | 03.02.23 | Scimitar syndrome | 1321054364 | LA86.22 | 01.01.16 | 1 | Scimitar syndrome | |
| 93 | 88 | 04.08.06 | Obstructed anomalous pulmonary venous pathway or connection | 1577171884 | LA86.2Y | 04.08.07 | 4 | Obstructed anomalous pulmonary venous pathway or connection | |
| 94 | 89 | 04.08.31 | Congenital pulmonary venous stenosis or hypoplasia | 469101490 | LA86.3 | 04.08.04 | 2 | Congenital pulmonary venous stenosis and/or hypoplasia | |
| 95 | 90 | 04.08.02 | Congenital atresia of pulmonary vein | 1937562872 | LA86.Y | 04.08.04 | 3 | Congenital atresia of pulmonary vein | |
| 96 | 91 | 05.00.02 | Congenital anomaly of an atrium or atrial septum | 92905340 | LA8Y | 01.01.59 | 4 | Congenital anomaly of an atrium and/or atrial septum | |
| 97 | 92 | 05.07.01 | Congenital anomaly of atrial septum | 654986527 | LA8E | 05.00.02 | 1 | Congenital anomaly of atrial septum | |

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| 98 | 93 | 05.06.04 | Restrictive interatrial communication or intact atrial septum when an interatrial shunt is physiologically necessary | 499082002 | LA8E.Y | 05.07.01 | 1 | Restrictive interatrial communication or intact atrial septum when an interatrial shunt is physiologically necessary | |
| 99 | 94 | 05.03.03 | Aneurysm of atrial septum | 100700036 | LA8E.Y | 05.07.01 | 2 | Aneurysm of atrial septum | |
| 100 | 95 | 05.04.01 | Interatrial communication | 1285985084 | LA8E.Y | 05.07.01 | 3 | Interatrial communication ('atrial septal defect') | 'Atrial septal defect' |
| 101 | 96** | 05.03.01 | Patent oval foramen | 1618980674 | LA8E.0 | 05.04.01 | 1 | Patent oval foramen (patent foramen ovale) | Patent foramen ovale |
| 102 | 97 | 05.04.02 | Atrial septal defect within oval fossa | 1875768490 | LA8E.1 | 05.04.01 | 2 | Atrial septal defect within oval fossa (secundum atrial septal defect) | Secundum atrial septal defect |
| 103 | 98 | 05.05.00 | Sinus venosus defect | 1930019148 | LA8E.2 | 05.04.01 | 3 | Sinus venosus defect | |
| 104 | 99 | 05.06.02 | Common atrium with separate atrioventricular junctions | 1022267780 | LA8E.Y | 05.04.01 | 4 | Common atrium with separate atrioventricular junctions | |
| 105 | 100 | 05.05.03 | Interatrial communication through coronary sinus orifice | 664625334 | LA8E.3 | 05.04.01 | 5 | Interatrial communication through coronary sinus orifice | |
| 106 | 101 | 05.01.13 | Congenital anomaly of right atrium | 1523246177 | LA8F | 05.00.02 | 2 | Congenital anomaly of right atrium | |
| 107 | 102 | 05.01.21 | Divided right atrium | 294192583 | LA8F | 05.01.13 | 1 | Divided right atrium (cor triatriatum dexter) | Cor triatriatum dexter |
| 108 | F* | 05.01.04 | Chiari network | 898914868 | LA8F | 05.01.13 | 2 | | |
| 109 | 103 | 05.01.06 | Left-sided juxtaposition of the atrial appendages | 1461640469 | LA8F | 05.01.13 | 3 | Left-sided juxtaposition of atrial appendages | |
| 110 | 104 | 05.01.12 | Congenital giant right atrium | 2067836926 | LA8F | 05.01.13 | 4 | Congenital giant right atrium | |
| 111 | 105 | 05.02.11 | Congenital anomaly of left atrium | 1757622374 | LA8G | 05.00.02 | 3 | Congenital anomaly of left atrium | |
| 112 | 106 | 05.02.01 | Divided left atrium | 90967508 | LA8G.0 | 05.02.11 | 1 | Divided left atrium (cor triatriatum sinister) | Cor triatriatum sinister |

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| 113 | 107 | 05.02.04 | Right-sided juxtaposition of the atrial appendages | 1619917931 | LA8G.Y | 05.02.11 | 2 | Right-sided juxtaposition of atrial appendages | |
| 114 | 108 | 06.00.15 | Congenital anomaly of an atrioventricular valve or atrioventricular septum | 1055878726 | LA87 | 01.01.59 | 5 | Congenital anomaly of an atrioventricular valve and/or atrioventricular septum | |
| 115 | 109 | 06.01.11 | Congenital anomaly of tricuspid valve | 995525654 | LA87.0 | 06.00.15 | 1 | Congenital anomaly of tricuspid valve | |
| 116 | 110 | 06.01.25 | Congenital tricuspid regurgitation | 1523583011 | LA87.00 | 06.01.11 | 1 | Congenital tricuspid regurgitation | |
| 117 | 111 | 06.01.07 | Congenital tricuspid valvar stenosis | 1996822362 | LA87.01 | 06.01.11 | 2 | Congenital tricuspid valvar stenosis | |
| 118 | 112 | 06.01.04 | Tricuspid annular hypoplasia | 281173100 | LA87.0Y | 06.01.11 | 3 | Tricuspid annular hypoplasia | |
| 119 | 113 | 06.01.03 | Dysplasia of tricuspid valve | 1468235714 | LA87.02 | 06.01.11 | 4 | Dysplasia of tricuspid valve | |
| 120 | 114 | 06.01.09 | Straddling tricuspid valve | 908739636 | LA87.0Y | 06.01.11 | 5 | Straddling tricuspid valve | |
| 121 | 115 | 06.01.05 | Overriding tricuspid valve | 1584596137 | LA87.0Y | 06.01.11 | 6 | Overriding tricuspid valve | |
| 122 | 116 | 06.01.34 | Ebstein malformation of tricuspid valve | 307157712 | LA87.03 | 06.01.11 | 7 | Ebstein malformation of tricuspid valve | |
| 123 | G ⁺ | 06.01.32 | Absent tricuspid valve leaflet | 603292687 | LA87.0Y | 06.01.11 | 8 | | |
| 124 | H ⁺ | 06.01.36 | True cleft of tricuspid valve leaflet | 1733245532 | LA87.0Y | 06.01.11 | 9 | | |
| 125 | 117 | 06.02.11 | Congenital anomaly of mitral valve | 928274753 | LA87.1 | 06.00.15 | 2 | Congenital anomaly of mitral valve | |
| 126 | 118 | 06.02.25 | Congenital mitral regurgitation | 403917903 | LA87.10 | 06.02.11 | 1 | Congenital mitral regurgitation | |
| 127 | 119 | 06.02.07 | Congenital mitral valvar stenosis | 2102952411 | LA87.11 | 06.02.11 | 2 | Congenital mitral valvar stenosis | |
| 128 | 120 | 06.02.04 | Mitral annular hypoplasia | 843702959 | LA87.1Y | 06.02.11 | 3 | Mitral annular hypoplasia | |
| 129 | 121 | 06.02.09 | Straddling mitral valve | 930563690 | LA87.1Y | 06.02.11 | 4 | Straddling mitral valve | |
| 130 | 122 | 06.02.05 | Overriding mitral valve | 462079876 | LA87.1Y | 06.02.11 | 5 | Overriding mitral valve | |
| 131 | 123 | 06.02.03 | Dysplasia of mitral valve | 1958615745 | LA87.12 | 06.02.11 | 6 | Dysplasia of mitral valve | |
| 132 | 124 | 05.02.02 | Supravalvar or intravalvar mitral ring | 1868985430 | LA87.1Y | 06.02.11 | 7 | Supravalvar or intravalvar mitral ring | |
| 133 | I ⁺ | 06.02.23 | Congenital intravalvar mitral ring | 594666245 | LA87.1Y | 05.02.02 | 1 | | |

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| 134 | J+ | 06.02.17 | Congenital supravalvar mitral ring | 308712619 | LA87.1Y | 05.02.02 | 2 | | |
| 135 | 125 | 06.02.72 | Congenital mitral valvar prolapse | 840405955 | LA87.1Y | 06.02.11 | 8 | Congenital mitral valvar prolapse | |
| 136 | 126 | 06.02.36 | True cleft of anterior mitral leaflet | 250037637 | LA87.1Y | 06.02.11 | 9 | True cleft of anterior mitral leaflet (without common atrioventricular junction) | True cleft of anterior mitral leaflet (without common atrioventricular junction) |
| 137 | 127 | 06.02.21 | Congenital anomaly of mitral subvalvar apparatus | 498751490 | LA87.13 | 06.02.11 | 10 | Congenital anomaly of mitral subvalvar apparatus | |
| 138 | 128 | 06.02.22 | Congenital mitral subvalvar stenosis | 659651858 | LA87.13 | 06.02.21 | 1 | Congenital mitral subvalvar stenosis | |
| 139 | 129 | 06.02.56 | Parachute malformation of mitral valve | 375324402 | LA87.13 | 06.02.21 | 2 | Parachute malformation of mitral valve | |
| 140 | K+ | 06.02.39 | Accessory tissue on mitral valve leaflet | 248264200 | LA87.1Y | 06.02.11 | 11 | | |
| 141 | L+ | 06.02.32 | Congenital unguarded mitral orifice | 1824064279 | LA87.1Y | 06.02.11 | 12 | | |
| 142 | M+ | 06.02.33 | Double orifice of mitral valve | 1045118968 | LA87.1Y | 06.02.11 | 13 | | |
| 143 | 130 | 06.04.11 | Congenital anomaly of left-sided atrioventricular valve in double inlet ventricle | 602975543 | LA87.Y | 06.00.15 | 5 | Congenital anomaly of left-sided atrioventricular valve in double inlet ventricle | |
| 144 | 131 | 06.03.11 | Congenital anomaly of right-sided atrioventricular valve in double inlet ventricle | 122794405 | LA87.Y | 06.00.15 | 4 | Congenital anomaly of right-sided atrioventricular valve in double inlet ventricle | |
| 145 | 132 | 06.06.11 | Common atrioventricular junction | 1729725342 | LA87.Y | 06.00.15 | 3 | Common atrioventricular junction (common atrioventricular canal) | Common atrioventricular canal |

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| 146 | 133 | 06.06.00 | Common atrioventricular junction with atrioventricular septal defect | 1613228388 | LA87.2 | 06.06.11 | 1 | Atrioventricular septal defect (atrioventricular canal defect) | Atrioventricular canal defect |
| 147 | 134 | 06.07.27 | Atrioventricular septal defect with balanced ventricles | 831762174 | LA87.2Y | 06.06.00 | 1 | Atrioventricular septal defect with balanced ventricles | |
| 148 | 135 | 06.07.26 | Atrioventricular septal defect with ventricular imbalance | 560731030 | LA87.25 | 06.06.00 | 2 | Atrioventricular septal defect with ventricular imbalance | |
| 149 | 136 | 06.07.05 | Atrioventricular septal defect with ventricular imbalance with dominant right ventricle and hypoplastic left ventricle | 66044403 | LA87.25 | 06.07.26 | 1 | Atrioventricular septal defect with ventricular imbalance: dominant right ventricle, hypoplastic left ventricle | |
| 150 | 137 | 06.07.06 | Atrioventricular septal defect with ventricular imbalance with dominant left ventricle and hypoplastic right ventricle | 880599181 | LA87.25 | 06.07.26 | 2 | Atrioventricular septal defect with ventricular imbalance: dominant left ventricle, hypoplastic right ventricle | |
| 151 | 138 | 06.06.01 | Atrioventricular septal defect with communication at the atrial level only | 1159570489 | LA87.21 | 06.06.00 | 3 | Atrioventricular septal defect with communication at the atrial level only (primum atrial septal defect) (partial atrioventricular canal defect) | Primum atrial septal defect (Partial atrioventricular canal defect) |
| 152 | 139 | 06.06.08 | Atrioventricular septal defect with communication at the ventricular level only | 793233560 | LA87.22 | 06.06.00 | 4 | Atrioventricular septal defect with communication at the ventricular level only (atrioventricular canal defect with isolated ventricular communication) | Atrioventricular canal defect with isolated ventricular communication |

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| 153 | 140 | 06.06.10 | Atrioventricular septal defect with communication at atrial level and restrictive communication at ventricular level | 687321516 | LA87.23 | 06.06.00 | 5 | Atrioventricular septal defect (atrioventricular canal defect) with communication at atrial level and restrictive communication at ventricular level (intermediate atrioventricular septal defect) (transitional atrioventricular septal defect) | Intermediate atrioventricular septal defect (Transitional atrioventricular septal defect) |
| 154 | 141 | 06.06.09 | Atrioventricular septal defect with communication at atrial level and unrestrictive communication at ventricular level | 551617570 | LA87.24 | 06.06.00 | 6 | Atrioventricular septal defect (atrioventricular canal defect) with communication at atrial level and unrestrictive communication at ventricular level (Complete atrioventricular septal defect) (Complete atrioventricular canal defect) | Complete atrioventricular septal defect (Complete atrioventricular canal defect) |
| 155 | 142 | 01.01.20 | Atrioventricular septal defect and tetralogy of Fallot | 915281294 | LA87.2Y | 06.06.00 | 7 | Atrioventricular septal defect and tetralogy of Fallot (atrioventricular canal and tetralogy of Fallot) | Atrioventricular canal and tetralogy of Fallot |
| 156 | 143 | 05.06.03 | Common atrium with common atrioventricular junction | 240010127 | LA87.2Y | 06.06.00 | 8 | Common atrium with common atrioventricular junction | |
| 157 | 144 | 06.05.60 | Common atrioventricular valvar regurgitation | 908318670 | LA87.2Y | 06.06.00 | 9 | Common atrioventricular valvar regurgitation | |
| 158 | 145 | 06.05.14 | Atypical common atrioventricular valve | 346031531 | LA87.2Y | 06.06.00 | 10 | Atypical common atrioventricular valve | |
| 159 | 146 | 06.07.36 | Common atrioventricular valve with unbalanced commitment of valve to ventricles | 590554325 | LA87.2Y | 06.05.14 | 1 | Common atrioventricular valve with unbalanced commitment of valve to ventricles | |

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| 160 | 147 | 06.07.37 | Common atrioventricular valve with unbalanced commitment of valve to right ventricle | 176495682 | LA87.2Y | 06.07.36 | 1 | Common atrioventricular valve with unbalanced commitment of valve to right ventricle | |
| 161 | 148 | 06.07.38 | Common atrioventricular valve with unbalanced commitment of valve to left ventricle | 948750405 | LA87.2Y | 06.07.36 | 2 | Common atrioventricular valve with unbalanced commitment of valve to left ventricle | |
| 162 | 149 | 06.05.71 | Atypical right ventricular component of common atrioventricular valve | 122758456 | LA87.2Y | 06.05.14 | 2 | Atypical right ventricular component of common atrioventricular valve | |
| 163 | 150 | 06.05.72 | Atypical left ventricular component of common atrioventricular valve | 818021450 | LA87.2Y | 06.05.14 | 3 | Atypical left ventricular component of common atrioventricular valve | |
| 164 | 151 | 06.05.25 | Double orifice of left ventricular component of common atrioventricular valve | 1297798321 | LA87.2Y | 06.05.72 | 1 | Double orifice of left ventricular component of common atrioventricular valve | |
| 165 | 152 | 06.05.98 | Deficient mural leaflet of left ventricular component of common atrioventricular valve | 2136146102 | LA87.2Y | 06.05.72 | 2 | Deficient mural (lateral) leaflet of left ventricular component of common atrioventricular valve | Deficient lateral leaflet of left ventricular component of common atrioventricular valve |
| 166 | 153 | 06.07.28 | Common atrioventricular junction without an atrioventricular septal defect | 1457862689 | LA87.3 | 06.06.11 | 2 | Common atrioventricular junction with spontaneous fibrous closure of atrioventricular septal defect | |
| 167 | 154 | 07.14.02 | Communication between left ventricle and right atrium | 1370033158 | LA87.Y | 06.00.15 | 6 | Communication between left ventricle and right atrium (Gerbode defect) | Gerbode defect |
| 168 | 155 | 07.00.00 | Congenital anomaly of a ventricle or the ventricular septum | 508003685 | LA88 | 01.01.59 | 6 | Congenital anomaly of a ventricle and/or the ventricular septum | |
| 169 | 156 | 07.01.07 | Congenital right ventricular anomaly | 1019500288 | LA88.Y | 07.00.00 | 1 | Congenital right ventricular anomaly | |

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| 170 | 157 | 07.02.00 | Right ventricular hypoplasia | 2088837187 | LA88.Y | 07.01.07 | 1 | Right ventricular hypoplasia | |
| 171 | 158 | 07.05.20 | Congenital right ventricular outflow tract obstruction | 1259471165 | LA88.0 | 07.01.07 | 2 | Congenital right ventricular outflow tract obstruction | |
| 172 | 159 | 07.03.01 | Double chambered right ventricle | 997469748 | LA88.1 | 07.01.07 | 3 | Double chambered right ventricle | |
| 173 | 160 | 07.01.13 | Right ventricular myocardial sinusoids | 1293423457 | LA88.Y | 07.01.07 | 4 | Right ventricular myocardial sinusoids | |
| 174 | 161 | 07.01.06 | Parchment right ventricle | 240652322 | LA88.Y | 07.01.07 | 5 | Parchment right ventricle (including Uhl anomaly) | Parchment right ventricle (including Uhl anomaly) |
| 175 | 162 | 01.01.01 | Tetralogy of Fallot | 90973426 | LA88.2 | 07.01.07 | 6 | Tetralogy of Fallot | |
| 176 | 163 | 09.05.25 | Tetralogy of Fallot with absent pulmonary valve syndrome | 1640350515 | LA88.20 | 01.01.01 | 1 | Tetralogy of Fallot with absent pulmonary valve syndrome | |
| 177 | 164 | 01.01.26 | Tetralogy of Fallot with pulmonary atresia | 1645917296 | LA88.21 | 01.01.01 | 2 | Tetralogy of Fallot with pulmonary atresia | |
| 178 | 165 | 01.01.57 | Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral arteries | 1408174111 | LA88.22 | 01.01.01 | 3 | Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral artery(ies) | Tetralogy of Fallot with pulmonary atresia and systemic-to-pulmonary collateral artery(ies) |
| 179 | 166 | 07.06.07 | Congenital left ventricular anomaly | 328449041 | L88.Y | 07.00.00 | 2 | Congenital left ventricular anomaly | |
| 180 | 167 | 07.07.00 | Left ventricular hypoplasia | 1353575853 | L88.Y | 07.06.07 | 1 | Left ventricular hypoplasia | |
| 181 | 168 | 07.06.19 | Congenital left ventricular aneurysm or diverticulum | 208890733 | L88.Y | 07.06.07 | 2 | Congenital left ventricular aneurysm or diverticulum | |
| 182 | N* | 07.06.01 | Congenital left ventricular aneurysm | 416161260 | L88.Y | 07.06.19 | 1 | | |
| 183 | O* | 07.06.03 | Congenital left ventricular diverticulum | 378873520 | L88.Y | 07.06.19 | 2 | | |
| 184 | 169 | 07.09.28 | Congenital left ventricular outflow tract obstruction | 567908339 | LA88.3 | 07.06.07 | 3 | Congenital left ventricular outflow tract obstruction | |
| 185 | 170 | 07.09.08 | Congenital left ventricular outflow tract obstruction due to atrioventricular valve | 1869611230 | LA88.3 | 07.09.28 | 1 | Left ventricular outflow tract obstruction due to atrioventricular valve | |

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| 186 | 171 | 01.01.33 | Left heart obstruction at multiple sites | 295410302 | LA88.Y | 07.06.07 | 4 | Left heart obstruction at multiple sites (including Shone syndrome) | Left heart obstruction at multiple sites (including Shone syndrome) |
| 187 | 172 | 07.06.12 | Left ventricular myocardial sinusoids | 1635129695 | LA88.Y | 07.06.07 | 5 | Left ventricular myocardial sinusoids | |
| 188 | P* | 07.00.07 | Anomalous ventricular bands | 1260829039 | LA88.Y | 07.00.00 | 4 | | |
| 189 | 173 | 07.20.04 | Congenital anomaly of ventricular septum | 1908503567 | LA88.Y | 07.00.00 | 3 | Congenital anomaly of ventricular septum | |
| 190 | 174 | 07.14.07 | Restrictive interventricular communication when an interventricular shunt is physiologically necessary | 1822564395 | LA88.Y | 07.20.04 | 1 | Restrictive interventricular communication when an interventricular shunt is physiologically necessary | |
| 191 | 175 | 07.10.00 | Ventricular septal defect | 668140715 | LA88.4 | 07.20.04 | 2 | Ventricular septal defect | |
| 192 | 176 | 07.10.01 | Perimembranous central ventricular septal defect | 2023258628 | LA88.41 | 07.10.00 | 1 | Perimembranous central ventricular septal defect | |
| 193 | 177 | 07.14.05 | Inlet ventricular septal defect without a common atrioventricular junction | 1491280288 | LA88.4Y | 07.10.00 | 2 | Inlet ventricular septal defect without a common atrioventricular junction | |
| 194 | 178 | 07.10.02 | Inlet perimembranous ventricular septal defect without atrioventricular septal malalignment without a common atrioventricular junction | 502334750 | LA88.4Y | 07.14.05 | 1 | Inlet perimembranous ventricular septal defect without atrioventricular septal malalignment without a common atrioventricular junction | |

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| 195 | 179 | 07.14.06 | Inlet perimembranous ventricular septal defect with atrioventricular septal malalignment and without a common atrioventricular junction | 801142160 | LA88.4Y | 07.14.05 | 2 | Inlet perimembranous ventricular septal defect with atrioventricular septal malalignment and without a common atrioventricular junction | |
| 196 | 180 | 07.11.02 | Inlet muscular ventricular septal defect | 1145418250 | LA88.4Y | 07.14.05 | 3 | Inlet muscular ventricular septal defect | |
| 197 | 181 | 07.11.01 | Trabecular muscular ventricular septal defect | 65805952 | LA88.40 | 07.10.00 | 3 | Trabecular muscular ventricular septal defect | |
| 198 | 182 | 07.11.04 | Trabecular muscular ventricular septal defect midseptal | 1131685234 | LA88.40 | 07.11.01 | 1 | Trabecular muscular ventricular septal defect: midseptal | |
| 199 | 183 | 07.11.03 | Trabecular muscular ventricular septal defect apical | 1256893827 | LA88.40 | 07.11.01 | 2 | Trabecular muscular ventricular septal defect: apical | |
| 200 | 184 | 07.11.12 | Trabecular muscular ventricular septal defect postero-inferior | 601485273 | LA88.40 | 07.11.01 | 3 | Trabecular muscular ventricular septal defect: postero-inferior | |
| 201 | 185 | 07.11.07 | Trabecular muscular ventricular septal defect anterosuperior | 1220890087 | LA88.40 | 07.11.01 | 4 | Trabecular muscular ventricular septal defect: anterosuperior | |
| 202 | 186 | 07.11.05 | Multiple trabecular muscular ventricular septal defects | 2105117949 | LA88.40 | 07.11.01 | 5 | Trabecular muscular ventricular septal defect: multiple ("Swiss cheese" septum) | "Swiss cheese" septum |
| 203 | 187 | 07.12.00 | Outlet ventricular septal defect | 1879356291 | LA88.4Y | 07.10.00 | 4 | Outlet ventricular septal defect | |
| 204 | 188 | 07.12.09 | Outlet ventricular septal defect without malalignment | 7379274 | LA88.4Y | 07.12.00 | 1 | Outlet ventricular septal defect without malalignment | |
| 205 | 189 | 07.11.06 | Outlet muscular ventricular septal defect without malalignment | 222010536 | LA88.4Y | 07.12.09 | 1 | Outlet muscular ventricular septal defect without malalignment | |

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| 206 | 190 | 07.12.01 | Doubly committed juxta-arterial ventricular septal defect without malalignment | 1767950841 | LA88.4Y | 07.12.09 | 2 | Doubly committed juxta-arterial ventricular septal defect without malalignment | |
| 207 | 191 | 07.12.02 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with muscular postero-inferior rim | 1281801530 | LA88.4Y | 07.12.01 | 1 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with muscular postero-inferior rim | |
| 208 | 192 | 07.12.03 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with perimembranous extension | 1519452698 | LA88.4Y | 07.12.01 | 2 | Doubly committed juxta-arterial ventricular septal defect without malalignment and with perimembranous extension | |
| 209 | 193 | 07.10.17 | Outlet ventricular septal defect with anteriorly malaligned outlet septum | 1377580315 | LA88.4Y | 07.12.00 | 2 | Outlet ventricular septal defect with anteriorly malaligned outlet septum | |
| 210 | 194 | 07.11.15 | Outlet muscular ventricular septal defect with anteriorly malaligned outlet septum | 391701468 | LA88.4Y | 07.10.17 | 1 | Outlet muscular ventricular septal defect with anteriorly malaligned outlet septum | |
| 211 | 195 | 07.10.04 | Outlet perimembranous ventricular septal defect with anteriorly malaligned outlet septum | 1560415737 | LA88.4Y | 07.10.17 | 2 | Outlet perimembranous ventricular septal defect with anteriorly malaligned outlet septum | |
| 212 | 196 | 07.12.12 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum | 1226705023 | LA88.4Y | 07.10.17 | 3 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum | |

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| 213 | 197 | 07.12.07 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | 1193651839 | LA88.4Y | 07.12.12 | 1 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | |
| 214 | 198 | 07.12.05 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and perimembranous extension | 1496410457 | LA88.4Y | 07.12.12 | 2 | Doubly committed juxta-arterial ventricular septal defect with anteriorly malaligned fibrous outlet septum and perimembranous extension | |
| 215 | 199 | 07.10.18 | Outlet ventricular septal defect with posteriorly malaligned outlet septum | 1478451433 | LA88.4Y | 07.12.00 | 3 | Outlet ventricular septal defect with posteriorly malaligned outlet septum | |
| 216 | 200 | 07.11.16 | Outlet muscular ventricular septal defect with posteriorly malaligned outlet septum | 903557561 | LA88.4Y | 07.10.18 | 1 | Outlet muscular ventricular septal defect with posteriorly malaligned outlet septum | |
| 217 | 201 | 07.10.19 | Outlet perimembranous ventricular septal defect with posteriorly malaligned outlet septum | 399222458 | LA88.4Y | 07.10.18 | 2 | Outlet perimembranous ventricular septal defect with posteriorly malaligned outlet septum | |
| 218 | 202 | 07.12.13 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum | 1654184537 | LA88.4Y | 07.10.18 | 3 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum | |

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| 219 | 203 | 07.12.08 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | 802528118 | LA88.4Y | 07.12.13 | 1 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and muscular postero-inferior rim | |
| 220 | 204 | 07.12.06 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and perimembranous extension | 1207056363 | LA88.4Y | 07.12.13 | 2 | Doubly committed juxta-arterial ventricular septal defect with posteriorly malaligned fibrous outlet septum and perimembranous extension | |
| 221 | 205 | 07.15.01 | Ventricular septal defect haemodynamically insignificant | 924554858 | LA88.42 | 07.10.00 | 5 | Ventricular septal defect: Hemodynamically insignificant | |
| 222 | 206 | 07.15.04 | Multiple ventricular septal defects | 1569246842 | LA88.4Y | 07.10.00 | 6 | Multiple ventricular septal defects | |
| 223 | 207 | 01.01.22 | Functionally univentricular heart | 5417233 | LA89 | 01.01.59 | 7 | Functionally univentricular heart | |
| 224 | 208 | 01.01.14 | Double inlet atrioventricular connection | 1786413029 | LA89.0 | 01.01.22 | 1 | Double inlet atrioventricular connection (double inlet ventricle) | Double inlet ventricle |
| 225 | 209 | 01.04.04 | Double inlet left ventricle | 568907539 | LA89.0 | 01.01.14 | 1 | Double inlet left ventricle | |
| 226 | 210 | 01.04.03 | Double inlet right ventricle | 333513492 | LA89.0 | 01.01.14 | 2 | Double inlet right ventricle | |
| 227 | 211 | 01.04.05 | Double inlet to solitary ventricle of indeterminate morphology | 1239626873 | LA89.0 | 01.01.14 | 3 | Double inlet to solitary ventricle of indeterminate morphology | |
| 228 | 212 | 06.01.01 | Tricuspid atresia | 845891723 | LA89.1 | 01.01.22 | 2 | Tricuspid atresia | |
| 229 | 213 | 06.01.26 | Tricuspid atresia with absent atrioventricular connection | 60494995 | LA89.1 | 06.01.01 | 1 | Tricuspid atresia with absent valvar annulus (connection/junction) | Tricuspid atresia with absent valvar annulus (connection/junction) |
| 230 | 214 | 06.01.02 | Tricuspid atresia with imperforate tricuspid valve | 1011284448 | LA89.1 | 06.01.01 | 2 | Tricuspid atresia with imperforate tricuspid valve | |
| 231 | 215 | 06.02.01 | Mitral atresia | 6462604 | LA89.2 | 01.01.22 | 3 | Mitral atresia | |

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| 232 | 216 | 06.02.26 | Mitral atresia with absent atrioventricular connection | 198563998 | LA89.2 | 06.02.01 | 1 | Mitral atresia with absent valvar annulus (connection/junction) | Mitral atresia with absent valvar annulus (connection/junction) |
| 233 | 217 | 06.02.02 | Mitral atresia with imperforate mitral valve | 590498493 | LA89.2 | 06.02.01 | 2 | Mitral atresia with imperforate mitral valve | |
| 234 | 218 | 01.01.09 | Hypoplastic left heart syndrome | 1811800027 | LA89.3 | 01.01.22 | 4 | Hypoplastic left heart syndrome | |
| 235 | 219 | 09.04.29 | Congenital anomaly of a ventriculo-arterial valve or adjacent regions | 1691908317 | LA8A | 01.01.59 | 8 | Congenital anomaly of a ventriculo-arterial valve and/or adjacent regions | |
| 236 | 220 | 09.05.29 | Congenital anomaly of pulmonary valve | 1754792043 | LA8A.0 | 09.04.29 | 1 | Congenital anomaly of pulmonary valve | |
| 237 | 221 | 09.05.04 | Congenital pulmonary valvar stenosis | 353180069 | LA8A.00 | 09.05.29 | 1 | Congenital pulmonary valvar stenosis | |
| 238 | 222 | 09.05.05 | Pulmonary annular hypoplasia | 663601170 | LA8A.0Y | 09.05.29 | 2 | Pulmonary 'annular' hypoplasia | Pulmonary 'annular' hypoplasia |
| 239 | 223 | 09.05.22 | Congenital pulmonary regurgitation | 1637894492 | LA8A.01 | 09.05.29 | 3 | Congenital pulmonary regurgitation | |
| 240 | 224 | 09.05.24 | Dysplasia of pulmonary valve | 706270871 | LA8A.0Y | 09.05.29 | 4 | Dysplasia of pulmonary valve | |
| 241 | 225 | 09.05.32 | Bicuspid pulmonary valve | 1243337232 | LA8A.0Y | 09.05.29 | 5 | Bicuspid pulmonary valve | |
| 242 | 226 | 07.05.32 | Congenital subpulmonary stenosis | 1393194578 | LA8A.6 | 09.04.29 | 2 | Congenital subpulmonary stenosis | |
| 243 | 227 | 09.07.15 | Congenital supra-valvar pulmonary stenosis | 1801512478 | LA8A.Y | 09.04.29 | 3 | Congenital supra-valvar pulmonary stenosis | |
| 244 | 228 | 09.05.16 | Congenital pulmonary atresia | 1883690033 | LA8A.1 | 09.04.29 | 4 | Congenital pulmonary atresia | |
| 245 | Q* | 09.05.12 | Congenital pulmonary valvar atresia | 2133636301 | LA8A.1Y | 09.05.16 | 1 | | |
| 246 | 229 | 01.01.07 | Pulmonary atresia with intact ventricular septum | 131289265 | LA8A.10 | 09.05.16 | 2 | Pulmonary atresia with intact ventricular septum | |
| 247 | 230 | 09.15.19 | Congenital anomaly of aortic valve | 1932996411 | LA8A.2 | 09.04.29 | 5 | Congenital anomaly of aortic valve | |
| 248 | 231 | 09.15.01 | Congenital aortic valvar stenosis | 1824398514 | LA8A.20 | 09.15.19 | 1 | Congenital aortic valvar stenosis | |

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| 249 | 232 | 09.15.07 | Congenital aortic regurgitation | 167104804 | LA8A.21 | 09.15.19 | 2 | Congenital aortic regurgitation | |
| 250 | 233 | 09.15.22 | Bicuspid aortic valve | 1328968452 | LA8A.22 | 09.15.19 | 3 | Bicuspid aortic valve | |
| 251 | 234 | 09.15.21 | Unicuspid aortic valve | 725458981 | LA8A.24 | 09.15.19 | 4 | Unicuspid aortic valve | |
| 252 | 235*** | 09.15.30 | Aortic valvar prolapse | 4999832858 | BB74 | 09.15.19 | 5 | Aortic valvar prolapse | |
| 253 | 236 | 09.15.06 | Aortic valvar atresia | 1700740306 | LA8A.23 | 09.15.19 | 6 | Aortic valvar atresia | |
| 254 | 237 | 09.15.17 | Aortic annular hypoplasia | 801311773 | LA8A.2Y | 09.15.19 | 7 | Aortic 'annular' hypoplasia | Aortic 'annular' hypoplasia |
| 255 | 238 | 09.15.09 | Dysplasia of aortic valve | 185322419 | LA8A.2Y | 09.15.19 | 8 | Dysplasia of aortic valve | |
| 256 | 239 | 07.09.50 | Congenital subaortic stenosis | 1350872731 | LA8A.5 | 09.04.29 | 6 | Congenital subaortic stenosis | |
| 257 | 240 | 07.09.03 | Subaortic stenosis due to fibromuscular shelf | 1420460223 | LA8A.5 | 07.09.50 | 1 | Subaortic stenosis due to fibromuscular shelf | |
| 258 | 241 | 07.09.16 | Subaortic stenosis due to fibromuscular tunnel | 159716932 | LA8A.5 | 07.09.50 | 2 | Subaortic stenosis due to fibromuscular tunnel | |
| 259 | 242 | 09.16.18 | Congenital supraaortic stenosis | 1066595728 | LA8A.3 | 09.04.29 | 9 | Congenital supraaortic stenosis | |
| 260 | 243 | 09.18.01 | Aneurysm of aortic sinus of Valsalva | 364348641 | LA8A.4 | 09.04.29 | 10 | Aneurysm of aortic sinus of Valsalva | |
| 261 | 244 | 09.17.01 | Aortoventricular tunnel | 470594532 | LA8A.Y | 09.04.29 | 11 | Aortoventricular tunnel | |
| 262 | R* | 09.17.02 | Aorto-left ventricular tunnel | 1781288740 | LA8A.Y | 09.17.01 | 1 | | |
| 263 | S* | 09.17.04 | Aorto-right ventricular tunnel | 1166626076 | LA8A.Y | 09.17.01 | 2 | | |
| 264 | 245 | 09.04.28 | Congenital anomaly of great arteries including arterial duct | 1851979900 | LA8B | 01.01.59 | 9 | Congenital anomaly of great arteries including arterial duct | |
| 265 | 246 | 09.04.07 | Congenital aortopulmonary window | 1988278118 | LA8B.0 | 09.04.28 | 1 | Congenital aortopulmonary window | |
| 266 | 247 | 09.07.16 | Congenital anomaly of pulmonary arterial tree | 953235173 | LA8B.1 | 09.04.28 | 2 | Congenital anomaly of pulmonary arterial tree | |

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| 267 | 248 | 09.10.36 | Congenital dilation of pulmonary arterial tree | 2022819457 | LA8B.1 | 09.07.16 | 1 | Congenital dilation of pulmonary arterial tree | |
| 268 | 249 | 09.07.19 | Congenital pulmonary trunk anomaly | 1325590527 | LA8B.1 | 09.07.16 | 2 | Congenital pulmonary trunk (main pulmonary artery) anomaly | Congenital main pulmonary artery anomaly |
| 269 | 250 | 09.07.20 | Congenital pulmonary trunk hypoplasia | 1152699781 | LA8B.1 | 09.07.19 | 1 | Congenital pulmonary trunk (main pulmonary artery) hypoplasia | Congenital main pulmonary artery hypoplasia |
| 270 | 251 | 09.07.05 | Absent or atretic pulmonary trunk | 1075480254 | LA8B.1 | 09.07.19 | 2 | Absent or atretic pulmonary trunk (main pulmonary artery) | Absent or atretic main pulmonary artery |
| 271 | 252 | 09.10.41 | Congenital pulmonary arterial branch anomaly | 1743091164 | LA8B.1 | 09.07.16 | 3 | Congenital pulmonary arterial (branch) anomaly | |
| 272 | 253 | 09.10.27 | Congenital pulmonary arterial branch stenosis | 1441571291 | LA8B.1 | 09.10.41 | 1 | Congenital pulmonary arterial (branch) stenosis | |
| 273 | 254 | 09.10.28 | Congenital right pulmonary arterial stenosis | 2086312270 | LA8B.1 | 09.10.27 | 1 | Congenital right pulmonary arterial (branch) stenosis | Congenital right pulmonary arterial (branch) stenosis |
| 274 | 255 | 09.10.29 | Congenital left pulmonary arterial stenosis | 1271511092 | LA8B.1 | 09.10.27 | 2 | Congenital left pulmonary arterial (branch) stenosis | Congenital left pulmonary arterial (branch) stenosis |
| 275 | 256 | 09.10.71 | Congenital pulmonary arterial branch hypoplasia | 1766484567 | LA8B.1 | 09.10.41 | 2 | Congenital pulmonary arterial (branch) hypoplasia | |
| 276 | 257 | 09.10.72 | Congenital right pulmonary arterial hypoplasia | 1176338758 | LA8B.1 | 09.10.71 | 1 | Congenital right pulmonary arterial (branch) hypoplasia | Congenital right pulmonary arterial (branch) hypoplasia |
| 277 | 258 | 09.10.73 | Congenital left pulmonary arterial hypoplasia | 147957913 | LA8B.1 | 09.10.71 | 2 | Congenital left pulmonary arterial (branch) hypoplasia | Congenital left pulmonary arterial (branch) hypoplasia |
| 278 | T ⁺ | 09.10.21 | Absent or atretic right or left pulmonary artery | 542905766 | LA8B.1 | 09.10.41 | 3 | | |
| 279 | 259 | 09.10.75 | Absent or atretic right pulmonary artery | 773514681 | LA8B.1 | 09.10.21 | 1 | Absent or atretic right pulmonary artery | |
| 280 | 260 | 09.10.77 | Absent or atretic left pulmonary artery | 211367900 | LA8B.1 | 09.10.21 | 2 | Absent or atretic left pulmonary artery | |

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| 281 | 261 | 09.10.37 | Congenital central pulmonary arterial stenosis or hypoplasia proximal to hilar bifurcation | 1061325287 | LA8B.1 | 09.10.41 | 4 | Congenital central pulmonary arterial stenosis or hypoplasia: proximal to hilar bifurcation | |
| 282 | 262 | 09.10.38 | Congenital peripheral pulmonary arterial stenosis or hypoplasia at or beyond hilar bifurcation | 499211140 | LA8B.1 | 09.10.41 | 5 | Congenital peripheral pulmonary arterial stenosis or hypoplasia: at or beyond hilar bifurcation | |
| 283 | 263 | 09.10.30 | Congenitally discontinuous, non-confluent right and left pulmonary arteries | 620586359 | LA8B.1 | 09.10.41 | 6 | Congenitally discontinuous (non-confluent) right and left pulmonary arteries | Congenitally discontinuous (non-confluent) right and left pulmonary arteries |
| 284 | 264 | 09.09.08 | Pulmonary artery origin from ascending aorta | 731364546 | LA8B.1 | 09.10.41 | 7 | Pulmonary artery origin from ascending aorta | |
| 285 | 265 | 09.09.03 | Right pulmonary artery from ascending aorta | 2122410634 | LA8B.1 | 09.09.08 | 1 | Right pulmonary artery from ascending aorta | |
| 286 | 266 | 09.09.05 | Left pulmonary artery from ascending aorta | 1284030093 | LA8B.1 | 09.09.08 | 2 | Left pulmonary artery from ascending aorta | |
| 287 | 267 | 09.09.11 | Pulmonary artery from arterial duct | 16177108 | LA8B.1 | 09.10.41 | 8 | Pulmonary artery from arterial duct (ductus arteriosus) | Pulmonary artery ductus arteriosus |
| 288 | 268 | 09.09.02 | Right pulmonary artery from arterial duct | 388422478 | LA8B.1 | 09.09.11 | 1 | Right pulmonary artery from arterial duct (ductus arteriosus) | Right pulmonary artery from ductus arteriosus |
| 289 | 269 | 09.09.04 | Left pulmonary artery from arterial duct | 900008233 | LA8B.1 | 09.09.11 | 2 | Left pulmonary artery from arterial duct (ductus arteriosus) | Left pulmonary artery from ductus arteriosus |
| 290 | 270 | 07.09.34 | Congenital anomaly of aorta or its branches | 1509021958 | LA8B.2 | 09.04.28 | 3 | Congenital anomaly of aorta and-or its branches | |
| 291 | 271 | 09.16.06 | Congenital anomaly of ascending aorta | 1073599518 | LA8B.2Y | 07.09.34 | 1 | Congenital anomaly of ascending aorta | |
| 292 | 272 | 09.16.02 | Hypoplasia of ascending aortic | 1601805840 | LA8B.2Y | 09.16.06 | 1 | Ascending aortic hypoplasia | |
| 293 | 273 | 09.16.19 | Congenital ascending aortic aneurysm or dilation | 1381321493 | LA8B.2Y | 09.16.06 | 2 | Congenital ascending aortic dilation or aneurysm; Congenital | |

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| | | | | | | | | ascending aorta aneurysm or dilation | |
| 294 | 274 | 09.28.10 | Congenital anomaly of aortic arch | 2071071585 | LA8B.2Y | 07.09.34 | 2 | Congenital anomaly of aortic arch | |
| 295 | 275 | 09.29.11 | Hypoplasia of aortic arch | 2084361271 | LA8B.2Y | 09.28.10 | 1 | Aortic arch hypoplasia | |
| 296 | 277 | 09.29.31 | Interrupted aortic arch | 1769930414 | LA8B.22 | 09.28.10 | 2 | Interrupted aortic arch | |
| 297 | 278 | 09.29.32 | Interrupted aortic arch distal to subclavian artery, type A | 2023865940 | LA8B.22 | 09.29.31 | 1 | Interrupted aortic arch: distal to subclavian artery (type A) | |
| 298 | 279 | 09.29.33 | Interrupted aortic arch between subclavian and common carotid arteries, type B | 1512205361 | LA8B.22 | 09.29.31 | 2 | Interrupted aortic arch: between subclavian and common carotid arteries (type B) | |
| 299 | 280 | 09.29.34 | Interrupted aortic arch between carotid arteries, type C | 1840336207 | LA8B.22 | 09.29.31 | 3 | Interrupted aortic arch: between carotid arteries (type C) | |
| 300 | 281 | 09.28.15 | Right aortic arch | 769265824 | LA8B.2Y | 09.28.10 | 3 | Right aortic arch | |
| 301 | 282 | 09.28.22 | Left aortic arch | 1624106993 | LA8B.2Y | 09.28.10 | 4 | Left aortic arch | |
| 302 | 283 | 09.28.06 | Cervical aortic arch | 1466691538 | LA8B.2Y | 09.28.10 | 5 | Cervical aortic arch | |
| 303 | X* | 09.30.22 | Aortic diverticulum of Kommerell | 300462821 | LA8B.2Y | 09.28.10 | 6 | | |
| 304 | Y* | 09.28.08 | Persistent fifth aortic arch | 82536098 | LA8B.2Y | 09.28.10 | 7 | | |
| 305 | 276 | 09.29.01 | Coarctation of aorta | 1524185114 | LA8B.21 | 07.09.34 | 3 | Coarctation of aorta | |
| 306 | U* | 09.29.02 | Preductal coarctation of aorta | 1614972736 | LA8B.21 | 09.29.01 | 1 | | |
| 307 | V* | 09.29.04 | Postductal coarctation of aorta | 1818445124 | LA8B.21 | 09.29.01 | 2 | | |
| 308 | W* | 09.29.03 | Juxtaductal (paraductal) coarctation of aorta | Awaiting ICD entity number | LA8B.21 | 09.29.01 | 3 | | |
| 309 | 284 | 09.30.17 | Congenital anomaly of aortic arch branch | 1465829007 | LA8B.24 | 07.09.34 | 4 | Congenital anomaly of aortic arch branch | |
| 310 | 285 | 09.30.02 | Aberrant origin of right subclavian artery | 1753426940 | LA8B.24 | 09.30.17 | 1 | Aberrant origin of right subclavian artery | |
| 311 | 286 | 09.30.04 | Aberrant origin of left subclavian artery | 1980670431 | LA8B.24 | 09.30.17 | 2 | Aberrant origin of left subclavian artery | |
| 312 | 287 | 09.30.16 | Isolation of an aortic arch branch | 2051093194 | LA8B.24 | 09.30.17 | 3 | Isolation of an aortic arch branch | |

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| 313 | Z ⁺ | 09.30.11 | Isolation of innominate artery | 8058820 | LA8B.24 | 09.30.16 | 1 | | |
| 314 | AA ⁺ | 09.30.14 | Isolation of left subclavian artery | 2066112447 | LA8B.24 | 09.30.16 | 2 | | |
| 315 | AB ⁺ | 09.30.15 | Isolation of right subclavian artery | 77867676722 | LA8B.24 | 09.30.16 | 3 | | |
| 316 | AC ⁺ | 09.30.12 | Isolation of left common carotid artery | 1612416791 | LA8B.24 | 09.30.16 | 4 | | |
| 317 | AD ⁺ | 09.30.13 | Isolation of right common carotid artery | 1060908708 | LA8B.24 | 09.30.16 | 5 | | |
| 318 | AE ⁺ | 09.30.34 | Aberrant origin of innominate artery | 224546005 | LA8B.24 | 09.30.17 | 4 | | |
| 319 | AF ⁺ | 09.30.31 | Common origin of the innominate artery and left common carotid artery | 1476720756 | LA8B.24 | 09.30.17 | 5 | | |
| 320 | AG ⁺ | 09.30.28 | Separate origins of internal and external carotid arteries | 34296271 | LA8B.24 | 09.30.17 | 6 | | |
| 321 | 288 | 09.28.47 | Congenital anomaly of descending thoracic or abdominal aorta | Awaiting ICD entity number | LA8B.23 | 07.09.34 | 5 | Congenital anomaly of descending thoracic and/or abdominal aorta | |
| 322 | 289 | 09.29.44 | Descending thoracic or abdominal aortic coarctation | 480830042 | LA8B.23 | 09.28.47 | 1 | Descending thoracic or abdominal aortic coarctation | |
| 323 | AH ⁺ | 09.29.05 | Coarctation of the descending thoracic aorta | 1167364661 | LA8B.23 | 09.29.44 | 1 | | |
| 324 | AI ⁺ | 09.29.06 | Coarctation of the abdominal aorta | 566051188 | LA8B.23 | 09.29.44 | 2 | | |
| 325 | 290 | 09.31.40 | Tracheo-oesophageal compressive syndrome | 108967698 | LA8B.3 | 09.04.28 | 4 | Tracheo-esophageal compressive syndrome | |

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| 326 | 291 | 09.30.23 | Innominate artery compression syndrome | 837654124 | LA8B.3 | 09.31.40 | 1 | Innominate artery compression syndrome | |
| 327 | AJ* | 09.30.27 | Retro-oesophageal origin of aberrant innominate artery | 1848026200 | LA8B.3 | 09.30.23 | 1 | | |
| 328 | 292 | 09.31.00 | Vascular Ring | 1864923481 | LA8B.Y | 09.04.28 | 5 | Vascular Ring | |
| 329 | 293 | 09.28.09 | Double aortic arch | 960436403 | LA8B.Y | 09.31.00 | 1 | Double aortic arch | |
| 330 | 294 | 09.31.35 | Vascular ring of right aortic arch and left arterial duct or ligament | 1921699903 | LA8B.Y | 09.31.00 | 2 | Vascular ring of right aortic arch and left arterial duct or ligament | |
| 331 | 295 | 09.31.34 | Vascular ring of left aortic arch and right arterial duct or ligament | 1256670334 | LA8B.Y | 09.31.00 | 3 | Vascular ring of left aortic arch and right arterial duct or ligament | |
| 332 | 296 | 09.09.06 | Anomalous origin of left pulmonary artery from right pulmonary artery | 1038861606 | LA8B.Y | 09.04.28 | 6 | Anomalous origin of left pulmonary artery from right pulmonary artery (pulmonary arterial sling) | Pulmonary arterial sling |
| 333 | 297 | 09.27.05 | Congenital arterial duct anomaly | 429811909 | LA8B.Y | 09.04.28 | 7 | Congenital arterial duct (ductus arteriosus) anomaly | Congenital ductus arteriosus anomaly |
| 334 | 298 | 09.27.21 | Patent arterial duct | 1262462321 | LA8B.4 | 09.27.05 | 1 | Patent arterial duct (ductus arteriosus) | Patent arterial duct |
| 335 | AK* | 09.27.03 | Absent arterial duct | 316856895 | LA8B.Y | 09.27.05 | 2 | | |
| 336 | AL* | 09.27.04 | Congenital aneurysm of arterial duct | 1307324770 | LA8B.Y | 09.27.05 | 3 | | |
| 337 | AM* | 09.27.41 | Anomalous origin of arterial duct | 1488672807 | LA8B.Y | 09.27.05 | 4 | | |
| 338 | AN* | 09.27.82 | Anomalous origin of arterial ligament | 172834801 | LA8B.Y | 09.27.05 | 5 | | |
| 339 | AO* | 14.10.51 | Fetal arterial duct narrowing-closure | 1802063004 | LA8B.Y | 09.27.05 | 6 | | |
| 340 | 299 | 09.08.18 | Systemic-to-pulmonary collateral arteries | 807948372 | LA8B.Y | 09.04.28 | 8 | Systemic-to-pulmonary collateral artery(ies) | Systemic-to-pulmonary collateral artery(ies) |
| 341 | 300 | 09.46.03 | Congenital anomaly of coronary artery | 902783759 | LA8C | 01.01.59 | 10 | Congenital anomaly of coronary arteries | |

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|-----|-----|----------|---|------------|--------|----------|---|---|---|
| 342 | 301 | 09.41.01 | Anomalous origin of coronary artery from pulmonary arterial tree | 1862930314 | LA8C.0 | 09.46.03 | 1 | Anomalous origin of coronary artery from pulmonary arterial tree | |
| 343 | 302 | 09.41.03 | Anomalous origin of left coronary artery from pulmonary artery | 12665074 | LA8C.0 | 09.41.01 | 1 | Anomalous origin of left coronary artery from pulmonary artery | |
| 344 | 303 | 09.42.00 | Anomalous aortic origin or course of coronary artery | 624468809 | LA8C.1 | 09.46.03 | 2 | Anomalous aortic origin or course of coronary artery | |
| 345 | 304 | 09.42.21 | Anomalous aortic origin of coronary artery with ventriculo-arterial concordance | 238058271 | LA8C.1 | 09.42.00 | 1 | Anomalous aortic origin of coronary artery with ventriculo-arterial concordance | |
| 346 | 305 | 09.46.26 | Right coronary artery from left aortic sinus with ventriculo-arterial concordance | 912125792 | LA8C.1 | 09.42.21 | 1 | Right coronary artery from left aortic sinus with ventriculo-arterial concordance | |
| 347 | 306 | 09.46.21 | Left coronary artery from right aortic sinus with ventriculo-arterial concordance | 350108987 | LA8C.1 | 09.42.21 | 2 | Left coronary artery from right aortic sinus with ventriculo-arterial concordance | |
| 348 | 307 | 09.43.04 | Anterior descending from right coronary artery across right ventricular outflow tract | 592256069 | LA8C.1 | 09.42.00 | 2 | Anterior interventricular (anterior descending) from right coronary artery across right ventricular outflow tract | Anterior interventricular from right coronary artery across right ventricular outflow tract |
| 349 | 308 | 09.43.05 | Intramural proximal coronary arterial course | 1908546533 | LA8C.1 | 09.42.00 | 3 | Intramural proximal coronary arterial course | |
| 350 | 309 | 09.43.13 | Single coronary artery supplying all of heart | 1238584494 | LA8C.1 | 09.42.00 | 4 | Single coronary supplying all of heart | |
| 351 | 310 | 09.43.12 | Myocardial bridging of coronary artery | 184231124 | LA8C.Y | 09.46.03 | 3 | Myocardial bridging of coronary artery | |
| 352 | 311 | 09.44.05 | Congenital coronary arterial orifice stenosis | 1614456856 | LA8C.Y | 09.46.03 | 4 | Congenital coronary arterial orifice stenosis | |
| 353 | 312 | 09.44.19 | Congenital coronary arterial orifice atresia | 2118151636 | LA8C.Y | 09.46.03 | 5 | Congenital coronary arterial orifice atresia | |
| 354 | 313 | 09.45.16 | Congenital coronary arterial fistula | 1580310858 | LA8C.2 | 09.46.03 | 6 | Congenital coronary arterial fistula(s) | Congenital coronary arterial fistula(s) |

| | | | | | | | | | |
|-----|--------|----------|---|----------------------|--------|----------|----|---|--|
| 355 | 314 | 09.45.10 | Congenital coronary arterial fistula to right ventricle | 955445461 | LA8C.2 | 09.45.16 | 1 | Congenital coronary arterial fistula to right ventricle | |
| 356 | 315 | 09.45.22 | Congenital coronary arterial fistula to left ventricle | 98410917 | LA8C.2 | 09.45.16 | 2 | Congenital coronary arterial fistula to left ventricle | |
| 357 | 316 | 09.46.14 | Congenital coronary arterial aneurysm | 1376805686 | LA8C.Y | 09.46.03 | 7 | Congenital coronary arterial aneurysm(s) | Congenital coronary arterial aneurysm(s) |
| 358 | AP+ | 09.42.09 | Accessory coronary artery | 1083781657 | LA8C.Y | 09.46.03 | 8 | | |
| 359 | AQ+ | 09.46.44 | Congenital absence of coronary artery | 617293420 | LA8C.Y | 09.46.03 | 9 | | |
| 360 | AR+ | 09.46.19 | Coronary arterial hypoplasia | 1156062809 | LA8C.Y | 09.46.03 | 10 | | |
| 361 | 317 | 10.01.05 | Congenital pericardial anomaly | 1188459532 | LA8D | 01.01.59 | 11 | Congenital pericardial anomaly | |
| 362 | AS+ | 10.01.02 | Complete agenesis of pericardium | 1462683633 | LA8D | 10.01.05 | 1 | | |
| 363 | AT+ | 10.01.01 | Partial agenesis of pericardium | 1742434564 | LA8D | 10.01.05 | 2 | | |
| 364 | AU+ | 10.01.03 | Pleuropericardial cyst | 989128703 | LA8D | 10.01.05 | 3 | | |
| 365 | AV+ | 10.03.53 | Congenital cardiac tumour | awaiting ICD number. | LA8Y | 01.01.59 | 12 | | |
| 366 | 318*** | 09.19.05 | Pulmonary arteriovenous fistula | 913404991 | LA90.5 | 01.01.59 | 13 | Pulmonary arteriovenous fistula | |
| 367 | AW+ | 02.02.03 | Bifid apex of heart | 1437052733 | LA8Y | 01.01.59 | 14 | | |

