International Statistical Classification of Diseases and Related Health Problems Codes:

* Congenital Heart Disease (ICD-8):
  + 746.0: Common arterial trunk
  + 746.1: Transposition of great vessels
  + 746.2: Tetralogy of Fallot
  + 746.3: Ventricular septal defect
  + 746.4: Atrial septal defect
  + 746.5, 746.41: Atrioventricular septal defect
  + 746.6: Anomalies of heart valve
  + 746.8, 746.9: Other heart anomalies\*
  + 747.0: Patent ductus arteriosus
  + 747.1: Coarctation of aorta
  + 747.2, 747.3: Other anomalies of great arteries\*
  + 747.4: Malformations of great veins\*

\* Classified as “Other” congenital heart disease in this manuscript’s Table 1 given common co-occurrence with other congenital heart disease lesions.

* Congenital Heart Disease (ICD-10):
  + Q200: Common arterial trunk
  + Q203, Q205: Transposition of great vessels:
  + Q213: Tetralogy of Fallot
  + Q210: Ventricular septal defect
  + Q211: Atrial septal defect
  + Q212, Q218B: Atrioventricular septal defect
  + Q220-Q229, Q230–Q239: Anomalies of heart valve
  + Q201-Q202, Q204, Q206, Q208- Q209, Q214, Q218-Q219, Q240–Q249: Other heart anomalies\*
  + Q250: Patent ductus arteriosus
  + Q251: Coarctation of aorta
  + Q252–Q254, Q255–Q256, Q257–Q259: Other anomalies of great arteries\*
  + Q260–Q264, Q268–Q269: Malformations of great veins\*

\* Classified as “Other” congenital heart disease in this manuscript’s Table 1 given common co-occurrence with other congenital heart disease lesions

* Pneumonia (ICD-8):
  + - * 481-486
* Pneumonia (ICD-10):
  + - * J10.0, J11.0: Influenza associated with pneumonia
      * J13–J18.9 but excluding pulmonary mycosis: J17.2C, J17.2; and viral pneumonia, J17.1.
      * B96.0: Mycoplasma pneumoniae
      * B96.1: Klebsiella pneumoniae,
      * A70: chlamydia psittaci
      * A481: and Legionellosis.2
* Respiratory failure (ICD-8 N/A; ICD-10):
  + - * J96.0, J96.9
* Extracardiac defects and chromosomal (ICD-8):
  + - * 310.4: Borderline mental retardation, due to unknown prenatal influence
      * 310.5: Borderline mental retardation, with chromosomal abnormalities
      * 311.4: Mild mental retardation, due to unknown prenatal influence
      * 311.5: Mild mental retardation, with chromosomal abnormalities
      * 312.4: Moderate mental retardation, due to unknown prenatal influence
      * 312.5: Moderate mental retardation, with chromosomal abnormalities
      * 313.4: Severe mental retardation, due to unknown prenatal influence
      * 313.5: Severe mental retardation, with chromosomal abnormalities
      * 314.4: Profound mental retardation, due to unknown prenatal influence
      * 314.5: Profound mental retardation, with chromosomal abnormalities
      * 315.4: Unspecified mental retardation, due to unknown prenatal influence
      * 315.5: Unspecified mental retardation, with chromosomal abnormalities
      * 740.99–759.99 (except 746-747): Congenital anomalies (subcodes expanded for illustrative purposes)

740 Anencephalus

741 Spina bifida

• 741.0 With hydrocephalus

• 741.9 Without mention of hydrocephalus

742 Congenital hydrocephalus

743 Other congenital anomalies of nervous system

• 743.0 Encephalocele

• 743.1 Microcephalus

• 743.2 Other specified anomalies of brain

• 743.3 Other specified anomalies of spinal cord

• 743.4 Neurofibromatosis

• 743.8 Other anomalies of nervous system

• 743.9 Unspecified anomalies of brain, spinal cord, and nervous system

744 Congenital anomalies of eye

• 744.0 Anophthalmos

• 744.1 Microphthalmos

• 744.2 Buphthalmos

• 744.3 Congenital cataract

• 744.4 Coloboma

• 744.5 Aniridia

• 744.6 Retinitis pigmentosa

• 744.7 Congenital blepharoptosis

• 744.8 Other specified

• 744.9 Unspecified

745 Congenital anomalies of ear, face, and neck

• 745.0 Anomalies of ear causing impairment of hearing

• 745.1 Accessory auricle

• 745.2 Other specified anomalies of ear

• 745.3 Unspecified anomalies of ear

• 745.4 Branchial cleft, cyst, or fistula; preauricular sinus

• 745.5 Webbing of neck

• 745.8 Other specified anomalies of face and neck

• 745.9 Unspecified anomalies of face and neck

748 Congenital anomalies of respiratory system

• 748.0 Choanal atresia

• 748.1 Other anomalies of nose

• 748.2 Web of larynx

• 748.3 Other anomalies of larynx, trachea, and bronchus

• 748.4 Congenital cystic lung

• 748.5 Agenesis of lung

• 748.6 Other anomalies of lung

• 748.8 Other specified anomalies of respiratory system

• 748.9 Unspecified anomalies of respiratory system

749 Cleft palate and cleft lip

• 749.0 Cleft palate

• 749.1 Cleft lip

• 749.2 Cleft palate with cleft lip

750 Other congenital anomalies of upper alimentary tract

• 750.0 Anomalies of tongue

• 750.1 Pyloric stenosis

• 750.2 Tracheo-esophageal fistula

• 750.3 Esophageal atresia and stenosis

• 750.8 Other specified anomalies of upper alimentary tract

• 750.9 Unspecified anomalies of upper alimentary tract

751 Other congenital anomalies of digestive system

• 751.0 Meckel's diverticulum

• 751.1 Anomalies of intestinal fixation

• 751.2 Hirschsprung's disease

• 751.3 Atresia and stenosis of rectum and anal canal

• 751.4 Other anomalies of intestine

• 751.5 Atresia of biliary ducts

• 751.6 Other anomalies of gallbladder, bile ducts, and liver

• 751.7 Anomalies of pancreas

• 751.8 Other specified anomalies of digestive system

• 751.9 Unspecified anomalies of digestive system

752 Congenital anomalies of genital organs

• 752.0 Indeterminate sex

• 752.1 Undescended testicle

• 752.2 Hypospadias

• 752.3 Epispadias

• 752.4 Congenital hydrocele

• 752.5 Anomalies of ovary, fallopian tube, and uterus

• 752.6 Anomalies of vagina and external female genitalia

• 752.7 Pseudohermaphroditism

• 752.8 Other specified anomalies of genital organs

• 752.9 Unspecified anomalies of genital organs

753 Congenital anomalies of urinary system

• 753.0 Renal agenesis

• 753.1 Cystic kidney disease

• 753.2 Obstructive defects of urinary tract

• 753.3 Other specified anomalies of kidney

• 753.4 Other specified anomalies of ureter

• 753.5 Extrophy of urinary bladder

• 753.6 Atresia and stenosis of urethra and bladder neck

• 753.8 Other specified anomalies of bladder and urethra

• 753.9 Unspecified anomalies of urinary system

754 Clubfoot (congenital)

• 754.0 Talipes cavus

• 754.1 Talipes equinovarus

• 754.2 Talipes calcaneovalgus

• 754.8 Talipes, other specified types NEC

• 754.9 Talipes, unspecified type

755 Other congenital anomalies of limbs

• 755.0 Polydactyly

• 755.1 Syndactyly

• 755.2 Reduction deformity of upper limb

• 755.3 Reduction deformity of lower limb

• 755.4 Reduction deformity, unspecified limb

• 755.5 Other anomaly of upper limb (including shoulder girdle)

• 755.6 Congenital dislocation of hip

• 755.7 Other anomaly of lower limb (including pelvic girdle)

• 755.8 Generalized flexion contracture of limb joints

• 755.9 Other and unspecified anomaly of unspecified limb

756 Other congenital anomalies of musculoskeletal system

• 756.0 Anomalies of skull and face bones

• 756.1 Anomalies of lumbosacral joint

• 756.2 Other anomalies of spine

• 756.3 Cervical rib

• 756.4 Other anomalies of ribs and sternum

• 756.5 Chondrodystrophy

• 756.6 Osteogenesis imperfeta

• 756.7 Other generalized anomalies of skeleton

• 756.8 Other specified anomalies of muscle, tendon, and fascia

• 756.9 Unspecified anomalies of musculoskeletal system

757 Congenital anomalies of skin, hair, and nails

• 757.0 Hereditary edema of legs

• 757.1 Pigmented nevus

• 757.2 Other specified anomalies of skin

• 757.3 Specified anomalies of hair

• 757.4 Specified anomalies of nails

• 757.9 Unspecified anomalies of skin, hair, and nails

758 Other and unspecified congenital anomalies

• 758.0 Anomalies of spleen

• 758.1 Anomalies of adrenal gland

• 758.2 Anomalies of thyroid gland

• 758.3 Anomalies of other endocrine glands

• 758.8 Other specified congenital anomaly

• 758.9 Unspecified congenital anomaly

759 Congenital syndromes affecting multiple systems

• 759.0 Situs inversus

• 759.1 Conjoined twins

• 759.2 Other forms of monster

* Extracardiac defects and chromosomal (ICD-10):
  + - * DQ00.0–DQ99.9: Congenital malformations, deformations and chromosomal abnormalities
        + Q00-Q07: Congenital malformations of the nervous system
        + Q10-Q18: Congenital malformations of eye, ear, face and neck
        + Q20-Q28: Congenital malformations of the circulatory system
        + Q30-Q34: Congenital malformations of the respiratory system
        + Q35-Q37: Cleft lip and cleft palate
        + Q38-Q45: Other congenital malformations of the digestive system
        + Q50-Q56: Congenital malformations of genital organs
        + Q60-Q64: Congenital malformations of the urinary system
        + Q65-Q79: Congenital malformations and deformations of the musculoskeletal system
        + Q80-Q89: Other congenital malformations
        + Q90-Q99: Chromosomal abnormalities, not elsewhere classified
* Congenital Heart Disease severity classification map (ICD-8):
  + 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Univentricular, 9 = Not classified

|  |  |
| --- | --- |
| ICD-8 Code | Severity |
| 746.09 | 3 |
| 746.19 | 3 |
| 746.29 | 3 |
| 746.39 | 2 |
| 746.40 | 2 |
| 746.41 | 3 |
| 746.49 | 2 |
| 746.59 | 3 |
| 746.60 | 3 |
| 746.61 | 3 |
| 746.62 | 1 |
| 746.63 | 1 |
| 746.69 | 9 |
| 746.79 | 9 |
| 746.89 | 9 |
| 746.99 | 9 |
| 747.09 | 2 |
| 747.19 | 2 |
| 747.29 | 9 |
| 747.39 | 1 |
| 747.49 | 9 |
| 747.59 | 9 |
| 747.69 | 9 |
| 747.89 | 9 |
| 747.99 | 9 |

* Congenital Heart Disease severity classification map (ICD-10):
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| CHD Diagnosis Code | CHD Severity |
| --- | --- |
| DQ231A | 1 |
| DQ232 | 1 |
| DQ233 | 1 |
| DQ21 | 2 |
| DQ210 | 2 |
| DQ211 | 2 |
| DQ211A | 2 |
| DQ211B | 2 |
| DQ211C | 2 |
| DQ214 | 2 |
| DQ250 | 2 |
| DQ251 | 2 |
| DQ251A | 2 |
| DQ254E | 2 |
| DQ254F | 2 |
| DQ254I | 2 |
| DQ26 | 2 |
| DQ260 | 2 |
| DQ261 | 2 |
| DQ263 | 2 |
| DQ200 | 3 |
| DQ201 | 3 |
| DQ202 | 3 |
| DQ203 | 3 |
| DQ203A | 3 |
| DQ205 | 3 |
| DQ205A | 3 |
| DQ205B | 3 |
| DQ206 | 3 |
| DQ208A | 3 |
| DQ208B | 3 |
| DQ208C | 3 |
| DQ208S | 3 |
| DQ212 | 3 |
| DQ213 | 3 |
| DQ213A | 3 |
| DQ218A | 3 |
| DQ218B | 3 |
| DQ218C | 3 |
| DQ220 | 3 |
| DQ220A | 3 |
| DQ222 | 3 |
| DQ224 | 3 |
| DQ230 | 3 |
| DQ231 | 3 |
| DQ242 | 3 |
| DQ243 | 3 |
| DQ244 | 3 |
| DQ246 | 3 |
| DQ248L | 3 |
| DQ254H | 3 |
| DQ256 | 3 |
| DQ257A | 3 |
| DQ257D | 3 |
| DQ257F | 3 |
| DQ262 | 3 |
| DQ268B | 3 |
| DQ204 | 4 |
| DQ226 | 4 |
| DQ234 | 4 |
| DQ248D | 4 |
| DQ252 | 4 |
| DQ254A | 4 |
| DQ254D | 4 |
| DQ255 | 4 |
| DQ208 | 9 |
| DQ209 | 9 |
| DQ218 | 9 |
| DQ219 | 9 |
| DQ22 | 9 |
| DQ223 | 9 |
| DQ228 | 9 |
| DQ229 | 9 |
| DQ23 | 9 |
| DQ238 | 9 |
| DQ239 | 9 |
| DQ24 | 9 |
| DQ240 | 9 |
| DQ241 | 9 |
| DQ245A | 9 |
| DQ245B | 9 |
| DQ248 | 9 |
| DQ248A | 9 |
| DQ248C | 9 |
| DQ248E | 9 |
| DQ248F | 9 |
| DQ248G | 9 |
| DQ248H | 9 |
| DQ248I | 9 |
| DQ248J | 9 |
| DQ248K | 9 |
| DQ249 | 9 |
| DQ25 | 9 |
| DQ254 | 9 |
| DQ254B | 9 |
| DQ254C | 9 |
| DQ254G | 9 |
| DQ257 | 9 |
| DQ257B | 9 |
| DQ257C | 9 |
| DQ257E | 9 |
| DQ257G | 9 |
| DQ258 | 9 |
| DQ259 | 9 |
| DQ264 | 9 |
| DQ265 | 9 |
| DQ266 | 9 |
| DQ268 | 9 |
| DQ268A | 9 |
| DQ268C | 9 |
| DQ268D | 9 |
| DQ269 | 9 |
| DQ27 | 9 |
| DQ270 | 9 |
| DQ270A | 9 |
| DQ270B | 9 |
| DQ270C | 9 |
| DQ271 | 9 |
| DQ272 | 9 |
| DQ272A | 9 |
| DQ272B | 9 |
| DQ273 | 9 |
| DQ225 | 1 |
| DQ245 | 1 |
| DQ245C | 1 |
| DQ253 | 1 |
| DQ221 | 2 |