

# BD STEPS Birth Defects Case Definitions

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# BD STEPS Birth Defects Case Definitions

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## 1. Spina Bifida

### BIRTH DEFECT & DEFINITION

- SPINA BIFIDA--herniation of the meninges and/or spinal cord tissue through a bony defect of spine closure

OTHER NAMES: spina bifida cystica, spina bifida aperta, myeloschisis, myelodysplasia, etc.

### TYPES & DEFINITIONS

- MENINGOMYELOCELE/MYELOMENINGOCELE--90% of lesions, herniation of meninges and spinal cord tissue
- MENINGOCELE--herniation of meninges without spinal cord tissue
- RACHISCHISIS--spine defect without meninges covering the neural tissue
- LIPOMENINGOMYELOCELE/LIPOMENINGOCELE--lipomatous (fatty) tissue associated with a bony defect of the spine and herniation of meninges or spinal cord tissue, usually closed and located in the lumbosacral region
- MYELOCYSTOCELE--cystic lesion of the spinal cord central canal and herniation through a spinal defect
- OPEN LESION--neural tissue open to environment or covered by membrane only (90% of lesions)
- CLOSED LESION--neural tissue covered by normal skin
- LEVEL OF LESION--highest and lowest vertebrae--cervical (C), thoracic (T), lumbar (L), sacral (S)

### INCLUSIONS

- All cases including those cases prenatally diagnosed that do not have a postnatal examination to confirm the defect

### EXCLUSIONS

- Spina bifida occulta
- Primary tethered cord
- Syringomyelia (hydromyelia)
- Diastatomyelia
- Diplomyelia
- Caudal lipomatous lesions not documented to involve neural tissue
- Iniencephaly--a rare neural tube defect involving the occiput and inion, resulting in extreme retroflexion of the head variably combined with occipital encephalocele or rachischisis of the cervical and thoracic spine; iniencephaly always has a closed cranium;

### ICD-9-CM CODES

- SPINA BIFIDA WITH HYDROCEPHALUS--741.0

- SPINA BIFIDA WITHOUT MENTION OF HYDROCEPHALUS--741.9

**BDSTEPS CODES**

- 741x0x: Meningomyelocele/myelomeningocele
- 741x1x: Meningocele
- 741x2x: Myelocele
- 741x3x: Myelocystocele
- 741x4x: Lipomeningomyelocele
- 741x5x: Lipomeningocele
- 741x6x: Rachischisis
- 741x8x: Other specified spina bifida
- 741x9x: Unspecified spina bifida
- 7410xx: Arnold Chiari malformation ± hydrocephalus, open lesion
- 7411xx: Arnold Chiari malformation ± hydrocephalus, closed lesion
- 7412xx: Arnold Chiari malformation ± hydrocephalus, unspecified open/closed lesion
- 7413xx: Hydrocephalus, other (aqueduct of Sylvius) or NOS, open lesion
- 7414xx: Hydrocephalus, other (aqueduct of Sylvius) or NOS, closed lesion
- 7415xx: Hydrocephalus, other (aqueduct of Sylvius) or NOS, unspecified open/closed lesion
- 7417xx: No mention hydrocephalus, open lesion
- 7418xx: No mention hydrocephalus, closed lesion
- 7419xx: No mention hydrocephalus, unspecified open/closed lesion
- 741xx1: Highest level, cervical
- 741xx2: Highest level, thoracic
- 741xx3: Highest level, lumbar
- 741xx4: Highest level, sacral
- 741xx9: Highest level, unspecified

## 2. Anophthalmia/microphthalmia

### BIRTH DEFECT & DEFINITION

- ANOPHTHALMIA--total absence of the eye tissue or apparent absence of the globe in an orbit that otherwise contains normal adnexal structures
- MICROPHTHALMIA--reduction in the volume of the eye, usually characterized by corneal diameter less than 10 mm or anteroposterior globe diameter less than 20 mm

**NOTE:** these conditions may be seen with the ending "ia", "os" or "us"

### TYPES & DEFINITIONS

- TRUE OR PRIMARY ANOPHTHALMIA--as above; occurs when there is complete failure of formation of the primary optic vesicle, usually bilateral; when unilateral, may have contralateral microphthalmia; verified only when histologic/microscopic exam shows that all ocular tissue is absent
- MICROPHTHALMIA--categories: colobomatous (uveal, iris, choroid and/or optic nerve) or noncolobomatous

OTHER NAMES: nanophthalmia = microphthalmic eye with normal intraocular structures and is a distinct genetic malformation

### INCLUSIONS

- All cases must include diagnosis by an ophthalmologist or confirmation by surgical pathology or autopsy

### EXCLUSIONS

- "Small eyes" or "small palpebral fissures" unless there is confirmation of anophthalmia or microphthalmia
- Isolated microcornea with normal ocular size
- Ocular colobomas without anophthalmia or microphthalmia
- Cryptophthalmos

### ICD-9-CM CODES

- ANOPHTHALMIA--743.00
- MICROPHTHALMIA--743.10-743.12

### BDSTEPS CODES

- 743000-4: Anophthalmos
- 743100-4: Microphthalmos

### 3. Anotia/Microtia

#### BIRTH DEFECT & DEFINITION

- ANOTIA--total absence of the external ear and canal
- MICROTIA--malformation or hypoplasia of the auricle, ranging from measurably small external ear with minimal structural abnormality, to an ear with major structural alteration with absent or blind-ending canal

#### TYPES & DEFINITIONS

Microtia Classification System of Meurman (modified from Marks):

- TYPE I--generally small ear that retains most of the overall structure of the normal auricle--similar to lop/ cup defect, auditory meatus is usually patent and defects of the ossicular chain are infrequent
- TYPE II--moderately severe anomaly with longitudinal mass of cartilage with some resemblance to pinna (rudimentary auricle will be hook-shaped, have an S-shape or question mark appearance)
- TYPE III--ear is a rudiment of soft tissue and the auricle has no resemblance to the normal pinna
- TYPE IV--complete absence of all external ear structures, anotia

NOTE: types I - III will occasionally be accompanied by a preauricular tag(s)

#### INCLUSIONS

Standard

#### EXCLUSIONS

- Small ears NOS or small ears that retain most of the normal structure
- Type I microtia with or without abnormality of the external auditory canal
- Isolated atresia or stenosis of the external auditory canal
- Normal ears that are misplaced: low set, posteriorly rotated, etc.
- "Decreased cartilage" reported as part of the estimate of gestational age

#### ICD-9-CM CODES

- ANOTIA--744.01
- MICROTIA--744.23

NOTE: absence of the ear, congenital is included in the "other" code--744.09

#### BDSTEPS CODES

- 744010-4: Anotia
- 744210-4: Microtia

## 4-7. Conotruncal Heart Defects

The BDSTEPS definitions of dTGA and TOF is NOT exactly comparable to the NBDPS definitions of dTGA and TOF. DORV, which can be a sub-type of dTGA or TOF, is excluded from BD-STEPS altogether. However, the NBDPS cases of DORV-dTGA and DORV-TOF could be identified and excluded from the NBDPS dTGA and TOF case groups if analysts wanted to combine dTGA or TOF data from both studies.

### BIRTH DEFECT & DEFINITION

- CONOTRUNCAL HEART DEFECTS (outflow tract anomalies)--anomalies of the outflow tract of the heart

### TYPES & DEFINITIONS

4. TRUNCUS ARTERIOSUS (TA)--single common arterial trunk instead of separate pulmonary artery and aorta, almost always associated with a malalignment-type VSD; there are subtypes 1, 2, 3 based on the pattern of truncal branching; no need to specify type
5. DEXTRO-TRANSPOSITION OF GREAT ARTERIES (DTGA, DTGV)--transposed great arteries such that the pulmonary artery arises from the left ventricle and the aorta arises from the right ventricle
  - o May be isolated or with other congenital heart defects (e.g., VSD, pulmonic stenosis)
  - o If occurs with a VSD, do not code the VSD separately; use the code dTGA-VSD (745110)
  - o If no VSD, use code for dTGA with intact ventricular septum (745100)
6. TETRALOGY OF FALLOT (TOF, TET)--tetralogy = a malalignment-type VSD creates subvalvar pulmonic stenosis, overriding of the aorta, and right ventricular hypertrophy (= 4 defects in one code)
  - o Do not code VSD and pulmonic stenosis separately
  - o Absent and atretic pulmonary valve are distinctly different defects; thus, careful attention should be paid to the description and coding; use TOF code 745200 and PV insufficiency code 746020 for TOF with absent pulmonary valve
  - o "Pentalogy of Fallot" (TOF + ASD2) is an archaic term. If noted in the medical record, code both defects separately (TOF and ASD).
7. PULMONARY ATRESIA--atresia of the pulmonary valve/artery; depending on subtype, is considered either in conotruncal defects (7a) or with obstructive defects (7b, 7c)
  - 7a. PULMONARY ATRESIA WITH VSD (PA/VSD, TETRALOGY WITH PULMONARY ATRESIA)--absent connection from the right ventricle to the pulmonary artery and the aorta, usually with malalignment-type VSD; BDSTEPS code is 747310; alternative archaic terms are Truncus, type 4 or pseudotruncus. This is included as a conotruncal defect.

### INCLUSIONS

- Standard
- Include infants who are NEGATIVE or NOT TESTED for 22q11.2 deletion

### EXCLUSIONS

- Exclude infants who are POSITIVE for 22q11.2 deletion

#### **ICD-9-CM CODES**

- TETRALOGY OF FALLOT--745.2
- PULMONARY ATRESIA WITH VSD, TETRALOGY OF FALLOT WITH PULMONARY ATRESIA--747.3 and 745.2
- TRUNCUS ARTERIOSUS--745.0
- DEXTRO-TRANSPOSITION OF GREAT ARTERIES--745.10

#### **BDSTEPS CODES**

- 745000: Truncus arteriosus (TA)
- 745100: Dextro-transposition of great arteries with intact ventricular septum (D-TGA/D-TGV w/ IVS)
- 745110: Dextro-transposition of great arteries with ventricular septal defect (D-TGA/D-TGV w/ VSD)
- 745200: Tetralogy of Fallot (TOF)
- 747310: Pulmonary atresia with VSD (tetralogy of Fallot with pulmonary atresia) (PA w/ VSD)

## 8-10. Obstructive Heart Defects

### BIRTH DEFECT & DEFINITION

- OBSTRUCTIVE HEART DEFECTS--broad group of congenital heart defects in which there is obstruction to the flow of blood through either the left or right side of the heart or the great vessels

### TYPES & DEFINITIONS

#### Right-Sided Obstructive Anomaly:

8. TRICUSPID ATRESIA (, TriAtresia, TrA)--atretic connection between the right atrium and the right ventricle, due to the absence or non-patency of the valve
  - o Be sure to code using the BDSTEPS tricuspid atresia code (746100) for atresia alone (not for stenosis)
  - o **Tricuspid stenosis is not a BDSTEPS-eligible defect; in the original ICD9-BPA system, one code (7461) lumped both atresia and stenosis, which was a cause for confusion; in the presence of other eligible codes, use 746880 ("CHD, OS") for tricuspid stenosis**
7. PULMONARY ATRESIA --atresia of the pulmonary valve/artery; depending on subtype, is considered either in conotruncal defects (7a) or with obstructive defects (7b, 7c)
  - 7b. PULMONARY ATRESIA WITH VSD (NOT TOF VARIANT)--use this code (746030) if PA/VSD is present, but anatomic details of the VSD/aorta are **not** described as "membranous/malalignment-type," or if the VSD is "muscular". This is included as a right-sided obstructive defect.
  - 7c. PULMONARY ATRESIA WITH INTACT VENTRICULAR SEPTUM (PA/IVS)--this is a distinctly different defect; code as 746000. This is included as a right-sided obstructive defect.

#### Left-Sided Obstructive Anomaly:

9. COARCTATION OF THE AORTA (COA)--narrowing of the descending aorta, distal to the left subclavian; in most instances, the narrowing occurs close to the region where the ductus arteriosus inserts and is called juxtaductal coarctation
  - o Code separately, even in the presence of hypoplastic left heart syndrome
  - o There are no exclusions based on severity (even a 'mild' coarctation is included), although it is helpful to include information about the severity (gradient) or type (ledge vs. long segment coarctation) of the lesion
10. HYPOPLASTIC LEFT HEART SYNDROME (HLHS)--extreme smallness of the left-sided heart structures (mitral valve and left ventricle) and aorta (including the aortic valve, ascending aorta, arch, and sometimes descending aorta [coarctation]); implies normally related great arteries
  - o Typical cases include mitral hypoplasia or atresia PLUS aortic hypoplasia or atresia, in the presence of a diminutive (non-apex forming) left ventricle
  - o In the typical case of HLHS, coarctation should be coded separately when present; mitral and aortic atresia or hypoplasia do not need separate coding if HLHS is coded



- o In the presence of an unbalanced AV canal with right dominance, in which the left ventricle and aorta may be small, code the individual anomalies, but do **not** use the HLHS code
- o A ventricular septal defect may be present and its size may influence the dimensions of the left ventricle (mitral atresia and intact septum are often associated with very small ventricle)

#### **INCLUSIONS**

- Standard

#### **EXCLUSIONS**

- Coarctation of the aorta cases that are prenatally diagnosed but lack postnatal confirmation are excluded

#### **ICD-9-CM CODES**

- COARCTATION OF THE AORTA--747.10
- HYPOPLASTIC LEFT HEART SYNDROME--746.7
- PULMONARY VALVE ATRESIA WITH INTACT VENTRICULAR SEPTUM--746.00
- TRICUSPID ATRESIA--746.1

#### **BDSTEPS CODES**

- 747100: Coarctation of the aorta, preductal (proximal)
- 747110: Coarctation of the aorta, postductal (distal)
- 747120: Coarctation of the aorta, juxtaductal
- 747190: Coarctation of the aorta, NOS
- 746700: Hypoplastic left heart syndrome (HLHS)
- 746000: Pulmonary valve atresia/intact ventricular septum (PA/IVS)
- 746030: Pulmonary valve atresia with VSD (not tetralogy of Fallot variant) (PA w/ VSD, not TOF)
- 746100: Tricuspid atresia (TrA)

## 11. Anomalous Pulmonary Venous Return

### BIRTH DEFECT & DEFINITION

- ANOMALOUS PULMONARY VENOUS RETURN (CONNECTION/DRAINAGE)--a condition in which a pulmonary vein or combination of pulmonary veins drains anomalously into the systemic venous circulation to the right heart or the body instead of into the left heart; often occurs with other cardiac defects

### TYPES & DEFINITIONS

- TOTAL ANOMALOUS PULMONARY VENOUS RETURN (CONNECTION/DRAINAGE) (TAPVR/TAPVC/TAPVD)--failure of all pulmonary veins to connect to the left atrium

NOTE: pulmonary blood returns to the heart via supra-diaphragmatic or infra-diaphragmatic routes; these details are not needed for coding purposes

- PARTIAL ANOMALOUS PULMONARY VENOUS RETURN (CONNECTION/DRAINAGE) (PAPVR/PAPVC/PAPVD)--failure of 1,2,or 3 of the 4 pulmonary veins to connect to the left atrium; often associated with a sinus venosus type ASD

### INCLUSIONS

Standard

### EXCLUSIONS

- Cases prenatally diagnosed that do not have a postnatal diagnostic examination to confirm the diagnosis

### ICD-9-CM CODES

- TOTAL ANOMALOUS PULMONARY VENOUS RETURN--747.41
- PARTIAL ANOMALOUS PULMONARY VENOUS RETURN--747.42

### BDSTEPS CODES

- 747420: Total anomalous pulmonary venous return/connection/drainage (TAPVR)
- 747430: Partial anomalous pulmonary venous return/connection/drainage (PAPVR)

## 12. Cleft Lip +/- Palate

### BIRTH DEFECT & DEFINITION

- CLEFT LIP +/- PALATE--incomplete closure of the lip; often accompanied by a maxillary alveolar (gum) defect and/or cleft palate ; maxillary alveolar defect may be a complete cleft that is continuous with the cleft palate, or it may be limited to a notch on the gum; cleft lip may be unilateral, bilateral, or median (distinguished from bilateral cleft lip by agenesis of premaxilla)

### TYPES & DEFINITIONS

- COMPLETE CLEFT LIP--defect extends through the entirety of the lip and the nasal floor; may be unilateral or bilateral; usually associated with a more severe nasal deformation
- INCOMPLETE CLEFT LIP--defect of lip that does not extend into the nasal floor; may be unilateral or bilateral; there may be an incomplete cleft lip on one side and a complete cleft lip on the other side
- PSEUDOCLEFT LIP (excluded from BDSTEPS)--abnormal linear thickening or depressed groove of skin, or subtle scar-like pigmentary difference paralleling the philtral ridge on the affected side; may be associated with slight notch of the vermilion or a mild slouching of the alar cartilage

### INCLUSIONS

- Standard
- If cleft palate is associated with any type of cleft lip, it is coded as a cleft lip and palate, not cleft palate

### EXCLUSIONS

- Pseudocleft lip; microform cleft lip; forme fruste cleft lip
- Tessier type facial clefts
- Oblique facial clefts
- Prenatal diagnosis without postnatal confirmation of the defect(s)

### ICD-9-CM CODES

- CLEFT LIP--749.10-749.14
- CLEFT LIP WITH PALATE--749.20-749.25

### BDSTEPS CODES

- 749101-3: Cleft lip, unilateral
- 749110: Cleft lip, bilateral
- 749120: Cleft lip, central
- 749495: Cleft lip, NOS
- 749201-3: Cleft lip and palate, unilateral
- 749210: Cleft lip and palate, bilateral cleft lip
- 749220: Cleft lip and palate, central cleft lip
- 749290: Cleft lip and palate, NOS

## 13. Cleft Palate

### BIRTH DEFECT & DEFINITION

- CLEFT PALATE--hole in roof of the mouth; incomplete fusion of the palatal shelves; may be limited to soft palate or also extend onto hard palate; if cleft palate is associated with cleft lip, it is coded as a cleft lip and palate

### TYPES & DEFINITIONS

- PIERRE ROBIN ANOMALY (SEQUENCE)--combination of micrognathia, cleft palate, glossoptosis (tongue falls back into pharynx)
- SUBMUCOUS CLEFT PALATE (excluded from BDSTEPS)--defect of the soft palate with mucosa or a reduced, thin muscle layer bridging the midline; difficult to diagnose clinically in 1st year; often associated with a bifid uvula

### INCLUSIONS

Standard

### EXCLUSIONS

- Submucous cleft palate
- Bifid or cleft uvula without overt cleft palate

### ICD-9-CM CODES

- CLEFT PALATE--749.00-749.04

### BDSTEPS CODES

- 749001-3: Cleft hard palate, unilateral
- 749010: Cleft hard palate, bilateral
- 749020: Cleft hard palate, central
- 749030: Cleft hard palate, NOS
- 749041-3: Cleft soft palate, unilateral
- 749050: Cleft soft palate, bilateral
- 749060: Cleft soft palate, central
- 749070: Cleft soft palate, NOS
- 749090: Cleft palate, NOS

## 14. Esophageal Atresia +/- TE Fistula

### BIRTH DEFECT & DEFINITION

- ESOPHAGEAL ATRESIA +/- TRACHEOESOPHAGEAL FISTULA (T-E FISTULA, TEF)--congenital complete discontinuity of the lumen of the esophagus resulting in a blind esophageal pouch occurring with or without an abnormal communication between the esophagus and trachea

### TYPES & DEFINITIONS

- There are several classification schemas
- In 90% of cases the upper esophagus ends in a blind pouch and the lower segment forms a fistula with the trachea

### INCLUSIONS

Standard

### EXCLUSIONS

- TE fistula without esophageal atresia
- Esophageal stenosis
- Trachea atresia
- Tracheoesophageal cleft

### ICD-9-CM CODES

- ESOPHAGEAL ATRESIA, TRACHEOESOPHAGEAL FISTULA--750.3

### BDSTEPS CODES

- 750300: Esophageal atresia without TE fistula
- 750310: Esophageal atresia with TE fistula

## 15. Limb Deficiency, Transverse

### BIRTH DEFECT & DEFINITION

- TRANSVERSE LIMB DEFICIENCY--complete or partial absence of distal structures of a limb in a transverse plane at the point where the deficiency begins with proximal structures essentially intact

OTHER NAMES: congenital amputation

### TYPES & DEFINITIONS

- AMELIA--complete absence of a limb
- HEMI- OR MEROMELIA--partial absence of a limb (rather nonspecific; can also be used for longitudinal defects)
- TRANSVERSE TERMINAL DEFICIENCY--absence of distal structures with proximal structures essentially intact (used for deficiencies below the elbow)
- APHALANGIA--absence of phalanges
- ADACTYLY--absence of digits
- OLIGODACTYLY--fewer than 5 digits
- ACHEIRIA--absence of a hand

### INCLUSIONS

- Standard
- Isolated missing digits, except isolated missing thumb (would be longitudinal limb deficiency)

### EXCLUSIONS

- Unspecified limb deficiency
- Generalized limb shortening including chondrodysplasias
- Nail hypoplasia
- Brachydactylies type A-E
- Lower extremity deficiencies with sirenomelia sequence

### ICD-9-CM CODES

- UPPER LIMB TRANSVERSE DEFICIENCY--755.21
- UPPER LIMB LONGITUDINAL DEFICIENCY OF PHALANGE(S)--755.29
- LOWER LIMB TRANSVERSE DEFICIENCY--755.31
- LOWER LIMB LONGITUDINAL DEFICIENCY OF PHALANGE(S)--755.39

### BDSTEPS CODES

- 755200-4: Transverse deficiency or amputation of the arm, NOS
- 755205-9: Total absence of the arm
- 755240-4: Absence of the forearm and hand
- 755245-9: Absence of the hand or fingers
- 755300-4: Transverse deficiency or amputation of the leg, NOS
- 755305-9: Total absence of the leg
- 755340-4: Absence of the lower leg and foot
- 755345-9: Absence of foot or toes

## 16. Diaphragmatic Hernia

### BIRTH DEFECT & DEFINITION

- DIAPHRAGMATIC DEFECTS (HERNIA)--incomplete formation of the diaphragm through which some portion of the abdominal contents herniates into the thoracic cavity

OTHER NAMES: congenital diaphragmatic hernia (CDH), absence, agenesis, or aplasia of diaphragm, hemidiaphragm

### TYPES & DEFINITIONS

- POSTEROLATERAL HERNIA = BOCHDALEK HERNIA--defect involving the posterior and/or lateral portions of the diaphragm
- AGENESIS--apparent absence of an entire side of diaphragm; represents a large Bochdalek hernia
- ANTERIOR HERNIA = MORGAGNI HERNIA (aka Retrosternal, Parasternal, Morgagni-Larrey hernia)
- LARGE ANTERIOR HERNIA = SEPTUM TRANSVERSUM HERNIA--type of defect found in Pentalogy of Cantrell
- PARAESOPHAGEAL HERNIA--defect in the diaphragm surrounding the esophagus
- OTHER--includes, for example, central diaphragm defects, anterolateral defects, and unusual/atypical defects
- HERNIA SAC--approximately 15% of CDH have a sac, which is a localized thinning or out-pouching of the diaphragm; a sac is **not** a type of hernia

### INCLUSIONS

- Standard
- Prenatally diagnosed cases should be included only if bowel was documented in the chest by prenatal ultrasound

### EXCLUSIONS

- Eventration of the diaphragm--not a true herniation, but an upward displacement of abdominal contents into an out-pouched diaphragm resulting from weakness or absence of diaphragmatic musculature
- Hiatal hernia
- CCAM (cystic adenomatoid malformation of the lung)

### ICD-9-CM CODES

- DIAPHRAGMATIC HERNIA--756.6

### BDSTEPS CODES

- 756600-4: Diaphragmatic hernia, NOS
- 756605: Diaphragmatic hernia, esophageal
- 756610-4: Diaphragmatic hernia, Bochdalek
- 756615-9: Diaphragmatic hernia, Morgagni

## 17. Gastroschisis

### BIRTH DEFECT & DEFINITION

- GASTROSCHISIS--congenital fissure of the anterior abdominal wall, lateral to the umbilicus, usually to the right, with a small bridge of skin separating the defect from the umbilicus; accompanied by herniation of the small, and part of the large, intestines, and occasionally other abdominal organs, into the amniotic cavity, and lacking a protective membrane

### TYPES & DEFINITIONS

- LIMB-BODY WALL COMPLEX--disruption complex involving lateral body wall defect, limb reduction defect, neural tube defects, heart and other anomalies

### INCLUSIONS

- Standard
- Prenatally diagnosed cases if high resolution ultrasound was done and the umbilicus was visualized

### EXCLUSIONS

Standard

### ICD-9-CM CODES

- GASTROSCHISIS--756.79

### BDSTEPS CODES

- 756710: Gastroschisis