

Neonatal Iatrogenic Pneumothorax Rate

Neonatal Quality Indicators #1

Technical Specifications

Provider-Level Indicator

AHRQ Quality Indicators, Version 4.3, August 2011

Numerator

Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM code for iatrogenic pneumothorax in any secondary diagnosis field.

ICD-9-CM Iatrogenic pneumothorax diagnosis code:

5121 IATROGENIC PNEUMOTHORAX

Denominator

All surgical and medical discharges of neonates with birth weight less than 2500 grams.

See *Pediatric Quality Indicators Appendices*:

- Appendix B – Surgical Discharge DRGs
- Appendix C – Surgical Discharge MS-DRGs
- Appendix D – Medical Discharge DRGs
- Appendix E – Medical Discharge MS-DRGs
- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix L – Low Birth Weight Categories

Exclude cases:

- Neonates with birth weight less than 500 grams (Birth Weight Category 1)
- With ICD-9-CM code for iatrogenic pneumothorax in the principal diagnosis field
- With any diagnosis code of chest trauma or pleural effusion
- With an ICD-9-CM code of thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair, OR cardiac surgery
- Normal newborn
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

ICD-9-CM Chest trauma diagnosis codes:

80700	FRACTURE RIB NOS-CLOSED	80710	FRACTURE RIB NOS-OPEN
80701	FRACTURE ONE RIB-CLOSED	80711	FRACTURE ONE RIB-OPEN
80702	FRACTURE TWO RIBS-CLOSED	80712	FRACTURE TWO RIBS-OPEN
80703	FRACTURE THREE RIBS-CLOS	80713	FRACTURE THREE RIBS-OPEN
80704	FRACTURE FOUR RIBS-CLOSE	80714	FRACTURE FOUR RIBS-OPEN
80705	FRACTURE FIVE RIBS-CLOSE	80715	FRACTURE FIVE RIBS-OPEN
80706	FRACTURE SIX RIBS-CLOSED	80716	FRACTURE SIX RIBS-OPEN
80707	FRACTURE SEVEN RIBS-CLOS	80717	FRACTURE SEVEN RIBS-OPEN
80708	FX EIGHT/MORE RIB-CLOSED	80718	FX EIGHT/MORE RIBS-OPEN
80709	FX MULT RIBS NOS-CLOSED	80719	FX MULT RIBS NOS-OPEN

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8072	FRACTURE OF STERNUM-CLOS	8751	OPEN WOUND CHEST-COMPL
8073	FRACTURE OF STERNUM-OPEN	8760	OPEN WOUND OF BACK
8074	FLAIL CHEST	8761	OPEN WOUND BACK-COMPL
8075	FX LARYNX/TRACHEA-CLOSED	9010	INJURY THORACIC AORTA
8076	FX LARYNX/TRACHEA-OPEN	9011	INJ INNOMIN/SUBCLAV ART
8090	FRACTURE TRUNK BONE-CLOS	9012	INJ SUPERIOR VENA CAVA
8091	FRACTURE TRUNK BONE-OPEN	9013	INJ INNOMIN/SUBCLAV VEIN
8600	TRAUM PNEUMOTHORAX-CLOSE	90140	INJ PULMONARY VESSEL NOS
8601	TRAUM PNEUMOTHORAX-OPEN	90141	INJURY PULMONARY ARTERY
8602	TRAUM HEMOTHORAX-CLOSED	90142	INJURY PULMONARY VEIN
8603	TRAUM HEMOTHORAX-OPEN	90181	INJ INTERCOSTAL ART/VEIN
8604	TRAUM PNEUMOHEMOTHOR-CL	90182	INJ INT MAMMARY ART/VEIN
8605	TRAUM PNEUMOHEMOTHOR-OPN	90183	INJ MULT THORACIC VESSEL
86100	HEART INJURY NOS-CLOSED	90189	INJ THORACIC VESSEL NEC
86101	HEART CONTUSION-CLOSED	9019	INJ THORACIC VESSEL NOS
86102	HEART LACERATION-CLOSED	9110	ABRASION TRUNK
86103	HEART CHAMBER LACERAT-CL	9111	ABRASION TRUNK-INFECTED
86110	HEART INJURY NOS-OPEN	9118	SUPERFIC INJU TRUNK NEC
86111	HEART CONTUSION-OPEN	9119	SUPERFIC INJU TRUNK NEC-INF
86112	HEART LACERATION-OPEN	9220	CONTUSION OF BREAST
86113	HEART CHAMBER LACER-OPN	9221	CONTUSION OF CHEST WALL
86120	LUNG INJURY NOS-CLOSED	9223	BACK CONTUSION
86121	LUNG CONTUSION-CLOSED	92231	BACK CONTUSION
86122	LUNG LACERATION-CLOSED	92233	INTERSCPLR REG CONTUSION
86130	LUNG INJURY NOS-OPEN	9228	MULIPLE CONTUSION TRUNK
86131	LUNG CONTUSION-OPEN	9229	CONTUSION OF TRUNK
86132	LUNG LACERATION-OPEN	92611	CRUSHING INJURY BACK
8620	DIAPHRAGM INJURY-CLOSED	92619	CRUSHING INJ TRUNK NEC
8621	DIAPHRAGM INJURY-OPEN	9268	MULT CRUSHING INJ TRUNK
86221	BRONCHUS INJURY-CLOSED	9269	CRUSHING INJ TRUNK NOS
86222	ESOPHAGUS INJURY-CLOSED	9290	CRUSH INJ MULT SITE NEC
86229	INTRATHORACIC INJ NEC-CL	9299	CRUSHING INJURY NOS
86231	BRONCHUS INJURY-OPEN	9541	INJ SYMPA NERVE NEC
86232	ESOPHAGUS INJURY-OPEN	9548	INJURY TRUNK NERVE NEC
86239	INTRATHORAC INJ NEC-OPEN	9549	INJURY TRUNK NERVE NOS
8628	INTRATHORACIC INJ NOS-CL	95911	INJURY OF CHEST WALL NEC
8629	INTRATHORAC INJ NOS-OPEN	95919	TRUNK INJURY-SITES NEC
8750	OPEN WOUND OF CHEST	9599	INJURY-SITE NOS

ICD-9-CM Pleural effusion diagnosis codes:

0101	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS	0117	TUBRCULOUS PNEUMOTHORAX
01010	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED	01170	TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED
01011	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	01171	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
01012	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	01172	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01013	TPIPPT, TUBERCLE BACILI FOUND BY MICROSCOPY	01173	TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY
01014	TPIPPT, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	01174	TPNEU, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE
01015	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY	01175	TPNEU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01016	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS	01176	TPENU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
		0120	TUBERCULOUS PLEURISY

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01200	TUBERCULOUS PLEURISY, UNSPECIFIED	01206	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
01201	TP, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	1972	SECOND MALIG NEO PLEURA
01202	TP, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	5111	WITH EFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN TUBERCULOSIS
01203	TP, TUBERCLE BACILI FOUND BY MICROSCOPY	5118	OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS
01204	TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	51181	MALIGNANT PLEURAL EFFUSION (OCT08)
01205	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY	51189	OTHER SPECIFIED FORMS OF EFFUSION, EXCEPT TUBERCULOSIS (OCT08)
		5119	UNSPECIFIED PLEURAL EFFUSION

ICD-9-CM Thoracic surgery procedure codes:

0522	SYMPATHECTOMY CERVICAL	3250	THORACOSPC PNEUMONECTOMY
0523	SYMPATHECTOMY LUMBAR	3259	OTHER PNEUMONECTOMY NOS
0529	OTHER SYMPATHECTOMY AND GANGLIONECTOMY	326	RADICAL DISSECTION OF THORACIC STRUCTURES
0780	THYMECTOMY, NOT OTHERWISE SPECIFIED	329	OTHER EXCISION OF LUNG
0781	OTHER PARTIAL EXCISION OF THYMUS	330	INCISION OF BRONCHUS
0782	OTHER TOTAL EXCISION OF THYMUS	331	INCISION OF LUNG
0783	THORACOSCOPIC PARTIAL EXCISION OF THYMUS	3320	THORACOSCOPC LUNG BIOPSY
0784	THORACOSCOPIC TOTAL EXCISION OF THYMUS	3325	OPEN BIOPSY OF BRONCHUS
3121	MEDIASTINAL TRACHEOSTOMY	3326	CLOSE [PERCUTANEOUS][NEEDLE] BIOPSY OF LUNG
3145	OPEN BIOPSY OF LARYNX OR TRACHEA	3327	CLOSED ENDOSCOPIC BIOPSY OF LUNG
3173	CLOSURE OF OTHER FISTULA OF TRACHEA	3328	OPEN BIOPSY OF LUNG
3179	OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA	3331	DESTRUCTION OF PHRENIC NERVE FOR COLLAPSE OF LUNG (NO LONGER PERFORMED)
3199	OTHER OPERATIONS ON TRACHEA	3332	ARTIFICIAL PNEUMOTHORAX FOR COLLAPSE OF LUNG
3209	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRONCHUS	3334	THORACOPLASTY
321	OTHER EXCISION OF BRONCHUS	3339	OTHER SURGICAL COLLAPSE OF LUNG
3220	THORAC EXC LUNG LESION	<hr/>	
<u>Local excision or destruction of lesion or tissue of lung</u>		<u>Repair and plastic operation on lung and bronchus</u>	
3221	PLICATION OF EMPHYSEMATIOUS BLEB	3341	SUTURE OF LACERATION OF BRONCHUS
3222	LUNG VOLUME REDUCTION SURGERY	3342	CLOSURE OF BRONCHIAL FISTULA
3223	OPEN ABLTN LUNG LES/TISS (OCT06)	3343	CLOSURE OF LACERATION OF LUNG
3224	PERC ABLTN LUNG LES/TISS (OCT06)	3348	OTHER REPAIR AND PLASTIC OPERATIONS ON BRONCHUS
3225	THOR ABLTN LUNG LES/TISS (OCT06)	3349	OTHER REPAIR AND PLASTIC OPERATIONS ON LUNG
3226	ABLTN LUNG TISS NEC/NOS (OCT06)	<hr/>	
3228	ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG	<u>Lung transplant</u>	
3229	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG	335	LUNG TRANSPLANTATION
323	SEGMENTAL RESECTION OF LUNG	3350	LUNG TRANSPLANTATION, NOS
3230	THORAC SEG LUNG RESECT	3351	UNILATERAL LUNG TRANSPLANTATION
3239	OTH SEG LUNG RESECT NOS	3352	BILATERAL LUNG TRANSPLANTATION
324	LOBECTOMY OF LUNG	336	COMBINED HEART-LUNG TRANSPLANTATION
3241	THORAC LOBECTOMY LUNG	3392	LIGATION OF BRONCHUS
3249	OTHER LOBECTOMY OF LUNG	3393	PUNCTURE OF LUNG
325	COMPLETE PNEUMONECTOMY	3398	OTHER OPERATIONS ON BRONCHUS
		3399	OTHER OPERATIONS ON LUNG
		3329	OTHER DIAGNOSTIC PROCEDURE ON LUNG AND BRONCHUS

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3333	PNEUMOPERITONEUM FOR COLLAPSE OF LUNG	4069	OTHER OPERATIONS ON THORACIC DUCT
3401	INCISION OF CHEST WALL	<hr/>	
3402	EXPLORATORY THORACOTOMY	Esophagotomy	
3403	REOPENING OF RECENT THORACOTOMY SITE	4201	INCISION OF ESOPHAGEAL WEB
3405	CREATION OF PLEUROPERITONEAL SHUNT	4209	OTHER INCISION OF ESOPHAGUS
3409	OTHER INCISION OF PLEURA	4210	ESOPHAGOSTOMY, NOS
341	INCISION OF MEDIASTINUM	4211	CERVICAL ESOPHAGOSTOMY
<hr/>		4212	EXTERIORIZATION OF ESOPHAGEAL POUCH
Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm		4219	OTHER EXTERNAL FISTULIZATION OF ESOPHAGUS
3420	THORACOSCOPIC PLEURAL BX	4221	OPERATIVE ESOPHAGOSCOPY BY INCISION
3421	TRANSPLEURAL THORACOSOCOPY	4225	OPEN BIOPSY OF ESOPHAGUS
3422	MEDIASTINOSCOPY	4231	LOCAL EXCISION OF ESOPHAGEAL DIVERTICULUM
3423	BIOPSY OF CHEST WALL	4232	LOCAL EXCISION OF OTHER LESION OR TISSUE OF ESOPHAGUS
3424	PLEURAL BIOPSY	<hr/>	
3425	CLOSED [PERCUTANEOUS][NEEDLE] BIOPSY OF MEDIASTINUM	Excision of esophagus	
3426	OPEN BIOPSY OF MEDIASTINUM	4239	OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS
3427	BIOPSY OF DIAPHRAGM	4240	ESOPHAGECTOMY, NOS
3428	OTHER DIAGNOSTIC PROCEDURES ON CHEST WALL, PLEURA, AND DIAPHRAGM	4241	PARTIAL ESOPHAGECTOMY
3429	OTHER DIAGNOSTIC PROCEDURES ON MEDIASTINUM	4242	TOTAL ESOPHAGECTOMY
343	EXCISION OR DESTRUCTION OF LESION OR TISSUE OF MEDIASTINUM	<hr/>	
344	EXCISION OR DESTRUCTION OF LESION OF CHEST WALL	Intrathoracic anastomosis of esophagus	
3451	DECORTICATION OF LUNG	4251	INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
3452	THORACOSCOPIC DECORT LUNG	4252	INTRATHORACIC ESOPHAGOGASTROSTOMY
3459	OTHER EXCISION OF PLEURA	4253	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
<hr/>		4254	OTHER INTRATHORACIC ESOPHAGOENTEROSTOMY
Repair of chest wall		4255	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON
3471	SUTURE OF LACERATION OF CHEST WALL	4256	OTHER INTRATHORACIC ESOPHAGOCOLOSTOMY
3472	CLOSURE OF THORACOSTOMY	4258	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ OTHER INTERPOSITION
3473	CLOSURE OF OTHER FISTULA OF THORAX	4259	OTHER INTRATHORACIC ANASTOMOSIS OF ESOPHAGUS
3474	REPAIR OF PECTUS DEFORMITY	<hr/>	
3479	OTHER REPAIR OF CHEST WALL	Antesternal anastomosis	
<hr/>		4261	ANTESTERNAL ESOPHAGOESOPHAGOSTOMY
Operations on diaphragm		4262	ANTESTERNAL ESOPHAGOGASTROSTOMY
3481	EXCISION OF LESION OR TISSUE OF DIAPHRAGM	4263	ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
3482	SUTURE OF LACERATION OF DIAPHRAGM	4264	OTHER ANTESTERNAL ESOPHAGOENTEROSTOMY
3483	CLOSURE OF FISTULA OF DIAPHRAGM	4265	ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON
3484	OTHER REPAIR OF DIAPHRAGM	4266	OTHER ANTESTERNAL ESOPHAGOCOLOSTOMY
3485	IMPLANTATION OF DIAPHRAGMATIC PACEMAKER	4268	OTHER ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION
3489	OTHER OPERATIONS ON DIAPHRAGM	<hr/>	
3493	REPAIR OF PLEURA	Operations on thoracic duct	
3499	OTHER OPERATIONS ON THORAX, OTHER	4061	CANNULATION OF THORACIC DUCT
<hr/>		4062	FISTULIZATION OF THORACIC DUCT
Operations on thoracic duct		4063	CLOSURE OF FISTULA OF THORACIC DUCT
4061	CANNULATION OF THORACIC DUCT	4064	LIGATION OF THORACIC DUCT
4062	FISTULIZATION OF THORACIC DUCT	<hr/>	
4063	CLOSURE OF FISTULA OF THORACIC DUCT		
4064	LIGATION OF THORACIC DUCT		

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4269	OTHER ANTESTERNAL ANASTOMOSIS OF ESOPHAGUS	4287	OTHER GRAFT OF ESOPHAGUS
		4289	OTHER REPAIR OF ESOPHAGUS
<u>Other repair of esophagus</u>		4465	ESOPHAGOGASTROPLASTY
427	ESOPHAGOMYOTOMY	4466	OTHER PROCEDURES FOR CREATION OF ESOPHAGOGASTRIC SPHINCTERIC COMPETENCE
4281	INSERTION OF PERMANENT TUBE INTO ESOPHAGUS	8104	DORSAL AND DORSO-LUMBAR FUSION, ANTERIOR TECHNIQUE
4282	SUTURE OF LACERATION OF ESOPHAGUS	8134	REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
4283	CLOSURE OF ESOPHAGOSTOMY		
4284	REPAIR OF ESOPHAGEAL FISTULA, NEC		
4285	REPAIR OF ESOPHAGEAL STRICTURE		
4286	PRODUCTION OF SUBCUTANEOUS TUNNEL W/O ESOPHAGEAL ANASTOMOSIS		
ICD-9-CM Lung or pleural biopsy procedure codes:			
3326	CLOSED [PERCUTANEOUS] [NEEDLE] BIOPSY OF LUNG	3424	PLEURAL BIOPSY
3328	OPEN BIOPSY OF LUNG		
ICD9-CM Diaphragmatic surgery repair codes:			
537	ABD REPAIR-DIAPHR HERNIA	5380	THOR REP-DIAPH HERN NOS
5371	LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08)	5381	DIAPHRAGMATIC PPLICATION
5372	OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH (OCT08)	5382	PARASTERN HERNIA REPAIR
5375	REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH, NOS (OCT08)	5583	LAPAROSCOPIC REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
		5584	OTHER AND OPEN REPAIR OF DIAPHRAGMATIC HERNIA, WITH THORACIC APPROACH (OCT08)
ICD9-CM Cardiac procedure codes:			
3510	OPEN HEART VALVULOPLASTY WITHOUT REPLACEMENT, UNSPECIFIED VALVE	3527	REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT
3511	OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT	3528	OTHER REPLACEMENT OF TRICUSPID VALVE
3512	OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT	3531	OPERATIONS ON PAPILLARY MUSCLE
3513	OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT	3532	OPERATIONS ON CHORDAE TENDINEAE
3514	OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT	3533	ANNULOPLASTY
3520	REPLACEMENT OF UNSPECIFIED HEART VALVE	3534	INFUNDIBULECTOMY
3521	REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT	3535	OPERATIONS ON TRABECULAE CARNEAE CORDIS
3522	OTHER REPLACEMENT OF AORTIC VALVE	3539	OPERATIONS ON OTHER STRUCTURES ADJACENT TO VALVES OF HEART
3523	REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT	3550	REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS
3524	OTHER REPLACEMENT OF MITRAL VALVE	3551	REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
3525	REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT	3553	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
3526	OTHER REPLACEMENT OF PULMONARY VALVE	3554	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS
		3560	REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH TISSUE GRAFT
		3561	REPAIR OF ATRIAL SEPTAL DEFECT WITH TISSUE GRAFT
		3562	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT
		3563	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT

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3570	OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART	3691	REPAIR OF ANEURYSM OF CORONARY VESSEL
3571	OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT	3699	OTHER OPERATIONS ON VESSELS OF HEART
3572	OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT	370	PERICARDIOCENTESIS
3573	OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT	3710	INCISION OF HEART, NOT OTHERWISE SPECIFIED
3581	TOTAL REPAIR OF TETRALOGY OF FALLOT	3711	CARDIOTOMY
3582	TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION	3712	PERICARDIOTOMY
3583	TOTAL REPAIR OF TRUNCUS ARTERIOSUS	3731	PERICARDIECTOMY
3584	TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED	3732	EXCISION OF ANEURYSM OF HEART
3591	INTERATRIAL TRANSPOSITION OF VENOUS RETURN	3733	EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
3592	CREATION OF CONDUIT BETWEEN RIGHT VENTRICLE AND PULMONARY ARTERY	3735	PARTIAL VENTRICULECTOMY
3593	CREATION OF CONDUIT BETWEEN LEFT VENTRICLE AND AORTA	3736	EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) (OCT08)
3594	CREATION OF CONDUIT BETWEEN ATRIUM AND PULMONARY ARTERY	3741	IMPLANTATION OF PROSTHETIC CARDIAC SUPPORT DEVICE AROUND THE HEART
3595	REVISION OF CORRECTIVE PROCEDURE ON HEART	3749	OTHER REPAIR OF HEART AND PERICARDIUM
3598	OTHER OPERATIONS ON SEPTA OF HEART	3751	HEART TRANSPLANTATION
3599	OTHER OPERATIONS ON VALVES OF HEART	3752	IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
3603	OPEN CHEST CORONARY ARTERY ANGIOPLASTY	3753	REPLACEMENT OF REPAIR OF THORACIC UNIT OF TOTAL REPLACEMENT HEART SYSTEM
3610	AORTOCORONARY BYPASS FOR HEART REVASCULARIZATION, NOT OTHERWISE SPECIFIED	3754	REPLACEMENT OR REPAIR OF OTHER IMPLANTABLE COMPONENT OF TOTAL REPLACEMENT HEART SYSTEM
3611	(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY	3755	REMOVAL OF INTERNAL BIVENTRICULAR HEART REPLACEMENT SYSTEM (OCT08)
3612	(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES	3760	IMPLANTATION OR INSERTION OF BIVENTRICULAR EXTERNAL HEART ASSIST SYSTEM (OCT08)
3613	(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES	3761	IMPLANT OF PULSATION BALLOON
3614	(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES	3762	INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM
3615	SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	3763	REPAIR OF HEART ASSIST SYSTEM
3616	DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	3764	REMOVAL OF HEART ASSIST SYSTEM
3617	ABDOMINAL -CORONARY ARTERY BYPASS	3765	IMPLANT OF EXTERNAL HEART ASSIST SYSTEM
3619	OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION	3766	INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM
362	HEART REVASCULARIZATION BY ARTERIAL IMPLANT	3767	IMPLANTATION OF CARDIOMYOSTIMULATION SYSTEM
3631	OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION	3791	OPEN CHEST CARDIAC MASSAGE
3632	OTHER TRANSMYOCARDIAL REVASCULARIZATION	3804	INCISION OF VESSEL, AORTA
3639	OTHER HEART REVASCULARIZATION	3805	INCISION OF VESSEL, OTHER THORACIC
		3844	RESECTION OF ABDOMINAL AORTA WITH GRAFT REPLACEMENT
		3845	RESECTION OF THORACIC VESSEL WITH GRAFT REPLACEMENT
		3864	EXCISION OF LESION OF AORTA
		3865	EXCISION OF LESION OTHER THORACIC VESSEL
		3884	LIGATION, DIVISION OF AORTA

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3885	LIGATION, DIVISION OF OTHER THORACIC VESSELS	3922	AORTA-SUBCLAVIAN-CAROTID BYPASS
390	SYSTEMIC TO PULMONARY ARTERY SHUNT	3923	OTHER INTRATHORACIC VASCULAR SHUNT OR BYPASS
3921	CAVAL-PULMONARY ARTERY ANASTOMOSIS		