

Iatrogenic Pneumothorax Rate

Pediatric Quality Indicators #5

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 of iatrogenic pneumothorax in any secondary diagnosis field.

ICD-9-CM Iatrogenic pneumothorax diagnosis code:

5121 IATROGENIC PNEUMOTHORAX

Denominator

All surgical and medical discharges under age 18 defined by specific DRGs or MS-DRGs.

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

Exclude cases:

- neonates with birth weight less than 2500 grams (Birth Weight Category 1-8)
- with principal diagnosis of iatrogenic pneumothorax or secondary diagnosis present on admission
- with any diagnosis code of chest trauma or pleural effusion
- with an ICD-9-CM procedure 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)

See *Pediatric Quality Indicators Appendices*:

- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix L- Low Birth Weight Categories

ICD-9-CM Chest trauma diagnosis codes:

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

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80714	FRACTURE FOUR RIBS-OPEN	8628	INTRATHORACIC INJ NOS-CL
80715	FRACTURE FIVE RIBS-OPEN	8629	INTRATHORAC INJ NOS-OPEN
80716	FRACTURE SIX RIBS-OPEN	8750	OPEN WOUND OF CHEST
80717	FRACTURE SEVEN RIBS-OPEN	8751	OPEN WOUND CHEST-COMPL
80718	FX EIGHT/MORE RIBS-OPEN	8760	OPEN WOUND OF BACK
80719	FX MULT RIBS NOS-OPEN	8761	OPEN WOUND BACK-COMPL
8072	FRACTURE OF STERNUM-CLOS	9010	INJURY THORACIC AORTA
8073	FRACTURE OF STERNUM-OPEN	9011	INJ INNOMIN/SUBCLAV ART
8074	FLAIL CHEST	9012	INJ SUPERIOR VENA CAVA
8075	FX LARYNX/TRACHEA-CLOSED	9013	INJ INNOMIN/SUBCLAV VEIN
8076	FX LARYNX/TRACHEA-OPEN	90140	INJ PULMONARY VESSEL NOS
8090	FRACTURE TRUNK BONE-CLOS	90141	INJURY PULMONARY ARTERY
8091	FRACTURE TRUNK BONE-OPEN	90142	INJURY PULMONARY VEIN
8600	TRAUM PNEUMOTHORAX-CLOSE	90181	INJ INTERCOSTAL ART/VEIN
8601	TRAUM PNEUMOTHORAX-OPEN	90182	INJ INT MAMMARY ART/VEIN
8602	TRAUM HEMOTHORAX-CLOSED	90183	INJ MULT THORACIC VESSEL
8603	TRAUM HEMOTHORAX-OPEN	90189	INJ THORACIC VESSEL NEC
8604	TRAUM PNEUMOHEMOTHOR-CL	9019	INJ THORACIC VESSEL NOS
8605	TRAUM PNEUMOHEMOTHOR-OPN	9110	ABRASION TRUNK
86100	HEART INJURY NOS-CLOSED	9111	ABRASION TRUNK-INFECTED
86101	HEART CONTUSION-CLOSED	9118	SUPERFIC INJU TRUNK NEC
86102	HEART LACERATION-CLOSED	9119	SUPERFIC INJU TRUNK NEC-INF
86103	HEART CHAMBER LACERAT-CL	9220	CONTUSION OF BREAST
86110	HEART INJURY NOS-OPEN	9221	CONTUSION OF CHEST WALL
86111	HEART CONTUSION-OPEN	9223	BACK CONTUSION
86112	HEART LACERATION-OPEN	92231	BACK CONTUSION
86113	HEART CHAMBER LACER-OPN	92233	INTERSCPLR REG CONTUSION
86120	LUNG INJURY NOS-CLOSED	9228	MULIPLE CONTUSION TRUNK
86121	LUNG CONTUSION-CLOSED	9229	CONTUSION OF TRUNK
86122	LUNG LACERATION-CLOSED	92611	CRUSHING INJURY BACK
86130	LUNG INJURY NOS-OPEN	92619	CRUSHING INJ TRUNK NEC
86131	LUNG CONTUSION-OPEN	9268	MULT CRUSHING INJ TRUNK
86132	LUNG LACERATION-OPEN	9269	CRUSHING INJ TRUNK NOS
8620	DIAPHRAGM INJURY-CLOSED	9290	CRUSH INJ MULT SITE NEC
8621	DIAPHRAGM INJURY-OPEN	9299	CRUSHING INJURY NOS
86221	BRONCHUS INJURY-CLOSED	9541	INJ SYMPA NERVE NEC
86222	ESOPHAGUS INJURY-CLOSED	9548	INJURY TRUNK NERVE NEC
86229	INTRATHORACIC INJ NEC-CL	9549	INJURY TRUNK NERVE NOS
86231	BRONCHUS INJURY-OPEN	95911	INJURY OF CHEST WALL NEC
86232	ESOPHAGUS INJURY-OPEN	95919	TRUNK INJURY-SITES NEC
86239	INTRATHORAC INJ NEC-OPEN	9599	INJURY-SITE NOS
ICD-9-CM Pleural effusion diagnosis codes:			
0101	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS	01016	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
01010	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED	0117	TUBRCULOUS PNEUMOTHORAX
01011	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	01170	TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED
01012	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	01171	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE
01013	TPIPPT, TUBERCLE BACILI FOUND BY MICROSCOPY	01172	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN
01014	TPIPPT, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	01173	TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY
01015	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY	01174	TPNEU, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE

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01175	TPNEU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY	01205	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
01176	TPENU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS	01206	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
0120	TUBERCULOUS PLEURISY	1972	SECOND MALIG NEO PLEURA
01200	TUBERCULOUS PLEURISY, UNSPECIFIED	5111	WITH EFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN TUBERCULOSIS
01201	TP, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	5118	OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS
01202	TP, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	51181	MALIGNANT PLEURAL EFFUSION (OCT08)
01203	TP, TUBERCLE BACILI FOUND BY MICROSCOPY	51189	OTHER SPECIFIED FORMS OF EFFUSION, EXCEPT TUBERCULOSIS (OCT08)
01204	TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	5119	UNSPECIFIED PLEURAL EFFUSION

ICD-9-CM Thoracic surgery procedure codes:

0522	SYMPATHECTOMY CERVICAL	3239	OTH SEG LUNG RESECT NOS
0523	SYMPATHECTOMY LUMBAR	324	LOBECTOMY OF LUNG
0529	OTHER SYMPATHECTOMY AND GANGLIONECTOMY	3241	THORAC LOBECTOMY LUNG
0780	THYMECTOMY, NOT OTHERWISE SPECIFIED	3249	OTHER LOBECTOMY OF LUNG
0781	OTHER PARTIAL EXCISION OF THYMUS	325	COMPLETE PNEUMONECTOMY
0782	OTHER TOTAL EXCISION OF THYMUS	3250	THORACOSPC PNEUMONECTOMY
0783	THORACOSCOPIC PARTIAL EXCISION OF THYMUS	3259	OTHER PNEUMONECTOMY NOS
0784	THORACOSCOPIC TOTAL EXCISION OF THYMUS	326	RADICAL DISSECTION OF THORACIC STRUCTURES
3121	MEDIASTINAL TRACHEOSTOMY	329	OTHER EXCISION OF LUNG
3145	OPEN BIOPSY OF LARYNX OR TRACHEA	330	INCISION OF BRONCHUS
3173	CLOSURE OF OTHER FISTULA OF TRACHEA	331	INCISION OF LUNG
3179	OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA	3320	THORACOSCOPC LUNG BIOPSY
3199	OTHER OPERATIONS ON TRACHEA	3325	OPEN BIOPSY OF BRONCHUS
3209	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRONCHUS	3327	CLOSED ENDOSCOPIC BIOPSY OF LUNG
321	OTHER EXCISION OF BRONCHUS	3328	OPEN BIOPSY OF LUNG
3220	THORAC EXC LUNG LESION	3331	DESTRUCTION OF PHRENIC NERVE FOR COLLAPSE OF LUNG (NO LONGER PERFORMED)
<hr/>		3332	ARTIFICIAL PNEUMOTHORAX FOR COLLAPSE OF LUNG
Local excision or destruction of lesion or tissue of lung		3334	THORACOPLASTY
3221	PLICATION OF EMPHYSEMATIOUS BLEB	3339	OTHER SURGICAL COLLAPSE OF LUNG
3222	LUNG VOLUME REDUCTION SURGERY	<hr/>	
3223	OPEN ABLTN LUNG LES/TISS (OCT06)	Repair and plastic operation on lung and bronchus	
3224	PERC ABLTN LUNG LES/TISS (OCT06)	3341	SUTURE OF LACERATION OF BRONCHUS
3225	THOR ABLTN LUNG LES/TISS (OCT06)	3342	CLOSURE OF BRONCHIAL FISTULA
3226	ABLTN LUNG TISS NEC/NOS (OCT06)	3343	CLOSURE OF LACERATION OF LUNG
3227	BRNC THRMPPLSTY, ABLT MSCL	3348	OTHER REPAIR AND PLASTIC OPERATIONS ON BRONCHUS
3228	ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG	3349	OTHER REPAIR AND PLASTIC OPERATIONS ON LUNG
3229	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG	<hr/>	
323	SEGMENTAL RESECTION OF LUNG	Lung transplant	
3230	THORAC SEG LUNG RESECT	335	LUNG TRANSPLANTATION
		3350	LUNG TRANSPLANTATION, NOS
		3351	UNILATERAL LUNG TRANSPLANTATION
		3352	BILATERAL LUNG TRANSPLANTATION
		336	COMBINED HEART-LUNG TRANSPLANTATION

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3392	LIGATION OF BRONCHUS	4062	FISTULIZATION OF THORACIC DUCT
3393	PUNCTURE OF LUNG	4063	CLOSURE OF FISTULA OF THORACIC DUCT
3398	OTHER OPERATIONS ON BRONCHUS		
3399	OTHER OPERATIONS ON LUNG	4064	LIGATION OF THORACIC DUCT
3329	OTHER DIAGNOSTIC PROCEDURE ON LUNG AND BRONCHUS	4069	OTHER OPERATIONS ON THORACIC DUCT
3333	PNEUMOPERITONEUM FOR COLLAPSE OF LUNG		
3401	INCISION OF CHEST WALL		
3402	EXPLORATORY THORACOTOMY		
3403	REOPENING OF RECENT THORACOTOMY SITE		
3405	CREATION OF PLEUROPERITONEAL SHUNT		
3409	OTHER INCISION OF PLEURA		
341	INCISION OF MEDIASTINUM		
Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm		Esophagotomy	
3420	THORACOSCOPIC PLEURAL BX	4201	INCISION OF ESOPHAGEAL WEB
3421	TRANSPLEURAL THORACOSCOPY	4209	OTHER INCISION OF ESOPHAGUS
3422	MEDIASTINOSCOPY	4210	ESOPHAGOSTOMY, NOS
3423	BIOPSY OF CHEST WALL	4211	CERVICAL ESOPHAGOSTOMY
3425	CLOSED [PERCUTANEOUS][NEEDLE] BIOPSY OF MEDIASTINUM	4212	EXTERIORIZATION OF ESOPHAGEAL POUCH
3426	OPEN BIOPSY OF MEDIASTINUM	4219	OTHER EXTERNAL FISTULIZATION OF ESOPHAGUS
3427	BIOPSY OF DIAPHRAGM	4221	OPERATIVE ESOPHAGOSCOPY BY INCISION
3428	OTHER DIAGNOSTIC PROCEDURES ON CHEST WALL, PLEURA, AND DIAPHRAGM	4225	OPEN BIOPSY OF ESOPHAGUS
3429	OTHER DIAGNOSTIC PROCEDURES ON MEDIASTINUM	4231	LOCAL EXCISION OF ESOPHAGEAL DIVERTICULUM
343	EXCISION OR DESTRUCTION OF LESION OR TISSUE OF MEDIASTINUM	4232	LOCAL EXCISION OF OTHER LESION OR TISSUE OF ESOPHAGUS
344	EXCISION OR DESTRUCTION OF LESION OF CHEST WALL		
3451	DECORTICATION OF LUNG		
3452	THORACOSCOPIC DECORT LUNG		
3459	OTHER EXCISION OF PLEURA		
Repair of chest wall		Excision of esophagus	
3471	SUTURE OF LACERATION OF CHEST WALL	4239	OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS
3472	CLOSURE OF THORACOSTOMY	4240	ESOPHAGECTOMY, NOS
3473	CLOSURE OF OTHER FISTULA OF THORAX	4241	PARTIAL ESOPHAGECTOMY
3474	REPAIR OF PECTUS DEFORMITY	4242	TOTAL ESOPHAGECTOMY
3479	OTHER REPAIR OF CHEST WALL		
Operations on diaphragm		Intrathoracic anastomosis of exophagus	
3481	EXCISION OF LESION OR TISSUE OF DIAPHRAGM	4251	INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
3482	SUTURE OF LACERATION OF DIAPHRAGM	4252	INTRATHORACIC ESOPHAGOGASTROSTOMY
3483	CLOSURE OF FISTULA OF DIAPHRAGM	4253	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
3484	OTHER REPAIR OF DIAPHRAGM	4254	OTHER INTRATHORACIC ESOPHAGOENTEROSTOMY
3485	IMPLANTATION OF DIAPHRAGMATIC PACEMAKER	4255	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON
3489	OTHER OPERATIONS ON DIAPHRAGM	4256	OTHER INTRATHORACIC ESOPHAGOCOLOSTOMY
3493	REPAIR OF PLEURA	4258	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS W/ OTHER INTERPOSITION
3499	OTHER OPERATIONS ON THORAX, OTHER	4259	OTHER INTRATHORACIC ANASTOMOSIS OF ESOPHAGUS
Operations on thoracic duct		Antesternal anastomosis	
4061	CANNULATION OF THORACIC DUCT	4261	ANTESTERNAL ESOPHAGOESOPHAGOSTOMY
		4262	ANTESTERNAL ESOPHAGOGASTROSTOMY
		4263	ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF SMALL BOWEL
		4264	OTHER ANTESTERNAL ESOPHAGOENTEROSTOMY
		4265	ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION OF COLON

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4266	OTHER ANTESTERNAL ESOPHAGOCOLOSTOMY	4287	OTHER GRAFT OF ESOPHAGUS
4268	OTHER ANTESTERNAL ESOPHAGEAL ANASTOMOSIS W/ INTERPOSITION	4289	OTHER REPAIR OF ESOPHAGUS
4269	OTHER ANTESTERNAL ANASTOMOSIS OF ESOPHAGUS	435	PROXIMAL GASTRECTOMY
<hr/>		4399	TOTAL GASTRECTOMY NEC
Other repair of esophagus		4465	ESOPHAGOGASTROPLASTY
427	ESOPHAGOMYOTOMY	4466	OTHER PROCEDURES FOR CREATION OF ESOPHAGOGASTRIC SPHINCTERIC COMPETENCE
4281	INSERTION OF PERMANENT TUBE INTO ESOPHAGUS	4467	LAP CREAT ESOPH SPHINCT
4282	SUTURE OF LACERATION OF ESOPHAGUS	7781	OTH CHEST CAGE OSTECTOMY
4283	CLOSURE OF ESOPHAGOSTOMY	7791	TOT CHEST CAGE OSTECTOMY
4284	REPAIR OF ESOPHAGEAL FISTULA, NEC	8104	DORSAL AND DORSO-LUMBAR FUSION, ANTERIOR TECHNIQUE
4285	REPAIR OF ESOPHAGEAL STRICTURE	8134	REFUSION OF DORSAL AND DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
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	3328	OPEN BIOPSY OF LUNG
		3424	PLEURAL BIOPSY
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 PLICATION
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	3526	OTHER REPLACEMENT OF PULMONARY VALVE
3511	OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT	3527	REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT
3512	OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT	3528	OTHER REPLACEMENT OF TRICUSPID VALVE
3513	OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT	3531	OPERATIONS ON PAPILLARY MUSCLE
3514	OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT	3532	OPERATIONS ON CHORDAE TENDINEAE
3520	REPLACEMENT OF UNSPECIFIED HEART VALVE	3533	ANNULOPLASTY
3521	REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT	3534	INFUNDIBULECTOMY
3522	OTHER REPLACEMENT OF AORTIC VALVE	3535	OPERATIONS ON TRABECULAE CARNEAE CORDIS
3523	REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT	3539	OPERATIONS ON OTHER STRUCTURES ADJACENT TO VALVES OF HEART
3524	OTHER REPLACEMENT OF MITRAL VALVE	3550	REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS
3525	REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT	3551	REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
		3553	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE
		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

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3562	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT	3631	OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION
3563	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT	3632	OTHER TRANSMYOCARDIAL REVASCULARIZATION
3570	OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART	3639	OTHER HEART REVASCULARIZATION
3571	OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT	3691	REPAIR OF ANEURYSM OF CORONARY VESSEL
3572	OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT	3699	OTHER OPERATIONS ON VESSELS OF HEART
3573	OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT	370	PERICARDIOCENTESIS
3581	TOTAL REPAIR OF TETRALOGY OF FALLOT	3710	INCISION OF HEART, NOT OTHERWISE SPECIFIED
3582	TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION	3711	CARDIOTOMY
3583	TOTAL REPAIR OF TRUNCUS ARTERIOSUS	3712	PERICARDIOTOMY
3584	TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED	3731	PERICARDIECTOMY
3591	INTERATRIAL TRANSPOSITION OF VENOUS RETURN	3732	EXCISION OF ANEURYSM OF HEART
3592	CREATION OF CONDUIT BETWEEN RIGHT VENTRICLE AND PULMONARY ARTERY	3733	EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
3593	CREATION OF CONDUIT BETWEEN LEFT VENTRICLE AND AORTA	3735	PARTIAL VENTRICULECTOMY
3594	CREATION OF CONDUIT BETWEEN ATRIUM AND PULMONARY ARTERY	3736	EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) (OCT08)
3595	REVISION OF CORRECTIVE PROCEDURE ON HEART	3737	EXC/DEST HRT LES, THRSPC
3597	PERC MTRL VLV REPR W IMP	3741	IMPLANTATION OF PROSTHETIC CARDIAC SUPPORT DEVICE AROUND THE HEART
3598	OTHER OPERATIONS ON SEPTA OF HEART	3749	OTHER REPAIR OF HEART AND PERICARDIUM
3599	OTHER OPERATIONS ON VALVES OF HEART	3751	HEART TRANSPLANTATION
3603	OPEN CHEST CORONARY ARTERY ANGIOPLASTY	3752	IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
3610	AORTOCORONARY BYPASS FOR HEART REVASCULARIZATION, NOT OTHERWISE SPECIFIED	3753	REPLACEMENT OF REPAIR OF THORACIC UNIT OF TOTAL REPLACEMENT HEART SYSTEM
3611	(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY	3754	REPLACEMENT OR REPAIR OF OTHER IMPLANTABLE COMPONENT OF TOTAL REPLACEMENT HEART SYSTEM
3612	(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES	3755	REMOVAL OF INTERNAL BIVENTRICULAR HEART REPLACEMENT SYSTEM (OCT08)
3613	(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES	3760	IMPLANTATION OR INSERTION OF BIVENTRICULAR EXTERNAL HEART ASSIST SYSTEM (OCT08)
3614	(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES	3761	IMPLANT OF PULSATION BALLOON
3615	SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	3762	INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM
3616	DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	3763	REPAIR OF HEART ASSIST SYSTEM
3617	ABDOMINAL -CORONARY ARTERY BYPASS	3764	REMOVAL OF HEART ASSIST SYSTEM
3619	OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION	3765	IMPLANT OF EXTERNAL HEART ASSIST SYSTEM
362	HEART REVASCULARIZATION BY ARTERIAL IMPLANT	3766	INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM
		3767	IMPLANTATION OF CARDIOMYOSTIMULATION SYSTEM
		3791	OPEN CHEST CARDIAC MASSAGE
		3804	INCISION OF VESSEL, AORTA
		3805	INCISION OF VESSEL, OTHER THORACIC
		3844	RESECTION OF ABDOMINAL AORTA WITH GRAFT REPLACEMENT

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3845	RESECTION OF THORACIC VESSEL WITH GRAFT REPLACEMENT	390	SYSTEMIC TO PULMONARY ARTERY SHUNT
3864	EXCISION OF LESION OF AORTA	3921	CAVAL-PULMONARY ARTERY ANASTOMOSIS
3865	EXCISION OF LESION OTHER THORACIC VESSEL	3922	AORTA-SUBCLAVIAN-CAROTID BYPASS
3884	LIGATION, DIVISION OF AORTA	3923	OTHER INTRATHORACIC VASCULAR SHUNT OR BYPASS
3885	LIGATION, DIVISION OF OTHER THORACIC VESSELS		