Iatrogenic Pneumothorax Rate Technical Specifications

Patient Safety Indicators 06 (PSI 06)

AHRQ Quality Indicators™, Version 5.0

March 2015

Provider-Level Indicator

Type of Score: Rate

Description

Iatrogenic pneumothorax cases (secondary diagnosis) per 1,000 surgical and medical discharges for patients ages 18 years and older. Excludes cases with chest trauma, pleural effusion, thoracic surgery, lung or pleural biopsy, diaphragmatic repair, or cardiac procedures; cases with a principal diagnosis of iatrogenic pneumothorax; cases with a secondary diagnosis of iatrogenic pneumothorax present on admission; and obstetric cases.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report events per 1,000 hospital discharges.]

Numerator

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

ICD-9-CM latrogenic pneumothorax diagnosis code:

5121 IATROGENIC PNEUMOTHORAX

Denominator

Surgical and medical discharges, for patients ages 18 years and older. Surgical and medical discharges are defined by specific DRG or MS-DRG codes.

See Patient Safety Indicators Appendices:

- Appendix B Medical Discharge DRGs
- Appendix C Medical Discharge MS-DRGs
- Appendix D Surgical Discharge DRGs
- Appendix E Surgical Discharge MS-DRGs

Exclude cases:

• with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission)

for iatrogenic pneumothorax (see above)

- with any-listed ICD-9-CM diagnosis codes for chest trauma
- with any-listed ICD-9-CM diagnosis codes for pleural effusion
- with any-listed ICD-9-CM procedure codes for thoracic surgery
- with any-listed ICD-9-CM procedure codes for lung or pleural biopsy
- with any-listed ICD-9-CM procedure codes for diaphragmatic repair
- with any-listed ICD-9-CM procedure codes for cardiac procedure
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

ICD-9-CM Chest trauma diagnosis codes:

	9		
80700	FRACTURE RIB NOS-CLOSED	8621	DIAPHRAGM INJURY-OPEN
80701		86221	BRONCHUS INJURY-CLOSED
80702		86222	ESOPHAGUS INJURY-CLOSED
80703		86229	INTRATHORACIC INJ NEC-CL
80704		86231	BRONCHUS INJURY-OPEN
80705		86232	ESOPHAGUS INJURY-OPEN
80706		86239	INTRATHORAC INJ NEC-OPEN
80707		8628	INTRATHORACIC INJ NOS-CL
80708		8629	INTRATHORAC INJ NOS-OPEN
80709		8750	OPEN WOUND OF CHEST
80710		8751	OPEN WOUND CHEST-COMPL
80711		8760	OPEN WOUND OF BACK
80712		8761	OPEN WOUND BACK-COMPL
80713		9010	INJURY THORACIC AORTA
80714		9011	INJ INNOMIN/SUBCLAV ART
80715		9012	INJ SUPERIOR VENA CAVA
80716		9013	INJ INNOMIN/SUBCLAV VEIN
80717		90140	INJ PULMONARY VESSEL NOS
80718		90141	INJURY PULMONARY ARTERY
80719		90142	INJURY PULMONARY VEIN
8072	FRACTURE OF STERNUM-CLOS	90181	INJ INTERCOSTAL ART/VEIN
8073	FRACTURE OF STERNUM-OPEN	90182	INJ INT MAMMARY ART/VEIN
8074	FLAIL CHEST	90183	INJ MULT THORACIC VESSEL
8075	FX LARYNX/TRACHEA-CLOSED	90189	INJ THORACIC VESSEL NEC
8076	FX LARYNX/TRACHEA-OPEN	9019	INJ THORACIC VESSEL NOS
8090	FRACTURE TRUNK BONE-CLOS	9110	ABRASION TRUNK
8091	FRACTURE TRUNK BONE-OPEN	9111	ABRASION TRUNK-INFECTED
8600	TRAUM PNEUMOTHORAX-CLOSE	9118	SUPERFIC INJU TRUNK NEC
8601	TRAUM PNEUMOTHORAX-OPEN	9119	SUPERFIC INJU TRUNK NEC-INF
8602	TRAUM HEMOTHORAX-CLOSED	9220	CONTUSION OF BREAST
8603	TRAUM HEMOTHORAX-OPEN	9221	CONTUSION OF CHEST WALL
8604	TRAUM PNEUMOHEMOTHOR-CL	9223	BACK CONTUSION
8605	TRAUM PNEUMOHEMOTHOR-OPN	92231	BACK CONTUSION
86100		92233	INTERSCPLR REG CONTUSION
86101		9228	MULIPLE CONTUSION TRUNK
86102		9229	CONTUSION OF TRUNK
86103		92611	CRUSHING INJURY BACK
86110		92619	CRUSHING INJ TRUNK NEC
86111		9268	MULT CRUSHING INJ TRUNK
86112		9269	CRUSHING INJ TRUNK NOS
86113		9290	CRUSH INJ MULT SITE NEC
86120		9299	CRUSHING INJURY NOS
86121		9299 9541	INJ SYMPA NERVE NEC
86122		9541 9548	INJURY TRUNK NERVE NEC
86130		9546 9549	INJURY TRUNK NERVE NEC
00130	LONG INJUNT INCO-OPEN	3043	INJURI IRUNK NERVE NUS

86131 86132 8620		95911 95919 9599	INJURY OF CHEST WALL NEC TRUNK INJURY-SITES NEC INJURY-SITE NOS	
1 CD-9-C 0101	M Pleural effusion diagnosis codes: TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS	01176	TPENU, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL BUT CONFIRMED	
01010	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED	0120	OTHER METHODS TUBERCULOUS PLEURISY	
01011	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	01200	TUBERCULOUS PLEURISY, UNSPECIFIED	
01012	TPIPPT, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	01201	TP, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	
01013	TPIPPT, TUBERCLE BACILI FOUND BY MICROSCOPY	01202	TP, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	
01014	TPIPPT, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	01203	TP, TUBERCLE BACILI FOUND BY MICROSCOPY	
01015	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT	01204	TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL	
01016	CONFIRMED HISTOLOGICALLY TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR	01205	CULTURE TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED	
0117	HISTOLOGICAL BUT CONFIRMED OTHER METHODS TUBRCULOUS PNEUMOTHORAX	01206	HISTOLOGICALLY TP, TUBERCLE BACILI NOT FOUND BY BACTERILOGICAL OR HISTOLOGICAL	
01170	TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED	1972	BUT CONFIRMED OTHER METHODS SECOND MALIG NEO PLEURA	
01171	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	5111	WITH EFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN	
01172	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	5118	TUBERCULOSIS OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS	
01173	TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY	51181	MALIGNANT PLEURAL EFFUSN	
01174	TPNEU, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE	51189	EFFUSION NEC EXC TB	
01175	TPNEU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY	5119	UNSPECIFIED PLEURAL EFFUSION	
ICD 0 CM Theresis surgery presedings and as:				
0522	M Thoracic surgery procedure codes: CERVICAL SYMPATHECTOMY	3428	OTHER DIAGNOSTIC PROCEDURES ON CHEST WALL, PLEURA, AND DIAPHRAGM	
0523	LUMBAR SYMPATHECTOMY	3429	OTHER DIAGNOSTIC PROCEDURES ON MEDIASTINUM	
0529	OTHER SYMPATHECTOMY	343	EXCISION OR DESTRUCTION OF LESION OR TISSUE OF MEDIASTINUM	
0780	THYMECTOMY NOS	344	EXCISION OR DESTRUCTION OF LESION OF CHEST WALL	
0781	OTH PART EXCISION THYMUS	3451	DECORTICATION OF LUNG	
0782	OTH TOTL EXCISION THYMUS	3452	THORACOSCOPC DECORT LUNG	
0783	THORAC PART EXISN THYMUS	3459	OTHER EXCISION OF PLEURA	
0784	THORAC TOTAL EXC THYMUS	3471	SUTURE OF LACERATION OF CHEST WALL	
3121	MEDIASTINAL TRACHEOSTOMY	3472	CLOSURE OF THORACOSTOMY	

3145	OPEN BIOPSY OF LARYNX OR TRACHEA	3473	CLOSURE OF OTHER FISTULA OF THORAX
3173	CLOSURE OF OTHER FISTULA OF TRACHEA	3474	REPAIR OF PECTUS DEFORMITY
3179	OTHER REPAIR AND PLASTIC	3479	OTHER REPAIR OF CHEST WALL
3199	OPERATIONS ON TRACHEA OTHER OPERATIONS ON TRACHEA	3481	EXCISION OF LESION OR TISSUE OF
3209	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE	3482	DIAPHRAGM SUTURE OF LACERATION OF DIAPHRAGM
321	OF BRONCHUS OTHER EXCISION OF BRONCHUS	3483	CLOSURE OF FISTULA OF DIAPHRAGM
3220 3221	THORAC EXC LUNG LESION PLICATION OF EMPHYSEMATIOUS BLEB	3484 3485	OTHER REPAIR OF DIAPHRAGM IMPLANTATION OF DIAPHRAGMATIC PACEMAKER
3222 3223	LUNG VOLUME REDUCTION SURGERY OPEN ABLTN LUNG LES/TISS	3489 3493	OTHER OPERATIONS ON DIAPHRAGM REPAIR OF PLEURA
3224	PERC ABLTN LUNG LES/TISS	3499	OTHER
3225	THOR ABLTN LUNG LES/TISS	4061	CANNULATION OF THORACIC DUCT
3226	ABLTN LUNG TISS NEC/NOS	4062	FISTULIZATION OF THORACIC DUCT
3227	BRNC THRMPLSTY, ABLT MSCL	4063	CLOSURE OF FISTULA OF THORACIC
3228	ENDOSCOPIC EXCISION OR	4064	LIGATION OF THORACIC DUCT
	DETRUCTION OF LESION OR TISSUE OF LUNG		
3229	OTHER LOCAL EXCISION OR	4069	OTHER OPERATIONS ON THORACIC
	DESTRUCTION OF LESION OR TISSUE OF LUNG		DUCT
323	SEGMENTAL RESECTION OF LUNG	4201	INCISION OF ESOPHAGEAL WEB
3230	THORAC SEG LUNG RESECT	4209	OTHER INCISION OF EXOPHAGUS
3239	OTH SEG LUNG RESECT NOS	4210	ESOPHAGOSTOMY, NOS
324	LOBECTOMY OF LUNG	4211	CERVICAL ESOPHAGOSTOMY
3241	THORAC LOBECTOMY LUNG	4212	EXTERIORIZATION OF ESOPHAGEAL POUCH
3249	LOBECTOMY OF LUNG NEC	4219	OTHER EXTERNAL FISTULIZATION OF ESOPHAGUS
325	COMPLETE PNEUMONECTOMY	4221	OPERATIVE ESOPHAGOSCOPY BY INCISION
3250	THORACOSPC PNEUMONECTOMY	4225	OPEN BIOPSY OF ESOPHAGUS
3259	OTHER PNEUMONECTOMY NOS	4231	LOCAL EXCISION OF ESOPHAGEAL
0_00			DIVERTICULUM
326	RADICAL DISSECTION OF THORACIC	4232	LOCAL EXCISION OF OTHER LESION OR
020	STRUCTURES	7202	TISSUE OF ESOPHAGUS
329	OTHER EXCISION OF LUNG	4239	OTHER DESTRUCTION OF LESION OR
329	OTHER EXCISION OF LUNG	4239	TISSUE OF ESOPHAGUS
330	INCISION OF BRONCHUS	4240	ESOPHAGECTOMY, NOS
		4240	·
331	INCISION OF LUNG		PARTIAL ESOPHAGECTOMY
3320	THORACOSCOPC LUNG BIOPSY	4242	TOTAL ESOPHAGECTOMY
3325	OPEN BIOPSY OF BRONCHUS	4251	INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
3327	CLOSED ENDOSCOPIC BIOPSY OF	4252	INTRATHORACIC
3321	LUNG	4232	ESOPHAGOGASTROSTOMY
3331	DESTRUCTION OF PHRENIC NERVE	4253	INTRATHORACIC ESOPHAGEAL
0001	FOR COLLAPSE OF LUNG (NO LONGER	7200	ANASTOMOSIS WITH INTERPOSITION
			OF SMALL BOWEL
2220	PERFORMED)	1051	
3332	ARTIFICAL PNEUMOTHORAX FOR	4254	OTHER INTRATHORACIC
2224	COLLAPSE OF LUNG	4055	ESOPHAGOENTEROSOTOMY
3334	THORACOPLASTY	4255	INTRATHORACIC ESOPHAGEAL
			ANASTOMOSIS WITH INTERPOSITION
0000	OTHER OUROLOSE COLLEGE	40==	OF COLON
3339	OTHER SURGICAL COLLAPSE OF LUNG	4256	OTHER INTRATHORACIC
00.1.	OUTUBE OF LACES TO CO.	40==	ESOPHAGOCOLOSTOMY
3341	SUTURE OF LACERATION OF	4258	INTRATHORACIC ESOPHAGEAL

	BRONCHUS		ANASTOMOSIS WITH OTHER
	Bronorios		INTERPOSITION
3342	CLOSURE OF BRONCHIAL FISTULA	4259	OTHER INTRATHORACIC ANASTOMOSIS OF ESOPHAGUS
3343	CLOSURE OF LACERATION OF LUNG	4261	ANTESTERNAL ESOPHAGOESOPHAGOSTOMY
3348	OTHER REPAIR OAND PLASTIC	4262	ANTESTERNAL
3349	OPERATIONS ON BRONCHUS OTHER REPAIR AND PLASTIC	4263	ESOPHAGOGASTROSTOMY ANTESTERNAL ESOPHAGEAL
0040	OPERATIONS ON LUNG	4200	ANASTOMOSIS WITH INTERPOSITION OF SMALL BOWEL
335	LUNG TRANSPLANTATION	4264	OTHER ANTESTERNAL ESOPHAGOENTEROSTOMY
3350	LUNG TRANSPLANTATION, NOS	4265	ANTESTERNAL ESOPHAGEAL ANASTOMOSIS WITH INTERPOSITION OF COLON
3351	UNILATERAL LUNG TRANSPLANTATION	4266	OTHER ANTESTERNAL ESOPHAGOCOLOSTOMY
3352	BILATERAL LUNG TRANSPLANTATION	4268	OTHER ANTESTERNAL ESOPHAGEAL ANASTOMOSIS WITH INTERPOSISION
336	COMBINED HEART-LUNG TRANSPLANTATION	4269	OTHER ANTESTERNAL ANASTOMOSIS OF ESOPHAGUS
3392	LIGATION OF BRONCHUS	427	ESOPHAGOMYOTOMY
3393	PUNCTURE OF LUNG	4281	INSERTION OF PERMANENT TUBE INTO ESOPHAGUS
3398	OTHER OPERATIONS ON BRONCHUS	4282	SUTURE OF LACERATION OF ESOPHAGUS
3399	OTHER OPERATIONS ON LUNG	4283	CLOSURE OF ESOPHAGOSTOMY
3329	OTHER DIAGNOSTIC PROCEDURE ON	4284	REPAIR OF ESOPHAGEAL FISTULA, NEC
3333	LUNG AND BRONCHUS PNEUMOPERITONEUM FOR COLLAPSE OF LUNG	4285	REPAIR OF ESOPHAGEAL STRICTURE
3401	INCISION OF CHEST WALL	4286	PRODUCTION OF SUBCUTANEOUS TUNNEL WITHOUT ESOPHAGEAL ANASTOMOSIS
3402	EXPLORATORY THORACOTOMY	4287	OTHER GRAFT OF ESOPHAGUS
3403	REOPENING OF RECENT	4289	OTHER REPAIR OF ESOPHAGUS
3405	THORACOTOMY SITE CREATION OF PLEUROPERITONEAL SHUNT	435	PROXIMAL GASTRECTOMY
3409	OTHER INCISION OF PLEURA	4399	TOTAL GASTRECTOMY NEC
341	INCISION OF MEDIASTINUM	4465	ESOPHAGOGASTROPLASTY
3420	THORACOSCOPIC PLEURAL BX	4466	OTHER PROCEDURES FOR CREATION
			OF ESOPHAGOGASTRIC SPHINTERIC COMPETENCE
3421	TRANSPLEURAL THORACOSOCOPY	4467	LAP CREAT ESOPH SPHINCT
3422	MEDIASTINOSCOPY	7781	OTH CHEST CAGE OSTECTOMY
3423	BIOPSY OF CHEST WALL	7791	TOT CHEST CAGE OSTECTOMY
3425	CLOSED [PERCUTANEOUS][NEEDLE] BIOPSY OF MEDIASTINUM	8104	DORSAL AND DORSO-LUMBAR FUSION, ANTERIOR TECHNIQUE
3426	OPEN BIOPSY OF MEDIASTINUM	8134	REFUSION OF DORSAL AND
			DORSOLUMBAR SPINE, ANTERIOR TECHNIQUE
3427	BIOPSY OF DIAPHRAGM		
ICD-9-CM Lung or pleural biopsy procedure codes:			
3326 3328	CLOSED LUNG BIOPSY OPEN LUNG BIOPSY	3424	PLEURAL BIOPSY NEC
ICD-9-CM Diaphragmatic repair procedure codes:			
537	ABD REPAIR-DIAPHR HERNIA	5381	DIAPHRAGMATIC PLICATION
5371	LAP ABD REP-DIAPHR HERN	5382	PARASTERN HERNIA REPAIR
5372	OPN ABD DIAPHRM HERN NEC	5383	LAP THORC APP-DIAPH HERN

5375 5380	ABD REP-DIAPHR HERN NOS THOR REP-DIAPH HERN NOS	5384	OPN THORC DIAPH HERN NEC
ICD 0 C	M Cardiaa praaadura aadaa.		
3506	CM Cardiac procedure codes: TRANSAPICAL REPLACEMENT OF AORTIC VALVE	3613	(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES
3508	TRANSAPICAL REPLACEMENT OF	3614	(AORTO)CORONARY BYPASS OF FOUR
3510	PULMONARY VALVE OPEN HEART VALVULOPLASTY	3615	OR MORE CORONARY ARTERIES SINGLE INTERNAL MAMMARY-
0544	WITHOUT REPLACEMENT, UNSPECIFIED VALVE	0040	CORONARY ARTERY BYPASS
3511	OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT	3616	DOUBLE INTERNAL MAMMARY- CORONARY ARTERY BYPASS
3512	OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT	3617	ABDOMINAL -CORONARY ARTERY BYPASS
2512	REPLACEMENT	2610	
3513	OPEN HEART VALVULOPLASTY OF PULMONARY VALVE WITHOUT REPLACEMENT	3619	OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION
3514	OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT	362	HEART REVASCULARIZATION BY ARTERIAL IMPLANT
3520	REPLACEMENT OF UNSPECIFIED HEART VALVE	3631	OPEN CHEST TRANSMYOCARDIAL REVASCULARIZATION
3521	REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT	3632	OTHER TRANSMYOCARDIAL REVASCULARIZATION
3522	OTHER REPLACEMENT OF AORTIC VALVE	3639	OTHER HEART REVASCULARIZATION
3523	REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT	3691	REPAIR OF ANEURYSM OF CORONARY VESSEL
3524	OTHER REPLACEMENT OF MITRAL VALVE	3699	OTHER OPERATIONS ON VESSELS OF HEART
3525	REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT	370	PERICARDIOCENTESIS
3526	OTHER REPLACEMENT OF PULMONARY VALVE	3710	INCISION OF HEART, NOT OTHERWISE SPECIFIED
3527	REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT	3711	CARDIOTOMY
3528	OTHER REPLACEMENT OF TRICUSPID VALVE	3712	PERICARDIOTOMY
3531 3532	OPERATIONS ON PAPILLARY MUSCLE OPERATIONS ON CHORDAE	3731 3732	PERICARDIECTOMY EXCISION OF ANEURYSM OF HEART
3533	TENDINEAE ANNULOPLASTY	3733	EXCISION OR DESTRUCTION OF OTHER
			LESION OR TISSUE OF HEART, OPEN APPROACH
3534 3535	INFUNDIBULECTOMY OPERATIONS ON TRABECULAE	3735 3736	PARTIAL VENTRICULECTOMY EXC LEFT ATRIAL APPENDAG
3539	CARNEAE CORDIS OPERATIONS ON OTHER STRUCTURES	3737	EXC/DEST HRT LES, THRSPC
3550	ADJACENT TO VALVES OF HEART REPAIR OF UNSPECIFIED SEPTAL	3741	IMPLANTATION OF PROSTHETIC
3330	DEFECT OF HEART WITH PROSTHESIS	3741	CARDIAC SUPPORT DEVICE AROUND THE HEART
3551	REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE	3749	OTHER REPAIR OF HEART AND PERICARDIUM
3553	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE	3751	HEART TRANSPLANTATION
3554	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS	3752	IMPLANTATION OF TOTAL REPLACEMENT HEART SYSTEM
3560	REPAIR OF UNSPECIFIED SEPTAL	3753	REPLACEMENT OF REPAIR OF

	DEFECT OF HEART WITH TISSUE		THORACIC UNIT OF TOTAL
	GRAFT		REPLACEMENT HEART SYSTEM
3561	REPAIR OF ATRIAL SEPTAL DEFECT	3754	REPLACEMENT OR REPAIR OF OTHER
	WITH TISSUE GRAFT		IMPLANTABLE COMPONENT OF TOTAL
			REPLACEMENT HEART SYSTEM
3562	REPAIR OF VENTRICULAR SEPTAL	3755	REM INT BIVENT HRT SYS
3302	DEFECT WITH TISSUE GRAFT	3733	REWINT DIVENTURT 313
0500		0700	IMP DIVALENT LIDT A CT OVO
3563	REPAIR OF ENDOCARDIAL CUSHION	3760	IMP BIVN EXT HRT AST SYS
	DEFECT WITH TISSUE GRAFT		
3570	OTHER AND UNSPECIFIED REPAIR OF	3761	IMPLANT OF PULSATION BALLOON
	UNSPECIFIED SEPTAL DEFECT OF		
	HEART		
3571	OTHER AND UNSPECIFIED REPAIR OF	3762	INSERTION OF NON-IMPLANTABLE
	ATRIAL SEPTAL DEFECT		HEART ASSIST SYSTEM
3572	OTHER AND UNSPECIFIED REPAIR OF	3763	REPAIR OF HEART ASSIST SYSTEM
	VENTRICULAR SEPTAL DEFECT		
3573	OTHER AND UNSPECIFIED REPAIR OF	3764	REMOVAL OF HEART ASSIST SYSTEM
	ENDOCARDIAL CUSHION DEFECT		
3581	TOTAL REPAIR OF TETRALOGY OF	3765	IMPLANT OF EXTERNAL HEART ASSIST
	FALLOT		SYSTEM
3582	TOTAL REPAIR OF TOTAL ANOMALOUS	3766	INSERTION OF IMPLANTABLE HEART
0002	PULMONARY VENOUS CONNECTION	0.00	ASSIST SYSTEM
3583	TOTAL REPAIR OF TRUNCUS	3767	IMPLANTATION OF
0000	ARTERIOSUS	0.01	CARDIOMYOSTIMULATION SYSTEM
3584	TOTAL CORRECTION OF	3791	OPEN CHEST CARDIAC MASSAGE
0004	TRANSPOSITION OF GREAT VESSELS,	0701	OF EN OFFECT OF REFINO WINGOF ROL
	NOT ELSEWHERE CLASSIFIED		
3591	INTERATRIAL TRANSPOSITION OF	3804	INCISION OF VESSEL, AORTA
3391	VENOUS RETURN	3004	INCISION OF VESSEL, AONTA
3592	CREATION OF CONDUIT BETWEEN	3805	INCISION OF VESSEL, OTHER THORACIC
3392	RIGHT VENTRICLE AND PULMONARY	3003	INCISION OF VESSEL, OTHER THORAGIC
	ARTERY		
2502	CREATION OF CONDUIT BETWEEN	3844	DECECTION OF ADDOMINAL AODTA
3593		3044	RESECTION OF ABDOMINAL AORTA
0504	LEFT VENTRICLE AND AORTA	2045	WITH GRAFT REPLACEMENT
3594	CREATION OF CONDUIT BETWEEN	3845	RESECTION OF THORACIC VESSEL WITH
	ATRIUM AND PULMONARY ARTERY		GRAFT REPLACEMENT
3595	REVISION OF CORRECTIVE	3864	EXCISION OF LESION OF AORTA
	PROCEDURE ON HEART		
3597	PERC MTRL VLV REPR W IMP	3865	EXCISION OF LESION OTHER THORACIC
			VESSEL
3598	OTHER OPERATIONS ON SEPTA OF	3884	LIGATION , DIVISION OF AORTA
	HEART		
3599	OTHER OPERATIONS ON VALVES OF	3885	LIGATION, DIVISION OF OTHER
	HEART		THORACIC VESSELS
3603	OPEN CHEST CORONARY ARTERY	390	SYSTEMIC TO PULMONARY ARTERY
	ANGIOPLASTY		SHUNT
3610	AORTOCORONARY BYPASS FOR	3921	CAVAL-PULMONARY ARTERY
	HEART REVASCULARIZATION, NOT		ANASTOMOSIS
	OTHERWISE SPECIFIED		
3611	(AORTO)CORONARY BYPASS OF ONE	3922	AORTA-SUBCLAVIAN-CAROTID BYPASS
	CORONARY ARTERY		
3612	(AORTO)CORONARY BYPASS OF TWO	3923	OTHER INTRATHORACIC VASCULAR
0012	CORONARY ARTERIES	0020	SHUNT OR BYPASS
	555IV II (17 II (1 E) (1 E)		55 OK B II 7.00