

Iatrogenic Pneumothorax Rate Technical Specifications

Pediatric Quality Indicators #5 (PDI #5)

AHRQ Quality Indicators™, Version 4.5, May 2013

(Revised August, 2013)

Provider-Level Indicator

Type of Score: Rate

Description

Iatrogenic pneumothorax cases (secondary diagnosis) per 1,000 discharges for patients ages 17 years and younger. Excludes normal newborns; neonates with a birth weight less than 2,500 grams; cases with chest trauma, pleural effusion, thoracic surgery, lung or pleural biopsy, diaphragmatic surgery repair or cardiac surgery; cases with a principal diagnosis of iatrogenic pneumothorax; and cases with a secondary diagnosis of iatrogenic pneumothorax present on admission.

[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 Iatrogenic pneumothorax diagnosis code:

5121 IATROGENIC PNEUMOTHORAX

Denominator

Surgical and medical discharges, for patients ages 17 years and younger. Surgical and medical discharges are defined by specific DRG or MS-DRG codes.

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 2,500 grams (Birth Weight Categories 1 to 8)
- 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 surgery repair
- with any-listed ICD-9-CM procedure codes for cardiac surgery
- normal newborn
- 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)

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 codes¹:

80700	FRACTURE RIB NOS-CLOSED	86102	HEART LACERATION-CLOSED
80701	FRACTURE ONE RIB-CLOSED	86103	HEART CHAMBER LACERAT-CL
80702	FRACTURE TWO RIBS-CLOSED	86110	HEART INJURY NOS-OPEN
80703	FRACTURE THREE RIBS-CLOS	86111	HEART CONTUSION-OPEN
80704	FRACTURE FOUR RIBS-CLOSE	86112	HEART LACERATION-OPEN
80705	FRACTURE FIVE RIBS-CLOSE	86113	HEART CHAMBER LACER-OPN
80706	FRACTURE SIX RIBS-CLOSED	86120	LUNG INJURY NOS-CLOSED
80707	FRACTURE SEVEN RIBS-CLOS	86121	LUNG CONTUSION-CLOSED
80708	FX EIGHT/MORE RIB-CLOSED	86122	LUNG LACERATION-CLOSED
80709	FX MULT RIBS NOS-CLOSED	86130	LUNG INJURY NOS-OPEN
80710	FRACTURE RIB NOS-OPEN	86131	LUNG CONTUSION-OPEN
80711	FRACTURE ONE RIB-OPEN	86132	LUNG LACERATION-OPEN
80712	FRACTURE TWO RIBS-OPEN	8620	DIAPHRAGM INJURY-CLOSED
80713	FRACTURE THREE RIBS-OPEN	8621	DIAPHRAGM INJURY-OPEN
80714	FRACTURE FOUR RIBS-OPEN	86221	BRONCHUS INJURY-CLOSED
80715	FRACTURE FIVE RIBS-OPEN	86222	ESOPHAGUS INJURY-CLOSED
80716	FRACTURE SIX RIBS-OPEN	86229	INTRATHORACIC INJ NEC-CL
80717	FRACTURE SEVEN RIBS-OPEN	86231	BRONCHUS INJURY-OPEN
80718	FX EIGHT/MORE RIBS-OPEN	86232	ESOPHAGUS INJURY-OPEN
80719	FX MULT RIBS NOS-OPEN	86239	INTRATHORAC INJ NEC-OPEN
8072	FRACTURE OF STERNUM-CLOS	8628	INTRATHORACIC INJ NOS-CL
8073	FRACTURE OF STERNUM-OPEN	8629	INTRATHORAC INJ NOS-OPEN
8074	FLAIL CHEST	8750	OPEN WOUND OF CHEST
8075	FX LARYNX/TRACHEA-CLOSED	8751	OPEN WOUND CHEST-COMPL
8076	FX LARYNX/TRACHEA-OPEN	8760	OPEN WOUND OF BACK
8090	FRACTURE TRUNK BONE-CLOS	8761	OPEN WOUND BACK-COMPL
8091	FRACTURE TRUNK BONE-OPEN	9010	INJURY THORACIC AORTA
8600	TRAUM PNEUMOTHORAX-CLOSE	9011	INJ INNOMIN/SUBCLAV ART
8601	TRAUM PNEUMOTHORAX-OPEN	9012	INJ SUPERIOR VENA CAVA
8602	TRAUM HEMOTHORAX-CLOSED	9013	INJ INNOMIN/SUBCLAV VEIN
8603	TRAUM HEMOTHORAX-OPEN	90140	INJ PULMONARY VESSEL NOS
8604	TRAUM PNEUMOHEMOTHOR-CL	90141	INJURY PULMONARY ARTERY
8605	TRAUM PNEUMOHEMOTHOR-OPN	90142	INJURY PULMONARY VEIN
86100	HEART INJURY NOS-CLOSED	90181	INJ INTERCOSTAL ART/VEIN
86101	HEART CONTUSION-CLOSED	90182	INJ INT MAMMARY ART/VEIN

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90183	INJ MULT THORACIC VESSEL	9229	CONTUSION TRUNK NOS
90189	INJ THORACIC VESSEL NEC	92611	CRUSHING INJURY BACK
9019	INJ THORACIC VESSEL NOS	92619	CRUSHING INJ TRUNK NEC
9110	ABRASION TRUNK	9268	MULT CRUSHING INJ TRUNK
9111	ABRASION TRUNK-INFECTED	9269	CRUSHING INJ TRUNK NOS
9118	SUPERFIC INJ TRUNK NEC	9290	CRUSH INJ MULT SITE NEC
9119	SUPERF INJ TRNK NEC-INF	9299	CRUSHING INJURY NOS
9220	CONTUSION OF BREAST	9541	INJ SYMPATH NERVE NEC
9221	CONTUSION OF CHEST WALL	9548	INJURY TRUNK NERVE NEC
9223	<i>BACK CONTUSION</i>	9549	INJURY TRUNK NERVE NOS
92231	BACK CONTUSION	95911	INJURY OF CHEST WALL NEC
92233	INTERSCPLR REG CONTUSION	95919	TRUNK INJURY-SITES NEC
9228	MULIPLE CONTUSION TRUNK	9599	INJURY-SITE NOS

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

ICD-9-CM Pleural effusion diagnosis codes¹:

0101	<i>TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS</i>	01176	TB PNEUMOTHORAX-OTH TEST
01010	PRIM TB PLEURISY-UNSPEC	0120	<i>TUBERCULOUS PLEURISY</i>
01011	PRIM TB PLEURISY-NO EXAM	01200	TB PLEURISY-UNSPEC
01012	PRIM TB PLEUR-EXAM UNKN	01201	TB PLEURISY-NO EXAM
01013	PRIM TB PLEURIS-MICRO DX	01202	TB PLEURISY-EXAM UNKN
01014	PRIM TB PLEURISY-CULT DX	01203	TB PLEURISY-MICRO DX
01015	PRIM TB PLEURIS-HISTO DX	01204	TB PLEURISY-CULT DX
01016	PRIM TB PLEURIS-OTH TEST	01205	TB PLEURISY-HISTOLOG DX
0117	<i>TUBRCULOUS PNEUMOTHORAX**</i>	01206	TB PLEURISY-OTH TEST
01170	TB PNEUMOTHORAX-UNSPEC	1972	SECOND MALIG NEO PLEURA
01171	TB PNEUMOTHORAX-NO EXAM	5111	BACT PLEUR/EFFUS NOT TB
01172	TB PNEUMOTHORX-EXAM UNKN	5118	<i>OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS</i>
01173	TB PNEUMOTHORAX-MICRO DX	51181	MALIGNANT PLEURAL EFFUSN
01174	TB PNEUMOTHORAX-CULT DX	51189	EFFUSION NEC EXC TB
01175	TB PNEUMOTHORAX-HISTO DX	5119	PLEURAL EFFUSION NOS

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ICD-9-CM Thoracic surgery procedure codes¹:

0522	CERVICAL SYMPATHECTOMY	3228	ENDOSC DESTRUC LUNG LES
0523	LUMBAR SYMPATHECTOMY	3229	DESTROY LOC LUNG LES NEC
0529	OTHER SYMPATHECTOMY	323	<i>SEGMENTAL RESECTION OF LUNG</i>
0780	THYMECTOMY NOS	3230	THORAC SEG LUNG RESECT
0781	OTH PART EXCISION THYMUS	3239	OTH SEG LUNG RESECT NOS
0782	OTH TOTL EXCISION THYMUS	324	LOBECTOMY OF LUNG
0783	THORAC PART EXISN THYMUS	3241	THORAC LOBECTOMY LUNG
0784	THORAC TOTAL EXC THYMUS	3249	LOBECTOMY OF LUNG NEC
3121	MEDIASTINAL TRACHEOSTOMY	325	<i>COMPLETE PNEUMONECTOMY</i>
3145	OPN BX LARYNX OR TRACHEA	3250	THORACOSPC PNEUMONECTOMY
3173	TRACHEA FISTULA CLOS NEC	3259	OTHER PNEUMONECTOMY NOS
3179	OTHER TRACHEAL REPAIR	326	RADL DISSEC THORAC STRUCT
3199	OTHER TRACHEAL OPERATION	329	OTHER EXCISION OF LUNG
3209	OTHER DESTRUC BRONC LES	330	INCISION OF BRONCHUS
321	OTHER BRONCHIAL EXCISION	331	INCISION OF LUNG
3220	THORAC EXC LUNG LESION	3320	THORACOSCOPC LUNG BIOPSY
<u>Local excision or destruction of lesion or tissue of lung</u>		3325	OPEN BRONCHIAL BIOPSY
3221	EMPHYSEMA BLEB PPLICATION	3326	CLOSED LUNG BIOPSY
3222	LUNG VOL REDUCTION SURG	3327	CLOS ENDOSCOPIC LUNG BX
3223	OPEN ABLTN LUNG LES/TISS	3328	OPEN LUNG BIOPSY
3224	PERC ABLTN LUNG LES/TISS	3331	DESTR PHREN- LUNG COLLAPS
3225	THOR ABLTN LUNG LES/TISS	3332	PNEUMOTHORAX-LUNG COLLAPS
3226	ABLTN LUNG TISS NEC/NOS	3334	THORACOPLASTY
3227	BRNC THRMPLSTY,ABLT MSCL	3339	SURG COLLAPS OF LUNG NEC

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Repair and plastic operation on lung and bronchus		4062	THORACIC DUCT FISTULIZAT
3341	BRONCHIAL LACERAT SUTURE	4063	CLOSE THORACIC DUCT FIST
3342	BRONCHIAL FISTULA CLOS	4064	LIGATE THORACIC DUCT
3343	LUNG LACERATION CLOSURE	4069	THORACIC DUCT OP NEC
3348	BRONCHIAL REPAIR NEC		
3349	LUNG REPAIR NEC		
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Lung transplant			
335	<i>LUNG TRANSPLANTATION</i>		
3350	LUNG TRANSPLANTNOS		
3351	UNILAT LUNG TRANSPLANT		
3352	BILAT LUNG TRANSPLANT		
336	COMB HEART/LUNG TRANSPLA		
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Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm			
3329	BRONCH/LUNG DX PROC NEC		
3333	PNEUMOPERIT–LUNG COLLAPS		
3392	BRONCHIAL LIGATION		
3393	PUNCTURE OF LUNG		
3398	BRONCHIAL OPERATION NEC		
3399	LUNG OPERATION NEC		
3401	INCISION OF CHEST WALL		
3402	EXPLORATORY THORACOTOMY		
3403	REOPEN THORACOTOMY SITE		
3405	PIEUOPERITONEAL SHUNT		
3409	OTHER PLEURA INCISION		
341	INCISION OF MEDIASTINUM		
3420	THORACOSCOPIC PLEURAL BX		
3421	TRANSPLEURA THORACOSCOPY		
3422	MEDIASTINOSCOPY		
3423	CHEST WALL BIOPSY		
3424	PLEURAL BIOPSY NEC		
3425	CLOS MEDIASTINAL BIOPSY		
3426	OPEN MEDIASTINAL BIOPSY		
3427	BIOPSY OF DIAPHRAGM		
3428	DX PROCEDURE THORAX NEC		
3429	DX PROC MEDIASTINUM NEC		
343	DESTRUCT MEDIASTIN LES		
344	DESTRUCT CHEST WALL LES		
3451	DECORTICATION OF LUNG		
3452	THORACOSCOPC DECORT LUNG		
3459	OTHER PLEURAL EXCISION		
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Repair of chest wall			
3471	SUTURE CHEST WALL LACER		
3472	THORACOSTOMY CLOSURE		
3473	CLOS THORACIC FISTUL NEC		
3474	PECTUS DEFORMITY REPAIR		
3479	OTHER CHEST WALL REPAIR		
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Operations on diaphragm			
3481	EXCISE DIAPHRAGM LESION		
3482	SUTURE DIAPHRAGM LACERAT		
3483	CLOSE DIAPHRAGM FISTULA		
3484	OTHER DIAPHRAGM REPAIR		
3485	IMPLANT DIAPHRA PACEMAKE		
3489	DIAPHRAGM OPERATION NEC		
3493	REPAIR OF PLEURA		
3499	THORACIC OPERATION NEC		
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Operations on thoracic duct			
4061	THORAC DUCT CANNULATION		
		4062	THORACIC DUCT FISTULIZAT
		4063	CLOSE THORACIC DUCT FIST
		4064	LIGATE THORACIC DUCT
		4069	THORACIC DUCT OP NEC
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		Esophagotomy	
		4201	ESOPHAGEAL WEB INCISION
		4209	ESOPHAGEAL INCISION NEC
		4210	ESOPHAGOSTOMY NOS
		4211	CERVICAL ESOPHAGOSTOMY
		4212	ESOPH POUCH EXTERIORIZAT
		4219	EXT FISTULIZAT ESOPH NEC
		4221	ESOPHAGOSCOPY BY INCIS
		4225	OPEN BIOPSY OF ESOPHAGUS
		4231	LOC EXCIS ESOPH DIVERTIC
		4232	LOCAL EXCIS ESOPHAG NEC
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		Excision of esophagus	
		4239	DESTRUCT ESOPHAG LES NEC
		4240	ESOPHAGECTOMY NOS
		4241	PARTIAL ESOPHAGECTOMY
		4242	TOTAL ESOPHAGECTOMY
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		Intrathoracic anastomosis of exophagus	
		4251	THORAC ESOPHAGUESOPHAGOS
		4252	THORAC ESOPHAGOGASTROST
		4253	THORAC SM BOWEL INTERPOS
		4254	THORAC ESOPHAGOENTER NEC
		4255	THORAC LG BOWEL INTERPOS
		4256	THORAC ESOPHAGOCOLOS NEC
		4258	THORAC INTERPOSITION NEC
		4259	THORAC ESOPHAG ANAST NEC
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		Antesternal anastomosis	
		4261	STERN ESOPHAGUESOPHAGOST
		4262	STERN ESOPHAGOGASTROSTOM
		4263	STERN SM BOWEL INTERPOS
		4264	STERN ESOPHAGOENTER NEC
		4265	STERN LG BOWEL INTERPOS
		4266	STERN ESOPHAGOCOLOS NEC
		4268	STERN INTERPOSITION NEC
		4269	STERN ESOPHAG ANAST NEC
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		Other repair of esophagus	
		427	ESOPHAGOMYOTOMY
		4281	INSERT PERM TUBE ESOPHAG
		4282	SUTURE ESOPHAGEAL LACER
		4283	ESOPHAGOSTOMY CLOSURE
		4284	ESOPH FISTULA REPAIR NEC
		4285	ESOPHAG STRICTURE REPAIR
		4286	PROD SUBQ TUNNEL NO ANAS
		4287	ESOPHAGEAL GRAFT NEC
		4289	ESOPHAGEAL REPAIR NEC
		435	PROXIMAL GASTRECTOMY
		4399	TOTAL GASTRECTOMY NEC
		4465	ESOPHAGOGASTROPLASTY
		4466	CREAT ESOPHAGASTR SPHINC
		4467	LAP CREAT ESOPH SPHINCT
		7781	OTH CHEST CAGE OSTECTOMY
		7791	TOT CHEST CAGE OSTECTOMY
		8104	DRSL/DRSLUMB FUS ANT/ANT
		8134	REFUS DRS/DRSLMB ANT/ANT

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ICD-9-CM Lung or pleural biopsy procedure codes:

3326	CLOSED LUNG BIOPSY	3424	PLEURAL BIOPSY NEC
3328	OPEN LUNG BIOPSY		

ICD9-CM Diaphragmatic surgery repair procedure codes¹:

537	<i>ABD REPAIR-DIAPHR HERNIA</i>	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	ABD REP-DIAPHR HERN NOS	5384	OPN THORC DIAPH HERN NEC
5380	THOR REP-DIAPH HERN NOS		

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ICD9-CM Cardiac procedure codes:

3506	TRNSAPCL REP AORTC VALVE	3603	OPEN CORONRY ANGIOPLASTY
3508	TRNSAPCL REPL PULM VALVE	3610	AORTOCORONARY BYPASS NOS
3510	OPEN VALVULOPLASTY NOS	3611	AORTOCOR BYPAS-1 COR ART
3511	OPN AORTIC VALVULOPLASTY	3612	AORTOCOR BYPAS-2 COR ART
3512	OPN MITRAL VALVULOPLASTY	3613	AORTOCOR BYPAS-3 COR ART
3513	OPN PULMON VALVULOPLASTY	3614	AORTCOR BYPAS-4 COR ART
3514	OPN TRICUS VALVULOPLASTY	3615	1 INT MAM-COR ART BYPASS
3520	OPN/OTH REP HRT VLV NOS	3616	2 INT MAM-COR ART BYPASS
3521	OPN/OTH REP AORT VLV-TIS	3617	ABD-CORON ARTERY BYPASS
3522	OPN/OTH REP AORTIC VALVE	3619	HRT REVAS BYPS ANAS NEC
3523	OPN/OTH REP MTRL VLV-TIS	362	ARTERIAL IMPLANT REVASC
3524	OPN/OTH REP MITRAL VALVE	3631	OPEN CHEST TRANS REVASC
3525	OPN/OTH REP PULM VLV-TIS	3632	OTH TRANSMYO REVASCULAR
3526	OPN/OTH REPL PUL VALVE	3639	OTH HEART REVASCULAR
3527	OPN/OTH REP TCSPD VLV-TS	3691	CORON VESS ANEURYSM REP
3528	OPN/OTH REPL TCSPD VALVE	3699	HEART VESSEL OP NEC
3531	PAPILLARY MUSCLE OPS	370	PERICARDIOCENTESIS
3532	CHORDAE TENDINEAE OPS	3710	INCISION OF HEARTNOS
3533	ANNULOPLASTY	3711	CARDIOTOMY
3534	INFUNDIBULECTOMY	3712	PERICARDIOTOMY
3535	TRABECUL CARNEAE CORD OP	3731	PERICARDIECTOMY
3539	TISS ADJ TO VALV OPS NEC	3732	HEART ANEURYSM EXCISION
3550	PROSTH REP HRT SEPTA NOS	3733	EXC/DEST HRT LESION OPEN
3551	PROS REP ATRIAL DEF-OPN	3735	PARTIAL VENTRICULECTOMY
3553	PROS REP VENTRIC DEF-OPN	3736	EXC,DESTRCT,EXCLUS LAA
3554	PROS REP ENDOCAR CUSHION	3737	EXC/DEST HRT LES, THRSPC
3560	GRFT REPAIR HRT SEPT NOS	3741	IMPL CARDIAC SUPPORT DEV
3561	GRAFT REPAIR ATRIAL DEF	3749	HEART/PERICARD REPR NEC
3562	GRAFT REPAIR VENTRIC DEF	3751	HEART TRANSPLANTATION
3563	GRFT REP ENDOCAR CUSHION	3752	IMP TOT INT BI HT RP SYS
3570	HEART SEPTA REPAIR NOS	3753	REPL/REP THR UNT TOT HRT
3571	ATRIA SEPTA DEF REP NEC	3754	REPL/REP OTH TOT HRT SYS
3572	VENTR SEPTA DEF REP NEC	3755	REM INT BIVENT HRT SYS
3573	ENDOCAR CUSHION REP NEC	3760	IMP BIVN EXT HRT AST SYS
3581	TOT REPAIR TETRAL FALLOT	3761	PULSATION BALLOON IMPLAN
3582	TOTAL REPAIR OF TAPVC	3762	INSRT NON-IMPL CIRC DEV
3583	TOT REP TRUNCUS ARTERIOS	3763	REPAIR HEART ASSIST SYS
3584	TOT COR TRANSPOS GRT VES	3764	REMV EXT HRT ASSIST SYS
3591	INTERAT VEN RETRN TRANSP	3765	IMP VENT EXT HRT AST SYS
3592	CONDUIT RT VENT-PUL ART	3766	IMPLANTABLE HRT ASSIST
3593	CONDUIT LEFT VENTR-AORTA	3767	IMP CARDIOMYOSTIMUL SYS
3594	CONDUIT ARTIUM-PULM ART	3791	OPN CHEST CARDIAC MASSAG
3595	HEART REPAIR REVISION	3804	INCISION OF AORTA
3597	PERC MTRL VLV REPR W IMP	3805	THORACIC VESSEL INC NEC
3598	OTHER HEART SEPTA OPS	3844	RESECT ABDM AORTA W REPL
3599	OTHER HEART VALVE OPS	3845	RESECT THORAC VES W REPL

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3864	EXCISION OF AORTA	390	SYSTEMIC-PULM ART SHUNT
3865	THORACIC VESSEL EXCISION	3921	CAVAL-PULMON ART ANASTOM
3884	OCCLUDE AORTA NEC	3922	AORTA-SUBCLV-CAROT BYPAS
3885	OCCLUDE THORACIC VES NEC	3923	INTRATHORACIC SHUNT NEC