



Neonatal Quality Indicator 01 (NQI 01) Neonatal Iatrogenic Pneumothorax Rate

July 2016

Provider-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

Iatrogenic pneumothorax cases (secondary diagnosis) per 1,000 discharges for neonates weighing 500 grams or more but less than 2,500 grams. Excludes normal newborns; 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 code for iatrogenic pneumothorax.

Iatrogenic pneumothorax diagnosis codes: (IATROID)

5121 IATROGENIC PNEUMOTHORAX

DENOMINATOR

Surgical and medical discharges, for neonates with birth weight less than 2,500 grams.
Surgical and medical discharges are defined by specific MS-DRG codes.

[Appendix C – Surgical MS-DRGs](#)

[Appendix E – Medical MS-DRGs](#)

[Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn](#)

[Appendix L – Low Birth Weight Categories](#)

DENOMINATOR EXCLUSIONS

Exclude cases:

- neonates with birth weight less than 500 grams (Birth Weight Category 1)
- with a principal ICD-9-CM diagnosis code (or secondary diagnosis code present on admission) for iatrogenic pneumothorax (see above)
- with any-listed ICD-9-CM diagnosis codes for specified chest trauma (rib fractures, traumatic pneumothorax and related chest wall injuries)
- 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)

Chest trauma diagnosis codes: (CTRAUMD)

80700	FRACTURE RIB NOS-CLOSED	86111	HEART CONTUSION-OPEN
80701	FRACTURE ONE RIB-CLOSED	86112	HEART LACERATION-OPEN
80702	FRACTURE TWO RIBS-CLOSED	86113	HEART CHAMBER LACER-OPN
80703	FRACTURE THREE RIBS-CLOS	86120	LUNG INJURY NOS-CLOSED
80704	FRACTURE FOUR RIBS-CLOSE	86122	LUNG LACERATION-CLOSED
80705	FRACTURE FIVE RIBS-CLOSE	86130	LUNG INJURY NOS-OPEN
80706	FRACTURE SIX RIBS-CLOSED	86131	LUNG CONTUSION-OPEN
80707	FRACTURE SEVEN RIBS-CLOS	86132	LUNG LACERATION-OPEN
80708	FX EIGHT/MORE RIB-CLOSED	8620	DIAPHRAGM INJURY-CLOSED
80709	FX MULT RIBS NOS-CLOSED	8621	DIAPHRAGM INJURY-OPEN
80710	FRACTURE RIB NOS-OPEN	86221	BRONCHUS INJURY-CLOSED
80711	FRACTURE ONE RIB-OPEN	86222	ESOPHAGUS INJURY-CLOSED

80712	FRACTURE TWO RIBS-OPEN	86229	INTRATHORACIC INJ NEC-CL
80713	FRACTURE THREE RIBS-OPEN	86231	BRONCHUS INJURY-OPEN
80714	FRACTURE FOUR RIBS-OPEN	86232	ESOPHAGUS INJURY-OPEN
80715	FRACTURE FIVE RIBS-OPEN	86239	INTRATHORAC INJ NEC-OPEN
80716	FRACTURE SIX RIBS-OPEN	8628	INTRATHORACIC INJ NOS-CL
80717	FRACTURE SEVEN RIBS-OPEN	8629	INTRATHORAC INJ NOS-OPEN
80718	FX EIGHT/MORE RIBS-OPEN	8750	OPEN WOUND OF CHEST
80719	FX MULT RIBS NOS-OPEN	8751	OPEN WOUND CHEST-COMPL
8072	FRACTURE OF STERNUM-CLOS	8760	OPEN WOUND OF BACK
8073	FRACTURE OF STERNUM-OPEN	8761	OPEN WOUND BACK-COMPL
8074	FLAIL CHEST	9010	INJURY THORACIC AORTA
8075	FX LARYNX/TRACHEA-CLOSED	9011	INJ INNOMIN/SUBCLAV ART
8076	FX LARYNX/TRACHEA-OPEN	9012	INJ SUPERIOR VENA CAVA
8600	TRAUM PNEUMOTHORAX-CLOSE	9013	INJ INNOMIN/SUBCLAV VEIN
8601	TRAUM PNEUMOTHORAX-OPEN	90140	INJ PULMONARY VESSEL NOS
8602	TRAUM HEMOTHORAX-CLOSED	90141	INJURY PULMONARY ARTERY
8603	TRAUM HEMOTHORAX-OPEN	90142	INJURY PULMONARY VEIN
8604	TRAUM PNEUMOHEMOTHOR-CL	90181	INJ INTERCOSTAL ART/VEIN
8605	TRAUM PNEUMOHEMOTHOR-OPN	90182	INJ INT MAMMARY ART/VEIN
86100	HEART INJURY NOS-CLOSED	90183	INJ MULT THORACIC VESSEL
86102	HEART LACERATION-CLOSED	90189	INJ THORACIC VESSEL NEC
86103	HEART CHAMBER LACERAT-CL	9019	INJ THORACIC VESSEL NOS
86110	HEART INJURY NOS-OPEN		

Pleural effusion diagnosis codes: (PLEURAD)

0101	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS	01176	TPENU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS
01010	TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED	0120	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 CONFIRMED HISTOLOGICALLY	01204	TP, TUBERCLE BACILI NOT FOUND BY MICROSCOPY BUT BY BACTERIAL CULTURE
01016	TPIPPT, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS	01205	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL BUT CONFIRMED HISTOLOGICALLY
0117	TUBRCULOUS PNEUMOTHORAX	01206	TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS

01170	TUBRCULOUS PNEUMOTHORAX, UNSPECIFIED	1972	SECOND MALIG NEO PLEURA
01171	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE	5111	WITH EFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN TUBERCULOSIS
01172	TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN	5118	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

Thoracic surgery procedure codes: (THORAIP)

0522	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 OPERATIONS ON TRACHEA	3479	OTHER REPAIR OF CHEST WALL
3199	OTHER OPERATIONS ON TRACHEA	3481	EXCISION OF LESION OR TISSUE OF DIAPHRAGM
3209	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRONCHUS	3482	SUTURE OF LACERATION OF DIAPHRAGM
321	OTHER EXCISION OF BRONCHUS	3483	CLOSURE OF FISTULA OF DIAPHRAGM
3220	THORAC EXC LUNG LESION	3484	OTHER REPAIR OF DIAPHRAGM
3221	PLICATION OF EMPHYSEMATIOUS BLEB	3485	IMPLANTATION OF DIAPHRAGMATIC PACEMAKER
3222	LUNG VOLUME REDUCTION SURGERY	3489	OTHER OPERATIONS ON DIAPHRAGM
3223	OPEN ABLTN LUNG LES/TISS	3493	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 DUCT
3228	ENDOSCOPIC EXCISION OR DETRUCTION OF LESION OR TISSUE OF LUNG	4064	LIGATION OF THORACIC DUCT
3229	OTHER LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LUNG	4069	OTHER OPERATIONS ON THORACIC 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 DIVERTICULUM
326	RADICAL DISSECTION OF THORACIC STRUCTURES	4232	LOCAL EXCISION OF OTHER LESION OR TISSUE OF ESOPHAGUS
329	OTHER EXCISION OF LUNG	4239	OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS
330	INCISION OF BRONCHUS	4240	ESOPHAGECTOMY, NOS
331	INCISION OF LUNG	4241	PARTIAL ESOPHAGECTOMY
3320	THORACOSCOPC LUNG BIOPSY	4242	TOTAL ESOPHAGECTOMY
3325	OPEN BIOPSY OF BRONCHUS	4251	INTRATHORACIC ESOPHAGOESOPHAGOSTOMY
3327	CLOSED ENDOSCOPIC BIOPSY OF LUNG	4252	INTRATHORACIC ESOPHAGOGASTROSTOMY
3331	DESTRUCTION OF PHRENIC NERVE FOR COLLAPSE OF LUNG (NO LONGER PERFORMED)	4253	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS WITH INTERPOSITION OF SMALL BOWEL
3332	ARTIFICIAL PNEUMOTHORAX FOR COLLAPSE OF LUNG	4254	OTHER INTRATHORACIC ESOPHAGOENTEROSOTOMY

3334	THORACOPLASTY	4255	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS WITH INTERPOSITION OF COLON
3339	OTHER SURGICAL COLLAPSE OF LUNG	4256	OTHER INTRATHORACIC ESOPHAGOCOLOSTOMY
3341	SUTURE OF LACERATION OF BRONCHUS	4258	INTRATHORACIC ESOPHAGEAL ANASTOMOSIS WITH OTHER 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 OPERATIONS ON BRONCHUS	4262	ANTESTERNAL ESOPHAGOGASTROSTOMY
3349	OTHER REPAIR AND PLASTIC OPERATIONS ON LUNG	4263	ANTESTERNAL ESOPHAGEAL 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 INTERPOSITION
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 LUNG AND BRONCHUS	4284	REPAIR OF ESOPHAGEAL FISTULA, NEC
3333	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 THORACOTOMY SITE	4289	OTHER REPAIR OF ESOPHAGUS
3405	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 SPHINCTERIC 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		

Lung or pleural biopsy procedure codes: (LUNGBIP)

3326	CLOSED [PERCUTANEOUS] [NEEDLE] BIOPSY OF LUNG	3424	PLEURAL BIOPSY
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3328 OPEN BIOPSY OF LUNG

Diaphragmatic surgery repair procedure codes: (DIAPHRP)

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	ABD REP-DIAPHR HERN NOS	5384	OPN THORC DIAPH HERN NEC
5380	THOR REP-DIAPH HERN NOS		

Cardiac procedure codes: (CARDSIP)

3506	Transapical replacement of aortic valve	3613	(Aorto) coronary bypass of three coronary arteries
3508	Transapical replacement of pulmonary valve	3614	(Aorto) coronary bypass of four or more coronary arteries
3510	Open heart valvuloplasty without replacement, unspecified valve	3615	Single internal mammary-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 replacement	3617	Abdominal -coronary artery bypass
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	Operations on papillary muscle	3731	Pericardiectomy
3532	Operations on chordae tendineae	3732	Excision of aneurysm of heart
3533	Annuloplasty	3733	Excision or destruction of other lesion or tissue of heart, open approach
3534	Infundibulectomy	3735	Partial ventriculectomy
3535	Operations on trabeculae carneae cordis	3736	EXC LEFT ATRIAL APPENDAG
3539	Operations on other structures adjacent to valves of heart	3737	EXC/DEST HRT LES, THRSPC
3550	Repair of unspecified septal defect of heart with prosthesis	3741	Implantation of prosthetic 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 defect of heart with tissue graft	3753	Replacement of repair of thoracic unit of total replacement heart system
3561	Repair of atrial septal defect with tissue graft	3754	Replacement or repair of other implantable component of total replacement heart system
3562	Repair of ventricular septal defect with tissue graft	3755	REM INT BIVENT HRT SYS
3563	Repair of endocardial cushion defect with tissue graft	3760	IMP BIVN EXT HRT AST SYS
3570	Other and unspecified repair of unspecified septal defect of heart	3761	Implant of pulsation balloon
3571	Other and unspecified repair of atrial septal defect	3762	Insertion of non-implantable heart assist system
3572	Other and unspecified repair of ventricular septal defect	3763	Repair of heart assist system

3573	Other and unspecified repair of endocardial cushion defect	3764	Removal of heart assist system
3581	Total repair of tetralogy of Fallot	3765	Implant of external heart assist system
3582	Total repair of total anomalous pulmonary venous connection	3766	Insertion of implantable heart assist system
3583	Total repair of truncus arteriosus	3767	Implantation of cardiomyostimulation system
3584	Total correction of transposition of great vessels, not elsewhere classified	3791	Open chest cardiac massage
3591	Interatrial transposition of venous return	3804	Incision of vessel, aorta
3592	Creation of conduit between right ventricle and pulmonary artery	3805	Incision of vessel, other thoracic
3593	Creation of conduit between left ventricle and aorta	3844	Resection of abdominal aorta with graft replacement
3594	Creation of conduit between atrium and pulmonary artery	3845	Resection of thoracic vessel with graft replacement
3595	Revision of corrective procedure on heart	3864	Excision of lesion of aorta
3597	PERC MTRL VLV REPR W IMP	3865	Excision of lesion other thoracic vessel
3598	Other operations on septa of heart	3884	Ligation , division of aorta
3599	Other operations on valves of heart	3885	Ligation, division of other thoracic vessels
3603	Open chest coronary artery angioplasty	390	Systemic to pulmonary artery shunt
3610	Aortocoronary bypass for heart revascularization, not otherwise specified	3921	Caval-pulmonary artery anastomosis
3611	(Aorto) coronary bypass of one coronary artery	3922	Aorta-subclavian-carotid bypass
3612	(Aorto) coronary bypass of two coronary arteries	3923	Other intrathoracic vascular shunt or bypass