



Patient Safety Indicator 06 (PSI 06) Iatrogenic Pneumothorax Rate

October 2016

Provider-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

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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.

Iatrogenic pneumothorax diagnosis codes: (IATROID)

5121 IATROGENIC PNEUMOTHORAX

DENOMINATOR

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

[*Appendix C - Medical Discharge MS-DRGs \(for discharges on or after October 1, 2007\)*](#)

[*Appendix E - Surgical Discharge MS-DRGs \(for discharges on or after October 1, 2007\)*](#)

DENOMINATOR EXCLUSIONS

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 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 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)

Chest trauma diagnosis codes: (CTRAUMD)

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| 80700 | CLOSED FRACTURE OF RIB(S), UNSPECIFIED | 86111 | CONTUSION OF HEART WITH OPEN WOUND INTO THORAX |
| 80701 | CLOSED FRACTURE OF ONE RIB | 86112 | LACERATION OF HEART WITHOUT PENETRATION OF HEART CHAMBERS, WITH OPEN WOUND INTO THORAX |
| 80702 | CLOSED FRACTURE OF TWO RIBS | 86113 | LACERATION OF HEART WITH PENETRATION OF HEART CHAMBERS WITH OPEN WOUND INTO THORAX |
| 80703 | CLOSED FRACTURE OF THREE RIBS | 86120 | UNSPECIFIED INJURY OF LUNG WITHOUT MENTION OF OPEN WOUND INTO THORAX |
| 80704 | CLOSED FRACTURE OF FOUR RIBS | 86122 | LACERATION OF LUNG WITHOUT MENTION OF OPEN WOUND INTO THORAX |
| 80705 | CLOSED FRACTURE OF FIVE RIBS | 86130 | UNSPECIFIED INJURY OF LUNG WITH OPEN WOUND INTO THORAX |
| 80706 | CLOSED FRACTURE OF SIX RIBS | 86131 | CONTUSION OF LUNG WITH OPEN WOUND INTO THORAX |
| 80707 | CLOSED FRACTURE OF SEVEN RIBS | 86132 | LACERATION OF LUNG WITH OPEN WOUND INTO THORAX |
| 80708 | CLOSED FRACTURE OF EIGHT OR MORE RIBS | 8620 | INJURY TO DIAPHRAGM, WITHOUT MENTION OF OPEN WOUND INTO CAVITY |

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| 80709 | CLOSED FRACTURE OF MULTIPLE RIBS, UNSPECIFIED | 8621 | INJURY TO DIAPHRAGM, WITH OPEN WOUND INTO CAVITY |
| 80710 | OPEN FRACTURE OF RIB(S), UNSPECIFIED | 86221 | INJURY TO BRONCHUS WITHOUT MENTION OF OPEN WOUND INTO CAVITY |
| 80711 | OPEN FRACTURE OF ONE RIB | 86222 | INJURY TO ESOPHAGUS WITHOUT MENTION OF OPEN WOUND INTO CAVITY |
| 80712 | OPEN FRACTURE OF TWO RIBS | 86229 | INJURY TO OTHER SPECIFIED INTRATHORACIC ORGANS WITHOUT MENTION OF OPEN WOUND INTO CAVITY |
| 80713 | OPEN FRACTURE OF THREE RIBS | 86231 | INJURY TO BRONCHUS WITH OPEN WOUND INTO CAVITY |
| 80714 | OPEN FRACTURE OF FOUR RIBS | 86232 | INJURY TO ESOPHAGUS WITH OPEN WOUND INTO CAVITY |
| 80715 | OPEN FRACTURE OF FIVE RIBS | 86239 | INJURY TO OTHER SPECIFIED INTRATHORACIC ORGANS WITH OPEN WOUND INTO CAVITY |
| 80716 | OPEN FRACTURE OF SIX RIBS | 8628 | INJURY TO MULTIPLE AND UNSPECIFIED INTRATHORACIC ORGANS, WITHOUT MENTION OF OPEN WOUND INTO CAVITY |
| 80717 | OPEN FRACTURE OF SEVEN RIBS | 8629 | INJURY TO MULTIPLE AND UNSPECIFIED INTRATHORACIC ORGANS, WITH OPEN WOUND INTO CAVITY |
| 80718 | OPEN FRACTURE OF EIGHT OR MORE RIBS | 8750 | OPEN WOUND OF CHEST (WALL), WITHOUT MENTION OF COMPLICATION |
| 80719 | OPEN FRACTURE OF MULTIPLE RIBS, UNSPECIFIED | 8751 | OPEN WOUND OF CHEST (WALL), COMPLICATED |
| 8072 | CLOSED FRACTURE OF STERNUM | 8760 | OPEN WOUND OF BACK, WITHOUT MENTION OF COMPLICATION |
| 8073 | OPEN FRACTURE OF STERNUM | 8761 | OPEN WOUND OF BACK, COMPLICATED |
| 8074 | FLAIL CHEST | 9010 | INJURY TO THORACIC AORTA |
| 8075 | CLOSED FRACTURE OF LARYNX AND TRACHEA | 9011 | INJURY TO INNOMINATE AND SUBCLAVIAN ARTERIES |
| 8076 | OPEN FRACTURE OF LARYNX AND TRACHEA | 9012 | INJURY TO SUPERIOR VENA CAVA |

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| 8600 | TRAUMATIC PNEUMOTHORAX WITHOUT MENTION OF OPEN WOUND INTO THORAX | 9013 | INJURY TO INNOMINATE AND SUBCLAVIAN VEINS |
| 8601 | TRAUMATIC PNEUMOTHORAX WITH OPEN WOUND INTO THORAX | 90140 | INJURY TO PULMONARY VESSEL(S), UNSPECIFIED |
| 8602 | TRAUMATIC HEMOTHORAX WITHOUT MENTION OF OPEN WOUND INTO THORAX | 90141 | INJURY TO PULMONARY ARTERY |
| 8603 | TRAUMATIC HEMOTHORAX WITH OPEN WOUND INTO THORAX | 90142 | INJURY TO PULMONARY VEIN |
| 8604 | TRAUMATIC PNEUMOHEMOTHORAX WITHOUT MENTION OF OPEN WOUND INTO THORAX | 90181 | INJURY TO INTERCOSTAL ARTERY OR VEIN |
| 8605 | TRAUMATIC PNEUMOHEMOTHORAX WITH OPEN WOUND INTO THORAX | 90182 | INJURY TO INTERNAL MAMMARY ARTERY OR VEIN |
| 86100 | UNSPECIFIED INJURY OF HEART WITHOUT MENTION OF OPEN WOUND INTO THORAX | 90183 | INJURY TO MULTIPLE BLOOD VESSELS OF THORAX |
| 86102 | LACERATION OF HEART WITHOUT PENETRATION OF HEART CHAMBERS OR WITHOUT MENTION OF OPEN WOUND INTO THORAX | 90189 | INJURY TO OTHER SPECIFIED BLOOD VESSELS OF THORAX |
| 86103 | LACERATION OF HEART WITH PENETRATION OF HEART CHAMBERS WITHOUT MENTION OF OPEN WOUND INTO THORAX | 9019 | INJURY TO UNSPECIFIED BLOOD VESSEL OF THORAX |
| 86110 | UNSPECIFIED INJURY OF HEART WITH OPEN WOUND INTO THORAX | | |

Pleural effusion diagnosis codes: (PLEURAD)

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| 0101 | TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS (no longer valid) | 01176 | TPENU, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS |
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| 01010 | TUBERCULOUS PLEURISY IN PRIMARY PROGRESSIVE TUBERCULOSIS, UNSPECIFIED | 0120 | TUBERCULOUS PLEURISY (no longer valid) |
| 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 | TUBERCULOUS PNEUMOTHORAX (no longer valid) | 01206 | TP, TUBERCLE BACILI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL BUT CONFIRMED OTHER METHODS |
| 01170 | TUBERCULOUS PNEUMOTHORAX, UNSPECIFIED | 1972 | SECOND MALIG NEO PLEURA |
| 01171 | TPNEU, BACTERIAL OR HISTOLOGICAL EXAM NOT DONE | 5111 | WITH EFFUSION, WITH MENTION OF A BACTERIAL CAUSE OTHER THAN TUBERCULOSIS |
| 01172 | TPNEU, BACTERIAL OR HISTOLOGICAL EXAM UNKNOWN | 5118 | OTHER SPECIFIED FORM OF EFFUSION, EXCEPT TUBERCULOUS (end 2009) |
| 01173 | TPNEU, TUBERCLE BACILI FOUND BY MICROSCOPY | 51181 | MALIGNANT PLEURAL EFFUSN |

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| 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 |
| <i>Thoracic surgery procedure codes: (THORAIP)</i> | | | |
| 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 |

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| 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 DESTRUCTION 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 |

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| 331 | INCISION OF LUNG | 4241 | PARTIAL ESOPHAGECTOMY |
| 3320 | THORACOSCOPIC 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 ESOPHAGOENTEROSTOMY |
| 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 AND 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 |

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| 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 THORACOSCOPY | 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)

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

Diaphragmatic repair procedure codes: (DIAPHRP)

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|------|--------------------------|------|--------------------------|
| 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)

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| 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 |

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| 3533 | Annuloplasty | 3733 | Excision or destruction of other lesion or tissue of heart, open approach |
| 3534 | Infundibulectomy | 3735 | Partial ventriculectomy |
| 3535 | Operations on trabeculae carnae 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 |

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| 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 |