

Perioperative Hemorrhage or Hematoma Rate Technical Specifications

Patient Safety Indicators 09 (PSI 09)

AHRQ Quality Indicators™, Research Version 5.0

November 2014

Provider-Level Indicator

Type of Score: Rate

Description

Perioperative hemorrhage or hematoma cases with control of perioperative hemorrhage, drainage of hematoma, or a miscellaneous hemorrhage- or hematoma-related procedure following surgery per 1,000 surgical discharges for patients ages 18 years and older. Excludes cases with a diagnosis of coagulation disorder; cases with a principal diagnosis of perioperative hemorrhage or hematoma; cases with a secondary diagnosis of perioperative hemorrhage or hematoma present on admission; cases where the only operating room procedure is control of perioperative hemorrhage, drainage of hematoma, or a miscellaneous hemorrhage- or hematoma- related procedure; 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 either:

- any secondary ICD-9-CM diagnosis codes for perioperative hemorrhage or hematoma and any-listed ICD-9-CM procedure codes for control of perioperative hemorrhage or evacuation of hematoma;

ICD-9-CM Perioperative hemorrhage or hematoma diagnosis codes:

| | | | |
|-------|-------------------------|-------|-----------------------|
| 99811 | HEMORRHAGE COMPLIC PROC | 99812 | HEMATOMA COMPLIC PROC |
|-------|-------------------------|-------|-----------------------|

ICD-9-CM Control of perioperative hemorrhage and evacuation of hematoma procedure codes:

| | | | |
|------|--------------------------------------|------|-------------------------------|
| 1809 | OTHER INCISION OF EXTERNAL EAR | 3855 | THORAC VAR V LIG-STRIP |
| 540 | INCISION OF ABDOMINAL WALL | 3857 | ABD VARICOS V LIGA-STRIP |
| 5412 | REOPENING OF RECENT LAPAROTOMY SITE | 3859 | LEG VARICOS V LIGA-STRIP |
| 5919 | OTHER INCISION OF PERIVESICLE TISSUE | 387 | INTERRUPTION OF THE VENA CAVA |
| 610 | INCISION AND DRAINAGE OF SCROTUM | 3930 | SUTURE OF VESSEL NOS |

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| | | | |
|------|--|------|---|
| 6998 | AND TUNICA AND VAGINALIS OTHER OPERATIONS ON SUPPORTING STRUCTURES OF UTERUS | 3931 | SUTURE OF ARTERY |
| 7014 | OTHER VAGINOTOMY | 3932 | SUTURE OF VEIN |
| 7109 | OTHER INCISION OF VULVA AND PERINEUM | 3952 | OTHER REPAIR OF ANEURYSM |
| 7591 | EVACUATION OF OBSTETRICAL INCISIONAL HEMATOMA OF PERINEUM | 3953 | REPAIR OF ARTERIOVENOUS FISTULA |
| 7592 | EVACUATION OF OTHER HEMATOMA OF VULVA OR VAGINA | 3972 | ENDOVASCULAR REPAIR OR OCCLUSION OF HEAD AND NECK VESSELS |
| 8604 | OTHER INCISION WITH DRAINAGE OF SKIN AND SUBCUTANEOUS TISSUE | 3976 | ENDOVASCULAR EMBOLIZATION/OCCLUSION VESSELS HEAD/NECK USING BIOACTIVE COILS |
| 287 | CONTROL OF HEMORRHAGE AFTER TONSILLECTOMY AND ADENOIDECTOMY | 3979 | OTHER ENDOVASCULAR REPAIR (OF ANEURYSM) OF OTHER VESSELS |
| 3880 | OTHER SURGICAL OCCLUSION OF UNSPECIFIED SITE | 398 | OPERATIONS ON CAROTID BODY AND OTHER VASCULAR BODIES |
| 3881 | OTHER SURGICAL OCCLUSION OF INTRACRANIAL VESSELS | 400 | INCISION OF LYMPHATIC STRUCTURES |
| 3882 | OTHER SURGICAL OCCLUSION OF OTHER VESSELS OF HEAD AND NECK | 412 | SPLENOTOMY |
| 3883 | OTHER SURGICAL OCCLUSION OF UPPER LIMB VESSELS | 4209 | OTHER INCISION OF ESOPHAGUS |
| 3884 | OTHER SURGICAL OCCLUSION OF AORTA, ABDOMINAL | 4221 | OPERATIVE ESOPHAGOSCOPY BY INCISION |
| 3885 | OTHER SURGICAL OCCLUSION OF THORACIC VESSEL | 4222 | ESOPHAGOSCOPY THROUGH ARTIFICIAL STOMA |
| 3886 | OTHER SURGICAL OCCLUSION OF ABDOMINAL ARTERIES | 4223 | OTHER ESOPHAGOSCOPY |
| 3887 | OTHER SURGICAL OCCLUSION OF VESSELS ABDOMINAL VEINS | 4233 | ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF |
| 3888 | OTHER SURGICAL OCCLUSION OF LOWER LIMB ARTERIES | 4239 | OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS |
| 3889 | OTHER SURGICAL OCCLUSION OF LOWER LIMB VEINS | 4291 | LIGATION OF ESOPHAGEAL VARICES |
| 3941 | CONTROL OF HEMORRHAGE FOLLOWING VASCULAR SURGERY | 430 | GASTROTOMY |
| 3998 | CONTROL OF HEMORRHAGE NOS | 4341 | ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF |
| 4995 | CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF ANUS | 4411 | TRANSABDOMINAL GASTROSCOPY |
| 5793 | CONTROL OF (POSTOPERATIVE HEMORRHAGE OF BLADDER) | 4412 | GASTROSCOPY THROUGH ARTIFICIAL STOMA |
| 6094 | CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF PROSTATE | 4413 | OTHER GASTROSCOPY |
| 0121 | INCISION AND DRAINAGE OF CRANIAL SINUS | 4440 | SUTURE PEPTIC ULCER NOS |
| 0124 | OTHER CRANIOTOMY | 4441 | SUT GASTRIC ULCER SITE |
| 0131 | INCISION OF CEREBRAL MENINGES | 4442 | SUTURE DUODEN ULCER SITE |
| 0139 | OTHER INCISION OF BRAIN | 4443 | ENDOSC CONTROL GAST HEM |
| 0213 | LIGATION OF MENINGEAL VESSEL | 4444 | TRANSCATH EMBO GAST HEM |
| 0239 | OTHER OPERATIONS TO ESTABLISH DRAINAGE OF VENTRICLE | 4449 | OTHER CONTROL GAST HEM |
| 0241 | IRRIGATION AND EXPLORATION OF VENTRICULAR SHUNT | 4491 | LIGATION OF GASTRIC VARICES |
| 0309 | OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL | 4500 | INTESTINAL INCISION NOS |
| 0401 | EXCISION OF ACOUSTIC NEUROMA | 4501 | DUODENAL INCISION |
| 0404 | OTHER INCISION OF CRANIAL AND | 4502 | SMALL BOWEL INCISION NEC |

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| | | | |
|------|--|------|---|
| | PERIPHERAL NERVES | | |
| 0443 | RELEASE OF CARPAL TUNNEL | 4503 | LARGE BOWEL INCISION |
| 0444 | RELEASE OF TARSAL TUNNEL | 4511 | TRANSABDOMINAL ENDOSCOPY OF SMALL INTESTINE |
| 0602 | REOPENING OF WOUND OF THYROID FIELD | 4512 | ENDOSCOPY OF SMALL INTESTINE THROUGH ARTIFICIAL STOMA |
| 0609 | OTHER INCISION OF THYROID FIELD | 4513 | OTHER ENDOSCOPY OF SMALL INTESTINE |
| 0692 | LIGATION OF THYROID VESSELS | 4516 | ESOPHAGOGASTRODUODENOSCOPY (EGD) WITH CLOSED BIOPSY |
| 0700 | ADRENAL EXPLORATION NOS | 4521 | TRANSABDOMINAL ENDOSCOPY OF LARGE INTESTINE |
| 0701 | UNILAT ADRENAL EXPLORAT | 4522 | ENDOSCOPY OF LARGE INTESTINE THROUGH ARTIFICIAL STOMA |
| 0702 | BILAT ADRENAL EXPLORAT | 4523 | COLONOSCOPY |
| 0741 | INCISION OF ADRENAL GLAND | 4524 | FLEXIBLE SIGMOIDOSCOPY |
| 0743 | LIGATION OF ADRENAL VESSELS | 4543 | ENDOSCOPIC DESTRUCTION OF OTHER LESION OR TISSUE OF LARGE |
| 0751 | EXPLORATION OF PINEAL FIELD | 4549 | OTHER DESTRUCTION OF LESION OF LARGE INTESTINE |
| 0752 | INCISION OF PINEAL GLAND | 480 | PROCTOTOMY |
| 0771 | EXPLORATION OF PITUITARY FOSSA | 4821 | TRANSABDOMINAL PROCTOSIGMOIDOSCOPY |
| 0772 | INCISION OF PITUITARY GLAND | 4822 | PROCTOSIGMOIDOSCOPY THROUGH ARTIFICIAL STOMA |
| 0791 | EXPLORATION OF THYMUS FIELD | 4823 | RIGID PROCTOSIGMOIDOSCOPY |
| 0792 | INCISION OF THYMUS | 4921 | ANOSCOPY |
| 0795 | THORACOSCOPIC INCISION OF THYMUS | 4945 | LIGATION OF HEMORRHOIDS |
| 0809 | OTHER INCISION OF EYELID | 500 | HEPATOTOMY |
| 090 | INCISION OF LACRIMAL GLAND | 5110 | ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY |
| 0953 | INCISION OF LACRIMAL SAC | 5111 | ENDOSCOPIC RETROGRADE CHOLANGIOGRAPHY |
| 1244 | EXCISION OF LESION OF CILIARY BODY | 5141 | COMMON DUCT EXPLORATION FOR REMOVAL OF CALCULUS |
| 1289 | OTHER OPERATIONS ON SCLERA | 5142 | COMMON DUCT EXPLORATION FOR RELIEF OF OTHER OBSTRUCTION |
| 149 | OTHER OPERATIONS ON RETINA, CHOROID, AND POSTERIOR CHAMBER | 5149 | INCISION OF OTHER BILE DUCTS FOR RELIEF OF OBSTRUCTION |
| 1609 | OTHER ORBITOTOMY | 5151 | COMMON DUCT EXPLORATION |
| 1802 | INCISION OF EXTERNAL AUDITORY CANAL | 5159 | BILE DUCT INCISION NEC |
| 1811 | OTOSCOPY | 5184 | ENDOSCOPIC DILATION OF AMPULLA AND BILIARY DUCT |
| 2001 | MYRINGOTOMY WITH INSERTION OF TUBE | 5188 | ENDOSCOPIC REMOVAL OF STONE(S) FROM BILIARY TRACT |
| 2009 | OTHER MYRINGOTOMY | 5196 | PERCUTANEOUS EXTRACTION OF COMMON DUCT STONES |
| 2021 | MASTOID INCISION | 5198 | OTHER PERCUTANEOUS PROCEDURES ON BILIARY TRACT |
| 2022 | PETRUS PYRAM AIR CEL INC | 5209 | OTHER PANCREATOTOMY |
| 2023 | MIDDLE EAR INCISION | 5213 | ENDOSCOPIC RETROGRADE PANCREATOGRAPHY |
| 2079 | OTHER INCISION, EXCISION, AND DESTRUCTION OF INNER EAR | 5411 | EXPLORATORY LAPAROTOMY |
| 2100 | CONTROL OF EPISTAXIS, NOT OTHERWISE SPECIFIED | 5419 | OTHER LAPAROTOMY |
| 2101 | CONTROL OF EPISTAXIS BY ANTERIOR NASAL PACKING | 5421 | LAPAROSCOPY |
| 2102 | CONTROL OF EPISTAXIS BY POSTERIOR (AND ANTERIOR) PACKING | 5495 | INCISION OF PERITONEUM |
| 2103 | CONTROL OF EPISTAXIS BY | 5501 | NEPHROTOMY |

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| 2104 | CAUTERIZATION (AND PACKING) CONTROL OF EPISTAXIS BY LIGATION OF ETHMOIDAL ARTERIES | 5511 | PYELOTOMY |
| 2105 | CONTROL OF EPISTAXIS BY (TRANSANTRAL) LIGATION OF THE | 5521 | NEPHROSCOPY |
| 2106 | CONTROL OF EPISTAXIS BY LIGATION OF THE EXTERNAL CAROTID | 5522 | PYELOSCOPY |
| 2107 | CONTROL OF EPISTAXIS BY EXCISION OF NASAL MUCOSA AND SKIN | 562 | URETEROTOMY |
| 2109 | CONTROL OF EPISTAXIS BY OTHER MEANS | 5631 | URETEROSCOPY |
| 211 | INCISION OF NOSE | 5719 | OTHER CYSTOTOMY |
| 2121 | RHINOSCOPY | 5731 | CYSTOSCOPY THROUGH ARTIFICIAL STOMA |
| 2219 | OTHER DIAGNOSTIC PROCEDURES ON NASAL SINUSES | 5732 | OTHER CYSTOSCOPY |
| 2239 | OTHER EXTERNAL MAXILLARY ANTROTOMY | 580 | URETHROTOMY |
| 2241 | FRONTAL SINUSOTOMY | 5822 | OTHER URETHROSCOPY |
| 2251 | ETHMOIDOTOMY | 5909 | OTHER INCISION OF PERIRENAL OR PERIURETERAL TISSUE |
| 2252 | SPHENOIDOTOMY | 600 | INCISION OF PROSTATE |
| 260 | INCISION OF SALIVARY GLAND OR DUCT | 6081 | INCISION OF PERIPROSTATIC TISSUE |
| 270 | DRAINAGE OF FACE AND FLOOR OF MOUTH | 620 | INCISION OF TESTIS |
| 280 | INCISION AND DRAINAGE OF TONSIL AND PERITONSILLAR STRUCTURES | 631 | EXCISION OF VARICOCELE AND HYDROCELE OF SPERMATIC CORD |
| 2911 | PHARYNGOSCOPY | 636 | VASOTOMY |
| 313 | OTHER INCISION OF LARYNX OR TRACHEA | 6372 | LIGATION OF SPERMATIC CORD |
| 3141 | TRACHEOSCOPY THROUGH ARTIFICIAL STOMA | 6392 | EPIDIDYMYOTOMY |
| 3142 | LARYNGOSCOPY AND OTHER TRACHEOSCOPY | 6393 | INCISION OF SPERMATIC CORD |
| 330 | INCISION OF BRONCHUS | 6492 | INCISION OF PENIS |
| 331 | INCISION OF LUNG | 6501 | LAPAROSCOPIC OOPHOROTOMY |
| 3321 | BRONCHOSCOPY THROUGH ARTIFICIAL STOMA | 6509 | OTHER OOPHOROTOMY |
| 3322 | FIBEROPTIC BRONCHOSCOPY | 6601 | SALPINGOTOMY |
| 3323 | OTHER BRONCHOSCOPY | 680 | HYSTEROTOMY |
| 3324 | CLOSED (ENDOSCOPIC) BIOPSY OF BRONCHUS | 6811 | DIGITAL EXAMINATION OF UTERUS |
| 3402 | EXPLORATORY THORACOTOMY | 6812 | HYSTEROSCOPY |
| 3403 | REOPENING OF RECENT THORACOTOMY SITE | 6824 | 1 /*UTERINE ART EMB W COILS (BEGIN 2011) |
| 3409 | OTHER INCISION OF PLEURA | 6825 | 1 /*UTERINE ART EMB W/O COIL (BEGIN 2011) |
| 341 | INCISION OF MEDIASTINUM | 6995 | INCISION OF CERVIX |
| 3421 | TRANSPLEURAL THORACOSCOPY | 700 | CULDOCENTESIS |
| 3422 | MEDIASTINOSCOPY | 7012 | CULDOTOMY |
| 3582 | TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION | 7021 | VAGINOSCOPY |
| 3639 | OTHER HEART REVASCLARIZATION | 7022 | CULDOSCOPY |
| 3699 | OTHER OPERATIONS ON VESSELS OF HEART | 757 | MANUAL EXPLORATION OF UTERINE CAVITY, POSTPARTUM |
| 370 | PERICARDIOCENTESIS | 7710 | OTHER INCISION OF BONE WITHOUT DIVISION, UNSPECIFIED SITE |
| 3711 | CARDIOTOMY | 8010 | OTHER ARTHROTOMY, UNSPECIFIED SITE |
| 3799 | OTHER OPERATIONS ON HEART AND PERICARDIUM | 8201 | EXPLORATION OF TENDON SHEATH OF HAND |
| 3800 | INCISION OF VESSEL NOS | 8202 | MYOTOMY OF HAND |

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| | | | |
|------|--------------------------|------|--|
| 3801 | INTRACRAN VESSEL INCIS | 8203 | BURSOTOMY OF HAND |
| 3802 | HEAD/NECK VES INCIS NEC | 8204 | INCISION AND DRAINAGE OF PALMAR OR THENAR SPACE |
| 3803 | UPPER LIMB VESSEL INCIS | 8209 | OTHER INCISION OF SOFT TISSUE OF HAND |
| 3804 | INCISION OF AORTA | 8301 | EXPLORATION OF TENDON SHEATH |
| 3805 | THORACIC VESSEL INC NEC | 8302 | MYOTOMY |
| 3806 | ABDOMEN ARTERY INCISION | 8303 | BURSOTOMY |
| 3807 | ABDOMINAL VEIN INCISION | 8309 | OTHER INCISION OF SOFT TISSUE |
| 3808 | LOWER LIMB ARTERY INCIS | 850 | MASTOTOMY |
| 3809 | LOWER LIMB VEIN INCISION | 8603 | INCISION OF PILONIDAL SINUS OR CYST |
| 3850 | VARICOSE V LIG-STRIP NOS | 8609 | OTHER INCISION OF SKIN AND SUBCUTANEOUS TISSUE |
| 3851 | INTCRAN VAR V LIG-STRIP | 9621 | DILATION OF FRONTAL NASAL DUCT |
| 3852 | HEAD/NECK VAR V LIG-STR | 9925 | INJECTION OR INFUSION OF CANCER CHEMOTHERAPEUTIC SUBSTANCE |
| 3853 | ARM VARICOSE V LIG-STRIP | 9929 | INJECTION OR INFUSION OF OTHER THERAPEUTIC OR PROPHYLACTIC |

ICD-9-CM Miscellaneous hemorrhage- or hematoma-related procedure codes:

| | | | |
|------|---|------|---|
| 0121 | INCISION AND DRAINAGE OF CRANIAL SINUS | 400 | INCISION OF LYMPHATIC STRUCTURES |
| 0124 | OTHER CRANIOTOMY | 412 | SPLENOTOMY |
| 0131 | INCISION OF CEREBRAL MENINGES | 4209 | OTHER INCISION OF ESOPHAGUS |
| 0139 | OTHER INCISION OF BRAIN | 4221 | OPERATIVE ESOPHAGOSCOPY BY INCISION |
| 0213 | LIGATION OF MENINGEAL VESSEL | 4222 | ESOPHAGOSCOPY THROUGH ARTIFICIAL STOMA |
| 0239 | OTHER OPERATIONS TO ESTABLISH DRAINAGE OF VENTRICLE | 4223 | OTHER ESOPHAGOSCOPY |
| 0241 | IRRIGATION AND EXPLORATION OF VENTRICULAR SHUNT | 4233 | ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF |
| 0309 | OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL | 4239 | OTHER DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS |
| 0401 | EXCISION OF ACOUSTIC NEUROMA | 4291 | LIGATION OF ESOPHAGEAL VARICES |
| 0404 | OTHER INCISION OF CRANIAL AND PERIPHERAL NERVES | 430 | GASTROTOMY |
| 0443 | RELEASE OF CARPAL TUNNEL | 4341 | ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF |
| 0444 | RELEASE OF TARSAL TUNNEL | 4411 | TRANSABDOMINAL GASTROSCOPY |
| 0602 | REOPENING OF WOUND OF THYROID FIELD | 4412 | GASTROSCOPY THROUGH ARTIFICIAL STOMA |
| 0609 | OTHER INCISION OF THYROID FIELD | 4413 | OTHER GASTROSCOPY |
| 0692 | LIGATION OF THYROID VESSELS | 4440 | SUTURE PEPTIC ULCER NOS |
| 0700 | ADRENAL EXPLORATION NOS | 4441 | SUT GASTRIC ULCER SITE |
| 0701 | UNILAT ADRENAL EXPLORAT | 4442 | SUTURE DUODEN ULCER SITE |
| 0702 | BILAT ADRENAL EXPLORAT | 4443 | ENDOSC CONTROL GAST HEM |
| 0741 | INCISION OF ADRENAL GLAND | 4444 | TRANSCATH EMBO GAST HEM |
| 0743 | LIGATION OF ADRENAL VESSELS | 4449 | OTHER CONTROL GAST HEM |
| 0751 | EXPLORATION OF PINEAL FIELD | 4491 | LIGATION OF GASTRIC VARICES |

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| | | | |
|------|--|------|---|
| 0752 | INCISION OF PINEAL GLAND | 4500 | INTESTINAL INCISION NOS |
| 0771 | EXPLORATION OF PITUITARY FOSSA | 4501 | DUODENAL INCISION |
| 0772 | INCISION OF PITUITARY GLAND | 4502 | SMALL BOWEL INCISION NEC |
| 0791 | EXPLORATION OF THYMUS FIELD | 4503 | LARGE BOWEL INCISION |
| 0792 | INCISION OF THYMUS | 4511 | TRANSABDOMINAL ENDOSCOPY OF SMALL INTESTINE |
| 0795 | THORACOSCOPIC INCISION OF THYMUS | 4512 | ENDOSCOPY OF SMALL INTESTINE THROUGH ARTIFICIAL STOMA |
| 0809 | OTHER INCISION OF EYELID | 4513 | OTHER ENDOSCOPY OF SMALL INTESTINE |
| 090 | INCISION OF LACRIMAL GLAND | 4516 | ESOPHAGOGASTRODUODENOSCOPY (EGD) WITH CLOSED BIOPSY |
| 0953 | INCISION OF LACRIMAL SAC | 4521 | TRANSABDOMINAL ENDOSCOPY OF LARGE INTESTINE |
| 1244 | EXCISION OF LESION OF CILIARY BODY | 4522 | ENDOSCOPY OF LARGE INTESTINE THROUGH ARTIFICIAL STOMA |
| 1289 | OTHER OPERATIONS ON SCLERA | 4523 | COLONOSCOPY |
| 149 | OTHER OPERATIONS ON RETINA, CHOROID, AND POSTERIOR CHAMBER | 4524 | FLEXIBLE SIGMOIDOSCOPY |
| 1609 | OTHER ORBITOTOMY | 4543 | ENDOSCOPIC DESTRUCTION OF OTHER LESION OR TISSUE OF LARGE |
| 1802 | INCISION OF EXTERNAL AUDITORY CANAL | 4549 | OTHER DESTRUCTION OF LESION OF LARGE INTESTINE |
| 1809 | OTHER INCISION OF EXTERNAL EAR | 480 | PROCTOTOMY |
| 1811 | OTOSCOPY | 4821 | TRANSABDOMINAL PROCTOSIGMOIDOSCOPY |
| 2001 | MYRINGOTOMY WITH INSERTION OF TUBE | 4822 | PROCTOSIGMOIDOSCOPY THROUGH ARTIFICIAL STOMA |
| 2009 | OTHER MYRINGOTOMY | 4823 | RIGID PROCTOSIGMOIDOSCOPY |
| 2021 | MASTOID INCISION | 4921 | ANOSCOPY |
| 2022 | PETRUS PYRAM AIR CEL INC | 4945 | LIGATION OF HEMORRHOIDS |
| 2023 | MIDDLE EAR INCISION | 4995 | CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF ANUS |
| 2079 | OTHER INCISION, EXCISION, AND DESTRUCTION OF INNER EAR | 500 | HEPATOTOMY |
| 2100 | CONTROL OF EPISTAXIS, NOT OTHERWISE SPECIFIED | 5110 | ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY |
| 2101 | CONTROL OF EPISTAXIS BY ANTERIOR NASAL PACKING | 5111 | ENDOSCOPIC RETROGRADE CHOLANGIOGRAPHY |
| 2102 | CONTROL OF EPISTAXIS BY POSTERIOR (AND ANTERIOR) PACKING | 5141 | COMMON DUCT EXPLORATION FOR REMOVAL OF CALCULUS |
| 2103 | CONTROL OF EPISTAXIS BY CAUTERIZATION (AND PACKING) | 5142 | COMMON DUCT EXPLORATION FOR RELIEF OF OTHER OBSTRUCTION |
| 2104 | CONTROL OF EPISTAXIS BY LIGATION OF ETHMOIDAL ARTERIES | 5149 | INCISION OF OTHER BILE DUCTS FOR RELIEF OF OBSTRUCTION |
| 2105 | CONTROL OF EPISTAXIS BY (TRANSANTRAL) LIGATION OF THE | 5151 | COMMON DUCT EXPLORATION |
| 2106 | CONTROL OF EPISTAXIS BY LIGATION | 5159 | BILE DUCT INCISION NEC |

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| | OF THE EXTERNAL CAROTID | | |
| 2107 | CONTROL OF EPISTAXIS BY EXCISION OF NASAL MUCOSA AND SKIN | 5184 | ENDOSCOPIC DILATION OF AMPULLA AND BILIARY DUCT |
| 2109 | CONTROL OF EPISTAXIS BY OTHER MEANS | 5188 | ENDOSCOPIC REMOVAL OF STONE(S) FROM BILIARY TRACT |
| 211 | INCISION OF NOSE | 5196 | PERCUTANEOUS EXTRACTION OF COMMON DUCT STONES |
| 2121 | RHINOSCOPY | 5198 | OTHER PERCUTANEOUS PROCEDURES ON BILIARY TRACT |
| 2219 | OTHER DIAGNOSTIC PROCEDURES ON NASAL SINUSES | 5209 | OTHER PANCREATOTOMY |
| 2239 | OTHER EXTERNAL MAXILLARY ANTROTOMY | 5213 | ENDOSCOPIC RETROGRADE PANCREATOGRAPHY |
| 2241 | FRONTAL SINUSOTOMY | 540 | INCISION OF ABDOMINAL WALL |
| 2251 | ETHMOIDOTOMY | 5411 | EXPLORATORY LAPAROTOMY |
| 2252 | SPHENOIDOTOMY | 5412 | REOPENING OF RECENT LAPAROTOMY SITE |
| 260 | INCISION OF SALIVARY GLAND OR DUCT | 5419 | OTHER LAPAROTOMY |
| 270 | DRAINAGE OF FACE AND FLOOR OF MOUTH | 5421 | LAPAROSCOPY |
| 280 | INCISION AND DRAINAGE OF TONSIL AND PERITONSILLAR STRUCTURES | 5495 | INCISION OF PERITONEUM |
| 287 | CONTROL OF HEMORRHAGE AFTER TONSILLECTOMY AND ADENOIDECTOMY | 5501 | NEPHROTOMY |
| 2911 | PHARYNGOSCOPY | 5511 | PYELOTOMY |
| 313 | OTHER INCISION OF LARYNX OR TRACHEA | 5521 | NEPHROSCOPY |
| 3141 | TRACHEOSCOPY THROUGH ARTIFICIAL STOMA | 5522 | PYELOSCOPY |
| 3142 | LARYNGOSCOPY AND OTHER TRACHEOSCOPY | 562 | URETEROTOMY |
| 330 | INCISION OF BRONCHUS | 5631 | URETEROSCOPY |
| 331 | INCISION OF LUNG | 5719 | OTHER CYSTOTOMY |
| 3321 | BRONCHOSCOPY THROUGH ARTIFICIAL STOMA | 5731 | CYSTOSCOPY THROUGH ARTIFICIAL STOMA |
| 3322 | FIBEROPTIC BRONCHOSCOPY | 5732 | OTHER CYSTOSCOPY |
| 3323 | OTHER BRONCHOSCOPY | 5793 | CONTROL OF (POSTOPERATIVE HEMORRHAGE OF BLADDER) |
| 3324 | CLOSED (ENDOSCOPIC) BIOPSY OF BRONCHUS | 580 | URETHROTOMY |
| 3402 | EXPLORATORY THORACOTOMY | 5822 | OTHER URETHROSCOPY |
| 3403 | REOPENING OF RECENT THORACOTOMY SITE | 5909 | OTHER INCISION OF PERIRENAL OR PERIURETERAL TISSUE |
| 3409 | OTHER INCISION OF PLEURA | 5919 | OTHER INCISION OF PERIVESICLE TISSUE |
| 341 | INCISION OF MEDIASTINUM | 600 | INCISION OF PROSTATE |

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|------|--|------|---|
| 3421 | TRANSPLEURAL THORACOSCOPY | 6081 | INCISION OF PERIPROSTATIC TISSUE |
| 3422 | MEDIASTINOSCOPY | 6094 | CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF PROSTATE |
| 3582 | TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION | 610 | INCISION AND DRAINAGE OF SCROTUM AND TUNICA AND VAGINALIS |
| 3639 | OTHER HEART REVASCULARIZATION | 620 | INCISION OF TESTIS |
| 3699 | OTHER OPERATIONS ON VESSELS OF HEART | 631 | EXCISION OF VARICOCELE AND HYDROCELE OF SPERMATIC CORD |
| 370 | PERICARDIOCENTESIS | 636 | VASOTOMY |
| 3711 | CARDIOTOMY | 6372 | LIGATION OF SPERMATIC CORD |
| 3799 | OTHER OPERATIONS ON HEART AND PERICARDIUM | 6392 | EPIDIDYMYOTOMY |
| 3800 | INCISION OF VESSEL NOS | 6393 | INCISION OF SPERMATIC CORD |
| 3801 | INTRACRAN VESSEL INCIS | 6492 | INCISION OF PENIS |
| 3802 | HEAD/NECK VES INCIS NEC | 6501 | LAPAROSCOPIC OOPHOROTOMY |
| 3803 | UPPER LIMB VESSEL INCIS | 6509 | OTHER OOPHOROTOMY |
| 3804 | INCISION OF AORTA | 6601 | SALPINGOTOMY |
| 3805 | THORACIC VESSEL INC NEC | 680 | HYSTEROTOMY |
| 3806 | ABDOMEN ARTERY INCISION | 6811 | DIGITAL EXAMINATION OF UTERUS |
| 3807 | ABDOMINAL VEIN INCISION | 6812 | HYSTEROSCOPY |
| 3808 | LOWER LIMB ARTERY INCIS | 6995 | INCISION OF CERVIX |
| 3809 | LOWER LIMB VEIN INCISION | 6998 | OTHER OPERATIONS ON SUPPORTING STRUCTURES OF UTERUS |
| 3850 | VARICOSE V LIG-STRIP NOS | 700 | CULDOCENTESIS |
| 3851 | INTCRAN VAR V LIG-STRIP | 7012 | CULDOTOMY |
| 3852 | HEAD/NECK VAR V LIG-STR | 7014 | OTHER VAGINOTOMY |
| 3853 | ARM VARICOSE V LIG-STRIP | 7021 | VAGINOSCOPY |
| 3855 | THORAC VAR V LIG-STRIP | 7022 | CULDOSCOPY |
| 3857 | ABD VARICOS V LIGA-STRIP | 7109 | OTHER INCISION OF VULVA AND PERINEUM |
| 3859 | LEG VARICOS V LIGA-STRIP | 757 | MANUAL EXPLORATION OF UTERINE CAVITY, POSTPARTUM |
| 387 | INTERRUPTION OF THE VENA CAVA | 7591 | EVACUATION OF OBSTETRICAL INCISIONAL HEMATOMA OF PERINEUM |
| 3880 | OTHER SURGICAL OCCLUSION OF UNSPECIFIED SITE | 7592 | EVACUATION OF OTHER HEMATOMA OF VULVA OR VAGINA |
| 3881 | OTHER SURGICAL OCCLUSION OF INTRACRANIAL VESSELS | 7710 | OTHER INCISION OF BONE WITHOUT DIVISION, UNSPECIFIED SITE |
| 3882 | OTHER SURGICAL OCCLUSION OF OTHER VESSELS OF HEAD AND NECK | 8010 | OTHER ARTHROTOMY, UNSPECIFIED SITE |
| 3883 | OTHER SURGICAL OCCLUSION OF UPPER LIMB VESSELS | 8201 | EXPLORATION OF TENDON SHEATH OF HAND |
| 3884 | OTHER SURGICAL OCCLUSION OF AORTA, ABDOMINAL | 8202 | MYOTOMY OF HAND |
| 3885 | OTHER SURGICAL OCCLUSION OF | 8203 | BURSOTOMY OF HAND |

| | | | |
|------|---|------|--|
| | THORACIC VESSEL | | |
| 3886 | OTHER SURGICAL OCCLUSION OF ABDOMINAL ARTERIES | 8204 | INCISION AND DRAINAGE OF PALMAR OR THENAR SPACE |
| 3887 | OTHER SURGICAL OCCLUSION OF VESSELS ABDOMINAL VEINS | 8209 | OTHER INCISION OF SOFT TISSUE OF HAND |
| 3888 | OTHER SURGICAL OCCLUSION OF LOWER LIMB ARTERIES | 8301 | EXPLORATION OF TENDON SHEATH |
| 3889 | OTHER SURGICAL OCCLUSION OF LOWER LIMB VEINS | 8302 | MYOTOMY |
| 3930 | SUTURE OF VESSEL NOS | 8303 | BURSOTOMY |
| 3931 | SUTURE OF ARTERY | 8309 | OTHER INCISION OF SOFT TISSUE |
| 3932 | SUTURE OF VEIN | 850 | MASTOTOMY |
| 3941 | CONTROL OF HEMORRHAGE FOLLOWING VASCULAR SURGERY | 8603 | INCISION OF PILONIDAL SINUS OR CYST |
| 3952 | OTHER REPAIR OF ANEURYSM | 8604 | OTHER INCISION WITH DRAINAGE OF SKIN AND SUBCUTANEOUS TISSUE |
| 3953 | REPAIR OF ARTERIOVENOUS FISTULA | 8609 | OTHER INCISION OF SKIN AND SUBCUTANEOUS TISSUE |
| 3972 | ENDOVASCULAR REPAIR OR OCCLUSION OF HEAD AND NECK VESSELS | 9621 | DILATION OF FRONTAL NASAL DUCT |
| 3979 | OTHER ENDOVASCULAR REPAIR (OF ANEURYSM) OF OTHER VESSELS | 9925 | INJECTION OR INFUSION OF CANCER CHEMOTHERAPEUTIC SUBSTANCE |
| 398 | OPERATIONS ON CAROTID BODY AND OTHER VASCULAR BODIES | 9929 | INJECTION OR INFUSION OF OTHER THERAPEUTIC OR PROPHYLACTIC |
| 3998 | CONTROL OF HEMORRHAGE NOS | | |

Denominator

Surgical discharges, for patients ages 18 years and older, with any-listed ICD-9-CM procedure codes for an operating room procedure. Surgical discharges are defined by specific DRG or MS-DRG codes.

See *Patient Safety Indicators Appendices*:

- Appendix A – Operating Room Procedure Codes
- 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 admission¹) for perioperative hemorrhage or postoperative hematoma (see above)
- where the only operating room procedure is control of postoperative hemorrhage (see above), drainage of hematoma (see above), or a miscellaneous hemorrhage- or hematoma-related procedure (see above)
- with any secondary ICD-9-CM diagnosis codes for perioperative hemorrhage or postoperative hematoma (see above) and any-listed ICD-9-CM procedure codes for control of perioperative hemorrhage or evacuation of hematoma or miscellaneous hemorrhage- or hematoma- related procedure occurring before the first operating room procedure²
- with any-listed ICD-9-CM diagnosis codes for coagulation disorder
- 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 Coagulation disorder diagnosis codes:

| | | | |
|-------|---|-------|--|
| 2860 | CONG FACTOR VIII DIORD | 2871 | QUALITATIVE PLATELET DEFECTS |
| 2861 | CONG FACTOR IX DISORDER | 28730 | PRIMARY THROMBOCYTOPENIA, UNSPECIFIED |
| 2862 | CONG FACTOR XI DISORDER | 28731 | IMMUNE THROMBOCYTOPENIC PURPURA |
| 2863 | CONG DEF CLOT FACTOR NEC | 28732 | EVANS SYNDROME |
| 2864 | VON WILLEBRANDS DISEASE | 28733 | CONGENITAL AND HEREDITARY THROMBOCYTOPENIC PURPURA |
| 28652 | ACQUIRED HEMOPHILIA | 28739 | OTHER PRIMARY THROMBOCYTOPENIA |
| 28653 | ANTIPHOSPHOLIPID ANTIBODY WITH HEMORRHAGIC DISORDER | 28741 | STTRANSFUSION PURPURA |
| 28659 | OT HEM D/T CIRC ANTICOAG | 2875 | THROMBOCYTOPENIA UNSPECIFIED |
| 2866 | DEFIBRATION SYNDROME | 2878 | OTHER SPECIFIED HEMORRHAGIC CONDITIONS |
| 2867 | ACQ COAGUL FACTOR DEFIC | 2879 | UNSPECIFIED HEMORRHAGIC CONDITIONS |
| 2869 | COAGULAT DEFECT NEC NOS | | |

¹ Only for cases that otherwise qualify for the numerator.

² If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available