**Table 2. Intrinsic cardiac risks of commonly performed procedures (1)**

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| **Intermediate Intrinsic Cardiac Risk** | |
| **CPT Code** | **Description** |
| 52240 | Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; large  bladder tumor(s) |
| 27814 | Open treatment of bimalleolar ankle fracture (eg, lateral and medial malleoli, or lateral and posterior malleoli, or medial and posterior malleoli), includes internal fixation, when performed |
| 43279 | Laparoscopy, surgical, esophagomyotomy (Heller type), with fundoplasty, when performed |
| 55866 | Laparoscopy, surgical prostatectomy, retropubic radical, including nerve sparing, includes robotic assistance, when performed |
| 27487 | Revision of total knee arthroplasty, with or without allograft; femoral and entire tibial component |
| 60271 | Thyroidectomy, including substernal thyroid; cervical approach |
| 11042 | Debridement, subcutaneous tissue (includes epidermis and dermis, if performed); first 20 sq cm or less |
| 49653 | Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion,  when performed); incarcerated or strangulated |
| 49422 | Removal of permanent intraperitoneal catheter or cannula |
| 44180 | Laparoscopy, surgical, enterolysis (freeing of intestinal adhesion) (separate procedure) |
| 49560 | Repair initial incisional or ventral hernia; reducible |
| 63005 | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; lumbar, except for spondylolisthesis |
| 49652 | Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion,  when performed); reducible |
| 63047 | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; lumbar |
| 44950 | Appendectomy; |
| 27130 | Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft |
| 22551 | Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and  decompression of spinal cord and/or nerve roots; cervical below C2 |
| 27486 | Revision of total knee arthroplasty, with or without allograft; 1 component |
| 49321 | Laparoscopy, surgical; with biopsy (single or multiple) |
| 49654 | Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); reducible |
| 22633 | Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace and segment; lumbar |
| 58720 | Salpingo-oophorectomy, complete or partial, unilateral or bilateral (separate procedure) |
| 58548 | Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with removal of tube(s) and ovary(s), if performed |
| 44188 | Laparoscopy, surgical, colostomy or skin level cecostomy |
| 50546 | Laparoscopy, surgical; nephrectomy, including partial ureterectomy |
| 58180 | Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with  or without removal of ovary(s) |
| 37799 | Unlisted procedure, vascular surgery |
| 45130 | Excision of rectal procidentia, with anastomosis; perineal approach |
| 44227 | Laparoscopy, surgical, closure of enterostomy, large or small intestine, with resection and anastomosis |
| 63020 | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy,  foraminotomy and/or excision of herniated intervertebral disc, including open and endoscopically-assisted approaches; 1 interspace, cervical |
| **High Intrinsic Cardiac Risk** | |
| **CPT Code** | **Description** |
| 34804 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using unibody bifurcated  prosthesis |
| 49655 | Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated |
| 23470 | Arthroplasty, glenohumeral joint; hemiarthroplasty |
| 28805 | Amputation, foot; transmetatarsal |
| 47379 | Unlisted laparoscopic procedure, liver |
| 47605 | Cholecystectomy; with cholangiography |
| 11044 | Debridement, muscle and/or fascia (includes epidermis, dermis, and subcutaneous tissue, if performed); and bone |
| 49561 | Repair initial incisional or ventral hernia; incarcerated or strangulated |
| 43281 | Laparoscopy, surgical, repair of paraesophageal hernia, includes fundoplasty, when performed; without  implantation of mesh |
| 50545 | Laparoscopy, surgical; radical nephrectomy (includes removal of gerota's fascia and surrounding fatty tissue, removal of regional lymph nodes, and adrenalectomy) |
| 43659 | Unlisted laparoscopy procedure, stomach |
| 34802 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated  prosthesis (1 docking limb) |
| 57425 | Laparoscopy, surgical, colpopexy (suspension of vaginal apex) |
| 55845 | Prostatectomy, retropubic radical, with or without nerve sparing; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes |
| 61510 | Craniectomy, trephination, bone flap craniotomy; for excision of brain tumor, supratentorial, except  meningioma |
| 37226 | Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed |
| 39400 | Mediastinoscopy, with or without biopsy |
| 11043 | Debridement, muscle and/or fascia (includes epidermis, dermis, and subcutaneous tissue, if performed); first 20 sq cm or less |
| 37224 | Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty |
| 63045 | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; cervical |
| 37228 | Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty |
| 44620 | Closure of enterostomy, large or small intestine; |
| 38724 | Cervical lymphadenectomy (modified radical neck dissection) |
| 22612 | Arthrodesis, posterior or posterolateral technique, single level; lumbar (with or without lateral transverse technique) |
| 63075 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophytectomy; cervical, single interspace |
| 34803 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (2 docking limbs) |
| 22630 | Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar |
| 27134 | Revision of total hip arthroplasty; both components, with or without autograft or allograft |
| 32663 | Thoracoscopy, surgical; with lobectomy, total or segmental |
| 49565 | Repair recurrent incisional or ventral hernia; reducible |
| 61512 | Craniectomy, trephination, bone flap craniotomy; for excision of meningioma, supratentorial |
| 58210 | Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with or without removal of tube(s), with or without removal of ovary(s) |
| 63081 | Vertebral corpectomy (vertebral body resection), partial or complete, anterior approach with decompression of spinal cord and/or nerve root(s); cervical, single segment |
| 44320 | Colostomy or skin level cecostomy; |
| 44210 | Laparoscopy, surgical; colectomy, total, abdominal, without proctectomy, with ileostomy or ileoproctostomy |
| 44625 | Closure of enterostomy, large or small intestine; with resection and anastomosis other than colorectal |
| 50543 | Laparoscopy, surgical; partial nephrectomy |
| 19364 | Breast reconstruction with free flap |
| 47600 | Cholecystectomy; |
| 35301 | Thromboendarterectomy, including patch graft, if performed; carotid, vertebral, subclavian, by neck  incision |
| 38120 | Laparoscopy, surgical, splenectomy |
| 15734 | Muscle, myocutaneous, or fasciocutaneous flap; trunk |
| 44205 | Laparoscopy, surgical; colectomy, partial, with removal of terminal ileum with ileocolostomy |
| 22554 | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); cervical below c2 |
| 44202 | Laparoscopy, surgical; enterectomy, resection of small intestine, single resection and anastomosis |
| 49203 | Excision or destruction, open, intra-abdominal tumors, cysts or endometriomas, 1 or more peritoneal, mesenteric, or retroperitoneal primary or secondary tumors; largest tumor 5 cm diameter or less |
| 61518 | Craniectomy for excision of brain tumor, infratentorial or posterior fossa; except meningioma, cerebellopontine angle tumor, or midline tumor at base of skull |
| 27590 | Amputation, thigh, through femur, any level; |
| 44211 | Laparoscopy, surgical; colectomy, total, abdominal, with proctectomy, with ileoanal anastomosis, creation of ileal reservoir (s or j), with loop ileostomy, includes rectal mucosectomy, when performed |
| 49000 | Exploratory laparotomy, exploratory celiotomy with or without biopsy(s) (separate procedure) |
| 44204 | Laparoscopy, surgical; colectomy, partial, with anastomosis |
| 37221 | Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed |
| 27132 | Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allograft |
| 43282 | Laparoscopy, surgical, repair of paraesophageal hernia, includes fundoplasty, when performed; with implantation of mesh |
| 27236 | Open treatment of femoral fracture, proximal end, neck, internal fixation or prosthetic replacement |
| 49566 | Repair recurrent incisional or ventral hernia; incarcerated or strangulated |
| 22558 | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar |
| 44207 | Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis) |
| 27880 | Amputation, leg, through tibia and fibula; |
| 43846 | Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) roux- en-y gastroenterostomy |
| 27244 | Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with plate/screw type implant, with or without cerclage |
| 35661 | Bypass graft, with other than vein; femoral-femoral |
| 44005 | Enterolysis (freeing of intestinal adhesion) (separate  procedure) |
| 27245 | Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with intramedullary implant, with or without interlocking screws and/or cerclage |
| 27125 | Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty) |
| 22600 | Arthrodesis, posterior or posterolateral technique, single level; cervical below C2 segment |
| 35371 | Thromboendarterectomy, including patch graft, if performed; common femoral |
| 44208 | Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis) with colostomy |
| 49205 | Excision or destruction, open, intra-abdominal tumors, cysts or endometriomas, 1 or more peritoneal, mesenteric, or retroperitoneal primary or secondary tumors; largest tumor greater than 10.0 cm diameter |
| 44144 | Colectomy, partial; with resection, with colostomy or ileostomy and creation of mucofistula |
| 50548 | Laparoscopy, surgical; nephrectomy with total ureterectomy |
| 35556 | Bypass graft, with vein; femoral-popliteal |
| 44626 | Closure of enterostomy, large or small intestine; with resection and colorectal anastomosis (eg, closure of hartmann type procedure) |
| 58953 | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking; |
| 44143 | Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure) |
| 47120 | Hepatectomy, resection of liver; partial lobectomy |
| 32480 | Removal of lung, other than total pneumonectomy; single lobe (lobectomy) |
| 35656 | Bypass graft, with other than vein; femoral-popliteal |
| 44140 | Colectomy, partial; with anastomosis |
| 43632 | Gastrectomy, partial, distal; with gastrojejunostomy |
| 44160 | Colectomy, partial, with removal of terminal ileum with ileocolostomy |
| 47125 | Hepatectomy, resection of liver; total left lobectomy |
| 45395 | Laparoscopy, surgical; proctectomy, complete, combined abdominoperineal, with colostomy |
| 35571 | Bypass graft, with vein; popliteal-tibial, -peroneal artery or other distal vessels |
| 48140 | Pancreatectomy, distal subtotal, with or without splenectomy; without pancreaticojejunostomy |
| 44120 | Enterectomy, resection of small intestine; single resection and anastomosis |
| 35585 | In-situ vein bypass; femoral-anterior tibial, posterior tibial, or peroneal artery |
| 44141 | Colectomy, partial; with skin level cecostomy or colostomy |
| 44145 | Colectomy, partial; with coloproctostomy (low pelvic anastomosis) |
| 45110 | Proctectomy; complete, combined abdominoperineal, with colostomy |
| 50220 | Nephrectomy, including partial ureterectomy, any open approach including rib resection; |
| 50240 | Nephrectomy, partial |
| 44150 | Colectomy, total, abdominal, without proctectomy; with ileostomy or ileoproctostomy |
| 35666 | Bypass graft, with other than vein; femoral-anterior tibial, posterior tibial, or peroneal artery |
| 43633 | Gastrectomy, partial, distal; with roux-en-y reconstruction |
| 35566 | Bypass graft, with vein; femoral-anterior tibial, posterior tibial, peroneal artery or other distal vessels |
| 44146 | Colectomy, partial; with coloproctostomy (low pelvic anastomosis), with colostomy |
| 45111 | Proctectomy; partial resection of rectum, transabdominal approach |
| 51595 | Cystectomy, complete, with ureteroileal conduit or sigmoid bladder, including intestine anastomosis; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes |
| 47130 | Hepatectomy, resection of liver; total right lobectomy |
| 48150 | Pancreatectomy, proximal subtotal with total duodenectomy, partial gastrectomy, choledochoenterostomy and gastrojejunostomy (Whipple-type procedure); with pancreatojejunostomy |
| 50230 | Nephrectomy, including partial ureterectomy, any open approach including rib resection; radical, with regional lymphadenectomy and/or vena caval thrombectomy |
| 43117 | Partial esophagectomy, distal two-thirds, with thoracotomy and separate abdominal incision, with or without proximal gastrectomy; with thoracic esophagogastrostomy, with or without pyloroplasty (Ivor Lewis) |
| 48153 | Pancreatectomy, proximal subtotal with near-total duodenectomy, choledochoenterostomy and duodenojejunostomy (pylorus-sparing, Whipple-type procedure); with pancreatojejunostomy |
| 35081 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta |
| 35646 | Bypass graft, with other than vein; aortobifemoral |

**\*CPT: Current Procedural Terminology**

1. Liu JB, Liu Y, Cohen ME, Ko CY, Sweitzer BJ. Defining the Intrinsic Cardiac Risks of Operations to Improve Preoperative Cardiac Risk Assessments. Anesthesiology. 2018;128(2):283-92.