

| Hospital Procedures (1)    |   |
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| Group                      | Hospital Procedure Item   |
| abdomin_drain              | Drainage of Peritoneal Cavity, Percutaneous Approach  |
|                            | Percutaneous abdominal drainage   |
|                            | Thoracentesis   |
| adhesion_lysis             | Other lysis of peritoneal adhesions   |
| antibiotics                | Injection or infusion of oxazolidinone class of antibiotics   |
| art_catheterization        | Arterial catheterization  |
| arthrocentesis             | Arthrocentesis  |
| bileduct_proc              | Dilation of Common Bile Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic |
|                            | Endoscopic insertion of stent (tube) into bile duct   |
| blood_transfusion          | Transfusion of packed cells   |
| brain_lesion_destruction   | Other excision or destruction of lesion or tissue of brain  |
| bypass_art                 | (Aorto)coronary bypass of one coronary artery   |
|                            | (Aorto)coronary bypass of three coronary arteries   |
|                            | (Aorto)coronary bypass of two coronary arteries   |
|                            | Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach          |
|                            | Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach                        |
|                            | Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach      |
|                            | Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach        |
|                            | Single internal mammary-coronary artery bypass  |
| bypass_trachea             | Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Approach                         |
|                            | Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening                    |
|                            | Insertion of endotracheal tube  |
|                            | Other intubation of respiratory tract   |
|                            | Temporary tracheostomy  |
| cancer_drug                | Injection or infusion of cancer chemotherapeutic substance  |
|                            | Introduction of Other Antineoplastic into Central Vein, Percutaneous Approach                       |
| cardiac_catheterization    | Combined right and left heart cardiac catheterization   |
|                            | Left heart cardiac catheterization  |
|                            | Right heart cardiac catheterization   |
| debridement                | Excisional debridement of wound, infection, or burn   |
|                            | Nonexcisional debridement of wound, infection or burn   |
| dialysis                   | Hemodialysis  |
|                            | Performance of Urinary Filtration, Continuous, Greater than 18 hours Per Day                        |
|                            | Performance of Urinary Filtration, Intermittent, Less than 6 Hours Per Day                          |
|                            | Performance of Urinary Filtration, Multiple   |
| extracorporeal_circulation | Extracorporeal circulation auxiliary to open heart surgery  |
| gi_device                  | Percutaneous [endoscopic] gastrostomy [PEG]   |
| gi_nutrition               | Enteral infusion of concentrated nutritional substances   |
|                            | Insertion of Feeding Device into Stomach, Percutaneous Approach                                     |
|                            | Introduction of Nutritional Substance into Lower GI, Via Natural or Artificial Opening              |
|                            | Introduction of Nutritional Substance into Upper GI, Via Natural or Artificial Opening              |
| gi_proc                    | Endoscopic retrograde cholangiopancreatography [ERCP]   |
|                            | Endoscopic sphincterotomy and papillotomy   |
| gitract_bleed_ctrl         | Control Bleeding in Gastrointestinal Tract, Via Natural or Artificial Opening Endoscopic            |
|                            | Endoscopic control of gastric or duodenal bleeding  |
| heart_device               | Initial insertion of dual-chamber device  |
|                            | Initial insertion of transvenous leads [electrodes] into atrium and ventricle                       |
|                            | Insertion of Infusion Device into Right Atrium, Percutaneous Approach                               |
|                            | Insertion of Infusion Device into Superior Vena Cava, Percutaneous Approach                         |
|                            | Insertion of Pacemaker Lead into Right Atrium, Percutaneous Approach                                |
|                            | Insertion of Pacemaker Lead into Right Ventricle, Percutaneous Approach                             |
|                            | Insertion of Pacemaker, Dual Chamber into Chest Subcutaneous Tissue and Fascia, Open Approach       |

| Hospital Procedures (2)                    |   |
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| Group                                      | Hospital Procedure Item   |
| heart_lesion_destruction                   | Excision or destruction of other lesion or tissue of heart, endovascular approach                             |
| immunoglobulin                             | Injection or infusion of immunoglobulin   |
| ivf  | Insertion of Tunneled Vascular Access Device into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach |
|  | Introduction of Nutritional Substance into Central Vein, Percutaneous Approach                                |
|  | Parenteral infusion of concentrated nutritional substances  |
| open_reduction                             | Open reduction of fracture with internal fixation, femur  |
| perf_cadiac                                | Performance of Cardiac Output, Single, Manual   |
| perf_cardiac                               | Performance of Cardiac Output, Continuous   |
|  | Performance of Cardiac Pacing, Continuous   |
| platelet_inhibitor                         | Injection or infusion of platelet inhibitor   |
| pleuralcavity_drain                        | Drainage of Left Pleural Cavity with Drainage Device, Percutaneous Approach                                   |
|  | Drainage of Right Pleural Cavity with Drainage Device, Percutaneous Approach                                  |
|  | Insertion of intercostal catheter for drainage  |
| radiotherapeutic                           | Other radiotherapeutic procedure  |
| resuscitation_cardioversion_defibrillation | Cardiopulmonary resuscitation, not otherwise specified  |
|  | Other electric countershock of heart  |
|  | Restoration of Cardiac Rhythm, Single   |
| spinal_infusion                            | Insertion of catheter into spinal canal for infusion of therapeutic or palliative substances                  |
|  | Spinal tap  |
| thrombolytic_agent                         | Injection or infusion of thrombolytic agent   |
| valve_proc                                 | Open and other replacement of aortic valve with tissue graft  |
|  | Replacement of Aortic Valve with Zooplastic Tissue, Open Approach   |
|  | Supplement Mitral Valve with Synthetic Substitute, Open Approach  |
| vcf  | Interruption of the vena cava   |
| venous_catheterization                     | Central venous catheter placement with guidance   |
|  | Venous catheterization for renal dialysis   |
|  | Venous catheterization, not elsewhere classified  |
| ventilation                                | Continuous invasive mechanical ventilation for 96 consecutive hours or more                                   |
|  | Continuous invasive mechanical ventilation for less than 96 consecutive hours                                 |
|  | Respiratory Ventilation, 24-96 Consecutive Hours  |
|  | Respiratory Ventilation, Greater than 96 Consecutive Hours  |
|  | Respiratory Ventilation, Less than 24 Consecutive Hours   |
| verteb_fusion                              | Fusion or refusion of 2-3 vertebrae   |
|  | Fusion or refusion of 4-8 vertebrae   |
| vessel_proc                                | Angioplasty of other non-coronary vessel(s)   |
|  | Excision of Left Radial Artery, Percutaneous Endoscopic Approach  |
|  | Excision of Left Saphenous Vein, Percutaneous Endoscopic Approach   |
|  | Excision of Right Saphenous Vein, Percutaneous Endoscopic Approach  |
|  | Insertion of drug-eluting coronary artery stent(s)  |
|  | Insertion of non-drug-eluting coronary artery stent(s)  |
|  | Insertion of non-drug-eluting peripheral (non-coronary) vessel stent(s)                                       |
|  | Insertion of one vascular stent   |
|  | Insertion of two vascular stents  |
|  | Other endovascular procedures on other vessels  |
|  | Percutaneous transluminal coronary angioplasty [PTCA]   |
|  | Procedure on single vessel  |
|  | Procedure on two vessels  |