

Healthgrades Mortality and Complications Outcomes

2016 Methodology

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Introduction

To help consumers evaluate and compare hospital performance for care provided during a hospital stay for specific conditions or procedures, Healthgrades analyzed clinical outcomes data for virtually every hospital in the country. Analyses included Medicare-patient care records for nearly 4,500 short-term, acute care hospitals nationwide, assessing hospital performance relative to each of 33 common conditions and procedures (cohorts). The Healthgrades methodology uses multivariate logistic regression to risk adjust for patient demographic and clinical risk factors that influence patient outcomes in significant and systematic ways.

The purpose of risk adjustment is to obtain fair statistical comparisons of mortality and complication rates between hospitals while accounting for differences in underlying risk factors observed in the data among disparate populations or groups. Significant differences in demographic and clinical risk factors are found among patients treated in different hospitals; thus, it is necessary to make accurate and valid comparisons of clinical outcomes with a methodology using risk-adjustment techniques. Risk factors may include age, gender, specific procedure performed, and comorbid conditions, such as hypertension and diabetes.

Individual risk models are constructed and tailored for each of the 33 conditions or procedures relative to each specific outcome. Model clinical outcomes reflect clinical-based measures of patient status during and after care (during the episode of care in a hospital stay) and include: in-hospital complications, in-hospital mortality, and 30-day post-admission mortality. In cases where Medicare data does not adequately represent the population with a specific condition or having a specific procedure, such as appendectomy, Healthgrades evaluated hospitals using all-payer data from 13 states.

Data Acquisition

Healthgrades used the following data sources in the analysis of hospital patient records:

- Medicare inpatient data from the Medicare Provider Analysis and Review (MedPAR) database purchased from the Centers for Medicare and Medicaid Services (CMS) for years 2012 through 2014. The MedPAR data was selected for several reasons:
 - Almost every hospital in the country is included in the database, with the exception of military and Veterans Administration hospitals.
 - Accuracy is regulated. Hospitals are required by law to submit complete and accurate information for fee-for-service Medicare patient hospital care with substantial penalties for those that report inaccurate or incomplete data.
 - The Medicare population represents a majority of the patients for virtually all of the clinical categories studied.
- Inpatient data for the appendectomy cohort was provided by 13 states that provide all-payer state data (CO, FL, IA, IL, MD, NV, NY, OR, PA, RI, TX, WA, and WI) for years 2011 through 2013 (one year behind MedPAR data years). Since the appendectomy cohort includes very few patients older than 65 years of age, all-payer state data were used to rate hospitals in those states where state data were available. Consequently, appendectomy is based exclusively on state data from years 2011 through 2013.
- Inpatient data for the appendectomy cohort was provided by Illinois for the years 2011 and 2012. This data was used in the risk-adjustment model appendectomy, but given the lack of three complete years of data, hospitals in Illinois were not evaluated and ratings will not appear on profiles for hospitals in this state.

Healthgrades conducted a series of data quality checks to preserve the integrity of the analyses. Based on the applied integrity checks, a range of 0.12% to 15.0% of patient records were excluded from the 2012-2014 analysis, depending on the cohort. Patient records were identified for exclusion because, for example, they were determined to be miscoded or were otherwise inappropriate for inclusion in the data sets used for analyses.

Examples of Healthgrades standard rules used to exclude patient records are:

- Patients who left the hospital against medical advice or who were transferred to another acute care hospital.
- Patients discharged alive with a length of stay that is inconsistent with the reason for admission (e.g., a patient discharged alive with a one-day length of stay for valve surgery would be excluded because this procedure requires several days for recovery).
- Patients who were still in the hospital when the Medicare claim was filed.
- Patients with an invalid gender (e.g., a prostatectomy related to a female patient).
- Patients who have had any organ transplant.
- Patients in medical cohorts who were discharged to hospice.*
- Patients in medical cohorts with metastatic cancers.*

* Medical cohorts include non-surgical cohorts: bowel obstruction, chronic obstructive pulmonary disease, diabetic emergencies, gastrointestinal bleed, heart attack, heart failure, hip fracture treatment, pancreatitis, pneumonia, pulmonary embolism, respiratory failure, sepsis, and stroke.

Cohort Definitions and Outcomes

Healthgrades analyzed clinical outcomes (mortality and complications) for each of 33 condition or procedure cohorts. For each, a list of specific procedures and diagnoses that define the cohort as well as a list of exclusions representing rare and/or clinically complex diagnoses and procedures that cannot be adequately risk-adjusted were developed (*Appendix B*).

Inclusion criteria for cohort analyses required at least 30 cases across three years of data and at least five cases in the most current year per hospital. As a result, the number of hospitals that qualified ranged from a low of 628 rated for transurethral prostate resection surgery to a high of 4,192 rated for neurosurgery.

For 19 of the cohorts, clinical outcomes evaluated were in-hospital and 30-day post-admission mortality (see *Table 1*).

For 14 of the cohorts, the clinical outcome evaluated was the occurrence of one or more in-hospital complications (see *Table 1*). Clinical and coding experts define the complications for these 14 cohorts. A list of in-hospital complications by cohort can be found in *Appendix C*.

For the analyses, clinical outcomes were dichotomous:

- Complications were documented in the patient record as either present or not present.
- Mortality was documented in the patient record as either recorded as alive or deceased.

In cohorts where the clinical outcome was complications, mortality was considered a complication.

Table 1. Mortality and Complication Cohorts

Mortality Cohorts	
Bowel Obstruction	Heart Failure
Chronic Obstructive Pulmonary Disease (COPD)	Pancreatitis
Colorectal Surgeries	Pneumonia
Coronary Artery Bypass Graft (CABG) Surgery	Pulmonary Embolism
Coronary Interventional Procedures	Respiratory Failure
Cranial Neurosurgery	Sepsis
Diabetic Emergencies	Small Intestine Surgeries
Esophageal/Stomach Surgeries	Stroke
Gastrointestinal Bleed	Valve Surgery
Heart Attack	
In-Hospital Complication Cohorts	
Abdominal Aortic Aneurysm Repair	Hip Replacement
Appendectomy	Pacemaker Procedures
Back and Neck Surgeries (Without Spinal Fusion)	Peripheral Vascular Bypass
Carotid Surgery	Prostate Removal Surgery
Defibrillator Procedures	Spinal Fusion
Gallbladder Removal Surgery	Total Knee Replacement
Hip Fracture Treatment	Transurethral Prostate Resection Surgery

Defining In-Hospital Complications

For some procedures and treatments, Healthgrades evaluates in-hospital complications—if patients experience one or more complications during their hospital stay for a procedure or treatment.

While complications sometimes occur during a patient's hospital stay, Healthgrades pinpoints complications that should not occur with a typical patient. Many of these complications are preventable and usually cause a prolonged hospital stay, additional and costly medical treatments, harm, and sometimes even death.

In October of 2007 (fiscal year 2008), CMS began requiring most hospitals to provide a present on admission (POA) indicator for every diagnosis submitted. This indicator is intended to distinguish complications that occur during a patient's hospital stay from those present at the time the patient was admitted to the hospital.

Hospitals excluded from the POA requirement included: critical access hospital, long-term care hospitals, cancer hospitals, children's inpatient facilities, rural health clinics, inpatient rehabilitation or psychiatric hospitals, and federal healthcare facilities. Additionally Maryland hospitals are excluded from the requirement. Hospitals in Maryland generally operate under a waiver in section 1814(b)(3) of the Deficit Reduction Act of 2005 and are exempt from POA reporting.

Table 2 shows the POA indicators listed in the 2014 MedPAR file layout document* and how they were used by Healthgrades in determining in-hospital complications in the current 2016 award year analyses.

Table 2. Present On Admission Indicators

POA Indicator (Interpretation)	CMS Description*	Use by Healthgrades
Y (Yes, Present)	Present at the time of inpatient admission	Utilized in the risk-adjustment process
N (No, Not Present)	Not present at the time of inpatient admission	Used to identify in-hospital complications
U, [blank], Other (Unknown)	Documentation is insufficient to determine if condition was present on admission Unreported/not used—exempt from POA reporting	May require the co-occurrence of other codes to be a complication, see Records with No POA Indicator section below. If not considered a complication, it may be used in risk adjustment.
W (Clinically Undetermined)	Provider is unable to clinically determine whether condition was present on admission or not.	Not considered a complication nor used in risk adjustment

* MedPAR Limited Data Set – Hospital (National) File Layout. Also known as, Expanded Modified MedPAR File Layout. April 2015. Available from the Centers for Medicare and Medicaid Services.

www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/LimitedDataSets/Downloads/2014_MedPAR_Version_R2K_Layout.zip

Diagnosis Records With Unknown or Empty POA Indicator

When utilizing administrative patient records, Healthgrades identifies diagnosed conditions as either pre-existing or hospital-acquired. Only the hospital-acquired conditions are considered as in-hospital complications in our analyses.

To differentiate between pre-existing and hospital-acquired conditions when there is no POA indicator or the POA indicator is U (unknown), Healthgrades uses the presence of a 900 postoperative complication code to identify a documented occurrence of a complication. For example, in the case where a patient record contains ICD-9 427.31 (Atrial Fibrillation) without a POA indicator, that code is considered a comorbid risk factor if it occurs by itself and an in-hospital complication if there is an ICD 997.1 Cardiac Complications code also present in the patient record.

Healthgrades does not require the presence of a postoperative complication code for diagnoses that were clearly hospital-acquired (i.e., heart attack in an elective procedure such as total knee replacement).

Diagnosis Records With POA Indicators

When there is a POA indicator present, a diagnosis is only considered an in-hospital complication if the POA indicator is set to No. This means that the condition was not present at the time of admission and was acquired during the hospitalization episode of care.

Independent vs. Dependent Complications

Complications are “independent” if the condition clearly occurred during a patient’s hospital stay or if the condition is defined as postoperative by the coding definition. These conditions only require a single code to be present in order to be counted as a complication. They are not counted as a complication if the POA indicator was “Yes” or “Clinically Undetermined”. Complications described as “dependent” are conditions that must either have POA indicator set to “No” or if the POA indicator is set to “Unknown” or is missing, there must also be the listed 900 postoperative complication code present in the patient record. These conditions require two codes (the condition ICD-9 code and the 900 complication code) to be considered a complication (*Appendix C*).

Multivariate Logistic Regression Models

For each of the 33 cohorts, individual risk models were constructed and tailored for each condition or procedure relative to the specific clinical outcome; including, in-hospital complications, in-hospital mortality or 30-day post-admission mortality.

Healthgrades methodology uses multivariate logistic regression to adjust for patient risk factors that influence patient outcomes in significant and systematic ways. Risk factors may include age, gender, specific procedure performed, and examples of comorbid conditions are hypertension, chronic renal failure, heart failure, and diabetes.

Statistically Significant Risk Factors

For each cohort, comorbid diagnoses (e.g., hypertension, chronic renal failure, anemia, and diabetes), demographic characteristics (age and gender), source of patient admission, and specific procedures (e.g., percutaneous coronary intervention in heart bypass surgery) were classified as potential risk factors. Healthgrades used logistic regression to determine which of these potential risk factors were statistically significant in predicting the outcome measure (e.g., mortality). All risk factors that remained in the final model were statistically significant at the $p \leq 0.05$ level in predicting the clinical outcome.

Risk factors with an odds ratio less than 1.0 were removed from the final model. There were occasional exceptions to this rule, determined by statistical and clinical expert review. For example, risk factors that have been documented in the medical literature to be associated with lower risk of mortality or complications and risk factors that are part of the cohort definition remained in the model even if the odds ratio was less than one (e.g., long term (current) use of anticoagulants related to mortality from stroke).

Appendix D lists the coefficient summary table for each of the 19 mortality-based cohorts. *Appendix E* lists the coefficient summary table for each of the 14 complication-based cohorts. Included in the summary tables are the risk factor descriptions, the model coefficients, standard errors, Z-Statistics, and Odds Ratios.

The statistical models were checked for predictive ability and finalized. All of the models were predictive of the outcome being measured, with c-statistics ranging from 0.676 to 0.921. These cohort-specific and outcome-specific models were then used to estimate the probability of the outcome for each patient in the cohort (predicted probability of mortality and complications). *Appendix F, Model Fit Statistics* contains the c-stat with a 95% confidence interval for each risk adjustment model by cohort.

Model Coefficient Summary and Fit Statistics Tables

(See *Appendix D* and *Appendix E* for coefficient summary tables for 33 logistic regression models. For each model, tables include the following items:

- **Model (factor) Coefficient** – This represents the increase or decrease to the patient level log odds when the patient has the associated factor.
- **Standard Error** – This is a measure of variation for the coefficient.
- **Z-Statistic** – This is a test statistic which provides a measure of the strength of the relationship between the factor and the outcome.
- **Odds Ratio** – This is the most commonly interpreted component of a logistic regression model. This indicates the relative increase in the likelihood of a negative outcome (mortality or complication) when a patient has the risk factor relative to a patient who does not.

Adjustment for POA Fill Rate as an Additional Model Variable

POA fill rates were included as an additional independent variable for each year of data. The POA fill rate was calculated as the percent of diagnosis codes having a known POA indicator value of Yes, No or Clinically Undetermined among patients in that cohort at that hospital.

This additional risk adjustment was necessary because critical access hospitals and some Maryland hospitals are exempt from POA reporting. Thus, these hospitals had lower rates of detectable in-hospital complications and conversely, more conditions potentially factored into the acuity adjustment. Testing verified that the inclusion of POA fill rates in the logistic regression model adequately adjusted for the differing overall rates of complications between hospitals reporting POA and the exempt hospitals.

Hospital Performance

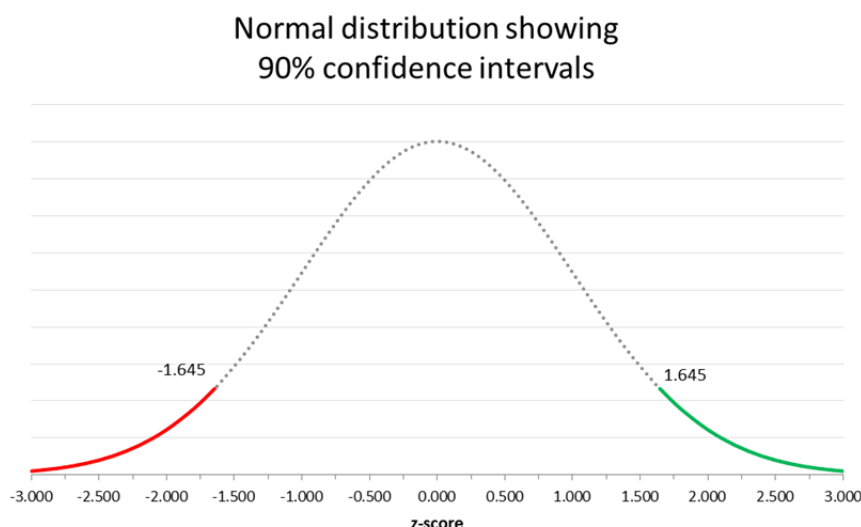
Once the regression models were developed, Healthgrades stratified hospital performance for each of the 33 conditions or procedures into three categories:

- ★★★★★ **Better Than Expected** – Actual performance was better than predicted and the difference was statistically significant at $\alpha = 0.1$.
- ★★★ **As Expected** – Actual performance was not statistically significantly different from what was predicted at $\alpha = 0.1$.
- ★ **Worse Than Expected** – Actual performance was worse than predicted and the difference was statistically significant at $\alpha = 0.1$.

Developing the Healthgrades hospital performance categories involved four steps:

1. The hospital predicted value (predicted number of deaths or complications at each hospital) was calculated by summing the individual patient record predicted values determined from logistic regression models discussed above.
2. The hospital predicted value was compared with the actual or observed value (e.g., actual number of deaths or complications at each hospital).
3. A test was conducted to determine whether the difference between the predicted and actual values was statistically significant. This test was performed to make sure that differences were very unlikely to be caused by chance alone. A z-score was used to establish an approximate 90% confidence interval.*
4. Hospital performance star-levels were determined based upon the outcome of the test for statistical significance.

*In stratifying hospital performance categories, Healthgrades establishes a 90% confidence interval for z-score distribution with cut-offs of 1.645 standard deviations above and below the mean. The 5-star hospital performance category for a specific condition or procedure includes scores more than 1.645 standard deviations better than the mean. The 1-star hospital performance category for a specific condition or procedure includes scores more than 1.645 standard deviations worse than the mean. Additionally the Hosmer-Lemeshow patient level variance estimates were used to calculate hospital specific standard deviations for test of statistical significance.



Limitations of the Data Models

While logistic regression models may be valuable in identifying hospitals that perform better than others for care provided during a hospital stay, one should not use this information alone to determine the quality of care provided at each hospital. The models are limited by the following factors:

- Cases may have been coded incorrectly or incompletely by the hospital.
- The models can only account for risk factors that are coded into medical claims record. If a particular risk factor was not coded into the billing data, such as a patient's socioeconomic status and health behavior, then it was not accounted for with these models.

Please note that hospitals grouped into the 5-star category for performance in a specific cohort do not serve as a recommendation or endorsement by Healthgrades for a particular hospital; it means that the data associated with a particular hospital has met the foregoing qualifications. Individual patients should decide, in conjunction with their doctor, whether a particular hospital is suited for their unique needs.

Also note that if more than one hospital reported to CMS under a single provider ID, Healthgrades analyzed patient outcomes data for those hospitals as a single unit. Throughout this document, therefore, "hospital" refers to one hospital or a group of hospitals reporting under a single provider ID. Some hospitals that operate as a single unit submit data under multiple provider IDs. In this case, the data from the multiple provider IDs are combined and reported under the parent hospital provider ID.

Appendix A. Patient Cohort Definitions

Appendectomy

Cohort	Inclusions	Notable Exclusions
Appendectomy First Listed Procedure Evaluated on in-hospital complication rates	- Laparoscopic - Open procedures	None

Cardiac Service Line

Cohort	Inclusions	Notable Exclusions
Coronary Artery Bypass Graft (CABG) Surgery (Isolated) First Listed Procedure May have a PCI in this stay Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Coronary bypass for cardiac revascularization with: internal mammary artery or vein - One or more vessels	- Cases with accompanying: - Valve repair and replacement, including catheter-based valve procedures - Aortic aneurysm repair - Carotid endarterectomy
Coronary Interventional Procedures (PCI) - Inpatient First Listed Procedure is PCI or Principal Procedure of Intra-aortic balloon pump with PCI in a subsequent coded position Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Removal of coronary artery obstruction - Single or multi-vessel - Atherectomy or balloon angioplasty with or without thrombolytic agent - Stent may be bare metal or drug eluting	CABG or valve surgery during the same stay
Defibrillator Procedures Defined by Diagnosis Related Group (DRG) Evaluated on in-hospital complication rates	Defibrillator implants	- CABG or valve surgery during the same stay - Coronary angioplasty/stent during the same stay
Heart Attack First Listed Diagnosis Includes patients who receive thrombolytics, PCI, CABG, Valve Surgery, or medical management only during the hospital stay Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	All myocardial infarcts, initial episode of care	- Respirator-dependent status (V46.11) - Left ventricular assist device (V43.21) - Metastatic cancers - Discharge to hospice

Cardiac Service Line (continued)

Heart Failure First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Systolic, diastolic, combined, left, or rheumatic - Acute or chronic - Decompensated or compensated	- Dialysis during the same stay (39.95) - Respirator-dependent status (V46.11) - Left ventricular assist device (V43.21) - Metastatic cancers - Discharge to hospice
Pacemaker Procedures Diagnosis Related Group (DRG) Evaluated on in-hospital complication rates	- Pacemaker implants - Replacement of pacemaker implant - Revision of pacemaker implants - Pacemaker lead removal	- CABG or valve surgery during the same stay - Coronary angioplasty/stenting during the same stay
Valve Surgery Procedure at any position May have CABG during the same hospital stay Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Replacement with repair - Open repair - Aortic, mitral, pulmonary, or tricuspid - TAVR: Femoral and Apical approach	Thoracic and aortic dissections

Critical Care Service Line

Cohort	Inclusions	Notable Exclusions
Diabetic Emergencies First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Diabetic Ketoacidosis - HHNK (Hyperosmolar Hyperglycemic Non-ketotic Coma) - Hypoglycemic shock	- Metastatic cancers - Left ventricular assist device (V43.21) - Respirator-dependent status (V46.11) - Patients discharged alive with a length of stay < 1 day
Pulmonary Embolism First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Pulmonary embolism and infarction - Iatrogenic	- Metastatic cancers - Left ventricular assist device (V43.21) - Patients discharged alive with a length of stay < 1 day - Discharge to hospice
Respiratory Failure First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Acute respiratory failure - Acute on chronic respiratory failure	- Metastatic cancers - Left ventricular assist device (V43.21) - Discharge to hospice
Sepsis First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Sepsis - Bacterial - Fungal - Viral - Unspecified organism - Severe Sepsis - Septic Shock	- Metastatic cancers - Left ventricular assist device (V43.21) - Patients discharged alive with a length of stay < 1 day - Discharge to hospice

Gastrointestinal Service Line

Cohort	Inclusions	Notable Exclusions
Bowel Obstruction First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Pyloric stenosis - Gastrojejunal ulcer with obstruction - Intestinal obstruction without hernia - Duodenal ulcer with obstruction - Other obstruction of duodenum - Hernia with obstruction - Gallstone ileus - Intussusception	- Metastatic cancers - Left ventricular assist device (V43.21) - Discharge to hospice - Patients deceased with a length of stay <1 day
Colorectal Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Resection of Colon - Resection of Rectum - Hemicolectomy (Open and laparoscopic) - Sigmoidectomy (Open and laparoscopic) - Ceectomy (Open and laparoscopic) - Large-to-Large intestine anastomosis - Colostomy procedure	Metastatic cancers
Esophageal/Stomach Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Gastrostomy - Gastrectomy - Procedures for control of bleeding - Sutures of ulcer sites - Vagotomy - Repairs of stomach or esophagus	- Metastatic cancers - Patients undergoing a bariatric (weight-loss) procedure
Gallbladder Removal Surgery (Cholecystectomy) First Listed Procedure Evaluated on in-hospital complication rates	- Open or laparoscopic - Partial	Does not include primary procedure of gallbladder stenting
Gastrointestinal Bleed First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Bleeding/hemorrhage from any of the following: - Esophageal varices - Esophageal ulcer - Gastric ulcer - Duodenal ulcer - Peptic ulcer - Gastrojejunal ulcer - Gastritis or duodenitis - Angiodysplasia of stomach and duodenum - Diverticulosis - Rectum or anus - Dieulafoy lesion of intestine - Hematemesis - Melena - Hemorrhage of GI tract, unspecified	- Metastatic cancers - Left ventricular assist device (V43.21) - Respirator-dependent status (V46.11) - Discharge to hospice - Patients deceased with a length of stay <1 day

Gastrointestinal Service Line (continued)

Small Intestine Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Resection of small intestine • Small to small intestine anastomosis • Closure of stoma of small intestine • Suture of small intestine laceration	• Metastatic cancers • Patients undergoing a bariatric (weight-loss) procedure
Pancreatitis First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Acute • Chronic	• Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice

Neurosciences Service Line

Cohort	Inclusions	Notable Exclusions
Cranial Neurosurgery First Listed Procedure Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Intracranial vascular procedures for hemorrhage: ◦ Aneurysm repairs ◦ Clippings ◦ Coilings ◦ Intracranial angioplasties • Craniotomies • Ventricular shunts	• Head trauma
Stroke First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Subarachnoid hemorrhage • Intracerebral hemorrhage • Intracranial hemorrhage, unspecified • Occlusion and stenosis of basilar, carotid, or vertebral artery • Cerebral thrombosis, embolism, or occlusion	• Hospitals transferring more than 10% of their population • Subdural bleeds • Extradural bleeds • Patients deceased with a length of stay <1 day • Patients discharged alive with a length of stay < 1 day • Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice

Orthopedic Service Line

Cohort	Inclusions	Notable Exclusions
Hip Fracture Treatment First Listed Diagnosis May be treated with total hip replacement Evaluated on in-hospital complication rates	• Closed femur neck fractures • Closed trochanteric and subtrochanteric fractures • Closed intertrochanteric fractures	• Injuries associated with major trauma • Open fractures of the femur neck • Closed fracture of the epiphysis of the neck of the femur • Femur shaft fractures • Knee replacement during same hospital stay • Patients discharged alive with a length of stay < 1 day • Discharge to hospice
Hip Replacement First Listed Procedure Evaluated on in-hospital complication rates	• Primary hip replacement • Bilateral cases • Partial and total hip resurfacing	• Injuries associated with major trauma • Hip fracture diagnosis • Revisions • Removal of hardware • Knee replacement during the same stay
Total Knee Replacement First Listed Procedure Evaluated on in-hospital complication rates	• Primary total knee replacement [bicompartamental, tricompartmental, unicompartamental (hemi-joint)] • Bilateral cases	• Injuries associated with major trauma • Revisions • Removal of hardware • Hip replacement (total or partial) or hip resurfacing during the same stay

Prostatectomy

Cohort	Inclusions	Notable Exclusions
Prostate Removal Surgery First Listed Procedure Evaluated on in-hospital complication rates	• Radical prostatectomy – suprapubic, retropubic, and perineal approaches • Local excision of lesion of prostate	• None
Transurethral Prostate Resection Surgery First Listed Procedure Evaluated on in-hospital complication rates	• Transurethral guided laser induced prostatectomy (TULIP) • Other transurethral prostatectomies (including TURP)	• None

Pulmonary Service Line

Cohort	Inclusions	Notable Exclusions
Chronic Obstructive Pulmonary Disease First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Chronic bronchitis - Simple and obstructive bronchitis with and without exacerbation - Chronic airway obstruction, not elsewhere classified - Chronic obstructive asthma - Emphysema - Bronchiectasis	- Respirator-dependent status (V46.11) - Metastatic cancers - Left ventricular assist device (V43.21) Discharge to hospice
Pneumonia First Listed Diagnosis Evaluated on mortality rates at two time periods: - In-hospital - Within 30 days of admission	- Pneumonia - Bacterial - Fungal - Viral - Unspecified organism	- Respirator-dependent status (V46.11) - Metastatic cancers - Left ventricular assist device (V43.21) - SARS-related - Discharge to hospice

Spine Surgery Service Line

Cohort	Inclusions	Notable Exclusions
Back & Neck Surgeries (Without Spinal Fusion) First Listed Procedure Evaluated on in-hospital complication rates	- Cervical, thoracic, and/or lumbar spine laminectomy, laminoplasty, foraminectomy - Repair or reduction of vertebral fracture Removal on bony spicules - Elevation of spinal bone fragments - Excision or destruction of intervertebral disc - Removal of herniated nucleus pulposus - Insertion of motion preservation devices	- Injuries associated with major trauma - Post-laminectomy syndrome: cervical, thoracic, or lumbar - Patients with secondary bone cancer
Spinal Fusion First Listed Procedure Evaluated on in-hospital complication rates	2-8 level fusion - Performed within 3rd cervical vertebrae to lumbosacral spine - Single incision approach	- Injuries associated with major trauma - C1-C2 fusions 9+ Level Fusions - Refusions - Post-laminectomy syndrome: cervical, thoracic, or lumbar - Patients with secondary bone cancer

Vascular Service Line

Cohort	Inclusions	Notable Exclusions
Abdominal Aortic Aneurysm Repair First Listed Procedure Evaluated on in-hospital complication rates	• Excision of aneurysm and resection with anastomosis with and without replacement of the aorta • Endovascular implantation of a graft in the abdominal aorta	• Rupture of abdominal aortic aneurysm • Aortic dissection • During the same stay: ○ CABG and/or Valve surgery ○ Aorto-renal bypass ○ Aorto-iliac-femoral bypass ○ Angioplasty of non-coronary vessel ○ Resection of thoracic vessel • Combination of stenting/anastomosis procedures • Incision of vessel for embolectomy or thrombectomy
Carotid Surgery First Listed Procedure Evaluated on in-hospital complication rates	• Carotid endarterectomy • Carotid stent placement • Percutaneous angioplasty of pre-cerebral vessels	• Presence of subarachnoid, intracerebral and subdural hemorrhage • CABG during the same stay • Resection of other peripheral vessel with anastomosis
Peripheral Vascular Bypass First Listed Procedure Evaluated on in-hospital complication rates	• Peripheral vascular shunt or bypass: ○ Axillary-brachial ○ Axillary-femoral ○ Brachial ○ Femoral-femoral ○ Femoroperoneal ○ Femoropopliteal ○ Femorotibial ○ Popliteal ○ Vascular bypass not otherwise specified	• Revisions • Upper extremity embolism

Appendix B. Patient Cohorts and Related ICD-9-CM Codes

Abdominal Aortic Aneurysm Repair

Inclusions

Procedure (First listed): 38.34, 38.44, 39.71

Exclusions

Procedure (Any position): 00.61, 33.50, 33.51, 33.52, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.08, 38.16, 38.18, 38.36, 38.45, 38.64, 39.59, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Procedure (Other than first listed): 38.34, 38.44

Diagnosis (Any position): 441.00, 441.01, 441.02, 441.03, 441.1, 441.2, 441.3, 441.5, 441.6, 441.7, 441.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Appendectomy

Inclusions

Procedure (First listed): 47.01, 47.09, 47.2

Exclusions

Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63

Procedure (Other than first listed): 33.50, 33.51, 33.52, 33.6, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Back and Neck Surgeries (Without Spinal Fusion)

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First listed): 80.51, 03.09, 03.53, 84.59, 84.62, 84.63, 84.64, 84.65, 84.80, 84.82, 80.50, 80.59, 84.61, 84.84, 84.60 AND One of the following DRGs: 28, 29, 30, 490, 491

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.49, 78.69, 81.00, 81.01, 81.02, 81.03, 81.04, 81.05, 81.06, 81.07, 81.08, 81.30, 81.31, 81.32, 81.33, 81.34, 81.35, 81.36, 81.37, 81.38, 81.39, 81.61, 81.62, 81.63, 81.64, 84.66, 84.67, 84.68, 84.69, 84.81, 84.83, 84.85

Diagnosis (Any position): 170.2, 170.6, 192.2, 192.3, 192.9, 198.3, 198.4, 198.5, 213.2, 213.6, 215.6, 215.7, 215.8, 215.9, 225.2, 225.3, 225.4, 225.8, 225.9, 237.5, 237.6, 237.9, 239.2, 239.6, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V54.01, V54.09

Diagnosis (First listed): 344.60, 344.61, 952.0, 952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09, 952.1, 952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19, 952.2, 952.3, 952.4, 952.8, 952.9, 996.42, 996.43, 996.47, 996.49, 996.78

Diagnosis and Procedure Combination: Procedure (Any position): 03.02 AND One of the following diagnoses (Any position): 722.80, 722.81, 722.82, 722.83

Bowel Obstruction

Inclusions

Diagnosis (First listed): 531.01, 531.21, 531.31, 531.41, 531.51, 531.61, 531.71, 531.91, 532.01, 532.11, 532.21, 532.31, 532.41, 532.51, 532.61, 532.71, 532.91, 534.01, 534.11, 534.21, 534.31, 534.41, 534.51, 534.61, 534.71, 534.91, 537.2, 537.3, 550.10, 550.11, 550.12, 550.13, 552.00, 552.01, 552.02, 552.03, 552.1, 552.20, 552.21, 552.29, 552.8, 552.9, 560.0, 560.1, 560.2, 560.31, 560.39, 560.81, 560.89, 560.9

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21

Diagnosis (Other than first listed): 205.32

Carotid Surgery

Inclusions

Procedure (First listed): 00.61, 00.63, 38.12

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.08, 38.16, 38.18, 38.36, 39.24, 39.25, 39.29, 39.59, 39.90, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 432.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Diagnosis (First listed): 430, 431, 432.1

Chronic Obstructive Pulmonary Disease (COPD)

Inclusions

Diagnosis (First listed): 205.32, 491.1, 491.20, 491.21, 491.22, 491.8, 491.9, 492.0, 492.8, 493.20, 493.21, 493.22, 494.0, 494.1, 496

Exclusions

Procedure (Any position): 33.51, 33.52, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63

Procedure (First listed): 33.50, 33.6, 50.51, 50.59, 52.80, 52.82, 52.84, 55.61, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 480.3, 480.8, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Diagnosis (First listed): 205.32, 491.1, 491.20, 491.21, 491.22, 491.8, 491.9, 492.0, 492.8, 493.20, 493.21, 493.22, 494.0, 494.1, 496

Colorectal Surgeries

Inclusions

Procedure (First listed): 17.31, 17.32, 17.33, 17.34, 17.35, 17.36, 17.39, 45.00, 45.03, 45.52, 45.71, 45.72, 45.73, 45.74, 45.75, 45.76, 45.79, 45.81, 45.82, 45.83, 45.90, 45.94, 45.95, 46.03, 46.04, 46.10, 46.11, 46.13, 46.14, 46.20, 46.50, 46.52, 46.60, 46.63, 46.64, 46.75, 46.76, 46.79, 46.80, 46.82, 48.0, 48.40, 48.43, 48.49, 48.50, 48.51, 48.52, 48.59, 48.61, 48.62, 48.63, 48.64, 48.69, 48.71, 48.72, 48.74, 48.75, 48.76, 48.79, 48.81, 48.82, 48.91, 48.92, 49.01, 49.02, 49.03, 49.04, 49.11, 49.12, 49.21, 49.42, 49.44, 49.45, 49.46, 49.49, 49.51, 49.52, 49.6, 49.71, 49.72, 49.73, 49.75, 49.76, 49.79, 49.95

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Coronary Artery Bypass Surgery (CABG)

Surgery

Inclusions

Procedure (First listed): 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.19

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 35.33, 35.55, 35.96, 35.97, 36.31, 36.32, 36.33, 36.34, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.12, 38.34, 38.44, 38.45, 38.64, 39.71, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Diagnosis (Any position): 414.06, 414.07, 441.00, 441.01, 441.02, 441.03, 441.2, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Coronary Interventional Procedures

Inclusions

Procedure (Any position): 00.66, 36.06, 36.07, 36.09
Procedure (First listed): 00.66, 36.07, 36.09, 50.51

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.19, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.65, 50.59, 52.80, 52.82, 52.83, 55.69
Procedure (First listed): 00.66, 36.07, 36.09, 50.51
Diagnosis (Any position): 414.06, 414.07, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21
Procedure (First listed): 37.61

Cranial Neurosurgery (formerly Neurosurgery)

Inclusions

Procedure (First listed): 01.12, 01.14, 01.23, 01.24, 01.25, 01.28, 01.31, 01.39, 01.51, 01.59, 02.02, 02.03, 02.05, 02.06, 02.07, 02.12, 02.2, 02.22, 02.31, 02.32, 02.33, 02.34, 02.39, 02.42, 02.43, 02.93, 04.01, 04.41, 38.11, 38.81
Procedure and Diagnosis Combination: Procedure Code (First listed): 00.62, 39.51, 39.52, 39.53, 39.72, 39.74, 39.75, 39.76, 39.79 AND One of the following diagnoses (First listed): 430, 431, 432.0, 432.1, 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.00, 434.01, 434.10, 434.11, 434.90, 434.91, 437.3

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 800.00, 800.01, 800.02, 800.03, 800.04, 800.05, 800.06, 800.09, 800.10, 800.11, 800.12, 800.13, 800.14, 800.15, 800.16, 800.19, 800.20, 800.21, 800.22, 800.23, 800.24, 800.25, 800.26, 800.29, 800.30, 800.31, 800.32, 800.33, 800.34, 800.35, 800.36, 800.39, 800.40, 800.41, 800.42, 800.43, 800.44, 800.45, 800.46, 800.49, 800.50, 800.51, 800.52, 800.53, 800.54, 800.55, 800.56, 800.59, 800.60, 800.61, 800.62, 800.63, 800.64, 800.65, 800.66, 800.69, 800.70, 800.71, 800.72, 800.73, 800.74, 800.75, 800.76, 800.79, 800.80, 800.81, 800.82, 800.83, 800.84, 800.85, 800.86, 800.89, 800.90, 800.91, 800.92, 800.93, 800.94, 800.95, 800.96, 800.99, 801.00, 801.01, 801.02, 801.03, 801.04, 801.05, 801.06, 801.09, 801.10, 801.11, 801.12, 801.13, 801.14, 801.15, 801.16, 801.19, 801.20, 801.21, 801.22, 801.23, 801.24, 801.25, 801.26, 801.29, 801.30, 801.31, 801.32, 801.33, 801.34, 801.35, 801.36, 801.39, 801.40, 801.41, 801.42, 801.43, 801.44, 801.45, 801.46, 801.49, 801.50, 801.51, 801.52, 801.53, 801.54, 801.55, 801.56, 801.59, 801.60, 801.61, 801.62, 801.63, 801.64, 801.65, 801.66, 801.69, 801.70, 801.71, 801.72, 801.73, 801.74, 801.75, 801.76, 801.79, 801.80, 801.81, 801.82, 801.83, 801.84, 801.85, 801.86, 801.89, 801.90, 801.91, 801.92, 801.93, 801.94, 801.95, 801.96, 801.99, 802.0, 802.1, 802.20, 802.21, 802.22, 802.23, 802.24, 802.25, 802.26, 802.27, 802.28, 802.29, 802.30, 802.31, 802.32, 802.33, 802.34, 802.35, 802.36, 802.37, 802.38, 802.39, 802.4, 802.5, 802.6, 802.7, 802.8, 802.9, 803.00, 803.01, 803.02, 803.03, 803.04, 803.05, 803.06, 803.09, 803.10, 803.11, 803.12, 803.13, 803.14, 803.15, 803.16, 803.19, 803.20, 803.21, 803.22, 803.23, 803.24, 803.25, 803.26, 803.29, 803.30, 803.31, 803.32, 803.33, 803.34, 803.35, 803.36, 803.39, 803.40, 803.41, 803.42, 803.43, 803.44, 803.45, 803.46, 803.49, 803.50, 803.51, 803.52, 803.53, 803.54, 803.55, 803.56, 803.59, 803.60, 803.61, 803.62, 803.63, 803.64, 803.65, 803.66, 803.69, 803.70, 803.71, 803.72, 803.73, 803.74, 803.75, 803.76, 803.79, 803.80, 803.81, 803.82, 803.83, 803.84, 803.85, 803.86, 803.89, 803.90, 803.91, 803.92, 803.93, 803.94, 803.95, 803.96, 803.99, 804.00, 804.01, 804.02, 804.03, 804.04, 804.05, 804.06, 804.09, 804.10, 804.11, 804.12, 804.13, 804.14, 804.15, 804.16, 804.19, 804.20, 804.21, 804.22, 804.23, 804.24, 804.25, 804.26, 804.29, 804.30, 804.31, 804.32, 804.33, 804.34, 804.35, 804.36, 804.39, 804.40, 804.41, 804.42, 804.43, 804.44, 804.45, 804.46, 804.49, 804.50, 804.51, 804.52, 804.53, 804.54, 804.55, 804.56, 804.59, 804.60, 804.61, 804.62, 804.63, 804.64, 804.65, 804.66, 804.69, 804.70, 804.71, 804.72, 804.73, 804.74, 804.75, 804.76, 804.79, 804.80, 804.81, 804.82, 804.83, 804.84, 804.85, 804.86, 804.89, 804.90, 804.91, 804.92, 804.93, 804.94, 804.95, 804.96, 804.99, 805.00, 805.01, 805.02, 805.03, 805.04, 805.05, 805.06, 805.07, 805.08, 805.10, 805.11, 805.12, 805.13, 805.14, 805.15, 805.16, 805.17, 805.18, 806.00, 806.01, 806.02, 806.03, 806.04, 806.05, 806.06, 806.07, 806.08, 806.09, 806.10, 806.11, 806.12, 806.13, 806.14, 806.15, 806.16, 806.17, 806.18, 806.19, 850.0, 850.1, 850.11, 850.12, 850.2, 850.3, 850.4, 850.5, 850.9, 851.00, 851.01, 851.02, 851.03, 851.04, 851.05, 851.06, 851.09, 851.10, 851.11, 851.12, 851.13, 851.14, 851.15, 851.16, 851.19, 851.20, 851.21, 851.22, 851.23, 851.24, 851.25, 851.26, 851.29, 851.30, 851.31, 851.32, 851.33, 851.34, 851.35, 851.36, 851.39, 851.40, 851.41, 851.42, 851.43, 851.44, 851.45, 851.46, 851.49, 851.50, 851.51, 851.52, 851.53, 851.54, 851.55, 851.56, 851.59, 851.60, 851.61, 851.62, 851.63, 851.64, 851.65, 851.66, 851.69, 851.70, 851.71, 851.72, 851.73, 851.74, 851.75, 851.76, 851.79, 851.80, 851.81, 851.82, 851.83, 851.84, 851.85, 851.86, 851.89, 851.90, 851.91, 851.92, 851.93, 851.94, 851.95, 851.96, 851.99, 852.00, 852.01, 852.02, 852.03, 852.04, 852.05, 852.06, 852.09, 852.10, 852.11, 852.12, 852.13, 852.14, 852.15, 852.16, 852.19, 852.20, 852.21, 852.22, 852.23, 852.24, 852.25, 852.26, 852.29, 852.30, 852.31, 852.32, 852.33, 852.34, 852.35, 852.36, 852.39, 852.40, 852.41, 852.42, 852.43, 852.44, 852.45, 852.46, 852.49, 852.50, 852.51, 852.52, 852.53, 852.54, 852.55, 852.56, 852.59, 853.00, 853.01, 853.02, 853.03, 853.04, 853.05, 853.06, 853.09, 853.10, 853.11, 853.12, 853.13, 853.14, 853.15, 853.16, 853.19, 854.00, 854.01, 854.02, 854.03, 854.04, 854.05, 854.06, 854.09, 854.10, 854.11, 854.12, 854.13, 854.14, 854.15, 854.16, 854.19, 950.0, 950.1, 950.2, 950.3, 950.9, 951.0, 951.1, 951.2, 951.3, 951.4, 951.5, 951.6, 951.7, 951.8, 951.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89

Defibrillator Procedures	
Inclusions	
Drg (Any position): 222, 223, 224, 225, 226, 227	
Exclusions	
Procedure (Any position): 00.66, 33.50, 33.51, 33.52, 33.6, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.06, 36.07, 36.09, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.51, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69	
Diagnosis (Any position): 414.06, 414.07, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9	
Diabetic Emergencies	
Inclusions	
Diagnosis (First listed): 250.10, 250.11, 250.12, 250.13, 250.20, 250.21, 250.22, 250.23, 250.30, 250.31, 250.32, 250.33, 250.80, 250.81, 250.82, 250.83	
Exclusions	
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69	
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11	
Esophageal/Stomach Surgeries	
Inclusions	
Procedure (First listed): 42.41, 42.42, 42.52, 42.59, 42.7, 42.81, 42.82, 42.84, 42.85, 42.87, 42.89, 42.92, 42.99, 43.0, 43.1, 43.11, 43.19, 43.3, 43.5, 43.6, 43.7, 43.89, 43.99, 44.21, 44.22, 44.29, 44.32, 44.38, 44.39, 44.40, 44.41, 44.42, 44.43, 44.44, 44.49, 44.61, 44.62, 44.63, 44.64, 44.65, 44.66, 44.67, 44.69, 44.92, 44.99	
Exclusions	
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69	
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9	
Diagnosis (First listed): 278.00, 278.01	
Gallbladder Removal Surgery	(Cholecystectomy)
Inclusions	
Procedure (First listed): 51.21, 51.22, 51.23, 51.24	
Exclusions	
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 52.84, 55.69	
Diagnosis (Any position): 156.0, 197.7, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9	

Gastrointestinal Bleed

Inclusions

Diagnosis (First listed): 456.0, 456.20, 530.21, 530.7, 530.82, 531.00, 531.01, 531.20, 531.21, 531.40, 531.41, 531.60, 531.61, 532.00, 532.01, 532.20, 532.21, 532.40, 532.41, 532.60, 532.61, 533.00, 533.01, 533.20, 533.21, 533.40, 533.41, 533.60, 533.61, 534.00, 534.01, 534.20, 534.21, 534.40, 534.41, 534.60, 534.61, 535.01, 535.11, 535.21, 535.31, 535.41, 535.51, 535.61, 537.83, 537.84, 562.02, 562.03, 562.12, 562.13, 569.3, 569.85, 569.86, 578.0, 578.1, 578.9

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Diagnosis (Other than first listed): 205.32

Heart Attack

Inclusions

Diagnosis (First listed): 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 414.06, 414.07, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Heart Failure

Inclusions

Diagnosis (First listed): 398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.0, 428.1, 428.20, 428.21, 428.22, 428.23, 428.30, 428.31, 428.32, 428.33, 428.40, 428.41, 428.42, 428.43, 428.9

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.95, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 414.06, 414.07, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Hip Fracture Treatment

Inclusions

Diagnosis and Diagnosis Related Group Combination: Diagnosis (First listed): 820.8, 820.20, 820.03, 820.21, 820.02, 820.22, 820.00, 820.09 AND One of the following DRGs: 4, 469, 470, 535, 536, 480, 481, 482

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.66, 78.67, 80.05, 80.06, 81.53, 81.54, 81.55
Diagnosis (Any position): 733.15, 733.42, 733.82, 800.61, 800.62, 800.63, 800.64, 800.65, 800.66, 800.69, 820.01, 820.10, 820.11, 820.12, 820.13, 820.19, 820.30, 820.31, 820.32, 820.9, 821.00, 821.01, 821.10, 821.11, 821.20, 821.21, 821.22, 821.23, 821.29, 821.30, 821.31, 821.32, 821.33, 821.39, 996.40, 996.41, 996.42, 996.43, 996.44, 996.45, 996.46, 996.47, 996.49, 996.78, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Hip Replacement

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First listed): 81.51, 00.85, 00.86, 00.87 AND One of the following DRGs: 461, 462, 469, 470

Exclusions

Procedure (Any position): 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84, 33.50, 33.51, 33.52, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.67, 80.05, 80.06, 81.53, 81.54, 81.55
Diagnosis (Any position): 733.14, 820.00, 820.02, 820.03, 820.09, 820.20, 820.21, 820.22, 820.8, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V15.5, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V58.43, V58.49
Diagnosis (First listed): 170.6, 170.7, 170.8, 171.3, 996.41, 996.43

Pacemaker Procedures

Inclusions

DRG: 242, 243, 244, 258, 259, 260, 261, 262

Exclusions

Procedure (Any position): 00.66, 33.50, 33.51, 33.52, 33.6, 36.06, 36.07, 36.09, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Procedure (First listed): 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.62, 37.63
Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Diagnosis (First listed): 414.06, 414.07
Drg (Any position): 242, 243, 244, 258, 259, 260, 261, 262

Pancreatitis

Inclusions

Diagnosis (First listed): 577.0, 577.1, 577.2

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Peripheral Vascular Bypass

Inclusions

Procedure Code (First listed): 39.29

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.25, 39.49, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 440.31, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Diagnosis (First listed): 445.01, 996.74

Pneumonia

Inclusions

Diagnosis (First listed): 481, 482.0, 482.1, 482.2, 482.30, 482.31, 482.32, 482.39, 482.40, 482.41, 482.42, 482.49, 482.81, 482.82, 482.83, 482.84, 482.89, 482.9, 483.0, 483.1, 483.8, 485, 486, 487.0

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.61, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 480.3, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Prostate Removal Surgery

Inclusions

Procedure (First listed): 60.3, 60.4, 60.5, 60.61, 60.62, 60.69

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.8, 55.69

Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Pulmonary Embolism

Inclusions

Diagnosis (First listed): 415.11, 415.19

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21

Diagnosis (Other than first listed): 205.32

Respiratory Failure

Inclusions

Diagnosis (First listed): 518.81, 518.84

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21

Diagnosis (Other than first listed): 205.32

Sepsis

Inclusions

Diagnosis (First listed): 003.1, 027.0, 036.2, 036.3, 038.0, 038.10, 038.11, 038.12, 038.19, 038.2, 038.3, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 785.52

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 50.69, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.00, 203.02, 203.12, 203.82, 204.02, 204.10, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21

Diagnosis (Other than first listed): 205.32

Small Intestine Surgeries

Inclusions

Procedure (First listed): 45.01, 45.02, 45.51, 45.61, 45.62, 45.63, 45.91, 45.93, 46.01, 46.02, 46.21, 46.22, 46.23, 46.31, 46.32, 46.39, 46.41, 46.51, 46.71, 46.72, 46.73, 46.74, 46.81

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Diagnosis (First listed): 278.00, 278.01

Spinal Fusion

Inclusions

Procedure and Diagnosis Related Grouping: Procedure (First listed): 8100, 8102, 8103, 8104, 8105, 8106, 8107, 8108, 8161 AND one of the following DRGs: 28, 29, 30, 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, 473

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.69, 81.01, 81.30, 81.31, 81.32, 81.33, 81.34, 81.35, 81.36, 81.37, 81.38, 81.39, 81.65, 81.66, 84.58, 84.59, 84.60, 84.61, 84.62, 84.63, 84.64, 84.65, 84.66, 84.67, 84.68, 84.69, 84.80, 84.81, 84.82, 84.83, 84.84, 84.85

Procedure (Other than first listed): 81.64

Diagnosis (Any position): 170.2, 170.6, 198.5, 324.1, 324.9, 805.00, 805.01, 805.02, 805.03, 805.04, 805.05, 805.06, 805.07, 805.08, 805.10, 805.11, 805.12, 805.13, 805.14, 805.15, 805.16, 805.17, 805.18, 805.2, 805.3, 805.4, 805.5, 805.6, 805.7, 805.8, 805.9, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V45.4

Diagnosis (First listed): 952.0, 952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09, 952.1, 952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19, 952.2, 952.3, 952.4, 952.8, 952.9, 996.41, 996.42, 996.43

Procedure and Diagnosis Combination: Procedure (Any position): 03.02 AND One of the following diagnoses (Any position): 722.80, 722.81, 722.82, 722.83

Stroke

Inclusions

Diagnosis (First listed): 191.0, 191.6, 192.1, 225.2, 430, 431, 432.9, 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.01, 434.11, 434.91

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 432.1, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Diagnosis (First listed): 191.0, 191.6, 192.1, 225.2, 430, 431, 432.9, 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.01, 434.11, 434.91

Total Knee Replacement

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First listed): 81.54 AND
One of the following DRGs: 461, 462, 469, 470

Exclusions

Procedure (Any position): 00.74, 00.75, 00.76, 00.80, 00.81, 00.82, 00.83, 00.84, 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.67, 80.05, 80.06, 81.51, 81.52, 81.53

Procedure (Other than first listed): 00.85, 00.86, 00.87, 81.55

Diagnosis (Any position): 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Diagnosis (First listed): 170.7, 171.3, 198.5, 996.43

Transurethral Prostate Resection Surgery

Inclusions

Procedure (First listed): 60.21, 60.29

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Valve Surgery

Inclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 35.05, 35.06, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 35.55, 35.96, 35.97, 36.31, 36.32, 36.33, 36.34, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.12, 38.34, 38.44, 38.64, 39.71, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 35.05, 35.06, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 35.55, 35.96, 35.97, 36.31, 36.32, 36.33, 36.34, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.12, 38.34, 38.44, 38.64, 39.71, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

Diagnosis (Any position): 414.06, 414.07, 441.00, 441.01, 441.02, 441.03, 441.2, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Appendix C. Complications

Abdominal Aortic Aneurysm Repair - Independent Complications

These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
041.04	BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
041.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.7	PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
348.1	ANOXIC BRAIN DAMAGE
39.98	CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
568.81	HEMOPERITONEUM (NONTRAUMATIC)
729.73	NONTRAUMATIC COMPARTMENT SYNDROME OF ABDOMEN
780.01	COMA
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY

957.1	INJURY TO OTHER SPECIFIED NERVE(S)
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Abdominal Aortic Aneurysm Repair - Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS, NOT ELSEWHERE CLASSIFIED

410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B

482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
518.81	ACUTE RESPIRATORY FAILURE

Must occur with 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

557.0	ACUTE VASCULAR INSUFFICIENCY OF INTESTINE
557.9	UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA

Appendectomy - Independent Complications

041.00	BACTERIAL INFECTION DUE TO UNSPECIFIED STREPTOCOCCUS
041.9	BACTERIAL INFECTION, UNSPECIFIED, IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
293.1	SUBACUTE DELIRIUM
298.9	UNSPECIFIED PSYCHOSIS
311	DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED
312.9	UNSPECIFIED DISTURBANCE OF CONDUCT
348.30	ENCEPHALOPATHY, UNSPECIFIED
348.31	METABOLIC ENCEPHALOPATHY
348.39	OTHER ENCEPHALOPATHY
349.82	TOXIC ENCEPHALOPATHY

38.95	VENOUS CATHETERIZATION FOR RENAL DIALYSIS
39.95	HEMODIALYSIS
410.70	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, EPISODE OF CARE UNSPECIFIED
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.00	CEREBRAL THROMBOSIS WITHOUT MENTION OF CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.10	CEREBRAL EMBOLISM WITHOUT MENTION OF CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.90	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITHOUT MENTION OF CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
444.22	ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY
449	SEPTIC ARTERIAL EMBOLISM
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.8	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
453.83	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UPPER EXTREMITIES, UNSPECIFIED
453.84	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF AXILLARY VEINS
453.85	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF SUBCLAVIAN VEINS
453.86	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF INTERNAL JUGULAR VEINS
453.87	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER THORACIC VEINS
453.89	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS
458.29	OTHER IATROGENIC HYPOTENSION
459.0	HEMORRHAGE, UNSPECIFIED
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
495.9	UNSPECIFIED ALLERGIC ALVEOLITIS AND PNEUMONITIS
512.1	IATROGENIC PNEUMOTHORAX
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
519.09	OTHER TRACHEOSTOMY COMPLICATIONS
54.12	REOPENING OF RECENT LAPAROTOMY SITE
54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
567.38	OTHER RETROPERITONEAL ABSCESS
567.89	OTHER SPECIFIED PERITONITIS
567.9	UNSPECIFIED PERITONITIS
570	ACUTE AND SUBACUTE NECROSIS OF LIVER
578.9	HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED
707.23	PRESSURE ULCER, STAGE III
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
780.2	SYNCOPE AND COLLAPSE
785.4	GANGRENE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
799.01	ASPHYXIA
799.1	RESPIRATORY ARREST
863.29	INJURY TO OTHER SITE OF SMALL INTESTINE WITHOUT OPEN WOUND INTO CAVITY

864.02	LACERATION OF LIVER, MINOR, WITHOUT MENTION OF OPEN WOUND INTO CAVITY
864.09	OTHER INJURY TO LIVER WITHOUT MENTION OF OPEN WOUND INTO CAVITY
867.1	INJURY TO BLADDER AND URETHRA WITH OPEN WOUND INTO CAVITY
933.1	FOREIGN BODY IN LARYNX
934.0	FOREIGN BODY IN TRACHEA
934.1	FOREIGN BODY IN MAIN BRONCHUS
934.9	FOREIGN BODY IN RESPIRATORY TREE, UNSPECIFIED
935.1	FOREIGN BODY IN ESOPHAGUS
947.3	BURN OF GASTROINTESTINAL TRACT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.79	VASCULAR COMPLICATIONS OF OTHER VESSELS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
997.99	OTHER COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.4	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE
998.51	INFECTED POSTOPERATIVE SEROMA
998.59	OTHER POSTOPERATIVE INFECTION
998.6	PERSISTENT POSTOPERATIVE FISTULA
998.7	ACUTE REACTION TO FOREIGN SUBSTANCE ACCIDENTALLY LEFT DURING A PROCEDURE
998.89	OTHER SPECIFIED COMPLICATIONS OF PROCEDURES
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999.80	TRANSFUSION REACTION, UNSPECIFIED
999.83	HEMOLYTIC TRANSFUSION REACTION, INCOMPATIBILITY UNSPECIFIED
999.84	ACUTE HEMOLYTIC TRANSFUSION REACTION, INCOMPATIBILITY UNSPECIFIED
999.85	DELAYED HEMOLYTIC TRANSFUSION REACTION, INCOMPATIBILITY UNSPECIFIED
E878.6	REMOVAL OF OTHER ORGAN (PARTIAL) (TOTAL) CAUSING ABNORMAL PATIENT REACTION, OR LATER COMPLICATION, WITHOUT MENTION OF MISADVENTURE AT TIME OF OPERATION
E935.2	OTHER OPIATES AND RELATED NARCOTICS CAUSING ADVERSE EFFECTS IN THERAPEUTIC USE

Appendectomy - Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS, NOT ELSEWHERE CLASSIFIED

410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE

- 410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
- 410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
- 410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
- 427.0 PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
- 427.1 PAROXYSMAL VENTRICULAR TACHYCARDIA
- 427.31 ATRIAL FIBRILLATION
- 428.0 CONGESTIVE HEART FAILURE, UNSPECIFIED
- 428.1 LEFT HEART FAILURE
- 428.21 ACUTE SYSTOLIC HEART FAILURE
- 428.31 ACUTE DIASTOLIC HEART FAILURE
- 428.41 ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.43 ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

- 481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
- 482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
- 482.1 PNEUMONIA DUE TO PSEUDOMONAS
- 482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
- 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
- 482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
- 482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS
- 482.40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
- 482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.42 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA
- 482.81 PNEUMONIA DUE TO ANAEROBES
- 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
- 482.83 PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
- 482.84 LEGIONNAIRES' DISEASE
- 482.89 PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
- 482.9 BACTERIAL PNEUMONIA, UNSPECIFIED
- 483.0 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
- 483.1 PNEUMONIA DUE TO CHLAMYDIA
- 483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
- 484.3 PNEUMONIA IN WHOOPING COUGH
- 484.6 PNEUMONIA IN ASPERGILLOSIS
- 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
- 486 PNEUMONIA, ORGANISM UNSPECIFIED
- 507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
- 518.81 ACUTE RESPIRATORY FAILURE
- 518.84 ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

- 560.81 INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION)

Must occur with 997.5 URINARY COMPLICATIONS

- 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS

Must occur with 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE or 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

- 569.83 PERFORATION OF INTESTINE

Must occur with 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE or 998.11 HEMORRHAGE COMPLICATING A PROCEDURE

- 568.81 HEMOPERITONEUM (NONTRAUMATIC)

Must occur with 998.59 OTHER POSTOPERATIVE INFECTIONDependent

- 038.0 STREPTOCOCCAL SEPTICEMIA
- 038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 682.2 CELLULITIS AND ABSCESS OF TRUNK
- 785.52 SEPTIC SHOCK
- 790.7 BACTEREMIA

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION or 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

995.92 SEVERE SEPSIS

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION or 998.51 INFECTED POSTOPERATIVE SEROMA

041.4 ESCHERICHIA COLI [E. COLI] INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE

Back and Neck Surgeries (Without Spinal Fusion) – Independent Complications

038.0 STREPTOCOCCAL SEPTICEMIA
038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2 PNEUMOCOCCAL SEPTICEMIA
038.3 SEPTICEMIA DUE TO ANAEROBES
038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43 SEPTICEMIA DUE TO PSEUDOMONAS
038.44 SEPTICEMIA DUE TO SERRATIA
038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8 OTHER SPECIFIED SEPTICEMIAS
038.9 UNSPECIFIED SEPTICEMIA
286.6 DEFIBRATION SYNDROME
292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81 DRUG INDUCED DELIRIUM
293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12 SEPTIC PULMONARY EMBOLISM
415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
423.3 CARDIAC TAMPONADE
427.41 VENTRICULAR FIBRILLATION
427.5 CARDIAC ARREST
431 INTRACEREBRAL HEMORRHAGE
433.01 OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11 OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21 OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31 OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81 OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91 OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01 CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449 SEPTIC ARTERIAL EMBOLISM
453.40 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0 PNEUMONIA DUE TO ADENOVIRUS
480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2 PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1 PNEUMONIA DUE TO PSEUDOMONAS

482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
596.54	NEUROGENIC BLADDER NOS
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
952.0	CERVICAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.00	C1-C4 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.01	C1-C4 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.02	C1-C4 LEVEL WITH ANTERIOR CORD SYNDROME
952.03	C1-C4 LEVEL WITH CENTRAL CORD SYNDROME
952.04	C1-C4 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.05	C5-C7 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.06	C5-C7 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.07	C5-C7 LEVEL WITH ANTERIOR CORD SYNDROME
952.08	C5-C7 LEVEL WITH CENTRAL CORD SYNDROME
952.09	C5-C7 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.1	DORSAL [THORACIC] SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.10	T1-T6 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.11	T1-T6 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.12	T1-T6 LEVEL WITH ANTERIOR CORD SYNDROME
952.13	T1-T6 LEVEL WITH CENTRAL CORD SYNDROME
952.14	T1-T6 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.15	T7-T12 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.16	T7-T12 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.17	T7-T12 LEVEL WITH ANTERIOR CORD SYNDROME

952.18	T7-T12 LEVEL WITH CENTRAL CORD SYNDROME
952.19	T7-T12 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.2	LUMBAR SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.3	SACRAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.4	CAUDA EQUINA SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.8	MULTIPLE SITES OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.9	UNSPECIFIED SITE OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Back and Neck Surgeries (Without Spinal Fusion) – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.09 OTHER NERVOUS SYSTEM COMPLICATIONS

344.60	CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER
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Must occur with 997.1 CARDIAC COMPLICATIONS

427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

996.40 UNSPECIFIED MECHANICAL COMPLICATION OF INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.49 OTHER MECHANICAL COMPLICATION OF OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.78 OTHER COMPLICATIONS DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT

Carotid Surgery – Independent Complications

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6 DEFIBRATION SYNDROME
292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81 DRUG INDUCED DELIRIUM
293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
348.1 ANOXIC BRAIN DAMAGE
39.98 CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12 SEPTIC PULMONARY EMBOLISM
415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
423.3 CARDIAC TAMPONADE
427.41 VENTRICULAR FIBRILLATION
427.5 CARDIAC ARREST
430 SUBARACHNOID HEMORRHAGE
431 INTRACEREBRAL HEMORRHAGE
432.1 SUBDURAL HEMORRHAGE
434.01 CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449 SEPTIC ARTERIAL EMBOLISM
453.40 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0 PNEUMONIA DUE TO ADENOVIRUS
480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2 PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1 PNEUMONIA DUE TO PSEUDOMONAS
482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS

482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
780.01	COMA
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
951.7	INJURY TO HYPOGLOSSAL NERVE
957.1	INJURY TO OTHER SPECIFIED NERVE(S)
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER

- 999.34 ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39 INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Carotid Surgery – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

- 433.01 OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11 OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21 OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31 OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81 OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91 OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.11 CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91 UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

- 410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
427.0 PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1 PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31 ATRIAL FIBRILLATION
427.32 ATRIAL FLUTTER
428.0 CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1 LEFT HEART FAILURE
428.21 ACUTE SYSTOLIC HEART FAILURE
428.23 ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31 ACUTE DIASTOLIC HEART FAILURE
428.33 ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41 ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43 ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9 HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED

Must occur with 997.5 URINARY COMPLICATIONS

- 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9 ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 038.0 STREPTOCOCCAL SEPTICEMIA
038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2 PNEUMOCOCCAL SEPTICEMIA
038.3 SEPTICEMIA DUE TO ANAEROBES
038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43 SEPTICEMIA DUE TO PSEUDOMONAS
038.44 SEPTICEMIA DUE TO SERRATIA
038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8 OTHER SPECIFIED SEPTICEMIAS
038.9 UNSPECIFIED SEPTICEMIA

Defibrillator Procedures – Independent Complications

038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
429.5	RUPTURE OF CHORDAE TENDINEAE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
435.3	VERTEBROBASILAR ARTERY SYNDROME
435.8	OTHER SPECIFIED TRANSIENT CEREBRAL ISCHEMIAS
444.09	OTHER ARTERIAL EMBOLISM AND THROMBOSIS OF ABDOMINAL AORTA
444.1	EMBOLISM AND THROMBOSIS OF THORACIC AORTA
444.21	ARTERIAL EMBOLISM AND THROMBOSIS OF UPPER EXTREMITY
444.22	ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY
444.81	EMBOLISM AND THROMBOSIS OF ILIAC ARTERY
444.89	EMBOLISM AND THROMBOSIS OF OTHER ARTERY
444.9	EMBOLISM AND THROMBOSIS OF UNSPECIFIED ARTERY
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
512.1	IATROGENIC PNEUMOTHORAX
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
707.23	PRESSURE ULCER, STAGE III
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
785.50	SHOCK, UNSPECIFIED
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
868.04	INJURY TO RETROPERITONEUM WITHOUT MENTION OF OPEN WOUND INTO CAVITY
868.14	INJURY TO RETROPERITONEUM WITH OPEN WOUND INTO CAVITY
995.29	UNSPECIFIED ADVERSE EFFECT OF OTHER DRUG, MEDICINAL AND BIOLOGICAL SUBSTANCE
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.01	MECHANICAL COMPLICATION DUE TO CARDIAC PACEMAKER (ELECTRODE)
996.04	MECHANICAL COMPLICATION DUE TO AUTOMATIC IMPLANTABLE CARDIAC DEFIBRILLATOR
996.09	OTHER MECHANICAL COMPLICATION OF CARDIAC DEVICE, IMPLANT, AND GRAFT
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.61	INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.72	OTHER COMPLICATIONS DUE TO OTHER CARDIAC DEVICE, IMPLANT, AND GRAFT
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION

997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.79	VASCULAR COMPLICATIONS OF OTHER VESSELS
997.99	OTHER COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
998.81	EMPHYSEMA (SUBCUTANEOUS) (SURGICAL) RESULTING FROM PROCEDURE
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Defibrillator Procedures – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
420.0	ACUTE PERICARDITIS IN DISEASES CLASSIFIED ELSEWHERE
420.9	OTHER AND UNSPECIFIED ACUTE PERICARDITIS
420.90	ACUTE PERICARDITIS, UNSPECIFIED
420.99	OTHER ACUTE PERICARDITIS
423.3	CARDIAC TAMPONADE
427.5	CARDIAC ARREST

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS

482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA

Gallbladder Removal Surgery (Cholecystectomy) – Independent Complications

286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION

433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
458.29	OTHER IATROGENIC HYPOTENSION
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
512.1	IATROGENIC PNEUMOTHORAX
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
567.21	PERITONITIS (ACUTE) GENERALIZED
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
868.02	INJURY TO BILE DUCT AND GALLBLADDER WITHOUT MENTION OF OPEN WOUND INTO CAVITY
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.4	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE
998.59	OTHER POSTOPERATIVE INFECTION
998.6	PERSISTENT POSTOPERATIVE FISTULA
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Gallbladder Removal Surgery (Cholecystectomy) – Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS

410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
427.41	VENTRICULAR FIBRILLATION
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE or 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

569.83	PERFORATION OF INTESTINE
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Must occur with 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE or 998.11 HEMORRHAGE COMPLICATING A PROCEDURE

568.81 HEMOPERITONEUM (NONTRAUMATIC)

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
038.0 STREPTOCOCCAL SEPTICEMIA
038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2 PNEUMOCOCCAL SEPTICEMIA
038.3 SEPTICEMIA DUE TO ANAEROBES
038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43 SEPTICEMIA DUE TO PSEUDOMONAS
038.44 SEPTICEMIA DUE TO SERRATIA
038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8 OTHER SPECIFIED SEPTICEMIAS
038.9 UNSPECIFIED SEPTICEMIA
567.89 OTHER SPECIFIED PERITONITIS
567.9 UNSPECIFIED PERITONITIS
682.2 CELLULITIS AND ABSCESS OF TRUNK
785.52 SEPTIC SHOCK
790.7 BACTEREMIA
995.91 SEPSIS
995.92 SEVERE SEPSIS

Hip Fracture Treatment – Independent Complications

286.6 DEFIBRATION SYNDROME
292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81 DRUG INDUCED DELIRIUM
293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12 SEPTIC PULMONARY EMBOLISM
415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
423.3 CARDIAC TAMPONADE
427.41 VENTRICULAR FIBRILLATION
427.5 CARDIAC ARREST
431 INTRACEREBRAL HEMORRHAGE
433.01 OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11 OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21 OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31 OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81 OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91 OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01 CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449 SEPTIC ARTERIAL EMBOLISM
453.40 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
512.1 IATROGENIC PNEUMOTHORAX
514 PULMONARY CONGESTION AND HYPOSTASIS
518.7 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
707.0 PRESSURE ULCER
707.00 PRESSURE ULCER, UNSPECIFIED SITE
707.01 PRESSURE ULCER, ELBOW
707.02 PRESSURE ULCER, UPPER BACK
707.03 PRESSURE ULCER, LOWER BACK
707.04 PRESSURE ULCER, HIP
707.05 PRESSURE ULCER, BUTTOCK
707.06 PRESSURE ULCER, ANKLE

707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Hip Fracture Treatment – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
799.1	RESPIRATORY ARREST

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
593.9	UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA
785.52	SEPTIC SHOCK
995.91	SEPSIS
995.92	SEVERE SEPSIS

Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS

Hip Replacement – Independent Complications

038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA
286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
348.1	ANOXIC BRAIN DAMAGE
39.98	CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE

482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
780.01	COMA
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.42	DISLOCATION OF PROSTHETIC JOINT
996.44	PERI-PROSTHETIC FRACTURE AROUND PROSTHETIC JOINT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE

998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999.8	OTHER AND UNSPECIFIED INFUSION AND TRANSFUSION REACTION

Hip Replacement – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
593.9	UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
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Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

996.40	UNSPECIFIED MECHANICAL COMPLICATION OF INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.47	OTHER MECHANICAL COMPLICATION OF PROSTHETIC JOINT IMPLANT
996.49	OTHER MECHANICAL COMPLICATION OF OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.77	OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS
996.78	OTHER COMPLICATIONS DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT

Pacemaker Procedures – Independent Complications

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
435.3	VERTEBROBASILAR ARTERY SYNDROME
444.09	OTHER ARTERIAL EMBOLISM AND THROMBOSIS OF ABDOMINAL AORTA
444.1	EMBOLISM AND THROMBOSIS OF THORACIC AORTA
444.21	ARTERIAL EMBOLISM AND THROMBOSIS OF UPPER EXTREMITY
444.22	ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY
444.81	EMBOLISM AND THROMBOSIS OF ILIAC ARTERY
444.89	EMBOLISM AND THROMBOSIS OF OTHER ARTERY
444.9	EMBOLISM AND THROMBOSIS OF UNSPECIFIED ARTERY
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
512.1	IATROGENIC PNEUMOTHORAX
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
707.23	PRESSURE ULCER, STAGE III
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
785.50	SHOCK, UNSPECIFIED
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
868.04	INJURY TO RETROPERITONEUM WITHOUT MENTION OF OPEN WOUND INTO CAVITY
868.14	INJURY TO RETROPERITONEUM WITH OPEN WOUND INTO CAVITY
995.29	UNSPECIFIED ADVERSE EFFECT OF OTHER DRUG, MEDICINAL AND BIOLOGICAL SUBSTANCE
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.01	MECHANICAL COMPLICATION DUE TO CARDIAC PACEMAKER (ELECTRODE)
996.04	MECHANICAL COMPLICATION DUE TO AUTOMATIC IMPLANTABLE CARDIAC DEFIBRILLATOR
996.09	OTHER MECHANICAL COMPLICATION OF CARDIAC DEVICE, IMPLANT, AND GRAFT
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.61	INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.72	OTHER COMPLICATIONS DUE TO OTHER CARDIAC DEVICE, IMPLANT, AND GRAFT
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS

997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.79	VASCULAR COMPLICATIONS OF OTHER VESSELS
997.99	OTHER COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
998.81	EMPHYSEMA (SUBCUTANEOUS) (SURGICAL) RESULTING FROM PROCEDURE
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Pacemaker Procedures – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

431	INTRACEREBRAL HEMORRHAGE
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

286.6	DEFIBRATION SYNDROME
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
420.0	ACUTE PERICARDITIS IN DISEASES CLASSIFIED ELSEWHERE
420.9	OTHER AND UNSPECIFIED ACUTE PERICARDITIS
420.90	ACUTE PERICARDITIS, UNSPECIFIED
420.99	OTHER ACUTE PERICARDITIS
423.3	CARDIAC TAMPONADE
427.5	CARDIAC ARREST

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]

482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA

Peripheral Vascular Bypass – Independent Complications

286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
348.1	ANOXIC BRAIN DAMAGE
39.98	CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
780.01	COMA
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
957.1	INJURY TO OTHER SPECIFIED NERVE(S)
995.91	SEPSIS
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION

998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Peripheral Vascular Bypass – Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS

410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA

- 483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
- 484.3 PNEUMONIA IN WHOOPING COUGH
- 484.6 PNEUMONIA IN ASPERGILLOSIS
- 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
- 486 PNEUMONIA, ORGANISM UNSPECIFIED
- 507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
- 518.81 ACUTE RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

- 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
- 584.8 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
- 584.9 ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
- 038.0 STREPTOCOCCAL SEPTICEMIA
- 038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
- 038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
- 038.2 PNEUMOCOCCAL SEPTICEMIA
- 038.3 SEPTICEMIA DUE TO ANAEROBES
- 038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
- 038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
- 038.43 SEPTICEMIA DUE TO PSEUDOMONAS
- 038.44 SEPTICEMIA DUE TO SERRATIA
- 038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
- 038.8 OTHER SPECIFIED SEPTICEMIAS
- 038.9 UNSPECIFIED SEPTICEMIA
- 995.92 SEVERE SEPSIS

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION or 998.51 INFECTED POSTOPERATIVE SEROMA

- 041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
- 041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
- 041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE

Prostate Removal Surgery – Independent Complications

- 041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
- 041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
- 041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
- 286.6 DEFIBRATION SYNDROME
- 292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
- 292.81 DRUG INDUCED DELIRIUM
- 293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
- 410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
- 410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
- 410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
- 410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
- 410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
- 410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
- 410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
- 410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
- 410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
- 410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
- 415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
- 415.12 SEPTIC PULMONARY EMBOLISM
- 415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
- 423.3 CARDIAC TAMPONADE
- 427.5 CARDIAC ARREST
- 434.91 UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
458.29	OTHER IATROGENIC HYPOTENSION
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
567.21	PERITONITIS (ACUTE) GENERALIZED
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
567.89	OTHER SPECIFIED PERITONITIS
567.9	UNSPECIFIED PERITONITIS
568.81	HEMOPERITONEUM (NONTRAUMATIC)
569.83	PERFORATION OF INTESTINE
729.73	NONTRAUMATIC COMPARTMENT SYNDROME OF ABDOMEN
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
790.7	BACTEREMIA
863.45	INJURY TO RECTUM WITHOUT OPEN WOUND INTO CAVITY
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
957.1	INJURY TO OTHER SPECIFIED NERVE(S)
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.4	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE
998.59	OTHER POSTOPERATIVE INFECTION
998.6	PERSISTENT POSTOPERATIVE FISTULA

- 999.31 OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
- 999.32 BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
- 999.34 ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
- 999.39 INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Prostate Removal Surgery – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

- 434.11 CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

- 427.0 PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
- 427.1 PAROXYSMAL VENTRICULAR TACHYCARDIA
- 427.31 ATRIAL FIBRILLATION
- 427.32 ATRIAL FLUTTER
- 427.41 VENTRICULAR FIBRILLATION
- 428.0 CONGESTIVE HEART FAILURE, UNSPECIFIED
- 428.1 LEFT HEART FAILURE
- 428.21 ACUTE SYSTOLIC HEART FAILURE
- 428.23 ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
- 428.31 ACUTE DIASTOLIC HEART FAILURE
- 428.33 ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
- 428.41 ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.43 ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.9 HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

- 481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
- 482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
- 482.1 PNEUMONIA DUE TO PSEUDOMONAS
- 482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
- 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
- 482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
- 482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS
- 482.40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
- 482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.42 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA
- 482.81 PNEUMONIA DUE TO ANAEROBES
- 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
- 482.83 PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
- 482.84 LEGIONNAIRES' DISEASE
- 482.89 PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
- 482.9 BACTERIAL PNEUMONIA, UNSPECIFIED
- 483.0 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
- 483.1 PNEUMONIA DUE TO CHLAMYDIA
- 483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
- 484.3 PNEUMONIA IN WHOOPING COUGH
- 484.6 PNEUMONIA IN ASPERGILLOSIS
- 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
- 486 PNEUMONIA, ORGANISM UNSPECIFIED

Must occur with 997.5 URINARY COMPLICATIONS

- 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
- 584.8 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
- 584.9 ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
- 038.0 STREPTOCOCCAL SEPTICEMIA
- 038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
- 038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA

038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA
682.2	CELLULITIS AND ABSCESS OF TRUNK
995.91	SEPSIS
995.92	SEVERE SEPSIS

Spinal Fusion – Independent Complications

038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19	OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2	PNEUMOCOCCAL SEPTICEMIA
038.3	SEPTICEMIA DUE TO ANAEROBES
038.40	SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41	SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42	SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43	SEPTICEMIA DUE TO PSEUDOMONAS
038.44	SEPTICEMIA DUE TO SERRATIA
038.49	OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8	OTHER SPECIFIED SEPTICEMIAS
038.9	UNSPECIFIED SEPTICEMIA
286.6	DEFIBRATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES

480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
596.54	NEUROGENIC BLADDER NOS
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
952.0	CERVICAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.00	C1-C4 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.01	C1-C4 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.02	C1-C4 LEVEL WITH ANTERIOR CORD SYNDROME
952.03	C1-C4 LEVEL WITH CENTRAL CORD SYNDROME
952.04	C1-C4 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.05	C5-C7 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.06	C5-C7 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.07	C5-C7 LEVEL WITH ANTERIOR CORD SYNDROME
952.08	C5-C7 LEVEL WITH CENTRAL CORD SYNDROME
952.09	C5-C7 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.1	DORSAL [THORACIC] SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY

952.10	T1-T6 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.11	T1-T6 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.12	T1-T6 LEVEL WITH ANTERIOR CORD SYNDROME
952.13	T1-T6 LEVEL WITH CENTRAL CORD SYNDROME
952.14	T1-T6 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.15	T7-T12 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.16	T7-T12 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.17	T7-T12 LEVEL WITH ANTERIOR CORD SYNDROME
952.18	T7-T12 LEVEL WITH CENTRAL CORD SYNDROME
952.19	T7-T12 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.2	LUMBAR SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.3	SACRAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.4	CAUDA EQUINA SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.8	MULTIPLE SITES OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.9	UNSPECIFIED SITE OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.67	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Spinal Fusion – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.09 OTHER NERVOUS SYSTEM COMPLICATIONS

344.60	CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER
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Must occur with 997.1 CARDIAC COMPLICATIONS

427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE

- 428.41 ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.43 ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.9 HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
- 518.51 ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
- 518.53 ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
- 518.84 ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

- 593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

- 996.40 UNSPECIFIED MECHANICAL COMPLICATION OF INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
- 996.49 OTHER MECHANICAL COMPLICATION OF OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
- 996.78 OTHER COMPLICATIONS DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT

Total Knee Replacement – Independent Complications

- 038.0 STREPTOCOCCAL SEPTICEMIA
- 038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
- 038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
- 038.2 PNEUMOCOCCAL SEPTICEMIA
- 038.3 SEPTICEMIA DUE TO ANAEROBES
- 038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
- 038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
- 038.43 SEPTICEMIA DUE TO PSEUDOMONAS
- 038.44 SEPTICEMIA DUE TO SERRATIA
- 038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
- 038.8 OTHER SPECIFIED SEPTICEMIAS
- 038.9 UNSPECIFIED SEPTICEMIA
- 286.6 DEFIBRATION SYNDROME
- 292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
- 292.81 DRUG INDUCED DELIRIUM
- 293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
- 348.1 ANOXIC BRAIN DAMAGE
- 410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
- 410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
- 410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
- 410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
- 410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
- 410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
- 410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
- 410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
- 410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
- 410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
- 415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
- 415.12 SEPTIC PULMONARY EMBOLISM
- 415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
- 423.3 CARDIAC TAMPONADE
- 427.41 VENTRICULAR FIBRILLATION
- 427.5 CARDIAC ARREST
- 428.31 ACUTE DIASTOLIC HEART FAILURE

428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
780.01	COMA
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK

785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
956.3	INJURY TO PERONEAL NERVE
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.42	DISLOCATION OF PROSTHETIC JOINT
996.44	PERI-PROSTHETIC FRACTURE AROUND PROSTHETIC JOINT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999.8	OTHER AND UNSPECIFIED INFUSION AND TRANSFUSION REACTION

Total Knee Replacement – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.32	ATRIAL FLUTTER
428.0	CONGESTIVE HEART FAILURE, UNSPECIFIED
428.1	LEFT HEART FAILURE
428.21	ACUTE SYSTOLIC HEART FAILURE
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.41	ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.43	ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
428.9	HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

593.9	UNSPECIFIED DISORDER OF KIDNEY AND URETER
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Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

996.40 UNSPECIFIED MECHANICAL COMPLICATION OF INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.47 OTHER MECHANICAL COMPLICATION OF PROSTHETIC JOINT IMPLANT
996.49 OTHER MECHANICAL COMPLICATION OF OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.78 OTHER COMPLICATIONS DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT

Must occur with V43.64 HIP JOINT REPLACED BY OTHER MEANS or V54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or V43.65 KNEE JOINT REPLACED BY OTHER MEANS or V42.4 BONE REPLACED BY TRANSPLANT or V45.4 ARTHRODESIS STATUS or V54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE or V54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS

Transurethral Prostate Resection Surgery – Independent Complications

041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6 DEFIBRATION SYNDROME
292.12 DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81 DRUG INDUCED DELIRIUM
293.0 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12 SEPTIC PULMONARY EMBOLISM
415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
423.3 CARDIAC TAMPONADE
427.5 CARDIAC ARREST
434.91 UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
449 SEPTIC ARTERIAL EMBOLISM
453.40 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
458.29 OTHER IATROGENIC HYPOTENSION
480.0 PNEUMONIA DUE TO ADENOVIRUS
480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2 PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1 PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1 IATROGENIC PNEUMOTHORAX
518.51 ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53 ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81 ACUTE RESPIRATORY FAILURE
518.84 ACUTE AND CHRONIC RESPIRATORY FAILURE

54.12	REOPENING OF RECENT LAPAROTOMY SITE
54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
567.21	PERITONITIS (ACUTE) GENERALIZED
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
567.89	OTHER SPECIFIED PERITONITIS
567.9	UNSPECIFIED PERITONITIS
568.81	HEMOPERITONEUM (NONTRAUMATIC)
569.83	PERFORATION OF INTESTINE
729.73	NONTRAUMATIC COMPARTMENT SYNDROME OF ABDOMEN
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
790.7	BACTEREMIA
863.45	INJURY TO RECTUM WITHOUT OPEN WOUND INTO CAVITY
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
957.1	INJURY TO OTHER SPECIFIED NERVE(S)
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.4	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE
998.59	OTHER POSTOPERATIVE INFECTION
998.6	PERSISTENT POSTOPERATIVE FISTULA
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Transurethral Prostate Resection Surgery – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

434.11 CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION

Must occur with 997.1 CARDIAC COMPLICATIONS

427.0 PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
 427.1 PAROXYSMAL VENTRICULAR TACHYCARDIA
 427.31 ATRIAL FIBRILLATION
 427.32 ATRIAL FLUTTER
 427.41 VENTRICULAR FIBRILLATION

- 428.0 CONGESTIVE HEART FAILURE, UNSPECIFIED
- 428.1 LEFT HEART FAILURE
- 428.21 ACUTE SYSTOLIC HEART FAILURE
- 428.23 ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
- 428.31 ACUTE DIASTOLIC HEART FAILURE
- 428.33 ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
- 428.41 ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.43 ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE
- 428.9 HEART FAILURE, UNSPECIFIED

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

- 481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
- 482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
- 482.1 PNEUMONIA DUE TO PSEUDOMONAS
- 482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
- 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
- 482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
- 482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS
- 482.40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
- 482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.42 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
- 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA
- 482.81 PNEUMONIA DUE TO ANAEROBES
- 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
- 482.83 PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
- 482.84 LEGIONNAIRES' DISEASE
- 482.89 PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
- 482.9 BACTERIAL PNEUMONIA, UNSPECIFIED
- 483.0 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
- 483.1 PNEUMONIA DUE TO CHLAMYDIA
- 483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
- 484.3 PNEUMONIA IN WHOOPING COUGH
- 484.6 PNEUMONIA IN ASPERGILLOSIS
- 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
- 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
- 486 PNEUMONIA, ORGANISM UNSPECIFIED

Must occur with 997.5 URINARY COMPLICATIONS

- 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
- 584.8 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
- 584.9 ACUTE KIDNEY FAILURE, UNSPECIFIED

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
- 038.0 STREPTOCOCCAL SEPTICEMIA
- 038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
- 038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
- 038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
- 038.2 PNEUMOCOCCAL SEPTICEMIA
- 038.3 SEPTICEMIA DUE TO ANAEROBES
- 038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
- 038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
- 038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
- 038.43 SEPTICEMIA DUE TO PSEUDOMONAS
- 038.44 SEPTICEMIA DUE TO SERRATIA
- 038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
- 038.8 OTHER SPECIFIED SEPTICEMIAS
- 038.9 UNSPECIFIED SEPTICEMIA
- 682.2 CELLULITIS AND ABSCESS OF TRUNK
- 995.91 SEPSIS
- 995.92 SEVERE SEPSIS

Appendix D. Coefficient Summary Table – Mortality Cohorts

Bowel Obstruction

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.132	0.044	3.01	1.14	0.241	0.034	7.19	1.27
AdmitSourceXferNonHospital	0.194	0.089	2.18	1.21	0.268	0.068	3.97	1.31
AdmitSourceXferSkilledNursing	0.113	0.052	2.18	1.12	0.380	0.037	10.36	1.46
Age70To74	0.389	0.047	8.31	1.48	0.322	0.036	9.06	1.38
Age75To79	0.634	0.045	14.16	1.89	0.579	0.034	17.05	1.79
Age80To84	0.923	0.043	21.33	2.52	0.824	0.033	24.98	2.28
Age85To89	1.155	0.044	26.48	3.17	1.099	0.033	33.25	3.00
Age90AndOver	1.414	0.045	31.38	4.11	1.510	0.034	44.76	4.53
PrimaryFacilityPresentOnAdmissionKnownPercent	1.261	0.123	10.27	3.53	0.422	0.079	5.36	1.53
SexFemale	-0.150	0.022	-6.87	0.86	-0.145	0.017	-8.68	0.87
ACIDOSIS	0.656	0.042	15.64	1.93	0.440	0.036	12.42	1.55
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.564	0.155	3.63	1.76	0.509	0.129	3.93	1.66
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.384	0.123	3.13	1.47	0.437	0.101	4.32	1.55
ACUTE PANCREATITIS	0.252	0.111	2.27	1.29	*	*	*	*
ACUTE RENAL FAILURE	0.286	0.028	10.29	1.33	0.265	0.022	11.98	1.30
ACUTE RESPIRATORY FAILURE	1.058	0.075	14.20	2.88	0.885	0.065	13.57	2.42
ACUTE SYSTOLIC HEART FAILURE	0.312	0.104	2.99	1.37	0.446	0.082	5.43	1.56
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	0.326	0.050	6.58	1.39	0.289	0.044	6.60	1.34
ALZHEIMER'S DISEASE	*	*	*	*	0.206	0.066	3.13	1.23
ANEMIA, UNSPECIFIED	*	*	*	*	0.075	0.024	3.19	1.08
ATRIAL FIBRILLATION	0.348	0.024	14.70	1.42	0.315	0.018	17.29	1.37
BODY MASS INDEX 40 AND OVER	0.131	0.054	2.42	1.14	0.099	0.042	2.34	1.11
BODY MASS INDEX LESS THAN 19, ADULT	0.117	0.055	2.12	1.12	0.229	0.042	5.43	1.26
CACHEXIA	0.666	0.069	9.70	1.95	0.713	0.054	13.22	2.04
CANDIDIASIS OF MOUTH	*	*	*	*	0.267	0.121	2.21	1.31
CARDIOMYOPATHY	0.388	0.049	7.87	1.47	0.295	0.040	7.40	1.34
CHOLECYSTECTOMY	0.530	0.097	5.46	1.70	0.440	0.088	5.03	1.55
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.310	0.027	11.44	1.36	0.312	0.021	14.96	1.37
CHRONIC BRONCHITIS	0.477	0.067	7.16	1.61	0.541	0.051	10.62	1.72
CHRONIC ISCHEMIC HEART DISEASE	0.414	0.057	7.33	1.51	0.298	0.046	6.54	1.35
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.097	0.038	2.53	1.10	0.064	0.030	2.13	1.07
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.471	0.061	7.76	1.60	0.450	0.048	9.42	1.57
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.324	0.036	8.98	1.38	0.298	0.028	10.77	1.35
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.624	0.087	7.16	1.87	0.844	0.064	13.22	2.33
COLOSTOMY, NOT OTHERWISE SPECIFIED	0.571	0.074	7.77	1.77	0.396	0.064	6.21	1.49
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.273	0.028	9.89	1.31	0.326	0.021	15.52	1.39
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.069	0.027	2.62	1.07	*	*	*	*

Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.154	0.036	4.27	1.17	0.074	0.027	2.73	1.08
DECUBITIS ULCER	0.343	0.055	6.28	1.41	0.544	0.040	13.71	1.72
DEHYDRATION	*	*	*	*	0.110	0.022	4.99	1.12
DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.279	0.120	2.33	1.32
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.137	0.055	2.52	1.15	0.243	0.066	3.72	1.28
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.246	0.055	4.51	1.28	0.316	0.042	7.61	1.37
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.249	0.088	2.85	1.28	*	*	*	*
DILATION OF INTESTINE	*	*	*	*	0.163	0.052	3.16	1.18
DO NOT RESUSCITATE STATUS	0.618	0.032	19.39	1.86	0.740	0.024	30.68	2.10
DYSPHAGIA	*	*	*	*	0.144	0.045	3.24	1.16
ENCEPHALOPATHY	0.490	0.072	6.80	1.63	0.464	0.057	8.15	1.59
END STAGE RENAL DISEASE	1.094	0.136	8.03	2.99	1.149	0.108	10.64	3.16
ESOPHAGOGASTRODUODENOSCOPY [EGD] WITH CLOSED BIOPSY	0.148	0.065	2.28	1.16	*	*	*	*
EXPLORATORY LAPAROTOMY	0.863	0.072	11.98	2.37	0.599	0.065	9.21	1.82
EXTERIORIZATION OF LARGE INTESTINE	0.561	0.129	4.35	1.75	0.478	0.104	4.62	1.61
EXTERIORIZATION OF SMALL INTESTINE	0.538	0.158	3.41	1.71	0.572	0.135	4.25	1.77
FLEXIBLE SIGMOIDOSCOPY	0.323	0.087	3.73	1.38	0.270	0.069	3.89	1.31
GASTROSTOMY STATUS	*	*	*	*	0.310	0.069	4.51	1.36
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.674	0.082	8.27	1.96	0.662	0.063	10.48	1.94
HYDRONEPHROSIS	0.185	0.076	2.43	1.20	0.369	0.056	6.63	1.45
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.331	0.060	5.56	1.39	0.498	0.046	10.90	1.65
HYPERPOTASSEMIA	0.309	0.054	5.68	1.36	0.262	0.043	6.10	1.30
HYOSMOLALITY AND/OR HYPONATREMIA	0.262	0.033	7.85	1.30	0.273	0.026	10.49	1.31
HYPOTENSION, UNSP OR NEC	0.271	0.062	4.35	1.31	0.336	0.048	7.01	1.40
HYPOXEMIA	*	*	*	*	0.135	0.065	2.08	1.15
ILEOSTOMY, NOT OTHERWISE SPECIFIED	0.928	0.084	11.04	2.53	0.810	0.077	10.59	2.25
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	*	*	*	*	0.220	0.075	2.94	1.25
LAPAROSCOPIC INCISIONAL HERNIA REPAIR WITH GRAFT OR PROSTHESIS	0.313	0.129	2.42	1.37	*	*	*	*
LAPAROSCOPIC REPAIR OF DIRECT INGUINAL HERNIA WITH GRAFT OR PROSTHESIS	*	*	*	*	-0.733	0.350	-2.10	0.48
LAPAROSCOPIC REPAIR OF INGUINAL HERNIA WITH GRAFT OR PROSTHESIS, NOT OTHERWISE SPECIFIED	*	*	*	*	-0.598	0.283	-2.11	0.55
MALNUTRITION	0.406	0.030	13.74	1.50	0.475	0.023	20.34	1.61
MULTIPLE SEGMENTAL RESECTION OF SMALL INTESTINE	0.875	0.106	8.26	2.40	0.695	0.096	7.22	2.00
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.542	0.138	3.93	1.72	0.454	0.109	4.15	1.58
OBESITY HYPOVENTILATION SYNDROME	0.645	0.168	3.83	1.91	0.525	0.141	3.71	1.69

Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OPEN AND OTHER CECECTOMY	0.598	0.107	5.58	1.82	0.498	0.093	5.33	1.65
OPEN AND OTHER LEFT HEMICOLECTOMY	0.855	0.111	7.72	2.35	0.594	0.100	5.94	1.81
OPEN AND OTHER RESECTION OF TRANSVERSE COLON	0.478	0.142	3.37	1.61	0.531	0.126	4.22	1.70
OPEN AND OTHER RIGHT HEMICOLECTOMY	0.738	0.060	12.30	2.09	0.543	0.052	10.39	1.72
OPEN AND OTHER SIGMOIDECTOMY	0.569	0.071	7.97	1.77	0.380	0.061	6.27	1.46
OTHER AND OPEN REPAIR OF INDIRECT INGUINAL HERNIA WITH GRAFT OR PROSTHESIS	-0.376	0.140	-2.70	0.69	-0.438	0.104	-4.20	0.65
OTHER AND UNSPECIFIED PARTIAL EXCISION OF LARGE INTESTINE	0.945	0.109	8.70	2.57	0.714	0.100	7.16	2.04
OTHER EMPHYSEMA	*	*	*	*	0.197	0.072	2.74	1.22
OTHER ENDOSCOPY OF SMALL INTESTINE	0.334	0.063	5.32	1.40	0.277	0.050	5.59	1.32
OTHER ENTEROSTOMY	1.000	0.120	8.36	2.72	0.839	0.109	7.68	2.31
OTHER GASTROENTEROSTOMY WITHOUT GASTRECTOMY	0.943	0.183	5.14	2.57	0.650	0.166	3.91	1.92
OTHER IMPACTION OF INTESTINE	*	*	*	*	0.291	0.100	2.90	1.34
OTHER INCISION OF SMALL INTESTINE	0.532	0.103	5.18	1.70	0.479	0.087	5.51	1.61
OTHER LYSIS OF PERITONEAL ADHESIONS	0.541	0.027	20.39	1.72	0.231	0.023	10.30	1.26
OTHER OPEN INCISIONAL HERNIA REPAIR WITH GRAFT OR PROSTHESIS	0.187	0.061	3.07	1.21	*	*	*	*
OTHER PARTIAL RESECTION OF SMALL INTESTINE	0.824	0.031	26.73	2.28	0.562	0.027	20.95	1.76
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.328	0.079	4.17	1.39
OTHER REPAIR OF INTESTINE	0.510	0.129	3.96	1.67	0.292	0.119	2.46	1.34
OTHER SPECIFIED INTESTINAL OBSTRUCTION	0.182	0.040	4.59	1.20	0.235	0.030	7.88	1.26
OTHER/UNSPEC PERIPH VASC DISEASE	0.201	0.041	4.95	1.22	0.210	0.031	6.79	1.23
OTHER VENTRAL HERNIA WITH OBSTRUCTION	0.224	0.087	2.57	1.25	*	*	*	*
Palliative Care Risk Ragrdless of POA	3.899	0.031	124.80	49.34	3.682	0.031	117.52	39.73
PARALYSIS AGITANS	0.199	0.067	2.98	1.22	0.226	0.050	4.54	1.25
PARALYTIC ILEUS	*	*	*	*	0.223	0.022	10.29	1.25
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.245	0.109	2.26	1.28	*	*	*	*
PATHOLOGIC FRACTURE OF VERTEBRAE	0.268	0.124	2.17	1.31	0.252	0.092	2.73	1.29
PERFORATION OF INTESTINE	0.644	0.066	9.82	1.90	0.579	0.060	9.67	1.79
POSTINFLAMMATORY PULMONARY FIBROSIS	0.531	0.079	6.68	1.70	0.464	0.063	7.43	1.59
PULMONARY HYPERTENSION	0.273	0.046	6.00	1.32	0.211	0.036	5.81	1.24
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.331	0.096	3.47	1.39
SEPSIS	0.774	0.088	8.83	2.17	0.734	0.073	10.01	2.08
SEPTIC SHOCK	0.486	0.155	3.12	1.63	0.395	0.145	2.72	1.49
SEVERE SEPSIS	0.521	0.141	3.70	1.68	0.431	0.126	3.43	1.54
SUTURE OF LACERATION OF LARGE INTESTINE	0.750	0.149	5.05	2.12	0.495	0.140	3.54	1.64
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM	0.702	0.065	10.88	2.02	0.515	0.060	8.64	1.67
TACHYCARDIA, UNSPECIFIED	0.320	0.097	3.29	1.38	0.421	0.072	5.84	1.52
THROMBOCYTOPENIA, UNSPECIFIED	0.199	0.056	3.54	1.22	0.152	0.044	3.45	1.16

Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
UNILATERAL OR UNSPECIFIED INGUINAL HERNIA, WITH OBSTRUCTION, WITHOUT MENTION OF GANGRENE (NOT SPECIFIED AS RECURRENT)	*	*	*	*	0.161	0.045	3.59	1.18
UNILATERAL REPAIR OF INGUINAL HERNIA WITH GRAFT OR PROSTHESIS, NOT OTHERWISE SPECIFIED	*	*	*	*	-0.151	0.075	-2.01	0.86
UNSPECIFIED PLEURAL EFFUSION	0.508	0.056	9.04	1.66	0.587	0.043	13.65	1.80
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.494	0.049	10.17	1.64	0.350	0.043	8.07	1.42
UNSPECIFIED VENTRAL HERNIA WITH OBSTRUCTION	0.163	0.066	2.46	1.18	*	*	*	*
VOLVULUS	0.213	0.043	5.02	1.24	0.216	0.037	5.92	1.24

Chronic Obstructive Pulmonary Disease (COPD)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.332	0.048	6.87	1.39	0.279	0.029	9.52	1.32
AdmitSourceXferNonHospital	0.353	0.088	4.02	1.42	0.381	0.049	7.78	1.46
AdmitSourceXferSkilledNursing	0.291	0.045	6.41	1.34	0.548	0.024	22.61	1.73
Age70To74	0.290	0.031	9.33	1.34	0.261	0.018	14.81	1.30
Age75To79	0.410	0.031	13.24	1.51	0.443	0.017	25.48	1.56
Age80To84	0.496	0.032	15.75	1.64	0.597	0.018	33.99	1.82
Age85To89	0.511	0.034	15.07	1.67	0.735	0.019	39.48	2.09
Age90AndOver	0.514	0.040	12.96	1.67	0.902	0.021	42.52	2.47
PrimaryFacilityPresentOnAdmissionKnownPercent	0.226	0.078	2.91	1.25	*	*	*	*
SexFemale	-0.144	0.018	-7.89	0.87	-0.270	0.010	-26.38	0.76
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	*	*	*	*	0.115	0.033	3.51	1.12
ACIDOSIS	0.733	0.033	22.21	2.08	0.474	0.022	21.51	1.61
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.741	0.026	28.43	2.10	0.497	0.016	30.85	1.64
ACUTE COR PULMONALE	0.584	0.172	3.40	1.79	0.605	0.100	6.07	1.83
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	1.097	0.060	18.17	3.00	0.713	0.043	16.55	2.04
ACUTE RENAL FAILURE	0.455	0.026	17.53	1.58	0.199	0.016	12.47	1.22
ACUTE RESPIRATORY FAILURE	1.135	0.026	43.11	3.11	0.591	0.018	33.27	1.81
ADULT FAILURE TO THRIVE	0.360	0.056	6.48	1.43	0.583	0.032	18.47	1.79
ALKALOSIS	*	*	*	*	0.131	0.045	2.92	1.14
ALZHEIMER'S DISEASE	*	*	*	*	0.163	0.030	5.39	1.18
ANEMIA OF OTHER CHRONIC DISEASE	*	*	*	*	0.103	0.024	4.33	1.11
ANEMIA, UNSPECIFIED	0.102	0.025	4.05	1.11	0.178	0.014	12.86	1.20
ANXIETY STATE, UNSPECIFIED	*	*	*	*	0.109	0.014	8.05	1.12
AORTIC VALVE DISORDERS	*	*	*	*	0.065	0.026	2.51	1.07
ATRIAL FIBRILLATION	0.358	0.020	17.88	1.43	0.281	0.011	25.23	1.33
ATRIAL FLUTTER	0.442	0.054	8.22	1.56	0.227	0.034	6.75	1.26
BACTERIAL PNEUMONIA	0.351	0.021	16.87	1.42	0.135	0.012	11.27	1.14
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.177	0.029	6.15	1.19
CACHEXIA	0.545	0.048	11.43	1.73	0.476	0.031	15.59	1.61
CANDIDIASIS OF MOUTH	0.152	0.070	2.18	1.16	0.297	0.038	7.91	1.35
CARDIOMYOPATHY	0.311	0.037	8.41	1.36	0.112	0.022	5.04	1.12
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	1.176	0.051	23.15	3.24	0.923	0.031	29.43	2.52
CHRONIC ISCHEMIC HEART DISEASE	0.136	0.044	3.10	1.15	0.084	0.025	3.34	1.09
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.223	0.030	7.36	1.25
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.164	0.030	5.49	1.18	0.152	0.017	9.10	1.17
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.546	0.104	5.28	1.73	0.493	0.061	8.04	1.64
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.218	0.020	11.18	1.24	0.271	0.011	25.18	1.31
DEBILITY, UNSPECIFIED	*	*	*	*	0.134	0.024	5.64	1.14
DECUBITIS ULCER	0.658	0.049	13.53	1.93	0.854	0.027	31.13	2.35
DEHYDRATION	0.146	0.035	4.23	1.16	0.168	0.019	8.73	1.18
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.109	0.011	9.58	1.12

Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DO NOT RESUSCITATE STATUS	0.825	0.023	35.28	2.28	0.722	0.014	51.32	2.06
DYSPHAGIA	*	*	*	*	0.235	0.025	9.37	1.27
EDEMA	*	*	*	*	0.136	0.031	4.34	1.15
EMPHYSEMATOUS BLEB	0.662	0.099	6.68	1.94	0.493	0.061	8.07	1.64
ENCEPHALOPATHY	0.330	0.055	6.06	1.39	0.365	0.034	10.68	1.44
END STAGE RENAL DISEASE	0.757	0.122	6.22	2.13	0.681	0.076	9.02	1.98
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.789	0.090	8.76	2.20	0.691	0.057	12.14	2.00
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.667	0.065	10.31	1.95	0.661	0.041	16.13	1.94
HYPERPOTASSEMIA	0.451	0.036	12.63	1.57	0.377	0.022	17.23	1.46
HYOSMOLALITY AND/OR HYPONATREMIA	0.243	0.030	8.12	1.28	0.191	0.017	11.17	1.21
HYPOTENSION, UNSP OR NEC	0.469	0.047	10.00	1.60	0.316	0.030	10.69	1.37
INTERMEDIATE CORONARY SYNDROME	0.437	0.127	3.43	1.55	*	*	*	*
LONG-TERM (CURRENT) USE OF STEROIDS	*	*	*	*	0.168	0.018	9.10	1.18
LOSS OF WEIGHT	*	*	*	*	0.079	0.039	2.00	1.08
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.640	0.053	12.01	1.90	1.104	0.027	40.34	3.02
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG	*	*	*	*	0.746	0.060	12.34	2.11
MALNUTRITION	0.595	0.033	18.07	1.81	0.602	0.021	29.11	1.83
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	*	*	*	*	0.241	0.055	4.36	1.27
METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	*	*	*	*	0.229	0.104	2.19	1.26
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.320	0.124	2.58	1.38	0.287	0.077	3.73	1.33
OBSTRUCTIVE CHRONIC BRONCHITIS, WITH (ACUTE) EXACERBATION	0.325	0.021	15.31	1.39	0.425	0.012	36.41	1.53
OSTEOPOROSIS, UNSPECIFIED	*	*	*	*	0.046	0.018	2.58	1.05
OTHER CONVULSIONS	0.467	0.130	3.60	1.60	0.233	0.081	2.88	1.26
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY	*	*	*	*	0.185	0.047	3.93	1.20
OTHER EMPHYSEMA	0.517	0.087	5.98	1.68	0.352	0.053	6.67	1.42
OTHER MALAISE AND FATIGUE	*	*	*	*	0.152	0.026	5.76	1.16
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.327	0.053	6.15	1.39
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	*	*	*	*	0.221	0.092	2.41	1.25
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS	0.240	0.038	6.28	1.27	0.155	0.022	6.92	1.17
Palliative Care Risk Ragrdless of POA	3.891	0.025	157.17	48.97	2.969	0.023	131.44	19.48
PARALYSIS AGITANS	*	*	*	*	0.080	0.040	2.01	1.08
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA	*	*	*	*	0.237	0.064	3.72	1.27
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.221	0.078	2.82	1.25	0.134	0.047	2.84	1.14
PATHOLOGIC FRACTURE OF VERTEBRAE	0.347	0.090	3.88	1.42	0.553	0.048	11.63	1.74
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG	*	*	*	*	0.194	0.026	7.43	1.22

Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	1.139	0.070	16.29	3.12	0.730	0.050	14.72	2.08
POSTINFLAMMATORY PULMONARY FIBROSIS	0.274	0.040	6.85	1.32	0.322	0.022	14.89	1.38
PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	*	*	*	*	0.124	0.053	2.36	1.13
PULMONARY HYPERTENSION	0.244	0.025	9.73	1.28	0.218	0.015	15.05	1.24
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.354	0.064	5.50	1.42
SEPSIS	1.414	0.080	17.75	4.11	0.866	0.064	13.60	2.38
STATUS ASTHMATICUS	0.555	0.148	3.76	1.74	*	*	*	*
TACHYCARDIA, UNSPECIFIED	0.141	0.062	2.27	1.15	0.177	0.035	5.07	1.19
THROMBOCYTOPENIA, UNSPECIFIED	0.331	0.044	7.49	1.39	0.221	0.026	8.43	1.25
UNSPECIFIED DISORDER OF KIDNEY AND URETER	*	*	*	*	0.092	0.030	3.08	1.10
UNSPECIFIED PLEURAL EFFUSION	0.393	0.046	8.50	1.48	0.446	0.027	16.75	1.56
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.083	0.034	2.48	1.09	0.145	0.019	7.80	1.16

Colorectal Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.158	0.039	4.01	1.17	0.176	0.036	4.95	1.19
AdmitSourceXferNonHospital	*	*	*	*	0.205	0.077	2.67	1.23
AdmitSourceXferSkilledNursing	0.212	0.054	3.95	1.24	0.481	0.046	10.54	1.62
Age70To74	0.341	0.035	9.90	1.41	0.399	0.031	12.99	1.49
Age75To79	0.545	0.034	16.09	1.73	0.662	0.030	22.01	1.94
Age80To84	0.833	0.034	24.62	2.30	1.000	0.030	33.36	2.72
Age85To89	1.040	0.036	29.10	2.83	1.268	0.032	40.29	3.55
Age90AndOver	1.217	0.042	28.92	3.38	1.607	0.036	44.58	4.99
PrimaryFacilityPresentOnAdmissionKnownPercent	1.145	0.122	9.42	3.14	1.031	0.102	10.07	2.80
SexFemale	-0.170	0.020	-8.57	0.84	-0.186	0.017	-10.79	0.83
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	*	*	*	*	0.189	0.058	3.29	1.21
ACIDOSIS	0.619	0.032	19.37	1.86	0.559	0.030	18.61	1.75
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.489	0.082	5.97	1.63	0.488	0.077	6.31	1.63
ACUTE AND SUBACUTE NECROSIS OF LIVER	0.922	0.095	9.69	2.51	0.923	0.097	9.50	2.52
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS	0.377	0.097	3.89	1.46	0.399	0.087	4.61	1.49
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.304	0.100	3.04	1.36	0.280	0.094	2.98	1.32
ACUTE PANCREATITIS	0.376	0.136	2.77	1.46	*	*	*	*
ACUTE RENAL FAILURE	0.179	0.028	6.52	1.20	0.230	0.025	9.38	1.26
ACUTE RESPIRATORY FAILURE	0.535	0.045	12.02	1.71	0.511	0.043	11.83	1.67
ACUTE SYSTOLIC HEART FAILURE	*	*	*	*	0.286	0.084	3.41	1.33
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	0.718	0.033	21.57	2.05	0.673	0.031	21.65	1.96
ADULT FAILURE TO THRIVE	*	*	*	*	0.220	0.071	3.09	1.25
ALCOHOLIC CIRRHOSIS OF LIVER	0.894	0.137	6.52	2.45	1.044	0.124	8.45	2.84
ALZHEIMER'S DISEASE	*	*	*	*	0.271	0.050	5.46	1.31
Anal-Rectal Procedures	-1.420	0.105	-13.52	0.24	-0.918	0.060	-15.32	0.40
ANGIODYSPLASIA OF INTESTINE WITH HEMORRHAGE	0.425	0.140	3.04	1.53	0.334	0.124	2.68	1.40
ASTHMA WITH ACUTE EXACERBATION	0.850	0.134	6.36	2.34	0.707	0.125	5.64	2.03
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.532	0.113	4.69	1.70	0.538	0.101	5.35	1.71
ATRIAL FIBRILLATION	0.252	0.023	10.99	1.29	0.275	0.020	13.85	1.32
BACTERIAL PNEUMONIA	0.418	0.046	9.02	1.52	0.428	0.042	10.16	1.54
BODY MASS INDEX 40 AND OVER	0.172	0.044	3.92	1.19	0.169	0.039	4.35	1.19
BODY MASS INDEX LESS THAN 19, ADULT	0.228	0.061	3.73	1.26	0.325	0.052	6.21	1.38
CACHEXIA	0.319	0.080	3.98	1.38	0.497	0.069	7.17	1.64
CARDIOMYOPATHY	0.239	0.045	5.31	1.27	0.249	0.040	6.28	1.28
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.347	0.025	13.65	1.42	0.385	0.022	17.45	1.47
CHRONIC BRONCHITIS	0.779	0.053	14.74	2.18	0.806	0.047	17.04	2.24
CHRONIC ISCHEMIC HEART DISEASE	0.233	0.055	4.22	1.26	0.207	0.048	4.28	1.23
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.178	0.037	4.86	1.20	0.174	0.032	5.46	1.19
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.397	0.060	6.66	1.49	0.520	0.051	10.12	1.68

Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.324	0.035	9.28	1.38	0.309	0.031	10.12	1.36
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE	0.471	0.093	5.09	1.60	0.377	0.087	4.35	1.46
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.850	0.077	10.98	2.34	0.967	0.067	14.48	2.63
Colon Resection and Anostomosis - High Mortality	0.613	0.049	12.54	1.85	0.406	0.027	15.15	1.50
Colon Resection and Anostomosis - Low Mortality	-0.839	0.054	-15.42	0.43	-0.918	0.031	-30.06	0.40
Colon Resection and Anostomosis - Moderate Mortality	0.197	0.043	4.64	1.22	*	*	*	*
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.304	0.026	11.51	1.36	0.324	0.023	14.01	1.38
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.128	0.034	3.81	1.14	0.146	0.029	5.05	1.16
DECUBITIS ULCER	0.180	0.051	3.55	1.20	0.369	0.042	8.71	1.45
DEFIBRATION SYNDROME	1.181	0.112	10.57	3.26	1.252	0.115	10.88	3.50
DEHYDRATION	0.207	0.034	6.04	1.23	0.183	0.030	6.01	1.20
DIAB W UNSPECIFIED MANIFESTATIONS	*	*	*	*	0.194	0.089	2.18	1.21
DIVERTICULITIS OF COLON WITH HEMORRHAGE	0.291	0.104	2.80	1.34	0.204	0.093	2.19	1.23
DIVERTICULOSIS OF COLON WITH HEMORRHAGE	0.419	0.060	7.00	1.52	0.312	0.053	5.89	1.37
ENCEPHALOPATHY	*	*	*	*	0.150	0.049	3.03	1.16
END STAGE RENAL DISEASE	1.204	0.052	23.18	3.33	1.048	0.098	10.70	2.85
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY	0.184	0.072	2.57	1.20	0.213	0.062	3.44	1.24
Exteriorization of Small Intestine	0.144	0.067	2.16	1.16	0.132	0.059	2.23	1.14
FECAL IMPACTION	0.368	0.076	4.85	1.45	0.276	0.069	4.01	1.32
GLUCOCORTICOID DEFICIENCY	0.357	0.099	3.60	1.43	0.369	0.091	4.04	1.45
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.310	0.058	5.39	1.36	0.308	0.049	6.28	1.36
HYPERPOTASSEMIA	0.369	0.050	7.35	1.45	0.302	0.046	6.51	1.35
HYPOTENSION, UNSP OR NEC	0.118	0.058	2.03	1.13	0.137	0.051	2.69	1.15
Ileostomies	0.181	0.048	3.76	1.20	0.198	0.045	4.41	1.22
Incisions of Small Intestine	0.450	0.173	2.60	1.57	0.427	0.157	2.73	1.53
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION)	0.169	0.054	3.11	1.18	0.124	0.049	2.55	1.13
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE	-0.412	0.137	-3.01	0.66	-0.354	0.107	-3.30	0.70
LARGE-TO-LARGE INTESTINAL ANASTOMOSIS	-0.407	0.185	-2.20	0.67	-0.680	0.158	-4.32	0.51
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.272	0.079	3.44	1.31	0.334	0.068	4.95	1.40
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	*	*	*	*	0.704	0.109	6.45	2.02
MALNUTRITION	*	*	*	*	0.137	0.023	5.90	1.15
MEGACOLON, OTHER THAN HIRSCHSPRUNG'S	0.338	0.100	3.37	1.40	0.283	0.091	3.11	1.33
NON-MALIGNANT RENAL DISEASE WITH FAILURE	*	*	*	*	0.274	0.101	2.72	1.32
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, CONTINUOUS	0.492	0.168	2.93	1.64	0.448	0.151	2.97	1.57

Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED	0.397	0.123	3.23	1.49	0.313	0.111	2.83	1.37
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.727	0.080	9.05	2.07	0.661	0.077	8.62	1.94
OTHER ASCITES	0.306	0.047	6.52	1.36	0.319	0.043	7.39	1.38
Other Colon Procedures - High Mortality	0.400	0.095	4.24	1.49	*	*	*	*
Other Colon Procedures - Low Mortality	0.217	0.098	2.21	1.24	*	*	*	*
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM	*	*	*	*	0.248	0.057	4.36	1.28
OTHER EMPHYSEMA	0.507	0.077	6.59	1.66	0.441	0.069	6.42	1.55
Other Enterostomies	0.423	0.095	4.44	1.53	0.484	0.089	5.44	1.62
OTHER LAPAROTOMY	0.621	0.071	8.74	1.86	0.577	0.065	8.88	1.78
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.204	0.100	2.04	1.23
Other Rectal Procedures	-1.532	0.116	-13.25	0.22	-1.049	0.068	-15.50	0.35
OTHER SMALL-TO-LARGE INTESTINAL ANASTOMOSIS	-0.156	0.036	-4.30	0.86	-0.151	0.031	-4.82	0.86
OTHER SPECIFIED DISORDERS OF PERITONEUM	0.159	0.059	2.68	1.17	0.170	0.054	3.18	1.19
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM	0.434	0.197	2.21	1.54	0.336	0.171	1.96	1.40
OTHER SPECIFIED INTESTINAL OBSTRUCTION	0.119	0.041	2.90	1.13	0.082	0.036	2.29	1.09
OTHER SPECIFIED PERITONITIS	0.279	0.058	4.80	1.32	0.328	0.054	6.05	1.39
OTHER/UNSPEC PERIPH VASC DISEASE	0.164	0.039	4.18	1.18	0.188	0.034	5.53	1.21
Palliative Care Risk Ragrdless of POA	3.045	0.031	98.23	21.00	3.678	0.036	103.49	39.55
PARALYSIS AGITANS	*	*	*	*	0.205	0.063	3.28	1.23
PATHOLOGIC FRACTURE OF VERTEBRAE	0.574	0.135	4.26	1.78	0.612	0.120	5.09	1.84
PERFORATION OF INTESTINE	0.591	0.031	19.10	1.81	0.601	0.028	21.18	1.82
POSTINFLAMMATORY PULMONARY FIBROSIS	0.417	0.084	4.95	1.52	0.443	0.074	6.03	1.56
PULMONARY HYPERTENSION	0.123	0.045	2.72	1.13	0.139	0.039	3.55	1.15
Rectal Resection and Anostomosis	-0.436	0.061	-7.17	0.65	-0.590	0.039	-15.21	0.55
Resection or Removal of Small Intestine	0.619	0.037	16.84	1.86	0.566	0.034	16.65	1.76
SEPSIS	0.517	0.038	13.52	1.68	0.657	0.029	22.54	1.93
SEPTIC SHOCK	0.324	0.045	7.22	1.38	0.513	0.037	13.98	1.67
SEVERE SEPSIS	0.484	0.048	10.10	1.62	*	*	*	*
Stoma - Low Mortality	-0.759	0.091	-8.34	0.47	-0.935	0.069	-13.59	0.39
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM	0.620	0.085	7.30	1.86	0.396	0.081	4.89	1.49
THROMBOCYTOPENIA, UNSPECIFIED	0.333	0.046	7.18	1.40	0.424	0.041	10.36	1.53
ULCERATIVE COLITIS, UNSPECIFIED	0.183	0.072	2.53	1.20	*	*	*	*
UNSPECIFIED INTESTINAL OBSTRUCTION	0.286	0.040	7.17	1.33	0.248	0.035	7.04	1.28
UNSPECIFIED PERITONITIS	0.193	0.040	4.87	1.21	0.273	0.036	7.58	1.31
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.590	0.037	15.90	1.80	0.574	0.034	16.81	1.78
UNSPECIFIED VENTRAL HERNIA WITH OBSTRUCTION	0.325	0.144	2.25	1.38	*	*	*	*
URINARY TRACT INFECTION, SITE NOT SPECIFIED	*	*	*	*	0.082	0.028	2.93	1.09
VOLVULUS	0.136	0.042	3.26	1.15	0.215	0.036	6.05	1.24

Coronary Artery Bypass Graft (CABG) Surgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.097	0.038	2.56	1.10	*	*	*	*
Age70To74	0.377	0.047	7.95	1.46	0.370	0.041	9.03	1.45
Age75To79	0.677	0.047	14.33	1.97	0.641	0.041	15.61	1.90
Age80To84	0.970	0.050	19.27	2.64	0.974	0.044	22.31	2.65
Age85To89	1.306	0.063	20.65	3.69	1.311	0.055	23.71	3.71
Age90AndOver	1.369	0.150	9.11	3.93	1.417	0.131	10.85	4.13
PrimaryFacilityPresentOnAdmissionKnownPercent	0.438	0.217	2.02	1.55	0.424	0.190	2.24	1.53
SexFemale	0.353	0.032	11.02	1.42	0.292	0.028	10.39	1.34
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.302	0.098	3.10	1.35	0.200	0.087	2.30	1.22
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.289	0.037	7.92	1.34	0.256	0.031	8.24	1.29
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE	0.252	0.122	2.07	1.29	0.217	0.105	2.07	1.24
ACUTE RENAL FAILURE	0.376	0.056	6.74	1.46	0.276	0.051	5.42	1.32
ACUTE RESPIRATORY FAILURE	*	*	*	*	0.175	0.066	2.64	1.19
ALZHEIMER'S DISEASE	0.710	0.173	4.12	2.03	0.661	0.154	4.28	1.94
ANTERIOR/LATERAL WALL AMI	0.561	0.057	9.77	1.75	0.542	0.052	10.47	1.72
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.430	0.100	4.32	1.54	0.411	0.088	4.67	1.51
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION	0.595	0.129	4.62	1.81	0.605	0.111	5.48	1.83
ATHEROSCLEROSIS OF RENAL ARTERY	0.406	0.119	3.42	1.50	0.367	0.105	3.49	1.44
ATRIAL FIBRILLATION	0.092	0.041	2.24	1.10	0.152	0.035	4.31	1.16
ATRIOVENTRICULAR BLOCK, COMPLETE	0.382	0.146	2.61	1.47	*	*	*	*
BODY MASS INDEX 40 AND OVER	0.358	0.057	6.27	1.43	0.420	0.049	8.63	1.52
CARDIAC ARREST	0.607	0.125	4.86	1.84	0.530	0.118	4.49	1.70
CARDIOGENIC SHOCK	0.511	0.061	8.35	1.67	0.504	0.059	8.57	1.66
CARDIOMYOPATHY	*	*	*	*	0.128	0.056	2.29	1.14
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.243	0.042	5.83	1.28	0.276	0.036	7.67	1.32
CHRONIC BRONCHITIS	0.437	0.091	4.80	1.55	0.492	0.078	6.29	1.64
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.139	0.051	2.71	1.15	0.156	0.045	3.52	1.17
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.506	0.091	5.56	1.66	0.554	0.080	6.97	1.74
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.206	0.055	3.76	1.23	0.258	0.047	5.49	1.30
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.196	0.036	5.51	1.22	0.214	0.032	6.79	1.24
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT	0.563	0.082	6.89	1.76	0.433	0.076	5.70	1.54
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.437	0.111	3.92	1.55	0.444	0.096	4.64	1.56
DISEASES OF TRICUSPID VALVE	0.194	0.079	2.46	1.21	0.153	0.070	2.17	1.17
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	-0.582	0.115	-5.08	0.56	-0.541	0.099	-5.47	0.58
END STAGE RENAL DISEASE	1.198	0.155	7.75	3.31	1.213	0.136	8.89	3.36

Coronary Artery Bypass Graft (CABG) Surgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH	0.439	0.122	3.59	1.55	0.374	0.106	3.52	1.45
HEART FAILURE, UNSPECIFIED	0.827	0.298	2.78	2.29	0.761	0.269	2.83	2.14
IMPLANT OF PULSATION BALLOON	1.721	0.035	48.62	5.59	1.473	0.032	46.00	4.36
INFERIOR WALL AMI	0.454	0.080	5.69	1.57	0.448	0.072	6.21	1.57
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.423	0.139	3.05	1.53
MALNUTRITION	0.470	0.080	5.91	1.60	0.538	0.070	7.73	1.71
NON-MALIG HYPERTEN & REN WITH CHF	0.518	0.132	3.92	1.68	0.420	0.121	3.48	1.52
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.372	0.159	2.34	1.45	0.345	0.140	2.46	1.41
OBESITY HYPOVENTILATION SYNDROME	0.736	0.198	3.72	2.09	0.746	0.170	4.38	2.11
OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION	0.273	0.095	2.89	1.31	*	*	*	*
OTHER EMPHYSEMA	0.404	0.121	3.34	1.50	0.418	0.104	4.03	1.52
OTHER/UNSPEC PERIPH VASC DISEASE	0.315	0.045	7.01	1.37	0.295	0.039	7.52	1.34
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA]	0.245	0.066	3.74	1.28	0.268	0.060	4.51	1.31
PULMONARY HYPERTENSION	0.303	0.058	5.24	1.35	0.302	0.051	5.92	1.35
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	-0.615	0.043	-14.35	0.54	-0.566	0.038	-14.72	0.57
UNSPECIFIED DISEASE OF PERICARDIUM	0.301	0.148	2.03	1.35	0.295	0.131	2.25	1.34

Coronary Interventional Procedures

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.113	0.023	4.92	1.12	0.085	0.018	4.63	1.09
AdmitSourceXferSkilledNursing	0.409	0.082	5.01	1.51	0.524	0.064	8.23	1.69
Age70To74	0.349	0.031	11.37	1.42	0.332	0.025	13.44	1.39
Age75To79	0.608	0.031	19.87	1.84	0.611	0.025	24.98	1.84
Age80To84	0.867	0.031	28.08	2.38	0.856	0.025	34.58	2.35
Age85To89	1.177	0.033	35.98	3.24	1.226	0.026	47.11	3.41
Age90AndOver	1.495	0.040	37.26	4.46	1.607	0.032	50.66	4.99
PrimaryFacilityPresentOnAdmissionKnownPercent	0.783	0.129	6.06	2.19	0.739	0.103	7.15	2.09
SexFemale	0.222	0.018	12.11	1.25	0.117	0.015	8.04	1.12
ACIDOSIS	0.965	0.032	29.79	2.62	0.874	0.029	30.36	2.40
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.485	0.026	18.81	1.62	0.471	0.019	24.78	1.60
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE	0.381	0.089	4.31	1.46	0.387	0.067	5.78	1.47
ACUTE RENAL FAILURE	0.428	0.026	16.29	1.53	0.371	0.022	16.96	1.45
ACUTE RESPIRATORY FAILURE	0.688	0.028	24.64	1.99	0.586	0.024	24.22	1.80
ALZHEIMER'S DISEASE	0.279	0.072	3.86	1.32	0.527	0.055	9.67	1.69
ANTERIOR/LATERAL WALL AMI	1.508	0.026	58.13	4.52	1.380	0.020	67.63	3.97
AORTIC VALVE DISORDERS	0.175	0.038	4.64	1.19	0.238	0.028	8.38	1.27
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.414	0.064	6.48	1.51	0.334	0.051	6.52	1.40
ATRIAL FIBRILLATION	0.112	0.022	5.12	1.12	0.190	0.017	11.14	1.21
ATRIOVENTRICULAR BLOCK, COMPLETE	0.270	0.053	5.08	1.31	0.230	0.048	4.83	1.26
BACTERIAL PNEUMONIA	0.274	0.039	7.04	1.32	0.309	0.031	10.04	1.36
BODY MASS INDEX 40 AND OVER	0.126	0.045	2.78	1.14	0.118	0.036	3.32	1.13
CARDIAC ARREST	1.256	0.036	34.53	3.51	1.134	0.034	33.67	3.11
CARDIOGENIC SHOCK	0.860	0.028	31.10	2.36	0.802	0.025	32.15	2.23
CARDIOMYOPATHY	*	*	*	*	0.152	0.028	5.48	1.16
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.250	0.026	9.81	1.28	0.317	0.020	16.04	1.37
CHRONIC BRONCHITIS	0.273	0.048	5.68	1.31	0.445	0.035	12.66	1.56
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	*	*	*	*	0.083	0.025	3.33	1.09
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.392	0.051	7.65	1.48	0.459	0.040	11.48	1.58
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.284	0.029	9.64	1.33	0.281	0.024	11.91	1.33
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY	0.168	0.024	7.16	1.18	0.200	0.019	10.59	1.22
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.096	0.020	4.74	1.10	0.296	0.016	18.48	1.35
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.141	0.042	3.36	1.15	0.076	0.033	2.30	1.08
DEHYDRATION	0.219	0.060	3.63	1.25	0.216	0.047	4.55	1.24
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.055	0.020	2.69	1.06	0.067	0.016	4.21	1.07

Coronary Interventional Procedures (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED	*	*	*	*	0.382	0.155	2.46	1.47
DIAB W NEUROVASCULAR MANIFESTATIONS	0.113	0.051	2.23	1.12	0.152	0.039	3.91	1.16
DISSECTION OF CORONARY ARTERY	0.518	0.118	4.40	1.68	0.461	0.100	4.60	1.59
END STAGE RENAL DISEASE	0.946	0.089	10.59	2.58	1.067	0.069	15.37	2.91
HEART FAILURE, UNSPECIFIED	0.678	0.173	3.92	1.97	0.755	0.144	5.25	2.13
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.411	0.083	4.93	1.51	0.507	0.070	7.28	1.66
HYPERPOTASSEMIA	0.409	0.045	9.17	1.51	0.350	0.037	9.44	1.42
HYPOTENSION, UNSP OR NEC	0.337	0.044	7.68	1.40	0.356	0.035	10.06	1.43
HYPOTHERMIA (CENTRAL) (LOCAL)	1.487	0.086	17.39	4.42	1.417	0.083	17.11	4.13
IMPLANT OF PULSATION BALLOON	1.910	0.024	78.80	6.75	1.620	0.022	74.00	5.05
INFERIOR WALL AMI	1.133	0.030	38.24	3.10	0.970	0.024	40.38	2.64
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S)	-0.717	0.036	-20.18	0.49	-0.628	0.031	-20.20	0.53
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S)	-0.117	0.037	-3.16	0.89	-0.102	0.032	-3.19	0.90
INSERTION OF ONE VASCULAR STENT	-0.494	0.029	-16.86	0.61	-0.381	0.027	-14.35	0.68
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE	1.932	0.068	28.26	6.90	1.557	0.062	24.96	4.75
INSERTION OF THREE VASCULAR STENTS	-0.301	0.041	-7.31	0.74	-0.205	0.033	-6.17	0.82
INSERTION OF TWO VASCULAR STENTS	-0.404	0.032	-12.56	0.67	-0.282	0.027	-10.65	0.75
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.388	0.088	4.40	1.48	0.506	0.068	7.41	1.66
MALNUTRITION	0.283	0.052	5.41	1.33	0.669	0.040	16.72	1.95
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.418	0.091	4.60	1.52	0.315	0.071	4.44	1.37
OTHER EMPHYSEMA	0.275	0.088	3.11	1.32	0.282	0.070	4.06	1.33
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.295	0.109	2.72	1.34
OTHER SPECIFIED REMOVAL OF CORONARY ARTERY OBSTRUCTION	0.369	0.133	2.78	1.45	0.406	0.112	3.64	1.50
OTHER/UNSPEC PERIPH VASC DISEASE	0.240	0.029	8.33	1.27	0.215	0.022	9.59	1.24
PARALYSIS AGITANS	0.175	0.082	2.12	1.19	0.224	0.063	3.55	1.25
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.106	0.038	2.77	1.11	0.161	0.032	5.06	1.18
POSTINFLAMMATORY PULMONARY FIBROSIS	0.711	0.068	10.41	2.04	0.739	0.052	14.11	2.09
PROCEDURE ON SINGLE VESSEL	*	*	*	*	-0.049	0.019	-2.62	0.95
PULMONARY HYPERTENSION	0.089	0.036	2.52	1.09	0.190	0.027	7.16	1.21
RHEUMATOID ARTHRITIS	*	*	*	*	0.156	0.049	3.17	1.17
RIGHT BUNDLE BRANCH BLOCK	0.150	0.052	2.87	1.16	0.102	0.042	2.40	1.11
SEPTIC SHOCK	1.125	0.076	14.76	3.08	0.952	0.070	13.61	2.59
UNSPECIFIED PLEURAL EFFUSION	0.250	0.067	3.75	1.28	0.400	0.051	7.78	1.49
VENTRICULAR FIBRILLATION	1.023	0.118	8.67	2.78	0.900	0.109	8.29	2.46

Cranial Neurosurgery

(formerly Neurosurgery)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	0.226	0.103	2.21	1.25	0.336	0.082	4.09	1.40
AdmitSourceXferSkilledNursing	*	*	*	*	0.456	0.105	4.35	1.58
Age70To74	0.114	0.051	2.25	1.12	0.190	0.041	4.59	1.21
Age75To79	0.255	0.052	4.92	1.29	0.368	0.042	8.71	1.44
Age80To84	0.320	0.056	5.67	1.38	0.532	0.046	11.70	1.70
Age85To89	0.377	0.067	5.62	1.46	0.743	0.053	14.03	2.10
Age90AndOver	0.601	0.096	6.28	1.82	1.029	0.075	13.66	2.80
PrimaryFacilityPresentOnAdmissionKnownPercent	0.648	0.220	2.95	1.91	*	*	*	*
SexFemale	-0.078	0.036	-2.17	0.93	-0.165	0.029	-5.72	0.85
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.454	0.149	3.05	1.58	*	*	*	*
ACIDOSIS	0.279	0.107	2.60	1.32	*	*	*	*
ACUTE RENAL FAILURE	0.309	0.075	4.12	1.36	0.222	0.064	3.47	1.25
ACUTE RESPIRATORY FAILURE	1.045	0.049	21.56	2.84	0.879	0.044	19.91	2.41
ACUTE SYSTOLIC HEART FAILURE	0.448	0.208	2.15	1.57	0.447	0.181	2.47	1.56
ALTERED MENTAL STATUS	*	*	*	*	0.222	0.096	2.32	1.25
ATRIAL FIBRILLATION	0.289	0.043	6.75	1.34	0.267	0.035	7.63	1.31
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.333	0.126	2.64	1.40
CARDIAC PACEMAKER IN SITU	0.163	0.077	2.12	1.18	0.126	0.062	2.02	1.14
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION	0.475	0.091	5.23	1.61	0.373	0.081	4.60	1.45
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION	0.620	0.111	5.59	1.86	0.609	0.097	6.29	1.84
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.115	0.055	2.11	1.12	0.200	0.043	4.69	1.22
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.645	0.149	4.34	1.91	0.486	0.127	3.81	1.63
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.338	0.073	4.64	1.40	0.294	0.059	4.96	1.34
COMA	1.127	0.082	13.81	3.09	1.105	0.077	14.35	3.02
COMMUNICATING HYDROCEPHALUS	*	*	*	*	0.305	0.129	2.36	1.36
COMPRESSION OF BRAIN	0.234	0.051	4.61	1.26	0.188	0.043	4.41	1.21
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.281	0.053	5.28	1.32	0.285	0.044	6.47	1.33
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.163	0.047	3.50	1.18	0.153	0.037	4.09	1.17
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.236	0.061	3.85	1.27	0.200	0.050	4.04	1.22
DECOMPRESSION OF TRIGEMINAL NERVE ROOT	-3.407	1.000	-3.41	0.03	-2.401	0.454	-5.29	0.09
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.105	0.041	2.55	1.11	0.135	0.033	4.08	1.14
DIAB W NEUROVASCULAR MANIFESTATIONS	*	*	*	*	0.290	0.099	2.93	1.34
ENCEPHALOPATHY	*	*	*	*	0.112	0.047	2.38	1.12
ENDOVASCULAR EMBOLIZATION OR OCCLUSION OF VESSEL(S) OF HEAD OR NECK USING BARE COILS	*	*	*	*	-0.205	0.086	-2.39	0.81
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S)	0.495	0.089	5.59	1.64	0.434	0.079	5.49	1.54
END STAGE RENAL DISEASE	1.172	0.126	9.32	3.23	1.129	0.109	10.33	3.09

Cranial Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
EXCISION OF ACOUSTIC NEUROMA	*	*	*	*	-0.600	0.298	-2.02	0.55
EXCISION OF LESION OR TISSUE OF CEREBRAL MENINGES	-0.217	0.095	-2.29	0.81	-0.322	0.075	-4.30	0.73
FLACCID HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.286	0.143	2.00	1.33
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.452	0.102	4.43	1.57	0.525	0.089	5.92	1.69
HYPOTENSION, UNSP OR NEC	0.418	0.117	3.57	1.52	0.343	0.103	3.32	1.41
IMPLANTATION OF CHEMOTHERAPEUTIC AGENT	*	*	*	*	0.603	0.193	3.12	1.83
IMPLANTATION OR REPLACEMENT OF INTRACRANIAL NEUROSTIMULATOR LEAD(S)	-2.749	0.716	-3.84	0.06	-1.773	0.323	-5.48	0.17
INCISION OF CEREBRAL MENINGES	0.506	0.055	9.26	1.66	0.278	0.047	5.96	1.32
INFARCTION OF A CEREBRAL ARTERY	0.974	0.090	10.86	2.65	0.739	0.081	9.08	2.09
INFUSION OF VASOPRESSOR AGENT	1.223	0.106	11.55	3.40	0.963	0.100	9.63	2.62
INSERTION OF SKULL PLATE	*	*	*	*	-0.247	0.124	-2.00	0.78
INTRACEREBRAL HEMORRHAGE	0.593	0.055	10.75	1.81	0.460	0.048	9.70	1.58
INTRACRANIAL PRESSURE MONITORING	0.651	0.104	6.26	1.92	0.512	0.096	5.32	1.67
INTRACRANIAL VENTRICULAR SHUNT OR ANASTOMOSIS	1.151	0.093	12.36	3.16	0.973	0.081	11.96	2.65
LEUKOCYTOSIS, UNSPECIFIED	*	*	*	*	0.221	0.070	3.17	1.25
MALIGNANT NEOPLASM OF BRAIN, UNSPECIFIED	*	*	*	*	0.591	0.137	4.31	1.81
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	*	*	*	*	0.483	0.082	5.87	1.62
MALIGNANT NEOPLASM OF FRONTAL LOBE	*	*	*	*	0.370	0.090	4.09	1.45
MALIGNANT NEOPLASM OF OTHER PARTS OF BRAIN	*	*	*	*	0.617	0.155	3.99	1.85
MALIGNANT NEOPLASM OF PARIETAL LOBE	*	*	*	*	0.292	0.112	2.60	1.34
MALNUTRITION	*	*	*	*	0.176	0.060	2.93	1.19
OBSTRUCTIVE HYDROCEPHALUS	0.548	0.056	9.80	1.73	0.458	0.048	9.50	1.58
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.642	0.142	4.52	1.90	0.662	0.124	5.35	1.94
OTHER CRANIAL OSTEOPLASTY	-0.366	0.124	-2.95	0.69	-0.336	0.095	-3.52	0.72
OTHER CRANIECTOMY	0.638	0.102	6.26	1.89	0.457	0.090	5.11	1.58
OTHER CRANIOTOMY	0.610	0.072	8.46	1.84	0.398	0.061	6.49	1.49
OTHER ENDOVASCULAR PROCEDURE ON OTHER VESSELS	*	*	*	*	0.473	0.182	2.60	1.61
OTHER EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRAIN	-0.322	0.059	-5.51	0.72	-0.112	0.052	-2.17	0.89
OTHER INCISION OF BRAIN	0.923	0.067	13.74	2.52	0.710	0.059	12.07	2.03
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	*	*	*	*	0.499	0.133	3.74	1.65
OTHER REPAIR OF CEREBRAL MENINGES	0.200	0.077	2.61	1.22	*	*	*	*
OTHER/UNSPEC PERIPH VASC DISEASE	0.247	0.082	3.03	1.28	0.253	0.065	3.89	1.29
Palliative Care Risk Ragrdless of POA	4.150	0.045	92.01	63.44	3.923	0.045	86.60	50.54
PERCUTANEOUS ANGIOPLASTY OF INTRACRANIAL VESSEL(S)	1.755	0.361	4.86	5.78	1.320	0.342	3.86	3.75
PERCUTANEOUS INSERTION OF INTRACRANIAL VASCULAR STENT(S)	-1.237	0.389	-3.18	0.29	-0.927	0.363	-2.56	0.40

Cranial Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PLACEMENT OF INTRACEREBRAL CATHETER(S) VIA BURR HOLE(S)	0.407	0.181	2.25	1.50	0.397	0.147	2.70	1.49
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.207	0.106	1.96	1.23	0.285	0.094	3.02	1.33
REOPENING OF CRANIOTOMY SITE	*	*	*	*	0.247	0.108	2.29	1.28
REPLACEMENT OF VENTRICULAR SHUNT	-0.609	0.176	-3.46	0.54	-0.486	0.130	-3.74	0.62
SECONDARY MALIGNANT NEOPLASM OF BONE AND BONE MARROW	0.690	0.122	5.65	1.99	0.808	0.092	8.78	2.24
SECONDARY MALIGNANT NEOPLASM OF BRAIN AND SPINAL CORD	*	*	*	*	0.289	0.063	4.62	1.34
SECONDARY MALIGNANT NEOPLASM OF OTHER PARTS OF NERVOUS SYSTEM	*	*	*	*	0.762	0.152	5.01	2.14
SIMPLE SUTURE OF DURA MATER OF BRAIN	0.557	0.281	1.98	1.75	*	*	*	*
SUBARACHNOID HEMORRHAGE	1.060	0.057	18.63	2.89	0.757	0.053	14.18	2.13
THROMBOCYTOPENIA, UNSPECIFIED	0.596	0.073	8.19	1.82	0.487	0.061	7.94	1.63
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	0.681	0.074	9.20	1.98	0.562	0.066	8.48	1.75
UNSPECIFIED INTRACRANIAL HEMORRHAGE	0.621	0.129	4.81	1.86	0.658	0.111	5.94	1.93
VENTRICULAR SHUNT TO ABDOMINAL CAVITY AND ORGANS	-1.311	0.097	-13.52	0.27	-0.829	0.068	-12.23	0.44
VENTRICULAR SHUNT TO EXTRACRANIAL SITE NEC	0.927	0.196	4.74	2.53	0.676	0.178	3.80	1.97

Diabetic Emergencies

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.401	0.108	3.72	1.49	0.235	0.069	3.43	1.27
AdmitSourceXferNonHospital	0.611	0.168	3.63	1.84	0.383	0.104	3.67	1.47
AdmitSourceXferSkilledNursing	*	*	*	*	0.483	0.049	9.77	1.62
Age70To74	0.562	0.076	7.38	1.75	0.522	0.045	11.53	1.69
Age75To79	0.647	0.077	8.40	1.91	0.640	0.046	14.06	1.90
Age80To84	0.796	0.079	10.14	2.22	0.891	0.045	19.60	2.44
Age85To89	0.895	0.083	10.80	2.45	1.057	0.048	22.11	2.88
Age90AndOver	0.896	0.099	9.08	2.45	1.395	0.053	26.44	4.04
PrimaryFacilityPresentOnAdmissionKnownPercent	0.649	0.244	2.66	1.91	*	*	*	*
SexFemale	-0.158	0.046	-3.45	0.85	-0.172	0.026	-6.70	0.84
ACIDOSIS	0.435	0.091	4.79	1.55	0.207	0.059	3.48	1.23
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.716	0.211	3.40	2.05	0.656	0.138	4.75	1.93
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.286	0.130	2.21	1.33	0.207	0.090	2.31	1.23
ACUTE RENAL FAILURE	0.191	0.052	3.71	1.21	0.094	0.030	3.16	1.10
ACUTE RESPIRATORY FAILURE	1.081	0.093	11.64	2.95	0.707	0.072	9.85	2.03
ACUTE SYSTOLIC HEART FAILURE	*	*	*	*	0.276	0.085	3.26	1.32
ADULT FAILURE TO THRIVE	0.302	0.117	2.59	1.35	0.600	0.066	9.13	1.82
ALTERED MENTAL STATUS	0.238	0.111	2.15	1.27	0.268	0.062	4.31	1.31
AORTIC VALVE DISORDERS	*	*	*	*	0.199	0.068	2.94	1.22
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE	0.778	0.126	6.20	2.18	0.332	0.079	4.19	1.39
ATRIAL FIBRILLATION	0.217	0.053	4.12	1.24	0.241	0.029	8.20	1.27
BACTERIAL PNEUMONIA	0.453	0.083	5.48	1.57	0.440	0.050	8.81	1.55
BODY MASS INDEX 40 AND OVER	*	*	*	*	0.120	0.053	2.28	1.13
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.233	0.095	2.46	1.26
CACHEXIA	0.587	0.160	3.66	1.80	0.579	0.104	5.58	1.78
CARDIAC ARREST	3.850	0.168	22.93	46.99	2.983	0.159	18.73	19.75
CARDIOMYOPATHY	0.491	0.088	5.59	1.63	0.380	0.052	7.35	1.46
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	*	*	*	*	0.128	0.036	3.60	1.14
CHRONIC BRONCHITIS	*	*	*	*	0.194	0.083	2.34	1.21
CHRONIC ISCHEMIC HEART DISEASE	0.418	0.090	4.67	1.52	0.316	0.053	6.00	1.37
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.218	0.053	4.15	1.24
CHRONIC KIDNEY DISEASE, STAGE V	0.650	0.221	2.94	1.92	0.694	0.127	5.48	2.00
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.168	0.063	2.67	1.18	0.178	0.036	5.01	1.20
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION	1.010	0.233	4.33	2.75	0.423	0.168	2.52	1.53
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.448	0.172	2.61	1.57	0.478	0.102	4.66	1.61
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS	1.310	0.204	6.42	3.71	0.664	0.171	3.87	1.94
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.300	0.051	5.86	1.35	0.302	0.029	10.40	1.35
DECUBITIS ULCER	*	*	*	*	0.551	0.043	12.94	1.73
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE	*	*	*	*	0.520	0.148	3.51	1.68

Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	*	*	*	*	0.284	0.053	5.37	1.33
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.256	0.074	3.47	1.29
DIABETES WITH HYPEROSMOLARITY, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.512	0.114	4.48	1.67	*	*	*	*
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	1.248	0.218	5.73	3.48	0.523	0.166	3.16	1.69
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.500	0.075	6.67	1.65	*	*	*	*
DIABETES WITH KETOACIDOSIS, TYPE I [JUVENILE TYPE], UNCONTROLLED	0.689	0.086	8.04	1.99	0.209	0.056	3.76	1.23
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	1.423	0.138	10.30	4.15	0.808	0.104	7.81	2.24
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	1.164	0.181	6.42	3.20	0.772	0.132	5.87	2.16
DIABETES WITH OTHER COMA, TYPE I [JUVENILE TYPE], UNCONTROLLED	1.260	0.289	4.36	3.52	0.857	0.228	3.77	2.36
DO NOT RESUSCITATE STATUS	0.957	0.061	15.58	2.61	0.785	0.038	20.86	2.19
DYSPHAGIA	*	*	*	*	0.299	0.058	5.19	1.35
ENCEPHALOPATHY	*	*	*	*	0.151	0.039	3.87	1.16
END STAGE RENAL DISEASE	1.094	0.081	13.59	2.99	1.078	0.048	22.36	2.94
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	0.910	0.127	7.14	2.48	0.479	0.096	4.99	1.62
GANGRENE	0.392	0.106	3.70	1.48	*	*	*	*
GASTROSTOMY STATUS	0.418	0.193	2.17	1.52	0.364	0.111	3.28	1.44
GLUCOCORTICOID DEFICIENCY	0.966	0.217	4.45	2.63	0.776	0.136	5.72	2.17
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.766	0.170	4.50	2.15	0.543	0.119	4.56	1.72
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.195	0.095	2.06	1.22	0.238	0.060	3.95	1.27
HYPERPOTASSEMIA	*	*	*	*	0.092	0.044	2.11	1.10
HYPOTENSION, UNSP OR NEC	0.492	0.094	5.24	1.64	0.329	0.060	5.51	1.39
INSERTION OF OTHER (NASO-)GASTRIC TUBE	1.094	0.226	4.84	2.99	0.725	0.188	3.85	2.07
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	*	*	*	*	0.237	0.104	2.28	1.27
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	1.053	0.222	4.75	2.87	1.267	0.127	9.96	3.55
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED	*	*	*	*	1.211	0.233	5.21	3.36
MALNUTRITION	0.284	0.073	3.89	1.33	0.364	0.044	8.33	1.44
MIXED ACID-BASE BALANCE DISORDER	1.388	0.204	6.79	4.01	1.116	0.158	7.05	3.05
MULTIPLE MYELOMA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION	*	*	*	*	0.514	0.167	3.09	1.67
OBESITY HYPOVENTILATION SYNDROME	0.937	0.216	4.34	2.55	0.364	0.155	2.34	1.44
OTHER ALTERATION OF CONSCIOUSNESS	*	*	*	*	0.240	0.107	2.25	1.27
OTHER AND UNSPECIFIED COAGULATION DEFECTS	1.037	0.233	4.45	2.82	0.710	0.169	4.20	2.04

Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER ASCITES	0.918	0.170	5.40	2.50	1.044	0.104	10.03	2.84
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	0.661	0.279	2.37	1.94	0.990	0.155	6.40	2.69
OTHER PULMONARY EMBOLISM AND INFARCTION	*	*	*	*	0.565	0.250	2.26	1.76
OTHER SHOCK WITHOUT MENTION OF TRAUMA	0.635	0.216	2.94	1.89	0.636	0.160	3.97	1.89
Palliative Care Risk Ragrdless of POA	3.575	0.065	54.94	35.69	2.857	0.059	48.55	17.41
PARALYTIC ILEUS	0.850	0.271	3.14	2.34	0.506	0.191	2.65	1.66
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	1.702	0.206	8.26	5.49	1.178	0.165	7.14	3.25
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG	*	*	*	*	0.346	0.152	2.28	1.41
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.396	0.131	3.03	1.49	0.555	0.090	6.20	1.74
POSTINFLAMMATORY PULMONARY FIBROSIS	0.493	0.207	2.39	1.64	0.478	0.113	4.22	1.61
PRESSURE ULCER, STAGE III	0.458	0.138	3.33	1.58	0.174	0.084	2.06	1.19
PRESSURE ULCER, STAGE IV	0.575	0.150	3.83	1.78	*	*	*	*
PULMONARY HYPERTENSION	0.245	0.091	2.70	1.28	0.186	0.053	3.52	1.21
RENAL FAILURE, UNSPECIFIED	1.890	0.304	6.22	6.62	1.111	0.242	4.59	3.04
RHABDOMYOLYSIS	0.303	0.151	2.01	1.36	*	*	*	*
SEPSIS	0.926	0.148	6.28	2.52	*	*	*	*
SEPSIS	*	*	*	*	0.512	0.111	4.62	1.67
SEVERE SEPSIS	0.574	0.218	2.63	1.78	0.927	0.146	6.36	2.53
THROMBOCYTOPENIA, UNSPECIFIED	0.210	0.098	2.15	1.23	0.182	0.059	3.11	1.20
ULCER OF HEEL AND MIDFOOT	*	*	*	*	0.163	0.057	2.86	1.18
ULCER OF LOWER LIMB, UNSPECIFIED	0.711	0.171	4.17	2.04	0.413	0.108	3.83	1.51
ULCER OF OTHER PART OF LOWER LIMB	0.618	0.151	4.10	1.86	0.452	0.088	5.13	1.57
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	0.592	0.262	2.25	1.81	0.668	0.171	3.92	1.95
UNSPECIFIED PLEURAL EFFUSION	0.769	0.118	6.53	2.16	0.695	0.074	9.42	2.00
VASCULAR DEMENTIA, UNCOMPLICATED	*	*	*	*	0.265	0.101	2.64	1.30

Esophageal/Stomach Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	*	*	*	*	0.145	0.045	3.24	1.16
AdmitSourceXferSkilledNursing	-0.147	0.040	-3.71	0.86	0.048	0.022	2.17	1.05
Age70To74	0.236	0.040	5.85	1.27	0.290	0.027	10.93	1.34
Age75To79	0.401	0.039	10.35	1.49	0.520	0.025	20.65	1.68
Age80To84	0.607	0.038	16.15	1.84	0.711	0.025	29.06	2.04
Age85To89	0.730	0.038	19.18	2.07	0.932	0.025	38.03	2.54
Age90AndOver	0.975	0.040	24.45	2.65	1.244	0.026	48.88	3.47
PrimaryFacilityPresentOnAdmissionKnownPercent	0.702	0.127	5.53	2.02	0.520	0.072	7.21	1.68
SexFemale	-0.139	0.020	-6.95	0.87	-0.256	0.013	-20.56	0.77
ACIDOSIS	0.460	0.034	13.70	1.58	0.292	0.024	12.03	1.34
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.612	0.065	9.37	1.85	0.537	0.046	11.75	1.71
ACUTE AND SUBACUTE NECROSIS OF LIVER	0.726	0.108	6.71	2.07	0.606	0.092	6.55	1.83
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION	0.829	0.075	11.06	2.29	0.578	0.057	10.10	1.78
ACUTE DUODENAL ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION	0.315	0.107	2.95	1.37	0.219	0.092	2.38	1.24
ACUTE GASTRIC ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION	0.587	0.105	5.57	1.80	0.329	0.093	3.52	1.39
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	*	*	*	*	0.232	0.044	5.32	1.26
ACUTE RENAL FAILURE	0.154	0.024	6.32	1.17	0.077	0.016	4.77	1.08
ACUTE RESPIRATORY FAILURE	0.611	0.035	17.26	1.84	0.461	0.025	18.33	1.59
ACUTE SYSTOLIC HEART FAILURE	*	*	*	*	0.132	0.048	2.76	1.14
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	1.287	0.151	8.54	3.62	1.150	0.133	8.65	3.16
ADULT FAILURE TO THRIVE	0.073	0.033	2.22	1.08	0.106	0.019	5.68	1.11
ALCOHOLIC CIRRHOSIS OF LIVER	0.713	0.096	7.40	2.04	0.805	0.065	12.43	2.24
ANEMIA IN NEOPLASTIC DISEASE	*	*	*	*	0.383	0.072	5.31	1.47
ANTERIOR/LATERAL WALL AMI	0.572	0.189	3.02	1.77	0.643	0.133	4.82	1.90
ATRIAL FIBRILLATION	0.209	0.022	9.45	1.23	0.229	0.014	16.78	1.26
BACTERIAL PNEUMONIA	0.286	0.033	8.59	1.33	0.236	0.021	11.25	1.27
BODY MASS INDEX LESS THAN 19, ADULT	0.103	0.040	2.59	1.11	0.141	0.024	5.98	1.15
CANDIDIASIS OF THE ESOPHAGUS	0.244	0.092	2.65	1.28	0.219	0.054	4.04	1.24
CARDIOMYOPATHY	0.285	0.043	6.67	1.33	0.233	0.028	8.30	1.26
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.161	0.026	6.12	1.18	0.173	0.017	10.48	1.19
CHRONIC BRONCHITIS	0.270	0.047	5.72	1.31	0.221	0.030	7.36	1.25
CHRONIC ISCHEMIC HEART DISEASE	0.214	0.051	4.17	1.24	0.145	0.033	4.35	1.16
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	*	*	*	*	0.103	0.022	4.62	1.11
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.280	0.052	5.39	1.32	0.332	0.034	9.82	1.39
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.185	0.032	5.77	1.20	0.209	0.020	10.36	1.23
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE AND PERFORATION, WITHOUT MENTION OF OBSTRUCTION	0.830	0.111	7.49	2.29	0.846	0.096	8.86	2.33
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION	0.605	0.041	14.84	1.83	0.447	0.029	15.30	1.56

Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION	0.322	0.061	5.26	1.38	0.209	0.053	3.95	1.23
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION	0.407	0.060	6.77	1.50	0.310	0.052	5.99	1.36
CHRONIC RESPIRATORY FAILURE	*	*	*	*	0.191	0.054	3.51	1.21
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE	0.584	0.191	3.06	1.79	*	*	*	*
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.549	0.073	7.57	1.73	0.621	0.050	12.41	1.86
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.278	0.024	11.42	1.32	0.274	0.015	17.88	1.32
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	*	*	*	*	0.059	0.020	2.90	1.06
DECUBITIS ULCER	0.150	0.034	4.44	1.16	0.179	0.020	8.85	1.20
DEFIBRATION SYNDROME	1.235	0.131	9.41	3.44	0.843	0.120	7.01	2.32
DEHYDRATION	*	*	*	*	0.043	0.017	2.49	1.04
DIAB W UNSPECIFIED MANIFESTATIONS	*	*	*	*	0.142	0.048	2.96	1.15
DIAPHRAGMATIC HERNIA WITH OBSTRUCTION	0.707	0.108	6.55	2.03	0.533	0.094	5.69	1.71
DUODENAL ULCER, UNSPECIFIED AS ACUTE OR CHRONIC, WITHOUT HEMORRHAGE OR PERFORATION, WITHOUT MENTION OF OBSTRUCTION	*	*	*	*	0.093	0.044	2.12	1.10
ENCEPHALOPATHY	*	*	*	*	0.065	0.020	3.33	1.07
ENDOSCOPIC CONTROL OF GASTRIC OR DUODENAL BLEEDING	*	*	*	*	-0.156	0.050	-3.14	0.86
END STAGE RENAL DISEASE	1.016	0.050	20.32	2.76	0.783	0.072	10.87	2.19
Esophagus Resection and Anastomosis	1.571	0.090	17.46	4.81	0.534	0.094	5.70	1.71
Gastric Resection and Anastomosis - High Mortality	1.361	0.041	32.89	3.90	0.885	0.053	16.56	2.42
Gastric Resection and Anastomosis - Low Mortality	1.060	0.098	10.86	2.89	0.352	0.091	3.87	1.42
GLUCOCORTICOID DEFICIENCY	0.516	0.111	4.66	1.68	0.274	0.084	3.26	1.32
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.325	0.060	5.42	1.38	*	*	*	*
HYPEROSMOLALITY AND/OR HYPERNATREMIA	*	*	*	*	0.057	0.021	2.77	1.06
HYPERPOTASSEMIA	0.135	0.042	3.19	1.14	0.093	0.028	3.34	1.10
HYPOTENSION, UNSP OR NEC	0.217	0.042	5.14	1.24	0.103	0.028	3.66	1.11
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	0.144	0.065	2.20	1.15	*	*	*	*
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE	-0.861	0.245	-3.51	0.42	-0.739	0.187	-3.96	0.48
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.663	0.089	7.46	1.94	0.991	0.054	18.53	2.69
MALIGNANT NEOPLASM OF ESOPHAGUS, UNSPECIFIED	*	*	*	*	0.429	0.065	6.65	1.54
MALIGNANT NEOPLASM OF OTHER SPECIFIED PART OF ESOPHAGUS	*	*	*	*	0.544	0.144	3.77	1.72
MALNUTRITION	0.159	0.023	6.85	1.17	0.219	0.014	15.32	1.24
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA	0.492	0.133	3.70	1.64	*	*	*	*

Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIG HYPERTEN & REN WITH CHF	0.249	0.107	2.34	1.28	*	*	*	*
NON-MALIGNANT RENAL DISEASE WITH FAILURE	*	*	*	*	0.221	0.073	3.02	1.25
OBESITY HYPOVENTILATION SYNDROME	0.445	0.164	2.71	1.56	0.469	0.119	3.94	1.60
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED	0.235	0.095	2.46	1.27	*	*	*	*
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.417	0.081	5.18	1.52	0.331	0.059	5.59	1.39
OTHER ASCITES	0.586	0.059	9.95	1.80	0.695	0.046	15.18	2.00
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM	*	*	*	*	0.131	0.042	3.13	1.14
OTHER EMPHYSEMA	*	*	*	*	0.168	0.058	2.92	1.18
Other Enterostomies	0.497	0.048	10.41	1.65	0.222	0.040	5.54	1.25
Other Esophageal Procedures - High Mortality	1.601	0.124	12.96	4.96	0.855	0.116	7.37	2.35
Other Esophageal Procedures - Low Mortality	-0.279	0.057	-4.88	0.76	0.162	0.055	2.95	1.18
OTHER LAPAROTOMY	0.359	0.133	2.69	1.43	0.348	0.115	3.02	1.42
OTHER SHOCK WITHOUT MENTION OF TRAUMA	0.538	0.052	10.34	1.71	0.460	0.040	11.45	1.58
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM	0.200	0.073	2.75	1.22	0.132	0.051	2.59	1.14
OTHER SPECIFIED INTESTINAL OBSTRUCTION	*	*	*	*	0.306	0.106	2.89	1.36
OTHER SPECIFIED PERITONITIS	*	*	*	*	0.400	0.104	3.83	1.49
Other Stomach Procedures - High Mortality	1.498	0.049	30.32	4.47	0.911	0.055	16.59	2.49
Other Stomach Procedures - Low Mortality	0.838	0.104	8.04	2.31	0.333	0.092	3.61	1.40
Other Stomach Procedures - Moderate Mortality	1.123	0.069	16.31	3.07	0.678	0.067	10.07	1.97
OTHER SUPPURATIVE PERITONITIS	0.248	0.104	2.39	1.28	0.429	0.091	4.74	1.54
OTHER/UNSPEC PERIPH VASC DISEASE	0.102	0.038	2.68	1.11	0.133	0.023	5.72	1.14
Palliative Care Risk Ragrdless of POA	2.353	0.025	94.66	10.51	2.269	0.021	106.46	9.67
PARALYTIC ILEUS	0.205	0.091	2.26	1.23	*	*	*	*
PATHOLOGIC FRACTURE OF VERTEBRAE	0.322	0.128	2.51	1.38	0.249	0.084	2.98	1.28
PERCUTANEOUS [ENDOSCOPIC] GASTROJEJUNOSTOMY	1.073	0.114	9.44	2.92	1.006	0.090	11.15	2.74
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG]	0.658	0.032	20.43	1.93	1.155	0.051	22.83	3.18
PERFORATION OF INTESTINE	0.642	0.129	4.99	1.90	0.694	0.112	6.20	2.00
PERITONITIS (ACUTE) GENERALIZED	*	*	*	*	0.220	0.087	2.52	1.25
POSTINFLAMMATORY PULMONARY FIBROSIS	0.405	0.074	5.49	1.50	0.350	0.049	7.18	1.42
PULMONARY HYPERTENSION	0.164	0.042	3.88	1.18	0.160	0.027	5.84	1.17
Pylorus - High Mortality	1.348	0.108	12.53	3.85	0.743	0.097	7.64	2.10
Reflux	*	*	*	*	-0.845	0.086	-9.85	0.43
Resection or Removal of Small Intestine	0.943	0.099	9.51	2.57	0.695	0.089	7.78	2.00
SEPSIS	0.308	0.033	9.41	1.36	0.142	0.022	6.63	1.15
SEPTIC SHOCK	0.465	0.048	9.72	1.59	0.324	0.037	8.86	1.38
THROMBOCYTOPENIA, UNSPECIFIED	0.084	0.041	2.03	1.09	0.129	0.026	4.90	1.14
UNSPECIFIED INTESTINAL OBSTRUCTION	*	*	*	*	0.392	0.074	5.32	1.48
UNSPECIFIED PERITONITIS	0.123	0.057	2.16	1.13	0.186	0.049	3.77	1.20
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	1.005	0.116	8.65	2.73	0.622	0.096	6.45	1.86

Gastrointestinal Bleed

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.197	0.037	5.32	1.22	0.223	0.024	9.22	1.25
AdmitSourceXferNonHospital	0.149	0.074	2.00	1.16	0.175	0.046	3.79	1.19
AdmitSourceXferSkilledNursing	*	*	*	*	0.361	0.022	16.62	1.44
Age70To74	0.355	0.041	8.62	1.43	0.364	0.027	13.62	1.44
Age75To79	0.520	0.040	13.13	1.68	0.551	0.026	21.57	1.74
Age80To84	0.609	0.039	15.76	1.84	0.721	0.025	29.17	2.06
Age85To89	0.661	0.039	16.87	1.94	0.878	0.025	35.36	2.41
Age90AndOver	0.731	0.041	17.94	2.08	1.135	0.025	44.62	3.11
PrimaryFacilityPresentOnAdmissionKnownPercent	1.185	0.124	9.55	3.27	0.283	0.060	4.74	1.33
SexFemale	-0.176	0.020	-9.03	0.84	-0.167	0.012	-13.97	0.85
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.143	0.062	2.31	1.15	0.150	0.038	3.94	1.16
ACIDOSIS	0.747	0.034	22.19	2.11	0.469	0.025	18.85	1.60
ACQUIRED COAGULATION FACTOR DEFICIENCY	0.748	0.104	7.21	2.11	0.563	0.076	7.40	1.76
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.379	0.100	3.77	1.46	0.308	0.068	4.55	1.36
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION	0.679	0.072	9.48	1.97	0.505	0.051	9.88	1.66
ACUTE GASTRITIS, WITH HEMORRHAGE	*	*	*	*	0.225	0.078	2.90	1.25
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.581	0.051	11.52	1.79	0.395	0.036	10.86	1.48
ACUTE RENAL FAILURE	0.349	0.023	15.15	1.42	0.229	0.015	15.59	1.26
ACUTE RESPIRATORY FAILURE	1.262	0.044	28.43	3.53	0.828	0.036	22.74	2.29
ACUTE SYSTOLIC HEART FAILURE	0.390	0.062	6.32	1.48	0.307	0.042	7.28	1.36
ALCOHOLIC CIRRHOSIS OF LIVER	0.463	0.072	6.46	1.59	0.625	0.047	13.27	1.87
ALZHEIMER'S DISEASE	*	*	*	*	0.231	0.025	9.29	1.26
ANEMIA, UNSPECIFIED	*	*	*	*	0.107	0.017	6.18	1.11
AORTIC VALVE DISORDERS	0.107	0.040	2.65	1.11	0.092	0.025	3.73	1.10
ATRIAL FIBRILLATION	0.164	0.021	7.99	1.18	0.204	0.013	16.40	1.23
ATROPHIC GASTRITIS, WITH HEMORRHAGE	*	*	*	*	0.224	0.099	2.26	1.25
BACTERIAL PNEUMONIA	0.639	0.038	16.69	1.90	0.548	0.025	21.66	1.73
BLOOD IN STOOL	0.211	0.033	6.45	1.23	0.217	0.020	10.88	1.24
BODY MASS INDEX 40 AND OVER	0.175	0.051	3.45	1.19	0.107	0.033	3.29	1.11
BODY MASS INDEX LESS THAN 19, ADULT	0.197	0.058	3.39	1.22	0.347	0.036	9.62	1.41
CANDIDIASIS OF THE ESOPHAGUS	0.246	0.096	2.57	1.28	0.462	0.054	8.63	1.59
CARDIOMYOPATHY	0.295	0.039	7.53	1.34	0.142	0.026	5.51	1.15
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.195	0.024	8.09	1.22	0.224	0.015	14.94	1.25
CHRONIC BRONCHITIS	0.331	0.055	6.05	1.39	0.385	0.035	11.08	1.47
CHRONIC ISCHEMIC HEART DISEASE	0.197	0.042	4.64	1.22	0.165	0.027	6.17	1.18
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.227	0.043	5.28	1.26	0.334	0.027	12.57	1.40
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.196	0.029	6.80	1.22	0.207	0.018	11.72	1.23
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE AND PERFORATION, WITHOUT MENTION OF OBSTRUCTION	1.322	0.129	10.25	3.75	1.071	0.108	9.92	2.92

Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION	0.490	0.036	13.53	1.63	0.403	0.024	16.84	1.50
CHRONIC OR UNSPECIFIED PEPTIC ULCER OF UNSPECIFIED SITE WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION	*	*	*	*	0.274	0.067	4.11	1.32
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.304	0.056	5.46	1.36	0.443	0.035	12.54	1.56
COLONOSCOPY	-0.560	0.032	-17.31	0.57	-0.494	0.019	-26.04	0.61
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.245	0.022	10.99	1.28	0.300	0.014	22.14	1.35
DECUBITIS ULCER	0.360	0.040	9.04	1.43	0.673	0.023	28.85	1.96
DEHYDRATION	0.100	0.031	3.24	1.11	0.071	0.019	3.71	1.07
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.216	0.029	7.50	1.24
DIAB W UNSPECIFIED MANIFESTATIONS	*	*	*	*	0.132	0.052	2.54	1.14
DIVERTICULOSIS OF SMALL INTESTINE WITH HEMORRHAGE	0.653	0.178	3.68	1.92	*	*	*	*
DO NOT RESUSCITATE STATUS	0.480	0.025	18.93	1.62	0.617	0.016	39.91	1.85
DYSPHAGIA	*	*	*	*	0.290	0.027	10.88	1.34
ENCEPHALOPATHY	0.502	0.046	10.88	1.65	0.453	0.032	14.16	1.57
ENDOSCOPIC CONTROL OF GASTRIC OR DUODENAL BLEEDING	0.125	0.030	4.18	1.13	-0.101	0.020	-5.06	0.90
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OF DUODENUM	*	*	*	*	-0.265	0.090	-2.95	0.77
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS	0.323	0.070	4.63	1.38	*	*	*	*
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF STOMACH	-0.450	0.114	-3.94	0.64	-0.424	0.066	-6.45	0.66
ENDOSCOPIC EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF LARGE INTESTINE	-0.375	0.069	-5.48	0.69	-0.355	0.040	-8.94	0.70
ENDOSCOPIC POLYPECTOMY OF LARGE INTESTINE	-0.890	0.058	-15.26	0.41	-0.570	0.029	-19.68	0.57
END STAGE RENAL DISEASE	0.918	0.042	21.67	2.50	0.949	0.053	17.91	2.58
ESOPHAGEAL HEMORRHAGE	0.598	0.093	6.41	1.82	0.368	0.064	5.75	1.45
ESOPHAGEAL VARICES WITH BLEEDING	*	*	*	*	0.244	0.088	2.77	1.28
ESOPHAGOGASTRODUODENOSCOPY [EGD] WITH CLOSED BIOPSY	-0.462	0.025	-18.29	0.63	-0.372	0.015	-24.36	0.69
GASTROSTOMY STATUS	*	*	*	*	0.101	0.038	2.66	1.11
HEMATEMESIS	0.444	0.043	10.23	1.56	0.490	0.027	18.47	1.63
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.413	0.023	18.35	1.51	0.425	0.014	29.80	1.53
HEMORRHAGE OF RECTUM AND ANUS	*	*	*	*	0.260	0.028	9.41	1.30
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.479	0.045	10.70	1.62	0.580	0.030	19.66	1.79
HYPERPOTASSEMIA	0.224	0.036	6.26	1.25	0.207	0.023	8.82	1.23
HYOSMOLALITY AND/OR HYPONATREMIA	0.245	0.035	6.92	1.28	0.287	0.022	13.02	1.33
HYPOTENSION, UNSP OR NEC	0.258	0.032	8.14	1.30	0.252	0.020	12.49	1.29
HYPOXEMIA	*	*	*	*	0.136	0.044	3.10	1.15
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.122	0.038	3.25	1.13
MALNUTRITION	0.556	0.029	19.04	1.74	0.579	0.019	30.22	1.79

Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIGNANT RENAL DISEASE WITH FAILURE	*	*	*	*	0.118	0.053	2.23	1.13
OBESITY HYPOVENTILATION SYNDROME	0.720	0.127	5.66	2.06	0.671	0.089	7.59	1.96
OPEN AND OTHER LEFT HEMICOLECTOMY	1.755	0.114	15.39	5.78	1.039	0.099	10.48	2.83
OPEN AND OTHER RIGHT HEMICOLECTOMY	1.802	0.098	18.49	6.06	1.095	0.084	13.06	2.99
OPEN AND OTHER SIGMOIDECTOMY	1.538	0.128	11.99	4.66	0.986	0.107	9.22	2.68
OPEN TOTAL INTRA-ABDOMINAL COLECTOMY	2.355	0.117	20.20	10.54	1.520	0.104	14.58	4.57
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.570	0.058	9.87	1.77	0.399	0.041	9.62	1.49
OTHER ASCITES	0.761	0.056	13.62	2.14	0.832	0.038	22.08	2.30
OTHER CONVULSIONS	0.360	0.129	2.79	1.43	0.186	0.086	2.17	1.20
OTHER EMPHYSEMA	0.193	0.093	2.08	1.21	0.133	0.059	2.25	1.14
OTHER ENDOSCOPY OF SMALL INTESTINE	*	*	*	*	-0.168	0.015	-11.57	0.85
OTHER ESOPHAGITIS	*	*	*	*	0.128	0.036	3.61	1.14
OTHER GASTROSCOPY	0.772	0.164	4.70	2.16	*	*	*	*
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.260	0.082	3.17	1.30	0.367	0.047	7.90	1.44
OTHER SHOCK WITHOUT MENTION OF TRAUMA	0.637	0.036	17.91	1.89	0.465	0.027	17.48	1.59
OTHER SMALL-TO-LARGE INTESTINAL ANASTOMOSIS	0.697	0.136	5.15	2.01	0.556	0.116	4.78	1.74
OTHER/UNSPEC PERIPH VASC DISEASE	*	*	*	*	0.073	0.020	3.66	1.08
Palliative Care Risk Ragrdless of POA	3.542	0.026	136.73	34.55	2.934	0.024	124.44	18.81
PARALYTIC ILEUS	0.627	0.087	7.17	1.87	0.362	0.061	5.92	1.44
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.213	0.085	2.51	1.24	0.144	0.056	2.56	1.15
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.756	0.059	12.75	2.13	0.594	0.042	14.06	1.81
POSTINFLAMMATORY PULMONARY FIBROSIS	0.634	0.066	9.55	1.88	0.429	0.044	9.72	1.54
PULMONARY HYPERTENSION	0.190	0.035	5.36	1.21	0.154	0.022	6.91	1.17
RIGID PROCTOSIGMOIDOSCOPY	0.406	0.134	3.03	1.50	*	*	*	*
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.293	0.059	4.96	1.34
SUTURE OF DUODENAL ULCER SITE	1.228	0.082	14.95	3.41	0.769	0.071	10.78	2.16
TACHYCARDIA, UNSPECIFIED	0.225	0.076	2.98	1.25	0.198	0.049	4.02	1.22
THROMBOCYTOPENIA, UNSPECIFIED	0.300	0.035	8.64	1.35	0.284	0.023	12.59	1.33
TRANSCATHETER EMBOLIZATION FOR GASTRIC OR DUODENAL BLEEDING	0.761	0.081	9.38	2.14	0.394	0.068	5.79	1.48
ULCER OF ANUS AND RECTUM	*	*	*	*	0.247	0.066	3.72	1.28
ULCER OF ESOPHAGUS WITH BLEEDING	*	*	*	*	0.200	0.045	4.48	1.22
UNSPECIFIED GASTRITIS AND GASTRODUODENITIS, WITH HEMORRHAGE	*	*	*	*	0.201	0.038	5.31	1.22
UNSPECIFIED PLEURAL EFFUSION	0.581	0.048	12.00	1.79	0.518	0.033	15.89	1.68
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.763	0.080	9.58	2.14	0.316	0.058	5.44	1.37
URINARY TRACT INFECTION, SITE NOT SPECIFIED	*	*	*	*	0.160	0.017	9.20	1.17

Heart Attack (Stent Treatment Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.067	0.015	4.49	1.07	0.049	0.012	3.90	1.05
AdmitSourceXferNonHospital	*	*	*	*	0.078	0.033	2.40	1.08
AdmitSourceXferSkilledNursing	*	*	*	*	0.262	0.028	9.43	1.30
Age70To74	0.376	0.022	17.42	1.46	0.365	0.018	19.97	1.44
Age75To79	0.634	0.021	30.09	1.88	0.626	0.018	35.18	1.87
Age80To84	0.792	0.021	37.87	2.21	0.816	0.018	46.29	2.26
Age85To89	0.924	0.022	42.94	2.52	1.020	0.018	56.46	2.77
Age90AndOver	1.002	0.023	43.55	2.72	1.246	0.019	65.06	3.48
PrimaryFacilityPresentOnAdmissionKnownPercent	0.903	0.084	10.80	2.47	0.729	0.068	10.70	2.07
SexFemale	*	*	*	*	-0.093	0.010	-9.78	0.91
ACIDOSIS	0.792	0.020	39.48	2.21	0.638	0.018	34.90	1.89
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.268	0.042	6.36	1.31	0.337	0.036	9.42	1.40
ACUTE AND SUBACUTE NECROSIS OF LIVER	0.480	0.043	11.19	1.62	0.489	0.041	11.99	1.63
ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE	1.569	0.143	10.99	4.80	1.066	0.029	36.37	2.91
ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE	1.231	0.144	8.53	3.42	0.771	0.036	21.71	2.16
ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE	1.247	0.147	8.50	3.48	0.725	0.043	16.81	2.07
ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE	1.269	0.140	9.05	3.56	0.823	0.018	44.81	2.28
ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE	1.086	0.140	7.74	2.96	0.591	0.018	32.30	1.81
ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE	1.314	0.147	8.94	3.72	0.824	0.044	18.61	2.28
ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE	1.363	0.153	8.92	3.91	0.845	0.058	14.64	2.33
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.292	0.140	2.09	1.34	*	*	*	*
ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE	1.395	0.159	8.77	4.04	0.824	0.073	11.30	2.28
ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE	1.648	0.141	11.71	5.20	1.079	0.019	55.83	2.94
ACUTE RENAL FAILURE	0.390	0.014	27.43	1.48	0.356	0.012	29.55	1.43
ACUTE RESPIRATORY FAILURE	0.581	0.017	34.34	1.79	0.422	0.015	27.67	1.52
ADULT FAILURE TO THRIVE	0.213	0.052	4.13	1.24	0.513	0.042	12.36	1.67
ALZHEIMER'S DISEASE	*	*	*	*	0.107	0.045	2.38	1.11
ANOXIC BRAIN DAMAGE	1.484	0.037	39.96	4.41	1.403	0.036	38.70	4.07
AORTIC VALVE DISORDERS	0.108	0.020	5.37	1.11	0.190	0.016	11.88	1.21
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES	-0.406	0.065	-6.21	0.67	-0.558	0.063	-8.93	0.57
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY	*	*	*	*	-0.213	0.055	-3.86	0.81
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES	-0.252	0.048	-5.29	0.78	-0.427	0.048	-8.87	0.65

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES	-0.214	0.045	-4.70	0.81	-0.396	0.047	-8.44	0.67
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.381	0.043	8.89	1.46	0.328	0.036	9.15	1.39
ATRIAL FIBRILLATION	0.044	0.013	3.39	1.05	0.096	0.011	9.20	1.10
ATRIOVENTRICULAR BLOCK, COMPLETE	0.281	0.039	7.18	1.33	0.238	0.035	6.73	1.27
BACTERIAL PNEUMONIA	0.241	0.019	12.71	1.27	0.213	0.016	13.45	1.24
BODY MASS INDEX 40 AND OVER	0.066	0.030	2.24	1.07	0.089	0.024	3.66	1.09
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.108	0.044	2.44	1.11
CACHEXIA	0.319	0.056	5.71	1.38	0.413	0.049	8.47	1.51
CARDIAC ARREST	1.466	0.026	56.19	4.33	1.289	0.025	51.30	3.63
CARDIOGENIC SHOCK	1.147	0.019	61.34	3.15	0.984	0.018	55.80	2.68
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.153	0.016	9.77	1.17	0.182	0.013	13.95	1.20
CHRONIC BRONCHITIS	*	*	*	*	0.065	0.022	2.98	1.07
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.172	0.021	8.11	1.19
CHRONIC KIDNEY DISEASE, STAGE V	*	*	*	*	0.192	0.072	2.66	1.21
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.201	0.017	11.96	1.22	0.224	0.014	16.07	1.25
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY	*	*	*	*	0.034	0.016	2.09	1.04
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.051	0.012	4.24	1.05	0.222	0.010	22.24	1.25
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.091	0.018	5.04	1.10	0.076	0.015	5.14	1.08
DECUBITIS ULCER	*	*	*	*	0.330	0.030	10.95	1.39
DEHYDRATION	0.060	0.027	2.28	1.06	0.053	0.022	2.41	1.05
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	*	*	*	*	0.185	0.045	4.10	1.20
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.107	0.027	4.02	1.11
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	*	*	*	*	0.044	0.010	4.24	1.05
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED	*	*	*	*	0.352	0.106	3.31	1.42
DISSECTION OF CORONARY ARTERY	0.476	0.118	4.05	1.61	0.465	0.104	4.49	1.59
DO NOT RESUSCITATE STATUS	0.675	0.016	41.22	1.96	0.705	0.014	51.25	2.02
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	-0.705	0.162	-4.34	0.49	-0.708	0.147	-4.83	0.49
ENCEPHALOPATHY	*	*	*	*	0.132	0.026	5.13	1.14
END STAGE RENAL DISEASE	0.885	0.049	18.13	2.42	0.934	0.049	19.20	2.54
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, ENDOVASCULAR APPROACH	-0.805	0.197	-4.08	0.45	-0.780	0.158	-4.94	0.46
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH	0.408	0.125	3.27	1.50	0.298	0.114	2.63	1.35
HEART FAILURE, UNSPECIFIED	0.556	0.113	4.93	1.74	0.651	0.097	6.68	1.92
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.301	0.042	7.19	1.35	0.213	0.036	5.88	1.24

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.217	0.045	4.86	1.24	0.405	0.038	10.71	1.50
HYPERPOTASSEMIA	0.424	0.024	17.93	1.53	0.356	0.021	17.34	1.43
HYPOSMOLALITY AND/OR HYPONATREMIA	*	*	*	*	0.091	0.019	4.86	1.10
HYPOTENSION, UNSP OR NEC	0.526	0.023	23.01	1.69	0.456	0.020	23.08	1.58
IMPLANT OF PULSATION BALLOON	1.464	0.020	72.06	4.32	1.281	0.019	67.85	3.60
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S)	-0.735	0.043	-17.14	0.48	-0.702	0.035	-20.07	0.50
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S)	-0.243	0.044	-5.48	0.79	-0.276	0.036	-7.59	0.76
INSERTION OF ONE VASCULAR STENT	-0.527	0.039	-13.67	0.59	-0.377	0.028	-13.26	0.69
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE	2.011	0.054	37.03	7.47	1.669	0.051	32.94	5.31
INSERTION OF THREE VASCULAR STENTS	-0.374	0.051	-7.38	0.69	-0.216	0.041	-5.33	0.81
INSERTION OF TWO VASCULAR STENTS	-0.446	0.041	-10.91	0.64	-0.289	0.031	-9.20	0.75
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.142	0.045	3.12	1.15	0.255	0.037	6.99	1.29
LEFT HEART FAILURE	0.301	0.118	2.56	1.35	0.454	0.100	4.56	1.58
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.607	0.066	9.18	1.83	0.859	0.054	15.99	2.36
MALNUTRITION	*	*	*	*	0.177	0.024	7.41	1.19
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS	*	*	*	*	0.171	0.034	5.02	1.19
MITRAL VALVE REPLACEMENT	0.817	0.093	8.81	2.26	0.645	0.089	7.27	1.91
NON-MALIG HYPERTEN & REN WITH CHF	0.179	0.041	4.38	1.20	0.128	0.034	3.75	1.14
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.185	0.049	3.73	1.20	0.152	0.047	3.20	1.16
OTHER CONVULSIONS	0.381	0.073	5.24	1.46	0.270	0.064	4.20	1.31
OTHER EMPHYSEMA	0.133	0.055	2.40	1.14	0.121	0.046	2.61	1.13
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.235	0.047	5.00	1.27
OTHER PULMONARY EMBOLISM AND INFARCTION	0.613	0.063	9.68	1.85	0.394	0.057	6.98	1.48
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	0.228	0.087	2.62	1.26	0.181	0.074	2.46	1.20
OTHER/UNSPEC PERIPH VASC DISEASE	0.185	0.017	10.64	1.20	0.176	0.014	12.41	1.19
Palliative Care Risk Ragrdless of POA	2.980	0.020	148.32	19.69	2.941	0.022	135.63	18.93
PARALYSIS AGITANS	*	*	*	*	0.079	0.037	2.12	1.08
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA]	-0.232	0.039	-5.91	0.79	-0.183	0.024	-7.53	0.83
POSTINFLAMMATORY PULMONARY FIBROSIS	0.288	0.043	6.62	1.33	0.312	0.035	8.82	1.37
PROCEDURE ON FOUR OR MORE VESSELS	0.278	0.130	2.15	1.32	*	*	*	*
PROCEDURE ON SINGLE VESSEL	0.126	0.035	3.63	1.13	*	*	*	*
PROCEDURE ON THREE VESSELS	0.204	0.067	3.03	1.23	0.153	0.053	2.89	1.17
PROCEDURE ON TWO VESSELS	0.146	0.041	3.56	1.16	0.068	0.026	2.64	1.07
PULMONARY CONGESTION AND HYPOSTASIS	0.392	0.050	7.83	1.48	0.326	0.044	7.37	1.39
RENAL DIALYSIS	*	*	*	*	0.115	0.036	3.15	1.12
RHEUMATOID ARTHRITIS	*	*	*	*	0.091	0.032	2.84	1.10
RIGHT BUNDLE BRANCH BLOCK	0.114	0.032	3.58	1.12	0.055	0.027	2.06	1.06

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.130	0.063	2.08	1.14
SEPSIS	0.446	0.058	7.70	1.56	0.346	0.051	6.76	1.41
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	-0.680	0.038	-18.04	0.51	-0.675	0.042	-16.12	0.51
TACHYCARDIA, UNSPECIFIED	0.140	0.065	2.15	1.15	0.129	0.055	2.36	1.14
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	0.425	0.065	6.52	1.53	0.586	0.055	10.63	1.80
UNSPECIFIED DISEASE OF PERICARDIUM	0.438	0.061	7.14	1.55	0.324	0.054	6.01	1.38
UNSPECIFIED DISORDER OF KIDNEY AND URETER	0.096	0.034	2.85	1.10	0.124	0.027	4.55	1.13
UNSPECIFIED PLEURAL EFFUSION	0.095	0.036	2.65	1.10	0.205	0.030	6.95	1.23

Heart Attack (Stent Treatment Not Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	-0.224	0.083	-2.71	0.80	*	*	*	*
AdmitSourceXferNonHospital	*	*	*	*	0.220	0.100	2.19	1.25
AdmitSourceXferSkilledNursing	*	*	*	*	0.258	0.045	5.73	1.30
Age70To74	0.506	0.086	5.85	1.66	0.508	0.069	7.32	1.66
Age75To79	0.618	0.082	7.58	1.86	0.686	0.065	10.51	1.99
Age80To84	0.719	0.078	9.27	2.05	0.816	0.062	13.11	2.26
Age85To89	0.735	0.076	9.67	2.09	0.944	0.061	15.52	2.57
Age90AndOver	0.882	0.075	11.79	2.42	1.186	0.060	19.78	3.27
PrimaryFacilityPresentOnAdmissionKnownPercent	*	*	*	*	-0.170	0.062	-2.74	0.84
SexFemale	-0.165	0.029	-5.63	0.85	-0.236	0.023	-10.17	0.79
ACIDOSIS	0.557	0.062	8.98	1.75	0.388	0.056	6.95	1.48
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.642	0.092	6.98	1.90	0.457	0.081	5.66	1.58
ACUTE AND SUBACUTE NECROSIS OF LIVER	1.111	0.141	7.89	3.04	1.009	0.139	7.25	2.74
ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE	1.257	0.131	9.57	3.51	1.001	0.117	8.53	2.72
ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE	1.064	0.170	6.25	2.90	0.814	0.147	5.53	2.26
ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE	1.299	0.226	5.74	3.67	0.713	0.216	3.31	2.04
ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE	1.015	0.076	13.37	2.76	0.903	0.065	13.83	2.47
ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE	1.200	0.083	14.55	3.32	0.867	0.074	11.79	2.38
ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE	1.181	0.183	6.45	3.26	0.987	0.161	6.12	2.68
ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE	1.071	0.130	8.27	2.92	0.879	0.110	7.98	2.41
ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE	1.071	0.315	3.41	2.92	0.785	0.283	2.78	2.19
ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE	1.622	0.037	44.07	5.06	1.290	0.032	39.92	3.63
ACUTE RENAL FAILURE	0.521	0.034	15.27	1.68	0.428	0.028	15.33	1.54
ACUTE RESPIRATORY FAILURE	0.840	0.044	19.00	2.32	0.563	0.039	14.31	1.76
ADULT FAILURE TO THRIVE	*	*	*	*	0.493	0.075	6.59	1.64
ALZHEIMER'S DISEASE	*	*	*	*	0.240	0.044	5.53	1.27
ANOXIC BRAIN DAMAGE	1.646	0.148	11.09	5.18	1.646	0.152	10.81	5.19
ATRIAL FIBRILLATION	0.097	0.031	3.14	1.10	0.117	0.024	4.79	1.12
ATRIOVENTRICULAR BLOCK, COMPLETE	0.770	0.169	4.55	2.16	0.582	0.152	3.84	1.79
BACTERIAL PNEUMONIA	0.380	0.037	10.35	1.46	0.335	0.030	11.15	1.40
CACHEXIA	0.379	0.125	3.03	1.46	0.507	0.102	4.97	1.66
CARDIAC ARREST	2.990	0.104	28.87	19.88	2.602	0.107	24.27	13.49
CARDIOGENIC SHOCK	1.987	0.070	28.61	7.29	1.742	0.071	24.60	5.71
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	*	*	*	*	0.095	0.031	3.06	1.10
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.111	0.039	2.83	1.12	0.147	0.031	4.68	1.16

Heart Attack (Stent Treatment Not Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CONGESTIVE HEART FAILURE, UNSPECIFIED	*	*	*	*	0.181	0.024	7.71	1.20
DECUBITIS ULCER	*	*	*	*	0.380	0.058	6.54	1.46
DEHYDRATION	0.165	0.048	3.45	1.18	0.113	0.039	2.88	1.12
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.126	0.058	2.17	1.14
DO NOT RESUSCITATE STATUS	0.504	0.032	15.56	1.66	0.518	0.026	19.68	1.68
DYSPHAGIA	*	*	*	*	0.145	0.062	2.34	1.16
END STAGE RENAL DISEASE	0.722	0.088	8.19	2.06	0.708	0.073	9.72	2.03
HEART FAILURE, UNSPECIFIED	0.852	0.231	3.69	2.34	0.460	0.217	2.13	1.58
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.396	0.086	4.62	1.49	0.225	0.074	3.06	1.25
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.385	0.083	4.63	1.47	0.695	0.070	9.94	2.00
HYPERPOTASSEMIA	0.502	0.055	9.19	1.65	0.509	0.047	10.93	1.66
HYPOTENSION, UNSP OR NEC	0.651	0.051	12.67	1.92	0.513	0.045	11.46	1.67
HYPOXEMIA	0.178	0.062	2.86	1.19	0.173	0.051	3.38	1.19
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.181	0.075	2.43	1.20
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.340	0.151	2.24	1.40	0.897	0.114	7.84	2.45
MALNUTRITION	*	*	*	*	0.162	0.050	3.22	1.18
OBESITY HYPOVENTILATION SYNDROME	*	*	*	*	0.470	0.207	2.27	1.60
OTHER CONVULSIONS	*	*	*	*	0.289	0.134	2.16	1.34
OTHER PULMONARY EMBOLISM AND INFARCTION	0.371	0.144	2.57	1.45	0.308	0.123	2.51	1.36
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	0.473	0.166	2.86	1.61	0.372	0.141	2.64	1.45
Palliative Care Risk Ragrdless of POA	2.220	0.046	47.82	9.21	2.307	0.050	46.47	10.04
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.534	0.095	5.64	1.71	0.663	0.083	8.01	1.94
POSTINFLAMMATORY PULMONARY FIBROSIS	*	*	*	*	0.192	0.082	2.35	1.21
PULMONARY CONGESTION AND HYPOSTASIS	0.314	0.133	2.36	1.37	*	*	*	*
RENAL FAILURE, UNSPECIFIED	0.897	0.184	4.87	2.45	0.874	0.169	5.18	2.40
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.265	0.097	2.74	1.30
SEPSIS	0.802	0.111	7.20	2.23	0.702	0.100	7.01	2.02
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	*	*	*	*	0.423	0.111	3.82	1.53
UNSPECIFIED DISEASE OF PERICARDIUM	*	*	*	*	0.331	0.169	1.96	1.39
UNSPECIFIED PLEURAL EFFUSION	*	*	*	*	0.184	0.071	2.59	1.20
VENTRICULAR FIBRILLATION	1.025	0.198	5.17	2.79	0.673	0.192	3.51	1.96

Heart Failure

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.230	0.023	10.15	1.26	0.187	0.015	12.36	1.21
AdmitSourceXferNonHospital	0.211	0.043	4.89	1.24	0.279	0.027	10.25	1.32
AdmitSourceXferSkilledNursing	0.299	0.021	14.55	1.35	0.505	0.013	38.87	1.66
Age70To74	0.252	0.024	10.47	1.29	0.257	0.015	17.09	1.29
Age75To79	0.429	0.023	18.78	1.54	0.442	0.014	31.01	1.56
Age80To84	0.608	0.022	27.76	1.84	0.646	0.014	47.29	1.91
Age85To89	0.727	0.022	33.40	2.07	0.835	0.014	61.58	2.30
Age90AndOver	0.865	0.022	39.09	2.38	1.106	0.014	80.49	3.02
PrimaryFacilityPresentOnAdmissionKnownPercent	0.163	0.051	3.22	1.18	-0.167	0.028	-6.01	0.85
SexFemale	-0.210	0.010	-20.38	0.81	-0.213	0.006	-33.24	0.81
ACIDOSIS	0.518	0.021	24.92	1.68	0.329	0.015	21.61	1.39
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.437	0.019	23.36	1.55	0.444	0.013	34.66	1.56
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.412	0.026	15.81	1.51	0.346	0.018	18.88	1.41
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE	0.230	0.048	4.75	1.26	0.362	0.031	11.88	1.44
ACUTE ON CHRONIC SYSTOLIC HEART FAILURE	*	*	*	*	0.029	0.007	3.95	1.03
ACUTE RENAL FAILURE	0.424	0.011	37.32	1.53	0.329	0.007	44.80	1.39
ACUTE RESPIRATORY FAILURE	0.411	0.013	30.65	1.51	0.226	0.009	24.26	1.25
ADULT FAILURE TO THRIVE	0.467	0.028	16.59	1.60	0.698	0.019	37.29	2.01
ALZHEIMER'S DISEASE	0.103	0.028	3.71	1.11	0.318	0.017	19.26	1.37
ANEMIA, UNSPECIFIED	*	*	*	*	0.038	0.008	4.69	1.04
ANTERIOR/LATERAL WALL AMI	1.546	0.058	26.59	4.70	1.058	0.047	22.45	2.88
AORTIC VALVE DISORDERS	0.130	0.016	8.41	1.14	0.194	0.010	20.25	1.21
ATRIAL FIBRILLATION	0.086	0.010	8.59	1.09	0.093	0.006	15.10	1.10
AUTOMATIC IMPLANTABLE CARDIAC DEFIBRILLATOR IN SITU	*	*	*	*	0.063	0.011	5.61	1.07
BACTERIAL PNEUMONIA	0.497	0.012	40.65	1.64	0.304	0.008	37.81	1.36
BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED	0.522	0.127	4.12	1.69	0.257	0.084	3.06	1.29
CACHEXIA	0.576	0.036	16.04	1.78	0.579	0.025	23.26	1.79
CARDIOVASCULAR DISEASE, UNSPECIFIED	0.360	0.094	3.85	1.43	0.186	0.059	3.15	1.20
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.135	0.012	11.00	1.15	0.188	0.008	24.19	1.21
CHRONIC BRONCHITIS	*	*	*	*	0.096	0.010	9.61	1.10
CHRONIC ISCHEMIC HEART DISEASE	0.033	0.014	2.45	1.03	0.069	0.009	7.85	1.07
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.204	0.010	19.54	1.23
CHRONIC KIDNEY DISEASE, STAGE V	*	*	*	*	0.349	0.032	11.09	1.42
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.222	0.013	17.63	1.25	0.224	0.008	28.02	1.25
CHRONIC RESPIRATORY FAILURE	*	*	*	*	0.127	0.022	5.91	1.14
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.236	0.045	5.28	1.27	0.264	0.029	9.25	1.30
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE	2.832	0.033	86.23	16.99	1.871	0.030	61.48	6.50

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS	3.123	0.019	160.74	22.71	2.116	0.018	118.78	8.30
DECUBITIS ULCER	0.480	0.022	22.01	1.62	0.697	0.014	50.30	2.01
DEHYDRATION	0.503	0.025	20.47	1.65	0.423	0.016	25.81	1.53
DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.166	0.058	2.86	1.18	0.284	0.039	7.33	1.33
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.093	0.011	8.23	1.10
DIAB W UNSPECIFIED MANIFESTATIONS	*	*	*	*	0.090	0.023	4.00	1.09
DO NOT RESUSCITATE STATUS	0.892	0.012	73.88	2.44	0.739	0.008	92.93	2.10
DYSPHAGIA	0.072	0.026	2.75	1.08	0.355	0.016	21.78	1.43
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED	0.172	0.066	2.62	1.19	0.163	0.042	3.91	1.18
END STAGE RENAL DISEASE	1.096	0.038	29.11	2.99	0.954	0.027	35.29	2.60
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY	*	*	*	*	0.118	0.024	4.91	1.13
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.491	0.033	14.86	1.63	0.579	0.023	25.60	1.79
HYPERPOTASSEMIA	0.507	0.017	29.31	1.66	0.457	0.012	39.54	1.58
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	0.138	0.020	6.79	1.15	*	*	*	*
HYPOSMOLALITY AND/OR HYPONATREMIA	0.262	0.016	16.56	1.30	0.297	0.010	29.86	1.35
HYPOTENSION, UNSPECIFIED OR NEC	0.660	0.021	31.56	1.93	0.589	0.014	41.13	1.80
HYPOXEMIA	*	*	*	*	0.039	0.012	3.32	1.04
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/ DEFIBRILLATOR, TOTAL SYSTEM [AICD]	-1.697	0.130	-13.05	0.18	-1.094	0.070	-15.60	0.34
INSERTION OF ONE VASCULAR STENT	-0.669	0.081	-8.30	0.51	-0.628	0.055	-11.44	0.53
INSERTION OF TWO VASCULAR STENTS	-0.606	0.123	-4.93	0.55	-0.591	0.085	-6.95	0.55
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.138	0.026	5.37	1.15
LEFT HEART FAILURE	0.243	0.099	2.46	1.28	0.196	0.063	3.11	1.22
MALNUTRITION	0.406	0.019	21.52	1.50	0.493	0.012	39.70	1.64
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS	0.115	0.030	3.86	1.12	0.180	0.018	9.81	1.20
MULTIPLE INVOLVEMENT OF MITRAL AND AORTIC VALVES	*	*	*	*	0.116	0.042	2.78	1.12
MYELODYSPLASTIC SYNDROME, UNSPECIFIED	*	*	*	*	0.255	0.029	8.82	1.29
OTHER ASCITES	0.448	0.033	13.54	1.57	0.398	0.022	18.35	1.49
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY	0.180	0.051	3.53	1.20	0.158	0.031	5.15	1.17
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.309	0.046	6.74	1.36	0.391	0.028	13.87	1.48
OTHER/UNSPEC PERIPH VASC DISEASE	*	*	*	*	0.027	0.010	2.69	1.03
Palliative Care Risk Regardless of POA	3.145	0.013	236.39	23.23	2.551	0.012	205.70	12.82
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.082	0.028	2.90	1.09	0.059	0.018	3.25	1.06
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.739	0.038	19.68	2.10	0.625	0.027	22.79	1.87

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PULMONARY CONGESTION AND HYPOSTASIS	0.126	0.053	2.38	1.13	*	*	*	*
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.262	0.036	7.39	1.30
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	*	*	*	*	-0.500	0.083	-6.03	0.61
THROMBOCYTOPENIA, UNSPECIFIED	0.079	0.021	3.71	1.08	0.123	0.013	9.19	1.13
ULCER OF LOWER LIMB, UNSPECIFIED	0.339	0.050	6.83	1.40	0.345	0.031	11.03	1.41
ULCER OF OTHER PART OF FOOT	0.180	0.054	3.35	1.20	0.331	0.032	10.33	1.39
ULCER OF OTHER PART OF LOWER LIMB	0.205	0.055	3.72	1.23	0.304	0.034	9.05	1.36
UNSPECIFIED COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.260	0.087	3.01	1.30	0.175	0.055	3.19	1.19
UNSPECIFIED DISORDER OF KIDNEY AND URETER	0.116	0.028	4.19	1.12	0.144	0.016	8.81	1.16
UNSPECIFIED PLEURAL EFFUSION	0.188	0.017	10.91	1.21	0.208	0.011	19.03	1.23
UNSPECIFIED SYSTOLIC HEART FAILURE	0.177	0.051	3.45	1.19	0.170	0.032	5.41	1.19

Pancreatitis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.296	0.072	4.10	1.35	0.344	0.057	6.04	1.41
AdmitSourceXferNonHospital	*	*	*	*	0.338	0.132	2.56	1.40
AdmitSourceXferSkilledNursing	*	*	*	*	0.375	0.092	4.07	1.45
Age70To74	0.247	0.074	3.35	1.28	0.211	0.058	3.64	1.24
Age75To79	0.595	0.072	8.28	1.81	0.516	0.057	9.03	1.68
Age80To84	0.701	0.073	9.56	2.02	0.767	0.057	13.53	2.15
Age85To89	0.874	0.076	11.49	2.40	0.945	0.059	16.01	2.57
Age90AndOver	1.035	0.082	12.68	2.82	1.290	0.062	20.93	3.63
PrimaryFacilityPresentOnAdmissionKnownPercent	1.076	0.225	4.77	2.93	0.661	0.161	4.10	1.94
SexFemale	-0.265	0.043	-6.12	0.77	-0.274	0.033	-8.25	0.76
ACIDOSIS	1.130	0.065	17.27	3.10	0.837	0.057	14.79	2.31
ACUTE AND SUBACUTE NECROSIS OF LIVER	1.213	0.147	8.27	3.36	0.915	0.131	6.97	2.50
ACUTE CHOLECYSTITIS	0.751	0.180	4.17	2.12	0.566	0.152	3.73	1.76
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.813	0.174	4.68	2.26	0.509	0.156	3.27	1.66
ACUTE RENAL FAILURE	0.645	0.050	13.04	1.91	0.558	0.040	13.98	1.75
ACUTE RESPIRATORY FAILURE	1.345	0.106	12.67	3.84	1.034	0.096	10.76	2.81
ALCOHOLIC CIRRHOSIS OF LIVER	*	*	*	*	0.570	0.141	4.06	1.77
ALZHEIMER'S DISEASE	*	*	*	*	0.309	0.081	3.80	1.36
ATRIAL FIBRILLATION	0.255	0.051	4.96	1.29	0.245	0.040	6.17	1.28
BACTERIAL PNEUMONIA	0.400	0.093	4.32	1.49	0.429	0.072	5.93	1.54
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.214	0.104	2.05	1.24
CALCULUS OF BILE DUCT WITH OTHER CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION	0.510	0.228	2.23	1.67	*	*	*	*
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION	0.382	0.110	3.47	1.47	0.243	0.087	2.80	1.27
CALCULUS OF GALLBLADDER WITHOUT MENTION OF CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION	0.152	0.063	2.43	1.17	*	*	*	*
CARDIOMYOPATHY	0.458	0.101	4.55	1.58	0.269	0.082	3.26	1.31
CHOLANGITIS	0.387	0.114	3.39	1.47	*	*	*	*
CHOLECYSTECTOMY	0.390	0.142	2.74	1.48	*	*	*	*
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.175	0.059	2.96	1.19	0.231	0.045	5.14	1.26
CHRONIC BRONCHITIS	0.439	0.136	3.23	1.55	0.485	0.104	4.64	1.62
CHRONIC ISCHEMIC HEART DISEASE	0.390	0.113	3.44	1.48	0.363	0.088	4.14	1.44
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.188	0.088	2.13	1.21
CHRONIC KIDNEY DISEASE, UNSPECIFIED	*	*	*	*	0.126	0.055	2.28	1.13
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	*	*	*	*	0.436	0.103	4.24	1.55
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.149	0.057	2.62	1.16	0.292	0.043	6.79	1.34
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.174	0.065	2.67	1.19	*	*	*	*
DECUBITIS ULCER	*	*	*	*	0.434	0.103	4.20	1.54

Pancreatitis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DO NOT RESUSCITATE STATUS	0.808	0.066	12.24	2.24	0.821	0.051	16.04	2.27
DYSPHAGIA	*	*	*	*	0.289	0.096	3.01	1.34
ENCEPHALOPATHY	*	*	*	*	0.336	0.089	3.76	1.40
END STAGE RENAL DISEASE	0.791	0.110	7.19	2.21	0.892	0.085	10.53	2.44
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.670	0.179	3.74	1.96	0.568	0.148	3.83	1.76
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.301	0.124	2.43	1.35	0.468	0.098	4.79	1.60
HYPERPOTASSEMIA	0.505	0.088	5.76	1.66	0.366	0.073	4.98	1.44
HYPOCALCEMIA	0.787	0.111	7.10	2.20	0.693	0.095	7.32	2.00
HYPOTENSION, UNSP OR NEC	0.499	0.101	4.92	1.65	0.404	0.084	4.79	1.50
LAPAROSCOPIC CHOLECYSTECTOMY	-1.004	0.095	-10.54	0.37	-0.841	0.069	-12.24	0.43
MALNUTRITION	0.271	0.064	4.23	1.31	0.467	0.051	9.26	1.60
OBESITY HYPOVENTILATION SYNDROME	0.801	0.288	2.78	2.23	0.745	0.242	3.08	2.11
OTHER ASCITES	1.119	0.079	14.16	3.06	1.012	0.067	15.06	2.75
OTHER CONVULSIONS	0.618	0.313	1.97	1.86	*	*	*	*
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.603	0.154	3.91	1.83
Palliative Care Risk Ragrdless of POA	4.269	0.068	62.44	71.45	3.957	0.069	57.04	52.33
PARALYTIC ILEUS	0.289	0.102	2.85	1.34	*	*	*	*
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.565	0.198	2.85	1.76	0.424	0.167	2.54	1.53
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.488	0.203	2.40	1.63	0.511	0.164	3.12	1.67
PULMONARY HYPERTENSION	*	*	*	*	0.218	0.078	2.79	1.24
SEPSIS	1.085	0.155	7.02	2.96	1.133	0.105	10.78	3.11
SEVERE SEPSIS	0.685	0.219	3.13	1.98	*	*	*	*
UNSPECIFIED INTESTINAL OBSTRUCTION	0.710	0.197	3.61	2.04	0.643	0.162	3.96	1.90
UNSPECIFIED PLEURAL EFFUSION	*	*	*	*	0.295	0.074	3.98	1.34

Pneumonia

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.307	0.025	12.23	1.36	0.282	0.018	15.38	1.33
AdmitSourceXferNonHospital	0.183	0.042	4.39	1.20	0.239	0.029	8.28	1.27
AdmitSourceXferSkilledNursing	0.170	0.019	8.84	1.19	0.345	0.013	26.05	1.41
Age70To74	0.351	0.023	15.47	1.42	0.367	0.016	22.89	1.44
Age75To79	0.481	0.022	22.11	1.62	0.511	0.015	33.28	1.67
Age80To84	0.647	0.021	30.80	1.91	0.682	0.015	45.77	1.98
Age85To89	0.743	0.021	35.35	2.10	0.842	0.015	56.52	2.32
Age90AndOver	0.915	0.021	43.00	2.50	1.118	0.015	74.33	3.06
PrimaryFacilityPresentOnAdmissionKnownPercent	*	*	*	*	-0.302	0.023	-12.99	0.74
SexFemale	-0.142	0.010	-14.03	0.87	-0.242	0.007	-34.48	0.79
ADULT FAILURE TO THRIVE	0.249	0.026	9.59	1.28	0.599	0.018	33.74	1.82
ACIDOSIS	0.654	0.021	31.77	1.92	0.469	0.017	28.29	1.60
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.483	0.017	27.86	1.62	0.514	0.013	41.13	1.67
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.600	0.033	18.37	1.82	0.471	0.026	18.03	1.60
ACUTE RENAL FAILURE	0.299	0.013	23.24	1.35	0.177	0.010	18.71	1.19
ACUTE RESPIRATORY FAILURE	0.937	0.013	75.14	2.55	0.623	0.010	64.22	1.86
ACUTE SYSTOLIC HEART FAILURE	*	*	*	*	0.198	0.020	10.10	1.22
ALTERED MENTAL STATUS	0.211	0.032	6.54	1.24	0.330	0.022	15.33	1.39
ALZHEIMER'S DISEASE	*	*	*	*	0.284	0.014	19.84	1.33
ANEMIA, UNSPECIFIED	*	*	*	*	0.066	0.009	7.50	1.07
AORTIC VALVE DISORDERS	*	*	*	*	0.049	0.017	2.92	1.05
ATRIAL FIBRILLATION	0.200	0.011	18.68	1.22	0.190	0.008	25.30	1.21
ATRIAL FLUTTER	0.142	0.034	4.20	1.15	0.106	0.025	4.29	1.11
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.155	0.020	7.71	1.17
CACHEXIA	0.504	0.030	16.82	1.66	0.559	0.023	24.51	1.75
CANDIDIASIS OF MOUTH	*	*	*	*	0.183	0.030	6.12	1.20
CARDIOMYOPATHY	0.216	0.022	9.78	1.24	0.075	0.017	4.56	1.08
CARDIOVASCULAR DISEASE, UNSPECIFIED	0.287	0.084	3.42	1.33	0.257	0.058	4.45	1.29
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.127	0.012	10.23	1.14	0.130	0.009	15.19	1.14
CHRONIC ISCHEMIC HEART DISEASE	0.144	0.025	5.71	1.16	0.063	0.018	3.45	1.07
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.148	0.019	7.78	1.16
CHRONIC KIDNEY DISEASE, STAGE V	*	*	*	*	0.316	0.060	5.25	1.37
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.152	0.015	9.86	1.16	0.161	0.011	14.68	1.17
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.477	0.054	8.91	1.61	0.601	0.038	15.88	1.82
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.276	0.011	25.86	1.32	0.282	0.008	37.09	1.33
DECUBITIS ULCER	0.282	0.021	13.54	1.33	0.565	0.015	37.33	1.76
DEHYDRATION	0.081	0.015	5.39	1.09	0.115	0.010	11.11	1.12
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE	*	*	*	*	0.117	0.044	2.64	1.12
DEMENCIA, UNSPECIFIED, WITH BEHAVIORAL DISTURBANCE	*	*	*	*	0.318	0.039	8.22	1.38
DEMENCIA, UNSPECIFIED, WITHOUT BEHAVIORAL DISTURBANCE	*	*	*	*	0.218	0.010	22.01	1.24

Pneumonia (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DEMENTIA WITH LEWY BODIES	*	*	*	*	0.178	0.036	4.96	1.20
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED	0.344	0.122	2.83	1.41	0.295	0.086	3.45	1.34
DO NOT RESUSCITATE STATUS	0.829	0.012	69.92	2.29	0.721	0.009	82.88	2.06
DYSPHAGIA	*	*	*	*	0.159	0.014	11.36	1.17
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED	0.174	0.057	3.07	1.19	0.157	0.040	3.90	1.17
END STAGE RENAL DISEASE	0.426	0.028	15.19	1.53	0.606	0.020	30.50	1.83
GASTROSTOMY STATUS	0.266	0.035	7.71	1.31	0.306	0.024	12.67	1.36
HEART FAILURE, UNSPECIFIED	0.535	0.121	4.43	1.71	0.394	0.090	4.37	1.48
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.452	0.046	9.73	1.57	0.393	0.036	10.91	1.48
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.661	0.025	26.09	1.94	0.894	0.019	48.23	2.44
HYPERPOTASSEMIA	0.431	0.021	20.13	1.54	0.404	0.016	25.26	1.50
HYOSMOLALITY AND/OR HYPONATREMIA	0.063	0.016	3.97	1.07	0.037	0.011	3.30	1.04
HYPOTENSION, UNSP OR NEC	0.342	0.022	15.41	1.41	0.259	0.016	15.75	1.30
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.907	0.027	33.99	2.48	1.225	0.019	65.55	3.40
MALNUTRITION	0.386	0.016	24.32	1.47	0.474	0.012	40.39	1.61
METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS	0.131	0.029	4.62	1.14	0.216	0.021	10.52	1.24
OTHER ALTERATION OF CONSCIOUSNESS	0.234	0.043	5.45	1.26	0.332	0.030	11.21	1.39
OTHER CONVULSIONS	0.300	0.067	4.49	1.35	0.261	0.047	5.57	1.30
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY	0.375	0.054	6.96	1.45	0.344	0.037	9.30	1.41
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.244	0.040	6.03	1.28	0.379	0.027	13.96	1.46
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	0.551	0.052	10.59	1.74	0.304	0.039	7.72	1.36
Palliative Care Risk Ragrdless of POA	3.365	0.015	229.51	28.94	3.042	0.015	199.36	20.94
PARALYSIS AGITANS	*	*	*	*	0.114	0.021	5.43	1.12
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.298	0.045	6.67	1.35	0.191	0.034	5.70	1.21
PATHOLOGIC FRACTURE OF VERTEBRAE	*	*	*	*	0.233	0.040	5.78	1.26
PNEUMONIA DUE TO PSEUDOMONAS	*	*	*	*	0.145	0.024	6.01	1.16
POSTINFLAMMATORY PULMONARY FIBROSIS	0.515	0.020	25.27	1.67	0.437	0.015	29.01	1.55
PRESSURE ULCER, STAGE III	*	*	*	*	0.127	0.034	3.75	1.14
PULMONARY HYPERTENSION	*	*	*	*	0.046	0.012	3.77	1.05
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.368	0.033	11.11	1.45
SEPSIS	0.579	0.072	8.09	1.78	0.436	0.057	7.66	1.55
SEPSIS	0.509	0.074	6.86	1.66	0.359	0.058	6.15	1.43
SEPTIC SHOCK	0.648	0.080	8.09	1.91	0.604	0.075	8.10	1.83
SEVERE SEPSIS	1.030	0.085	12.13	2.80	0.761	0.072	10.54	2.14
THROMBOCYTOPENIA, UNSPECIFIED	0.114	0.022	5.11	1.12	0.076	0.016	4.75	1.08
TRANSFUSION OF PACKED CELLS	1.092	0.019	58.35	2.98	0.719	0.015	46.60	2.05
UNSPECIFIED DISORDER OF KIDNEY AND URETER	0.138	0.028	5.03	1.15	0.128	0.019	6.86	1.14
UNSPECIFIED PLEURAL EFFUSION	0.230	0.017	13.43	1.26	0.291	0.012	24.09	1.34

Pneumonia (continued)

Factor List (ICD 9)	<i>In-Hospital Mortality</i>				<i>In-Hospital + 30-Day Mortality</i>			
	<i>Coefficient</i>	<i>Standard Error</i>	<i>Z-Stat</i>	<i>Odds Ratio</i>	<i>Coefficient</i>	<i>Standard Error</i>	<i>Z-Stat</i>	<i>Odds Ratio</i>
UNSPECIFIED PSYCHOSIS	*	*	*	*	0.139	0.033	4.18	1.15
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.080	0.015	5.35	1.08	0.161	0.010	15.90	1.18
VASCULAR DEMENTIA, UNCOMPLICATED	*	*	*	*	0.138	0.037	3.79	1.15

Pulmonary Embolism

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.389	0.052	7.44	1.48	0.286	0.043	6.69	1.33
AdmitSourceXferSkilledNursing	0.181	0.066	2.77	1.20	0.386	0.048	8.10	1.47
Age70To74	0.061	0.052	1.17	1.06	0.107	0.041	2.61	1.11
Age75To79	0.182	0.050	3.62	1.20	0.271	0.040	6.85	1.31
Age80To84	0.272	0.050	5.43	1.31	0.444	0.039	11.34	1.56
Age85To89	0.402	0.052	7.77	1.50	0.660	0.040	16.38	1.93
Age90AndOver	0.417	0.058	7.19	1.52	0.899	0.044	20.59	2.46
PrimaryFacilityPresentOnAdmissionKnownPercent	1.055	0.167	6.32	2.87	0.555	0.114	4.88	1.74
SexFemale	*	*	*	*	-0.150	0.022	-6.79	0.86
ACIDOSIS	0.936	0.051	18.23	2.55	0.708	0.046	15.54	2.03
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.451	0.069	6.58	1.57	0.433	0.054	7.99	1.54
ACUTE AND SUBACUTE NECROSIS OF LIVER	*	*	*	*	0.259	0.122	2.13	1.30
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.390	0.080	4.86	1.48	0.294	0.068	4.33	1.34
ACUTE RENAL FAILURE	0.437	0.037	11.73	1.55	0.280	0.030	9.30	1.32
ACUTE RESPIRATORY FAILURE	0.718	0.035	20.41	2.05	0.527	0.029	18.24	1.69
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY	0.134	0.052	2.60	1.14	0.126	0.040	3.17	1.13
ADULT FAILURE TO THRIVE	0.285	0.092	3.11	1.33	0.522	0.069	7.62	1.69
ALKALOSIS	*	*	*	*	0.286	0.099	2.88	1.33
ALTERED MENTAL STATUS	*	*	*	*	0.344	0.105	3.28	1.41
ANEMIA IN NEOPLASTIC DISEASE	*	*	*	*	0.514	0.115	4.45	1.67
ANOXIC BRAIN DAMAGE	1.505	0.120	12.55	4.50	1.404	0.114	12.32	4.07
ANTERIOR/LATERAL WALL AMI	1.672	0.174	9.59	5.32	1.315	0.159	8.25	3.72
ATRIAL FIBRILLATION	0.262	0.033	7.95	1.30	0.266	0.025	10.66	1.31
BACTERIAL PNEUMONIA	0.356	0.037	9.51	1.43	0.337	0.029	11.73	1.40
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.298	0.080	3.75	1.35
CACHEXIA	0.743	0.106	6.99	2.10	0.604	0.088	6.89	1.83
CARDIAC ARREST	2.701	0.073	36.79	14.90	2.404	0.071	33.89	11.07
CARDIOGENIC SHOCK	1.348	0.091	14.84	3.85	1.109	0.086	12.84	3.03
CELLULITIS AND ABSCESS OF LEG, EXCEPT FOOT	*	*	*	*	0.198	0.096	2.07	1.22
CEREBRAL ATHEROSCLEROSIS	*	*	*	*	0.343	0.117	2.93	1.41
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.124	0.038	3.24	1.13	0.187	0.029	6.41	1.21
CHRONIC BRONCHITIS	*	*	*	*	0.294	0.040	7.30	1.34
CHRONIC ISCHEMIC HEART DISEASE	*	*	*	*	0.193	0.058	3.33	1.21
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.179	0.049	3.67	1.20	0.157	0.038	4.17	1.17
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	*	*	*	*	0.481	0.133	3.62	1.62
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS	0.991	0.097	10.23	2.69	0.650	0.085	7.69	1.92
COMA	1.272	0.267	4.77	3.57	1.343	0.262	5.12	3.83
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.354	0.032	11.00	1.42	0.378	0.025	15.24	1.46
DECUBITIS ULCER	0.196	0.071	2.75	1.22	0.469	0.057	8.18	1.60

Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DEHYDRATION	0.272	0.053	5.13	1.31	0.278	0.041	6.72	1.32
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE	*	*	*	*	0.471	0.143	3.31	1.60
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	*	*	*	*	0.161	0.050	3.21	1.17
DEPENDENCE ON RESPIRATOR, STATUS	1.775	0.205	8.67	5.90	1.468	0.193	7.63	4.34
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.188	0.044	4.24	1.21
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.137	0.034	4.03	1.15	0.119	0.026	4.57	1.13
DIAB W UNSPECIFIED MANIFESTATIONS	*	*	*	*	0.308	0.113	2.73	1.36
DO NOT RESUSCITATE STATUS	0.717	0.039	18.60	2.05	0.690	0.030	23.12	2.00
DYSPHAGIA	*	*	*	*	0.168	0.053	3.18	1.18
ENCEPHALOPATHY	*	*	*	*	0.185	0.059	3.14	1.20
END STAGE RENAL DISEASE	0.755	0.100	7.59	2.13	0.748	0.081	9.22	2.11
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	0.412	0.121	3.41	1.51	0.348	0.105	3.31	1.42
GASTROSTOMY STATUS	*	*	*	*	0.327	0.115	2.83	1.39
HEART FAILURE, UNSPECIFIED	0.980	0.251	3.90	2.67	0.639	0.226	2.82	1.89
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.625	0.121	5.18	1.87	0.623	0.097	6.43	1.86
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.262	0.100	2.63	1.30	0.554	0.075	7.35	1.74
HYPERPOTASSEMIA	0.583	0.064	9.13	1.79	0.540	0.053	10.24	1.72
HYPOSMOLALITY AND/OR HYPONATREMIA	0.164	0.056	2.94	1.18	0.274	0.042	6.61	1.32
HYPOTENSION, UNSP OR NEC	0.731	0.051	14.35	2.08	0.545	0.043	12.77	1.73
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE	0.990	0.139	7.11	2.69	0.760	0.122	6.23	2.14
INSERTION OF OTHER (NASO-)GASTRIC TUBE	1.488	0.187	7.96	4.43	1.247	0.174	7.19	3.48
INTERMEDIATE CORONARY SYNDROME	0.400	0.203	1.98	1.49	*	*	*	*
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	*	*	*	*	0.297	0.092	3.23	1.35
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.727	0.079	9.19	2.07	1.161	0.055	20.97	3.19
MALIGNANT NEOPLASM OF PROSTATE	0.310	0.131	2.37	1.36	*	*	*	*
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG	*	*	*	*	0.714	0.123	5.81	2.04
MALNUTRITION	0.142	0.054	2.64	1.15	0.312	0.041	7.59	1.37
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	*	*	*	*	0.313	0.144	2.17	1.37
MIXED ACID-BASE BALANCE DISORDER	0.404	0.163	2.47	1.50	0.335	0.146	2.29	1.40
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.758	0.158	4.80	2.13	0.595	0.134	4.45	1.81
OTHER ASCITES	0.858	0.126	6.84	2.36	1.136	0.100	11.38	3.11
OTHER CONVULSIONS	0.565	0.156	3.62	1.76	0.383	0.131	2.92	1.47
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	0.442	0.145	3.05	1.56	0.649	0.104	6.25	1.91

Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.222	0.103	2.15	1.25
OTHER PULMONARY EMBOLISM AND INFARCTION	0.700	0.121	5.81	2.01	0.873	0.099	8.80	2.39
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	0.449	0.145	3.10	1.57	0.322	0.115	2.79	1.38
OTHER SECONDARY THROMBOCYTOPENIA	*	*	*	*	0.339	0.122	2.78	1.40
OTHER SHOCK WITHOUT MENTION OF TRAUMA	1.044	0.121	8.61	2.84	0.766	0.113	6.77	2.15
OTHER/UNSPEC PERIPH VASC DISEASE	*	*	*	*	0.105	0.047	2.22	1.11
Palliative Care Risk Ragrdless of POA	3.278	0.046	70.95	26.52	2.983	0.046	64.56	19.75
PARALYTIC ILEUS	0.576	0.180	3.20	1.78	0.340	0.155	2.20	1.41
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	1.521	0.151	10.05	4.58	1.045	0.140	7.48	2.84
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG	*	*	*	*	0.327	0.082	3.98	1.39
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.276	0.101	2.74	1.32	0.371	0.081	4.56	1.45
POSTINFLAMMATORY PULMONARY FIBROSIS	0.708	0.069	10.21	2.03	0.710	0.053	13.44	2.03
PRESSURE ULCER, STAGE III	*	*	*	*	0.349	0.117	2.98	1.42
PRESSURE ULCER, STAGE IV	*	*	*	*	0.493	0.172	2.87	1.64
SEPSIS	0.916	0.112	8.16	2.50	0.537	0.116	4.65	1.71
SEPTIC SHOCK	1.004	0.203	4.95	2.73	0.602	0.246	2.45	1.83
SEVERE SEPSIS	*	*	*	*	0.550	0.212	2.59	1.73
SHOCK, UNSPECIFIED	1.396	0.107	13.09	4.04	1.157	0.100	11.60	3.18
SWELLING, MASS, OR LUMP IN CHEST	*	*	*	*	0.238	0.087	2.74	1.27
SYSTEMIC LUPUS ERYTHEMATOSUS	*	*	*	*	0.346	0.162	2.14	1.41
TEMPORARY TRACHEOSTOMY	-0.994	0.220	-4.51	0.37	-0.959	0.201	-4.77	0.38
THORACENTESIS	*	*	*	*	0.251	0.068	3.69	1.29
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	1.376	0.173	7.96	3.96	0.996	0.156	6.40	2.71
UNSPECIFIED DISEASE OF PERICARDIUM	0.468	0.129	3.62	1.60	0.228	0.106	2.14	1.26
UNSPECIFIED DISORDER OF KIDNEY AND URETER	0.301	0.080	3.76	1.35	0.147	0.063	2.34	1.16
UNSPECIFIED INTESTINAL OBSTRUCTION	*	*	*	*	0.535	0.227	2.36	1.71
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.805	0.257	3.14	2.24	*	*	*	*

Respiratory Failure

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.343	0.018	18.99	1.41	0.249	0.016	15.35	1.28
AdmitSourceXferNonHospital	0.275	0.038	7.18	1.32	0.309	0.033	9.27	1.36
AdmitSourceXferSkilledNursing	0.085	0.021	3.96	1.09	0.312	0.018	17.29	1.37
Age70To74	0.271	0.017	15.77	1.31	0.302	0.015	20.81	1.35
Age75To79	0.462	0.017	26.75	1.59	0.491	0.015	33.59	1.63
Age80To84	0.669	0.018	38.10	1.95	0.685	0.015	45.80	1.98
Age85To89	0.818	0.019	43.72	2.27	0.851	0.016	53.07	2.34
Age90AndOver	1.047	0.021	49.98	2.85	1.091	0.018	59.92	2.98
PrimaryFacilityPresentOnAdmissionKnownPercent	1.000	0.063	15.84	2.72	0.659	0.050	13.20	1.93
SexFemale	-0.164	0.011	-15.58	0.85	-0.193	0.009	-21.63	0.82
ABNORMAL COAGULATION PROFILE	0.149	0.033	4.58	1.16	0.092	0.028	3.23	1.10
ACIDOSIS	0.294	0.014	21.25	1.34	0.214	0.012	17.51	1.24
ACUTE AND SUBACUTE NECROSIS OF LIVER	0.580	0.047	12.36	1.79	0.507	0.046	11.12	1.66
ACUTE COR PULMONALE	*	*	*	*	0.281	0.076	3.70	1.32
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.310	0.022	14.17	1.36	0.203	0.020	10.23	1.23
ACUTE PANCREATITIS	0.319	0.104	3.06	1.38	*	*	*	*
ACUTE RENAL FAILURE	0.306	0.013	24.49	1.36	0.206	0.011	18.47	1.23
ACUTE RESPIRATORY FAILURE	*	*	*	*	0.231	0.009	24.72	1.26
ADULT FAILURE TO THRIVE	0.341	0.033	10.26	1.41	0.567	0.029	19.62	1.76
ALTERED MENTAL STATUS	*	*	*	*	0.121	0.027	4.44	1.13
ALZHEIMER'S DISEASE	*	*	*	*	0.156	0.025	6.35	1.17
ANEMIA IN NEOPLASTIC DISEASE	*	*	*	*	0.288	0.075	3.87	1.33
ANOXIC BRAIN DAMAGE	1.814	0.026	70.78	6.14	1.620	0.026	63.61	5.05
ANTERIOR/LATERAL WALL AMI	1.408	0.052	27.00	4.09	1.189	0.051	23.37	3.28
ASTHMA	0.120	0.029	4.21	1.13	*	*	*	*
ATRIAL FIBRILLATION	0.182	0.011	16.44	1.20	0.247	0.010	26.14	1.28
BACTERIAL PNEUMONIA	0.280	0.011	24.87	1.32	0.221	0.010	22.87	1.25
CACHEXIA	0.330	0.032	10.47	1.39	0.430	0.027	15.67	1.54
CARDIAC ARREST	1.703	0.023	73.97	5.49	1.443	0.023	63.37	4.23
CARDIOGENIC SHOCK	1.163	0.032	36.03	3.20	0.930	0.031	29.65	2.53
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.420	0.013	31.62	1.52	0.386	0.012	33.34	1.47
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	*	*	*	*	0.051	0.024	2.10	1.05
CHRONIC KIDNEY DISEASE, STAGE V	0.250	0.084	3.00	1.28	0.283	0.073	3.86	1.33
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.158	0.016	9.63	1.17	0.168	0.014	11.77	1.18
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.496	0.055	9.07	1.64	0.401	0.049	8.16	1.49
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS	0.608	0.022	27.82	1.84	0.393	0.020	19.72	1.48
COMA	1.241	0.045	27.49	3.46	1.090	0.045	24.38	2.98
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.073	0.017	4.46	1.08	0.057	0.014	4.04	1.06
DECUBITIS ULCER	*	*	*	*	0.304	0.021	14.64	1.36
DEFIBRATION SYNDROME	1.417	0.126	11.28	4.12	1.182	0.124	9.53	3.26

Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DEHYDRATION	*	*	*	*	0.060	0.019	3.22	1.06
DEPENDENCE ON RESPIRATOR, STATUS	0.269	0.033	8.08	1.31	0.149	0.030	4.91	1.16
DO NOT RESUSCITATE STATUS	0.817	0.013	62.98	2.26	0.895	0.011	78.36	2.45
END STAGE RENAL DISEASE	0.410	0.025	16.55	1.51	0.346	0.022	15.99	1.41
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	0.207	0.024	8.47	1.23	0.081	0.022	3.65	1.08
GANGRENE	0.484	0.124	3.89	1.62	0.464	0.112	4.15	1.59
GASTROSTOMY STATUS	*	*	*	*	0.127	0.029	4.36	1.14
GRAND MAL STATUS	0.263	0.072	3.66	1.30	*	*	*	*
HEART FAILURE, UNSPECIFIED	0.480	0.118	4.08	1.62	0.372	0.106	3.51	1.45
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.666	0.039	17.32	1.95	0.523	0.036	14.61	1.69
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.136	0.026	5.32	1.15	0.258	0.022	11.50	1.30
HYPERPOTASSEMIA	0.178	0.018	10.05	1.20	0.221	0.016	14.29	1.25
HYPOTENSION, UNSP OR NEC	0.570	0.019	29.49	1.77	0.437	0.018	24.87	1.55
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE	0.954	0.036	26.71	2.60	0.681	0.034	20.26	1.98
INSERTION OF OTHER (NASO-)GASTRIC TUBE	0.420	0.040	10.45	1.52	0.252	0.037	6.79	1.29
MALIGNANT NEOPLASM OF BREAST (FEMALE), UNSPECIFIED	0.339	0.093	3.63	1.40	0.317	0.081	3.93	1.37
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.926	0.031	29.70	2.53	1.091	0.028	39.44	2.98
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED	0.632	0.126	5.02	1.88	0.547	0.115	4.76	1.73
MALIGNANT NEOPLASM OF PROSTATE	0.256	0.066	3.90	1.29	0.154	0.058	2.65	1.17
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG	0.316	0.072	4.39	1.37	0.588	0.060	9.77	1.80
MALNUTRITION	*	*	*	*	0.230	0.015	15.59	1.26
MIXED ACID-BASE BALANCE DISORDER	0.259	0.031	8.27	1.30	0.263	0.028	9.54	1.30
MULTIPLE MYELOMA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION	0.377	0.077	4.88	1.46	0.340	0.069	4.93	1.41
OTHER ALTERATION OF CONSCIOUSNESS	0.107	0.042	2.54	1.11	0.156	0.037	4.26	1.17
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.814	0.057	14.30	2.26	0.615	0.054	11.45	1.85
OTHER ASCITES	0.636	0.055	11.59	1.89	0.617	0.050	12.32	1.85
OTHER EMPHYSEMA	0.274	0.040	6.86	1.32	0.228	0.035	6.50	1.26
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	0.580	0.071	8.15	1.79	0.440	0.064	6.87	1.55
OTHER PERMANENT TRACHEOSTOMY	-0.867	0.097	-8.92	0.42	-0.777	0.083	-9.42	0.46
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.198	0.053	3.72	1.22	0.268	0.045	5.98	1.31
OTHER PULMONARY EMBOLISM AND INFARCTION	0.620	0.038	16.36	1.86	0.487	0.035	14.05	1.63
OTHER SHOCK WITHOUT MENTION OF TRAUMA	0.878	0.046	19.27	2.41	0.646	0.044	14.85	1.91
Palliative Care Risk Ragrdless of POA	3.088	0.015	208.39	21.93	3.001	0.016	184.66	20.10
PARALYTIC ILEUS	0.173	0.067	2.60	1.19	*	*	*	*
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	0.722	0.048	14.99	2.06	0.606	0.045	13.57	1.83
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.082	0.035	2.32	1.09	*	*	*	*

Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG	*	*	*	*	0.111	0.030	3.75	1.12
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.289	0.018	16.09	1.34	0.263	0.016	16.26	1.30
POSTINFLAMMATORY PULMONARY FIBROSIS	0.431	0.021	20.97	1.54	0.539	0.018	30.69	1.72
PRESSURE ULCER, STAGE III	*	*	*	*	0.102	0.048	2.11	1.11
PULMONARY HYPERTENSION	*	*	*	*	0.027	0.012	2.26	1.03
RENAL FAILURE, UNSPECIFIED	1.508	0.106	14.28	4.52	1.383	0.101	13.68	3.99
SARCOIDOSIS	0.252	0.080	3.16	1.29	0.239	0.068	3.53	1.27
SEPSIS	0.641	0.037	17.49	1.90	0.518	0.034	15.46	1.68
SEPTIC SHOCK	0.683	0.071	9.66	1.98	0.598	0.068	8.86	1.82
SEVERE SEPSIS	0.176	0.065	2.71	1.19	0.129	0.061	2.13	1.14
SHOCK, UNSPECIFIED	1.078	0.038	28.19	2.94	0.856	0.037	23.15	2.35
TEMPORARY TRACHEOSTOMY	-0.981	0.037	-26.61	0.38	-0.826	0.032	-26.19	0.44
THORACENTESIS	-0.257	0.032	-8.06	0.77	-0.165	0.027	-6.05	0.85
THROMBOCYTOPENIA, UNSPECIFIED	0.085	0.022	3.82	1.09	0.132	0.019	6.86	1.14
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	1.088	0.046	23.93	2.97	0.850	0.043	19.59	2.34
UNSPECIFIED DISORDER OF KIDNEY AND URETER	0.108	0.035	3.11	1.11	0.097	0.030	3.28	1.10
UNSPECIFIED INTESTINAL OBSTRUCTION	0.928	0.098	9.52	2.53	0.737	0.093	7.91	2.09
UNSPECIFIED PLEURAL EFFUSION	0.096	0.023	4.17	1.10	0.162	0.020	8.11	1.18
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.910	0.103	8.85	2.48	0.814	0.097	8.40	2.26
VENTRICULAR FIBRILLATION	0.880	0.057	15.56	2.41	0.785	0.056	14.08	2.19

Sepsis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.139	0.011	12.43	1.15	0.134	0.010	13.01	1.14
AdmitSourceXferNonHospital	0.113	0.020	5.71	1.12	0.178	0.018	10.21	1.20
AdmitSourceXferSkilledNursing	0.061	0.009	6.86	1.06	0.234	0.008	30.37	1.26
Age70To74	0.262	0.010	25.50	1.30	0.296	0.009	32.27	1.35
Age75To79	0.425	0.010	42.27	1.53	0.476	0.009	53.16	1.61
Age80To84	0.574	0.010	58.10	1.78	0.667	0.009	75.85	1.95
Age85To89	0.710	0.010	70.86	2.03	0.860	0.009	96.51	2.36
Age90AndOver	0.909	0.011	86.64	2.48	1.147	0.009	123.28	3.15
PrimaryFacilityPresentOnAdmissionKnownPercent	0.647	0.035	18.56	1.91	0.432	0.029	14.90	1.54
SexFemale	0.028	0.006	5.10	1.03	-0.031	0.005	-6.44	0.97
ABNORMAL COAGULATION PROFILE	0.141	0.016	8.94	1.15	0.146	0.014	10.32	1.16
ACIDOSIS	0.505	0.007	75.31	1.66	0.396	0.006	63.81	1.49
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.322	0.011	28.34	1.38	0.350	0.010	34.57	1.42
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS	0.630	0.030	20.81	1.88	0.612	0.027	22.70	1.84
ACUTE AND SUBACUTE NECROSIS OF LIVER	0.685	0.016	41.98	1.98	0.661	0.016	41.41	1.94
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.199	0.011	18.04	1.22	0.216	0.010	21.24	1.24
ACUTE PANCREATITIS	0.173	0.024	7.34	1.19	*	*	*	*
ACUTE RENAL FAILURE	0.181	0.006	30.41	1.20	0.170	0.005	32.01	1.19
ACUTE RESPIRATORY FAILURE	0.834	0.007	126.94	2.30	0.704	0.006	116.26	2.02
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	1.158	0.026	43.89	3.19	0.984	0.026	38.14	2.68
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY	0.094	0.036	2.62	1.10	0.209	0.032	6.55	1.23
ADULT FAILURE TO THRIVE	0.199	0.014	14.33	1.22	0.445	0.012	36.90	1.56
ALTERED MENTAL STATUS	0.163	0.018	9.04	1.18	0.234	0.016	15.05	1.26
ALZHEIMER'S DISEASE	*	*	*	*	0.097	0.009	10.56	1.10
ANEMIA IN NEOPLASTIC DISEASE	*	*	*	*	0.415	0.036	11.69	1.51
ANOXIC BRAIN DAMAGE	0.713	0.025	28.83	2.04	0.670	0.024	27.88	1.96
ANTERIOR/LATERAL WALL AMI	1.196	0.030	40.46	3.31	1.098	0.029	37.87	3.00
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.139	0.035	3.97	1.15	0.128	0.031	4.15	1.14
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE	0.338	0.035	9.67	1.40	0.358	0.031	11.72	1.43
ATRIAL FIBRILLATION	0.153	0.006	25.95	1.17	0.171	0.005	32.93	1.19
BACTERIAL PNEUMONIA	0.104	0.006	17.30	1.11	0.122	0.005	23.23	1.13
BODY MASS INDEX LESS THAN 19, ADULT	0.073	0.016	4.67	1.08	0.190	0.014	13.63	1.21
CACHEXIA	0.462	0.017	27.89	1.59	0.489	0.015	32.35	1.63
CARDIAC ARREST	1.993	0.023	85.02	7.34	1.865	0.024	77.69	6.46
CARDIOGENIC SHOCK	0.660	0.021	30.84	1.94	0.614	0.021	28.78	1.85
CARDIOMYOPATHY	0.122	0.012	10.50	1.13	0.113	0.011	10.85	1.12
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.167	0.007	23.51	1.18	0.170	0.006	27.22	1.19
CHRONIC ISCHEMIC HEART DISEASE	*	*	*	*	0.060	0.013	4.79	1.06
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.074	0.014	5.17	1.08	0.148	0.013	11.87	1.16

Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC KIDNEY DISEASE, STAGE V	0.423	0.041	10.43	1.53	0.509	0.037	13.89	1.66
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.132	0.008	15.96	1.14	0.144	0.007	19.73	1.16
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.543	0.021	25.35	1.72	0.612	0.020	31.34	1.84
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS	0.396	0.015	26.25	1.49	0.295	0.014	20.69	1.34
COMA	1.106	0.036	30.93	3.02	1.055	0.036	29.11	2.87
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.088	0.006	14.54	1.09	0.141	0.005	26.18	1.15
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.043	0.009	4.73	1.04	0.031	0.008	3.80	1.03
DECUBITIS ULCER	0.106	0.009	12.22	1.11	0.314	0.008	38.81	1.37
DEFIBRATION SYNDROME	1.156	0.025	47.12	3.18	1.073	0.024	44.14	2.92
DEPENDENCE ON RESPIRATOR, STATUS	0.258	0.019	13.68	1.30	0.158	0.018	8.92	1.17
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	*	*	*	*	0.012	0.006	2.09	1.01
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.149	0.038	3.91	1.16	*	*	*	*
DIABETES WITH KETOACIDOSIS, TYPE I [JUVENILE TYPE], UNCONTROLLED	0.395	0.052	7.64	1.48	0.332	0.048	6.93	1.39
DO NOT RESUSCITATE STATUS	0.755	0.007	115.27	2.13	0.790	0.006	135.02	2.20
END STAGE RENAL DISEASE	0.862	0.012	72.89	2.37	0.910	0.011	84.75	2.49
GANGRENE	0.444	0.026	17.30	1.56	0.474	0.023	20.81	1.61
GASTROSTOMY STATUS	*	*	*	*	0.036	0.012	2.98	1.04
GRAND MAL STATUS	0.235	0.065	3.62	1.27	0.144	0.062	2.33	1.16
HEMOPTYSIS, UNSPECIFIED	0.329	0.064	5.15	1.39	0.171	0.059	2.88	1.19
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.487	0.017	29.04	1.63	0.461	0.016	29.55	1.59
HYPEROSMOLALITY AND/OR HYPERNATREMIA	*	*	*	*	0.313	0.009	36.91	1.37
HYPERPOTASSEMIA	0.320	0.009	35.22	1.38	0.330	0.008	39.66	1.39
HYPOTENSION, UNSP OR NEC	0.243	0.012	20.15	1.28	0.205	0.011	19.48	1.23
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE	0.697	0.023	30.91	2.01	0.503	0.022	23.23	1.65
INSERTION OF OTHER (NASO-)GASTRIC TUBE	0.512	0.023	22.63	1.67	0.457	0.022	21.06	1.58
INTERMEDIATE CORONARY SYNDROME	0.318	0.051	6.21	1.38	0.231	0.047	4.92	1.26
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	0.240	0.011	22.06	1.27	0.226	0.010	23.11	1.25
MALIGNANT NEOPLASM OF BREAST (FEMALE), UNSPECIFIED	0.183	0.049	3.71	1.20	0.116	0.044	2.62	1.12
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.912	0.023	40.34	2.49	0.999	0.021	48.22	2.72
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED	0.518	0.052	10.01	1.68	0.583	0.047	12.44	1.79
MALIGNANT NEOPLASM OF PROSTATE	0.060	0.030	2.02	1.06	0.057	0.026	2.21	1.06
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG	0.462	0.054	8.54	1.59	0.585	0.048	12.15	1.80
MALNUTRITION	*	*	*	*	0.160	0.006	24.91	1.17
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA	0.989	0.018	54.08	2.69	0.923	0.016	58.48	2.52

Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA	0.895	0.021	42.94	2.45	0.786	0.018	43.46	2.20
MIXED ACID-BASE BALANCE DISORDER	0.601	0.020	29.45	1.83	0.506	0.020	25.58	1.66
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.627	0.021	30.00	1.87	0.551	0.020	27.58	1.74
OTHER ASCITES	0.737	0.018	40.55	2.09	0.797	0.017	46.73	2.22
OTHER CONVULSIONS	0.076	0.029	2.60	1.08	0.082	0.026	3.15	1.09
OTHER EMPHYSEMA	0.119	0.026	4.55	1.13	0.072	0.023	3.07	1.07
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	0.553	0.027	20.14	1.74	0.508	0.025	20.43	1.66
OTHER PERMANENT TRACHEOSTOMY	-0.580	0.065	-8.93	0.56	-0.700	0.061	-11.50	0.50
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.204	0.022	9.46	1.23	0.298	0.018	16.16	1.35
OTHER PULMONARY EMBOLISM AND INFARCTION	0.460	0.026	17.44	1.58	0.390	0.024	15.99	1.48
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED	0.464	0.035	13.32	1.59	0.406	0.031	12.99	1.50
OTHER SHOCK WITHOUT MENTION OF TRAUMA	0.098	0.024	4.07	1.10	0.077	0.023	3.41	1.08
OTHER SPECIFIED SEPTICEMIAS	0.809	0.024	34.48	2.25	0.683	0.021	33.42	1.98
OTHER STAPHYLOCOCCAL SEPTICEMIA	0.457	0.030	15.06	1.58	0.502	0.025	20.25	1.65
OTHER/UNSPEC PERIPH VASC DISEASE	0.045	0.010	4.43	1.05	0.065	0.009	7.30	1.07
Palliative Care Risk Ragrdless of POA	2.681	0.008	331.27	14.61	2.785	0.009	310.40	16.19
PARALYTIC ILEUS	0.258	0.021	12.55	1.29	0.177	0.019	9.29	1.19
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES	0.389	0.017	22.62	1.48	0.307	0.016	18.95	1.36
PAROXYSMAL VENTRICULAR TACHYCARDIA	0.060	0.022	2.74	1.06	0.043	0.020	2.16	1.04
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG	*	*	*	*	0.060	0.024	2.48	1.06
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.077	0.008	9.20	1.08	0.256	0.007	34.37	1.29
POSTINFLAMMATORY PULMONARY FIBROSIS	0.330	0.018	18.87	1.39	0.308	0.016	19.62	1.36
PRESSURE ULCER, STAGE III	*	*	*	*	0.082	0.015	5.62	1.09
PRESSURE ULCER, STAGE IV	0.104	0.017	6.21	1.11	0.099	0.014	6.89	1.10
PULMONARY CONGESTION AND HYPOSTASIS	0.105	0.041	2.59	1.11	0.089	0.037	2.37	1.09
RENAL FAILURE, UNSPECIFIED	1.398	0.054	26.04	4.05	1.238	0.051	24.31	3.45
SENILE DEMENTIA, UNCOMPLICATED	*	*	*	*	0.083	0.024	3.43	1.09
SEPTICEMIA DUE TO ANAEROBES	0.742	0.028	26.24	2.10	0.578	0.025	22.86	1.78
SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED	0.993	0.024	40.74	2.70	0.766	0.022	34.99	2.15
SEPTICEMIA DUE TO PSEUDOMONAS	0.452	0.029	15.52	1.57	0.401	0.025	16.38	1.49
SEPTICEMIA DUE TO SERRATIA	0.473	0.085	5.57	1.60	0.369	0.074	5.01	1.45
SEPTIC SHOCK	0.822	0.007	121.07	2.28	0.679	0.006	108.24	1.97
SEVERE SEPSIS	0.489	0.007	72.29	1.63	0.306	0.006	51.85	1.36
SHOCK, UNSPECIFIED	0.854	0.034	24.79	2.35	0.690	0.033	20.79	1.99
STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED	0.836	0.043	19.63	2.31	0.801	0.036	22.13	2.23
SYSTEMIC LUPUS ERYTHEMATOSUS	0.120	0.041	2.95	1.13	0.090	0.036	2.46	1.09
TEMPORARY TRACHEOSTOMY	-0.973	0.025	-39.67	0.38	-1.013	0.023	-44.52	0.36
THORACENTESIS	-0.247	0.018	-13.74	0.78	-0.167	0.016	-10.37	0.85

Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
THROMBOCYTOPENIA, UNSPECIFIED	0.058	0.010	5.94	1.06	0.061	0.009	6.95	1.06
ULCER OF OTHER PART OF LOWER LIMB	0.133	0.033	4.09	1.14	0.170	0.028	6.02	1.19
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	0.658	0.027	24.70	1.93	0.737	0.025	30.04	2.09
UNSPECIFIED DISEASE OF PERICARDIUM	0.218	0.037	5.97	1.24	0.151	0.034	4.52	1.16
UNSPECIFIED DISORDER OF KIDNEY AND URETER	*	*	*	*	0.046	0.016	2.86	1.05
UNSPECIFIED INTESTINAL OBSTRUCTION	0.829	0.025	33.23	2.29	0.666	0.024	27.81	1.95
UNSPECIFIED PLEURAL EFFUSION	0.091	0.013	7.19	1.10	0.124	0.011	10.89	1.13
UNSPECIFIED SEPTICEMIA	0.838	0.009	94.19	2.31	0.685	0.007	92.91	1.99
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.973	0.022	44.91	2.65	0.839	0.021	39.81	2.32
VENTRICULAR FIBRILLATION	0.897	0.061	14.80	2.45	0.821	0.060	13.68	2.27

Small Intestine Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.107	0.052	2.08	1.11	0.105	0.046	2.28	1.11
AdmitSourceXferSkilledNursing	0.450	0.073	6.17	1.57	0.534	0.062	8.58	1.71
Age70To74	0.256	0.051	5.01	1.29	0.306	0.046	6.65	1.36
Age75To79	0.376	0.051	7.42	1.46	0.523	0.045	11.60	1.69
Age80To84	0.610	0.050	12.31	1.84	0.804	0.044	18.18	2.24
Age85To89	0.838	0.051	16.35	2.31	1.120	0.045	24.65	3.06
Age90AndOver	1.026	0.057	17.91	2.79	1.491	0.050	29.97	4.44
PrimaryFacilityPresentOnAdmissionKnownPercent	1.459	0.181	8.05	4.30	1.293	0.151	8.54	3.65
SexFemale	-0.082	0.029	-2.85	0.92	-0.124	0.025	-4.91	0.88
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.253	0.089	2.85	1.29	0.171	0.080	2.15	1.19
ACIDOSIS	0.580	0.045	13.00	1.79	0.505	0.042	12.19	1.66
ACUTE AND CHRONIC RESPIRATORY FAILURE	0.378	0.133	2.84	1.46	0.487	0.116	4.19	1.63
ACUTE AND SUBACUTE NECROSIS OF LIVER	1.196	0.145	8.24	3.31	1.194	0.148	8.09	3.30
ACUTE DIASTOLIC HEART FAILURE	0.276	0.131	2.10	1.32	*	*	*	*
ACUTE PANCREATITIS	0.462	0.137	3.37	1.59	*	*	*	*
ACUTE RENAL FAILURE	0.213	0.036	5.85	1.24	0.249	0.032	7.74	1.28
ACUTE RESPIRATORY FAILURE	0.557	0.066	8.46	1.75	0.604	0.061	9.89	1.83
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	0.532	0.037	14.49	1.70	0.494	0.033	14.80	1.64
ADULT FAILURE TO THRIVE	*	*	*	*	0.244	0.075	3.27	1.28
ALCOHOLIC CIRRHOSIS OF LIVER	0.635	0.179	3.54	1.89	0.939	0.156	6.01	2.56
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.436	0.161	2.72	1.55	0.467	0.144	3.24	1.60
ATRIAL FIBRILLATION	0.290	0.033	8.92	1.34	0.328	0.028	11.63	1.39
BACTERIAL PNEUMONIA	0.242	0.066	3.67	1.27	0.223	0.058	3.81	1.25
BODY MASS INDEX LESS THAN 19, ADULT	*	*	*	*	0.276	0.060	4.63	1.32
CACHEXIA	0.369	0.091	4.04	1.45	0.338	0.081	4.19	1.40
CARDIOMYOPATHY	0.236	0.067	3.51	1.27	0.310	0.058	5.32	1.36
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.321	0.037	8.63	1.38	0.332	0.033	10.17	1.39
CHRONIC BRONCHITIS	0.586	0.088	6.66	1.80	0.559	0.078	7.15	1.75
CHRONIC ISCHEMIC HEART DISEASE	0.169	0.080	2.12	1.18	0.152	0.071	2.15	1.17
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.470	0.086	5.49	1.60	0.508	0.076	6.66	1.66
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.255	0.051	5.04	1.29	0.276	0.044	6.26	1.32
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE	0.540	0.101	5.36	1.72	0.490	0.093	5.28	1.63
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.700	0.118	5.96	2.02	0.889	0.103	8.60	2.43
CLOSURE OF FISTULA OF SMALL INTESTINE, EXCEPT DUODENUM	*	*	*	*	-0.210	0.099	-2.12	0.81
CLOSURE OF STOMA OF SMALL INTESTINE	-0.560	0.073	-7.67	0.57	-0.697	0.062	-11.18	0.50
Colon Resection and Anastomosis - High Mortality	0.824	0.095	8.63	2.28	0.679	0.091	7.49	1.97
Colon Resection and Anastomosis - Moderate Mortality	0.327	0.056	5.88	1.39	0.243	0.052	4.72	1.28
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.261	0.039	6.72	1.30	0.301	0.033	9.00	1.35
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.099	0.037	2.71	1.10	0.121	0.032	3.81	1.13

Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.232	0.049	4.72	1.26	0.200	0.043	4.65	1.22
DECUBITIS ULCER	*	*	*	*	0.180	0.069	2.61	1.20
DEFIBRATION SYNDROME	1.150	0.185	6.23	3.16	1.075	0.185	5.81	2.93
ENCEPHALOPATHY	*	*	*	*	0.162	0.070	2.33	1.18
END STAGE RENAL DISEASE	0.807	0.159	5.08	2.24	0.895	0.146	6.15	2.45
Exteriorization of Small Intestine	0.477	0.084	5.71	1.61	0.403	0.073	5.50	1.50
Gastric Resection and Anastomosis - High Mortality	0.454	0.074	6.18	1.57	0.483	0.067	7.26	1.62
GLUCOCORTICOID DEFICIENCY	*	*	*	*	0.349	0.142	2.46	1.42
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.277	0.111	2.50	1.32	0.304	0.096	3.16	1.36
HERNIA OF OTHER SPECIFIED SITES, WITH GANGRENE	0.303	0.142	2.13	1.35	*	*	*	*
HYPERPOTASSEMIA	0.207	0.073	2.84	1.23	0.170	0.065	2.60	1.19
Ileostomies	0.488	0.104	4.70	1.63	0.491	0.095	5.16	1.63
INCISIONAL HERNIA WITH OBSTRUCTION	0.186	0.079	2.37	1.21	*	*	*	*
Incisions of Small Intestine	0.228	0.096	2.37	1.26	*	*	*	*
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE	0.271	0.106	2.57	1.31	0.246	0.094	2.60	1.28
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.489	0.180	2.72	1.63	0.746	0.152	4.90	2.11
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED	*	*	*	*	0.335	0.136	2.46	1.40
MALNUTRITION	0.082	0.035	2.37	1.09	0.156	0.031	5.08	1.17
NON-MALIG HYPERTEN & REN W/O CHF OR FAIL	0.552	0.237	2.33	1.74	*	*	*	*
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.438	0.162	2.70	1.55	0.487	0.149	3.27	1.63
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.810	0.123	6.57	2.25	0.706	0.117	6.02	2.03
Other Colon Procedures - High Mortality	0.404	0.122	3.31	1.50	0.305	0.115	2.66	1.36
Other Colon Procedures - Low Mortality	0.541	0.150	3.60	1.72	0.399	0.142	2.80	1.49
OTHER EMPHYSEMA	*	*	*	*	0.268	0.105	2.57	1.31
Other Enterostomies	0.771	0.064	11.96	2.16	0.924	0.055	16.89	2.52
OTHER LAPAROTOMY	0.399	0.104	3.84	1.49	0.365	0.096	3.81	1.44
Other Repair of Small Intestine	0.569	0.166	3.43	1.77	*	*	*	*
OTHER SPECIFIED DISORDERS OF PERITONEUM	0.324	0.103	3.15	1.38	0.311	0.094	3.31	1.37
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM	*	*	*	*	0.519	0.196	2.65	1.68
OTHER SPECIFIED PERITONITIS	0.276	0.103	2.67	1.32	*	*	*	*
Other Stomach Procedures - High Mortality	0.590	0.253	2.33	1.80	0.494	0.228	2.17	1.64
Other Stomach Procedures - Moderate Mortality	0.875	0.265	3.30	2.40	0.545	0.260	2.10	1.72
OTHER/UNSPEC PERIPH VASC DISEASE	0.277	0.055	5.03	1.32	0.298	0.049	6.15	1.35
OTHER VENTRAL HERNIA WITH OBSTRUCTION	0.363	0.156	2.32	1.44	*	*	*	*
Palliative Care Risk Ragrdless of POA	3.007	0.043	70.39	20.23	3.491	0.048	72.39	32.81
PAROXYSMAL VENTRICULAR TACHYCARDIA	*	*	*	*	0.252	0.119	2.12	1.29

Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PERCUTANEOUS [ENDOSCOPIC] JEJUNOSTOMY [PEJ]	-1.258	0.108	-11.62	0.28	-0.501	0.073	-6.88	0.61
PERFORATION OF INTESTINE	0.419	0.044	9.48	1.52	0.466	0.040	11.68	1.59
POSTINFLAMMATORY PULMONARY FIBROSIS	0.669	0.111	6.04	1.95	0.600	0.099	6.03	1.82
PRESSURE ULCER, STAGE III	0.404	0.161	2.51	1.50	0.324	0.145	2.23	1.38
PULMONARY HYPERTENSION	0.194	0.066	2.95	1.21	0.185	0.058	3.18	1.20
Rectal Resection and Anostomosis	-0.397	0.149	-2.67	0.67	-0.594	0.134	-4.44	0.55
Resection or Removal of Small Intestine	0.543	0.047	11.58	1.72	0.266	0.039	6.87	1.31
SEPSIS	0.524	0.048	10.82	1.69	0.512	0.043	11.79	1.67
SEPTIC SHOCK	0.546	0.063	8.72	1.73	0.469	0.059	7.98	1.60
SMALL-TO-SMALL INTESTINAL ANASTOMOSIS	0.604	0.140	4.33	1.83	0.351	0.125	2.81	1.42
Stoma - High Mortality	0.618	0.061	10.15	1.86	0.734	0.056	13.18	2.08
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM	0.632	0.059	10.74	1.88	0.451	0.054	8.40	1.57
THROMBOCYTOPENIA, UNSPECIFIED	0.190	0.069	2.76	1.21	0.183	0.062	2.95	1.20
UNSPECIFIED INTESTINAL OBSTRUCTION	0.136	0.044	3.11	1.15	0.099	0.039	2.54	1.10
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	0.367	0.046	8.04	1.44	0.371	0.041	9.03	1.45

Stroke

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	-0.080	0.020	-4.11	0.92	-0.043	0.016	-2.73	0.96
AdmitSourceXferNonHospital	*	*	*	*	0.156	0.036	4.39	1.17
AdmitSourceXferSkilledNursing	-0.245	0.035	-6.96	0.78	0.422	0.023	18.27	1.53
Age70To74	0.186	0.026	7.26	1.21	0.271	0.021	13.01	1.31
Age75To79	0.317	0.025	12.75	1.37	0.471	0.020	23.53	1.60
Age80To84	0.455	0.024	18.75	1.58	0.719	0.019	37.19	2.05
Age85To89	0.474	0.025	19.09	1.61	0.942	0.019	48.45	2.57
Age90AndOver	0.536	0.026	20.35	1.71	1.320	0.020	65.86	3.74
PrimaryFacilityPresentOnAdmissionKnownPercent	0.495	0.071	7.02	1.64	-0.122	0.045	-2.72	0.89
SexFemale	-0.142	0.013	-10.75	0.87	-0.134	0.010	-13.49	0.88
ACIDOSIS	0.448	0.038	11.94	1.57	0.344	0.032	10.91	1.41
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.664	0.035	18.88	1.94	0.655	0.028	23.67	1.92
ACUTE RENAL FAILURE	0.171	0.021	8.17	1.19	0.124	0.016	7.75	1.13
ACUTE RESPIRATORY FAILURE	1.968	0.020	100.55	7.16	1.470	0.018	80.25	4.35
ALTERED MENTAL STATUS	0.165	0.041	4.03	1.18	0.332	0.030	11.26	1.39
ALZHEIMER'S DISEASE	*	*	*	*	0.240	0.020	12.02	1.27
ANTERIOR/LATERAL WALL AMI	1.436	0.078	18.37	4.20	1.147	0.069	16.59	3.15
ATRIAL FIBRILLATION	0.396	0.014	29.38	1.49	0.366	0.010	36.86	1.44
BACTERIAL PNEUMONIA	0.419	0.030	14.02	1.52	0.490	0.023	21.26	1.63
BODY MASS INDEX LESS THAN 19, ADULT	0.250	0.053	4.76	1.29	0.288	0.039	7.38	1.33
CARDIAC PACEMAKER IN SITU	0.100	0.024	4.20	1.11	0.064	0.018	3.65	1.07
CARDIOMYOPATHY	0.132	0.030	4.39	1.14	0.078	0.023	3.42	1.08
CARDIOVASCULAR DISEASE, UNSPECIFIED	0.415	0.127	3.28	1.52	0.343	0.090	3.83	1.41
CEREBRAL EDEMA	0.415	0.022	18.97	1.52	0.279	0.019	14.51	1.32
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION	0.360	0.038	9.45	1.43	0.269	0.030	9.07	1.31
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.204	0.019	10.62	1.23	0.231	0.014	16.20	1.26
CHRONIC BRONCHITIS	*	*	*	*	0.123	0.042	2.93	1.13
CHRONIC ISCHEMIC HEART DISEASE	*	*	*	*	0.086	0.027	3.25	1.09
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.115	0.044	2.59	1.12	0.194	0.032	6.09	1.21
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.177	0.023	7.55	1.19	0.141	0.017	8.21	1.15
CLIPPING OF ANEURYSM	-0.322	0.102	-3.16	0.73	-0.361	0.096	-3.78	0.70
COMA	1.979	0.036	55.00	7.24	2.096	0.037	56.41	8.13
COMPRESSION OF BRAIN	1.240	0.034	36.31	3.46	1.005	0.033	30.92	2.73
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.257	0.016	15.90	1.29	0.305	0.012	25.39	1.36
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.052	0.016	3.22	1.05	*	*	*	*
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.121	0.021	5.77	1.13	0.057	0.015	3.77	1.06
DECUBITIS ULCER	0.179	0.039	4.64	1.20	0.452	0.028	16.27	1.57
DEHYDRATION	*	*	*	*	0.135	0.020	6.90	1.15

Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.071	0.015	4.84	1.07	0.089	0.011	8.25	1.09
DO NOT RESUSCITATE STATUS	0.618	0.016	38.43	1.86	0.814	0.012	67.87	2.26
DYSPHAGIA	*	*	*	*	0.121	0.012	10.42	1.13
ENCEPHALOPATHY	*	*	*	*	0.181	0.015	11.76	1.20
ENDOVASCULAR EMBOLIZATION OR OCCLUSION OF VESSEL(S) OF HEAD OR NECK USING BARE COILS	-0.618	0.093	-6.62	0.54	-0.710	0.088	-8.05	0.49
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S)	0.618	0.046	13.43	1.86	0.346	0.040	8.62	1.41
ENDOVASCULAR (TOTAL) EMBOLIZATION OR OCCLUSION OF HEAD AND NECK VESSELS	-0.421	0.089	-4.73	0.66	-0.530	0.084	-6.29	0.59
END STAGE RENAL DISEASE	0.908	0.042	21.54	2.48	0.913	0.065	13.96	2.49
FLACCID HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.901	0.044	20.67	2.46	1.086	0.035	31.37	2.96
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.623	0.073	8.57	1.86	0.526	0.058	9.06	1.69
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.370	0.036	10.40	1.45	0.554	0.028	19.84	1.74
HYPERPOTASSEMIA	0.212	0.044	4.85	1.24	0.217	0.033	6.64	1.24
HYPOTENSION, UNSP OR NEC	0.382	0.042	9.07	1.47	0.216	0.034	6.29	1.24
HYPOXEMIA	0.291	0.052	5.60	1.34	0.172	0.041	4.18	1.19
INSERTION OF ONE VASCULAR STENT	0.294	0.082	3.61	1.34	*	*	*	*
INTRACEREBRAL HEMORRHAGE	0.725	0.017	42.09	2.06	0.493	0.014	35.06	1.64
LATE EFFECT OF CEREBROVASCULAR DISEASE, APHASIA	*	*	*	*	0.136	0.042	3.22	1.15
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	*	*	*	*	0.270	0.027	10.20	1.31
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.774	0.079	9.80	2.17	1.160	0.057	20.23	3.19
MALNUTRITION	*	*	*	*	0.303	0.021	14.21	1.35
NON-MALIGNANT RENAL DISEASE WITH FAILURE	*	*	*	*	0.224	0.068	3.32	1.25
OBSTRUCTIVE HYDROCEPHALUS	0.707	0.034	20.89	2.03	0.598	0.031	19.00	1.82
OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION	0.892	0.073	12.22	2.44	0.664	0.063	10.60	1.94
OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION	0.135	0.052	2.59	1.15	*	*	*	*
OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION	0.346	0.134	2.58	1.41	0.360	0.098	3.68	1.43
OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION	0.212	0.084	2.52	1.24	*	*	*	*
OTHER ALTERATION OF CONSCIOUSNESS	0.295	0.048	6.19	1.34	0.455	0.037	12.20	1.58
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.522	0.080	6.54	1.69	0.458	0.068	6.70	1.58
OTHER EMPHYSEMA	0.178	0.071	2.52	1.20	0.141	0.054	2.60	1.15
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES	*	*	*	*	0.196	0.083	2.37	1.22

Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	*	*	*	*	0.288	0.042	6.90	1.33
OTHER SPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.319	0.065	4.94	1.38	0.465	0.049	9.51	1.59
OTHER/UNSPEC PERIPH VASC DISEASE	0.082	0.026	3.21	1.09	0.126	0.018	6.85	1.13
Palliative Care Risk Ragrdless of POA	3.556	0.015	233.69	35.01	3.524	0.016	217.09	33.93
PARALYSIS AGITANS	*	*	*	*	0.122	0.033	3.73	1.13
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.674	0.028	24.37	1.96	0.719	0.023	30.93	2.05
SEPSIS	0.615	0.056	11.03	1.85	0.549	0.048	11.51	1.73
STATUS POST ADMINISTRATION OF TPA (RTPA) IN A DIFFERENT FACILITY WITHIN THE LAST 24 HOURS PRIOR TO ADMISSION TO CURRENT FACILITY	0.309	0.041	7.47	1.36	0.132	0.034	3.89	1.14
SUBARACHNOID HEMORRHAGE	1.061	0.038	27.74	2.89	0.801	0.033	24.19	2.23
THROMBOCYTOPENIA, UNSPECIFIED	0.129	0.033	3.91	1.14	0.113	0.025	4.51	1.12
UNSPECIFIED HEMIPLEGIA AFFECTING DOMINANT SIDE	0.227	0.042	5.41	1.26	0.334	0.031	10.64	1.40
UNSPECIFIED HEMIPLEGIA AFFECTING NONDOMINANT SIDE	0.098	0.045	2.21	1.10	0.223	0.033	6.76	1.25
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.343	0.014	24.49	1.41	0.470	0.011	44.45	1.60
UNSPECIFIED INTRACRANIAL HEMORRHAGE	0.970	0.040	24.50	2.64	0.740	0.033	22.23	2.10
UNSPECIFIED PLEURAL EFFUSION	0.200	0.049	4.05	1.22	0.215	0.038	5.61	1.24
URINARY TRACT INFECTION, SITE NOT SPECIFIED	*	*	*	*	0.044	0.013	3.31	1.05

Valve Surgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.158	0.038	4.19	1.17	0.140	0.035	4.06	1.15
AdmitSourceXferNonHospital	0.304	0.103	2.94	1.36	0.242	0.097	2.50	1.27
Age70To74	0.258	0.043	6.02	1.30	0.251	0.039	6.44	1.29
Age75To79	0.452	0.041	10.95	1.57	0.437	0.038	11.61	1.55
Age80To84	0.662	0.042	15.80	1.94	0.658	0.038	17.32	1.93
Age85To89	0.864	0.048	18.14	2.37	0.886	0.043	20.73	2.43
Age90AndOver	1.111	0.067	16.69	3.04	1.169	0.058	20.10	3.22
PrimaryFacilityPresentOnAdmissionKnownPercent	0.610	0.189	3.23	1.84	0.714	0.173	4.12	2.04
SexFemale	0.353	0.025	14.26	1.42	0.318	0.022	14.21	1.37
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS	0.567	0.070	8.06	1.76	0.519	0.066	7.86	1.68
ACUTE AND SUBACUTE NECROSIS OF LIVER	1.274	0.162	7.87	3.58	1.212	0.157	7.74	3.36
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.145	0.055	2.64	1.16	*	*	*	*
ACUTE DIASTOLIC HEART FAILURE	0.170	0.048	3.56	1.19	0.145	0.043	3.38	1.16
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.141	0.049	2.89	1.15	0.124	0.045	2.73	1.13
ACUTE RENAL FAILURE	0.321	0.048	6.71	1.38	0.325	0.044	7.36	1.38
ADHESIVE PERICARDITIS	0.527	0.088	6.02	1.69	0.471	0.082	5.73	1.60
ANTERIOR/LATERAL WALL AMI	0.259	0.111	2.34	1.30	0.274	0.105	2.61	1.32
AORTIC AND MITRAL VALVE REPLACEMENT	-1.678	0.491	-3.42	0.19	-1.672	0.468	-3.57	0.19
Aortic Valve Only Replacement	-0.739	0.334	-2.21	0.48	-0.707	0.312	-2.26	0.49
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES	0.265	0.099	2.69	1.30	0.261	0.091	2.86	1.30
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY	0.284	0.036	7.85	1.33	0.259	0.033	7.86	1.30
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES	0.465	0.057	8.10	1.59	0.457	0.053	8.70	1.58
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES	0.405	0.043	9.49	1.50	0.380	0.039	9.74	1.46
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.333	0.092	3.63	1.40	0.221	0.085	2.61	1.25
BODY MASS INDEX 40 AND OVER	0.356	0.047	7.65	1.43	0.349	0.042	8.32	1.42
CARDIAC ARREST	1.163	0.153	7.60	3.20	1.120	0.146	7.69	3.06
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.110	0.033	3.32	1.12	0.146	0.030	4.93	1.16
CHRONIC BRONCHITIS	0.295	0.085	3.48	1.34	0.366	0.076	4.84	1.44
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.221	0.037	5.95	1.25	0.241	0.033	7.27	1.27
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.602	0.063	9.52	1.83	0.568	0.058	9.83	1.76
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.103	0.042	2.46	1.11	0.112	0.037	3.00	1.12
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT	0.260	0.067	3.86	1.30	0.230	0.063	3.66	1.26
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	*	*	*	*	0.088	0.040	2.22	1.09
DEPENDENCE ON SUPPLEMENTAL OXYGEN	*	*	*	*	0.245	0.064	3.86	1.28

Valve Surgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ENDOVASCULAR REPLACEMENT OF AORTIC VALVE	0.467	0.079	5.91	1.60	0.541	0.071	7.58	1.72
END STAGE RENAL DISEASE	0.958	0.128	7.49	2.61	0.988	0.118	8.34	2.69
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH	0.132	0.045	2.92	1.14	0.116	0.041	2.81	1.12
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED	0.694	0.153	4.53	2.00	0.660	0.141	4.67	1.93
IMPLANT OF PULSATION BALLOON	2.206	0.031	72.36	9.08	2.025	0.029	69.59	7.58
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT	0.808	0.104	7.79	2.24	0.734	0.098	7.47	2.08
INFERIOR WALL AMI	0.364	0.144	2.53	1.44	0.360	0.139	2.59	1.43
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE	2.911	0.155	18.74	18.37	2.766	0.153	18.11	15.90
MALNUTRITION	0.507	0.054	9.36	1.66	0.564	0.049	11.48	1.76
MECHANICAL COMPLICATION DUE TO HEART VALVE PROSTHESIS	0.218	0.096	2.27	1.24	*	*	*	*
Mitral Valve Only Replacement	-1.043	0.365	-2.86	0.35	-1.015	0.354	-2.87	0.36
MITRAL VALVE STENOSIS AND AORTIC VALVE STENOSIS	0.384	0.078	4.96	1.47	0.305	0.073	4.19	1.36
NON-MALIG HYPERTEN & REN WITH CHF	0.505	0.086	5.90	1.66	0.439	0.080	5.48	1.55
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.452	0.131	3.46	1.57	0.362	0.121	2.99	1.44
NON-MITRAL VALVE REPAIR	0.371	0.059	6.27	1.45	0.364	0.055	6.63	1.44
OPEN AND OTHER REPLACEMENT OF AORTIC VALVE	1.351	0.326	4.14	3.86	1.304	0.305	4.28	3.69
OPEN AND OTHER REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT	1.116	0.327	3.42	3.05	1.117	0.305	3.66	3.06
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE	1.967	0.356	5.52	7.15	1.920	0.346	5.55	6.82
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT	1.870	0.357	5.23	6.49	1.814	0.347	5.23	6.13
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE	0.933	0.161	5.79	2.54	0.945	0.149	6.34	2.57
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT	1.184	0.130	9.15	3.27	1.105	0.124	8.94	3.02
OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT	0.633	0.130	4.86	1.88	0.560	0.123	4.57	1.75
OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT	0.285	0.062	4.61	1.33	0.272	0.057	4.80	1.31
OTHER COMPLICATIONS DUE TO HEART VALVE PROSTHESIS	0.238	0.091	2.62	1.27	*	*	*	*
OTHER/UNSPEC PERIPH VASC DISEASE	*	*	*	*	0.075	0.037	2.03	1.08
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA]	0.427	0.084	5.09	1.53	0.368	0.079	4.69	1.45
PULMONARY VALVE REPLACEMENT	1.539	0.230	6.69	4.66	1.525	0.215	7.09	4.59
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS	-0.098	0.035	-2.77	0.91	-0.080	0.032	-2.48	0.92
TRANSAPICAL REPLACEMENT OF AORTIC VALVE	0.796	0.089	8.92	2.22	0.852	0.080	10.61	2.34

Appendix E. Coefficient Summary Table – Complication Cohorts

Abdominal Aortic Aneurysm Repair

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.646	0.059	10.95	1.91
AdmitSourceXferNonHospital	0.391	0.166	2.36	1.48
Age70To74	0.046	0.036	1.30	1.05
Age75To79	0.243	0.035	6.91	1.28
Age80To84	0.382	0.037	10.46	1.47
Age85To89	0.631	0.041	15.24	1.88
Age90AndOver	0.676	0.064	10.59	1.97
PrimaryFacilityPresentOnAdmissionKnownPercent	1.109	0.144	7.72	3.03
SexFemale	0.180	0.026	6.94	1.20
ACUTE DIASTOLIC HEART FAILURE	1.300	0.226	5.74	3.67
ACUTE SYSTOLIC HEART FAILURE	0.971	0.193	5.03	2.64
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE	0.918	0.216	4.26	2.50
ALZHEIMER'S DISEASE	0.333	0.110	3.04	1.40
ANEURYSM OF RENAL ARTERY	0.348	0.127	2.74	1.42
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S)	0.477	0.032	14.93	1.61
AORTA-ILIAC-FEMORAL BYPASS	0.579	0.085	6.84	1.78
AORTA-RENAL BYPASS	0.594	0.166	3.59	1.81
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.200	0.053	3.79	1.22
ATHEROSCLEROSIS OF RENAL ARTERY	0.228	0.053	4.33	1.26
BODY MASS INDEX 40 AND OVER	0.432	0.063	6.88	1.54
CARDIOMYOPATHY	0.228	0.062	3.66	1.26
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.209	0.025	8.25	1.23
CHRONIC BRONCHITIS	0.685	0.083	8.29	1.98
CHRONIC DIASTOLIC HEART FAILURE	0.217	0.090	2.42	1.24
CHRONIC ISCHEMIC HEART DISEASE	0.474	0.055	8.70	1.61
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.705	0.065	10.88	2.02
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	1.119	0.087	12.81	3.06
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.325	0.065	4.98	1.38
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.276	0.040	6.95	1.32
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.096	0.025	3.79	1.10
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.063	0.031	2.05	1.07
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.261	0.059	4.44	1.30
ENDOVASCULAR IMPLANTATION OF OTHER GRAFT IN ABDOMINAL AORTA	1.120	0.528	2.12	3.07
HYPOTENSION, UNSP OR NEC	0.555	0.122	4.54	1.74
INFRA-RENAL ANEURYSM	0.126	0.032	3.90	1.13
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.601	0.133	4.54	1.82
MALNUTRITION	1.150	0.084	13.70	3.16
NON-MALIGNANT HYPERTENSION W/O CHF	0.510	0.124	4.11	1.67
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.338	0.061	5.57	1.40
NON-MALIGNANT RENAL DISEASE WITH FAILURE	1.109	0.085	13.05	3.03
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.286	0.045	6.34	1.33
OTHER (PERIPHERAL) VASCULAR SHUNT OR BYPASS	0.749	0.064	11.73	2.12

Abdominal Aortic Aneurysm Repair (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER AND UNSPECIFIED COAGULATION DEFECTS	0.799	0.247	3.23	2.22
OTHER EMPHYSEMA	0.305	0.060	5.09	1.36
OTHER/UNSPEC PERIPH VASC DISEASE	0.165	0.030	5.43	1.18
PULMONARY HYPERTENSION	0.301	0.069	4.37	1.35
RESECTION OF ABDOMINAL AORTA WITH REPLACEMENT	3.252	0.527	6.17	25.85
RESECTION OF AORTA WITH ANASTOMOSIS	3.249	0.538	6.05	25.77
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE	1.393	0.236	5.89	4.03

Appendectomy

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.139	0.057	2.43	1.15
Age45To64	0.565	0.020	28.68	1.76
Age65To74	0.984	0.027	36.35	2.68
Age75AndOver	1.413	0.030	46.71	4.11
PrimaryFacilityPresentOnAdmissionKnownPercent	0.106	0.041	2.56	1.11
SexFemale	-0.325	0.017	-19.14	0.72
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS	1.150	0.020	58.91	3.16
ACUTE APPENDICITIS WITH PERITONEAL ABSCESS	1.245	0.023	55.10	3.47
ACUTE RENAL FAILURE	0.672	0.132	5.09	1.96
ANEMIA, UNSPECIFIED	0.240	0.047	5.08	1.27
ASTHMA	0.087	0.039	2.25	1.09
ATRIAL FIBRILLATION	0.097	0.044	2.21	1.10
BODY MASS INDEX 25-29	0.200	0.083	2.42	1.22
BODY MASS INDEX 40 AND OVER	0.315	0.038	8.28	1.37
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.478	0.040	11.90	1.61
CHRONIC DIASTOLIC HEART FAILURE	0.269	0.122	2.20	1.31
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.290	0.066	4.39	1.34
CHRONIC SYSTOLIC HEART FAILURE	0.396	0.127	3.13	1.49
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.460	0.059	7.81	1.59
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.245	0.038	6.51	1.28
DEHYDRATION	0.288	0.042	6.81	1.33
DRAINAGE OF APPENDICEAL ABSCESS	0.574	0.154	3.74	1.78
ESCHERICHIA COLI [E. COLI] INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	0.289	0.073	3.98	1.34
HYPOPOTASSEMIA	0.237	0.041	5.77	1.27
HYPOSMOLALITY AND/OR HYPONATREMIA	0.400	0.044	9.07	1.49
LAPAROSCOPIC APPENDECTOMY	1.746	0.178	9.81	5.73
LAPAROSCOPIC SURGICAL PROCEDURE CONVERTED TO OPEN PROCEDURE	0.437	0.033	13.48	1.55
Mild to Moderate Chronic Kidney Disease (Stages I - III)	0.323	0.070	4.63	1.38
MITRAL VALVE DISORDERS	0.474	0.085	5.58	1.61
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.387	0.050	7.71	1.47
OTHER AND UNSPECIFIED DISEASES OF APPENDIX	0.221	0.055	4.06	1.25
OTHER APPENDECTOMY	2.118	0.178	11.89	8.32
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION)	0.197	0.050	3.96	1.22
RENAL DIALYSIS STATUS	2.049	0.177	11.59	7.76
SEPSIS	0.854	0.043	19.96	2.35
Severe Chronic Kidney Disease (Stages IV-V and ESRD)	2.070	0.088	23.60	7.92
SEVERE SEPSIS	0.698	0.076	9.17	2.01
TACHYCARDIA, UNSPECIFIED	0.353	0.090	3.91	1.42

Back and Neck Surgeries (Without Spinal Fusion)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.426	0.056	7.69	1.53
AdmitSourceXferNonHospital	0.286	0.137	2.09	1.33
AdmitSourceXferSkilledNursing	0.335	0.126	2.65	1.40
Age70To74	0.193	0.029	6.64	1.21
Age75To79	0.344	0.030	11.58	1.41
Age80To84	0.480	0.032	15.00	1.62
Age85To89	0.700	0.038	18.38	2.01
Age90AndOver	0.858	0.063	13.61	2.36
PrimaryFacilityPresentOnAdmissionKnownPercent	0.644	0.118	5.47	1.90
SexFemale	-0.196	0.022	-8.92	0.82
ANEMIA, UNSPECIFIED	0.243	0.041	5.97	1.28
AORTIC VALVE DISORDERS	0.403	0.061	6.60	1.50
ASTHMA	0.114	0.037	3.05	1.12
ATRIAL FIBRILLATION	0.153	0.030	5.04	1.17
BODY MASS INDEX 30-39	0.168	0.030	5.58	1.18
BODY MASS INDEX 40 AND OVER	0.426	0.042	10.26	1.53
CARDIOMYOPATHY	0.257	0.070	3.66	1.29
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER	0.285	0.073	3.93	1.33
CERVICAL SPONDYLOSIS WITH MYELOPATHY	0.313	0.043	7.26	1.37
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.285	0.032	8.80	1.33
CHRONIC ANEMIA	0.337	0.065	5.16	1.40
CHRONIC BRONCHITIS	0.789	0.104	7.57	2.20
CHRONIC ISCHEMIC HEART DISEASE	0.359	0.074	4.86	1.43
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.242	0.049	4.90	1.27
CLOSED FRACTURE OF SECOND CERVICAL VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY	0.537	0.113	4.74	1.71
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.477	0.038	12.59	1.61
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.226	0.025	9.01	1.25
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.187	0.034	5.58	1.21
DEHYDRATION	0.476	0.088	5.44	1.61
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.391	0.089	4.40	1.48
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	0.069	0.031	2.20	1.07
DIAB W NEUROVASCULAR MANIFESTATIONS	0.354	0.048	7.40	1.43
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.108	0.023	4.80	1.11
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.670	0.082	8.17	1.95
ENCEPHALOPATHY	0.648	0.110	5.88	1.91
EXCISION OF INTERVERTEBRAL DISC	0.150	0.034	4.37	1.16
HYPERPLASIA OF PROSTATE	0.348	0.028	12.44	1.42
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, CERVICAL REGION	0.486	0.081	5.99	1.63
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, LUMBAR REGION	0.264	0.076	3.46	1.30
INTRASPINAL ABSCESS	1.067	0.066	16.12	2.91
LONG-TERM (CURRENT) USE OF STEROIDS	0.144	0.071	2.04	1.16
LUMBOSACRAL SPONDYLOSIS WITHOUT MYELOPATHY	0.075	0.029	2.58	1.08
MALNUTRITION	0.717	0.085	8.48	2.05

Back and Neck Surgeries (Without Spinal Fusion) (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIGNANT HYPERTENSION W/O CHF	0.526	0.110	4.77	1.69
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.492	0.037	13.26	1.64
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.277	0.122	2.27	1.32
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.277	0.031	8.80	1.32
OTHER EMPHYSEMA	0.204	0.095	2.14	1.23
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL	0.224	0.039	5.83	1.25
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.608	0.206	2.95	1.84
OTHER REPAIR AND PLASTIC OPERATIONS ON SPINAL CORD STRUCTURES	0.973	0.030	32.99	2.65
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS	0.259	0.070	3.67	1.30
OTHER SPECIFIED RETENTION OF URINE	0.405	0.151	2.68	1.50
OTHER/UNSPEC PERIPH VASC DISEASE	0.206	0.043	4.75	1.23
PARALYSIS AGITANS	0.210	0.067	3.14	1.23
PARAPLEGIA	0.543	0.084	6.47	1.72
PATHOLOGIC FRACTURE OF VERTEBRAE	0.226	0.084	2.69	1.25
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH	0.076	0.024	3.13	1.08
PULMONARY HYPERTENSION	0.584	0.068	8.56	1.79
REPAIR OF VERTEBRAL FRACTURE	0.945	0.100	9.44	2.57
RIGHT BUNDLE BRANCH BLOCK	0.234	0.087	2.70	1.26
SPINAL STENOSIS OF THORACIC REGION	0.480	0.084	5.73	1.62
SPINAL STENOSIS, LUMBAR REGION, WITH NEUROGENIC CLAUDICATION	0.084	0.025	3.35	1.09
THROMBOCYTOPENIA, UNSPECIFIED	0.431	0.069	6.22	1.54
TOBACCO USE DISORDER	0.084	0.039	2.17	1.09
TRANSFUSION OF PACKED CELLS	1.240	0.042	29.43	3.46
UNSPECIFIED URINARY INCONTINENCE	0.140	0.057	2.47	1.15
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.406	0.051	8.04	1.50

Carotid Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.354	0.039	9.02	1.43
AdmitSourceXferNonHospital	0.261	0.107	2.44	1.30
AdmitSourceXferSkilledNursing	0.397	0.103	3.87	1.49
Age70To74	0.088	0.023	3.84	1.09
Age75To79	0.201	0.023	8.78	1.22
Age80To84	0.324	0.024	13.50	1.38
Age85To89	0.462	0.028	16.25	1.59
Age90AndOver	0.635	0.048	13.30	1.89
PrimaryFacilityPresentOnAdmissionKnownPercent	0.859	0.096	8.99	2.36
ACUTE DIASTOLIC HEART FAILURE	0.959	0.115	8.32	2.61
ACUTE SYSTOLIC HEART FAILURE	0.715	0.134	5.35	2.04
ALZHEIMER'S DISEASE	0.375	0.078	4.83	1.45
AORTIC VALVE DISORDERS	0.290	0.036	8.02	1.34
APHASIA	0.353	0.041	8.62	1.42
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.210	0.050	4.24	1.23
ATHEROSCLEROSIS OF RENAL ARTERY	0.217	0.063	3.46	1.24
BODY MASS INDEX 40 AND OVER	0.232	0.043	5.44	1.26
BODY MASS INDEX LESS THAN 19, ADULT	0.402	0.117	3.44	1.50
CARDIOMYOPATHY	0.279	0.045	6.24	1.32
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION	0.443	0.077	5.72	1.56
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.172	0.020	8.82	1.19
CHRONIC ANEMIA	0.390	0.050	7.76	1.48
CHRONIC BRONCHITIS	0.736	0.061	12.05	2.09
CHRONIC ISCHEMIC HEART DISEASE	0.243	0.039	6.21	1.28
CHRONIC KIDNEY DISEASE, STAGE II (MILD)	0.394	0.079	4.99	1.48
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.706	0.027	25.87	2.03
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.907	0.051	17.90	2.48
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.463	0.027	17.04	1.59
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.368	0.024	15.08	1.45
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.161	0.017	9.40	1.18
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.064	0.020	3.15	1.07
DEHYDRATION	0.472	0.064	7.41	1.60
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.315	0.050	6.30	1.37
DIAB W NEUROVASCULAR MANIFESTATIONS	0.240	0.040	5.97	1.27
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.461	0.059	7.79	1.59
DISORDERS OF LIPOID METABOLISM	0.050	0.016	3.11	1.05
DYSPHAGIA	0.821	0.043	19.11	2.27
ENCEPHALOPATHY	0.410	0.076	5.41	1.51
ENDARTERECTOMY OF OTHER VESSELS OF HEAD AND NECK	1.364	0.107	12.74	3.91
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY	0.192	0.065	2.96	1.21
FACIAL WEAKNESS	0.158	0.049	3.22	1.17
HYPERPOTASSEMIA	0.305	0.074	4.13	1.36
HYPOPOTASSEMIA	0.391	0.052	7.53	1.48
HYPOSMOLALITY AND/OR HYPONATREMIA	0.358	0.053	6.79	1.43
INFARCTION OF A CEREBRAL ARTERY	0.463	0.028	16.85	1.59

Carotid Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
INSERTION OF TWO VASCULAR STENTS	0.629	0.066	9.57	1.88
MALIGNANT ESSENTIAL HYPERTENSION	0.576	0.067	8.66	1.78
MITRAL VALVE DISORDERS	0.185	0.042	4.41	1.20
NON-MALIGNANT HYPERTENSION W/O CHF	0.275	0.068	4.03	1.32
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.582	0.061	9.61	1.79
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.261	0.031	8.49	1.30
OTHER EMPHYSEMA	0.343	0.056	6.10	1.41
OTHER/UNSPEC PERIPH VASC DISEASE	0.194	0.019	10.27	1.21
PERCUTANEOUS ANGIOPLASTY OF EXTRACRANIAL VESSEL(S)	1.285	0.106	12.13	3.61
PROCEDURE ON SINGLE VESSEL	-0.080	0.021	-3.92	0.92
PULMONARY HYPERTENSION	0.428	0.043	9.98	1.53
SINOATRIAL NODE DYSFUNCTION	0.378	0.076	5.01	1.46
STRICTURE OF ARTERY	0.252	0.067	3.75	1.29
THROMBOCYTOPENIA, UNSPECIFIED	0.342	0.057	5.99	1.41
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION	0.393	0.050	7.86	1.48
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.383	0.045	8.56	1.47
UNSPECIFIED TRANSIENT CEREBRAL ISCHEMIA	0.251	0.073	3.45	1.29

Defibrillator Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.078	0.029	2.69	1.08
Age75To79	0.149	0.029	5.10	1.16
Age80To84	0.172	0.031	5.52	1.19
Age85To89	0.196	0.039	5.03	1.22
Age90AndOver	0.254	0.077	3.28	1.29
PrimaryFacilityPresentOnAdmissionKnownPercent	0.615	0.135	4.54	1.85
SexFemale	0.119	0.022	5.54	1.13
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.210	0.071	2.98	1.23
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.439	0.042	10.48	1.55
ACUTE DIASTOLIC HEART FAILURE	0.380	0.084	4.55	1.46
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.089	0.045	2.01	1.09
ACUTE SYSTOLIC HEART FAILURE	0.422	0.024	17.85	1.53
ANEMIA OF OTHER CHRONIC DISEASE	0.146	0.058	2.52	1.16
ANGIOCARDIOGRAPHY OF LEFT HEART STRUCTURES	-0.197	0.041	-4.78	0.82
ANGIOCARDIOGRAPHY OF RIGHT HEART STRUCTURES	-0.314	0.115	-2.73	0.73
AORTIC VALVE DISORDERS	0.112	0.047	2.39	1.12
ASTHMA	0.137	0.047	2.93	1.15
ATRIAL FIBRILLATION	0.079	0.020	3.97	1.08
ATRIOVENTRICULAR BLOCK, COMPLETE	0.147	0.037	3.94	1.16
BODY MASS INDEX 40 AND OVER	0.216	0.045	4.79	1.24
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.123	0.026	4.78	1.13
CHRONIC BRONCHITIS	0.334	0.050	6.74	1.40
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.457	0.044	10.37	1.58
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.560	0.056	9.96	1.75
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.268	0.044	6.12	1.31
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION	0.400	0.051	7.82	1.49
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE	2.296	0.070	32.85	9.94
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS	1.634	0.037	44.79	5.12
DEHYDRATION	0.173	0.066	2.61	1.19
DIAB W NEUROVASCULAR MANIFESTATIONS	0.114	0.052	2.19	1.12
DIAB W UNSPECIFIED MANIFESTATIONS	0.332	0.083	4.00	1.39
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.133	0.063	2.10	1.14
HEART VALVE REPLACED BY OTHER MEANS	0.157	0.042	3.72	1.17
HEMODIALYSIS	0.462	0.055	8.40	1.59
HYPERTENSIVE CHRONIC KIDNEY DISEASE, MALIGNANT, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	0.506	0.167	3.04	1.66
HYPOSMOLALITY AND/OR HYPONATREMIA	0.230	0.047	4.94	1.26
IMPLANT OF PULSATION BALLOON	0.760	0.131	5.82	2.14
IMPLANTATION OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR LEAD(S) ONLY	1.159	0.259	4.47	3.19
IMPLANTATION OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR, TOTAL SYSTEM [CRT-D]	1.345	0.168	8.03	3.84
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR, TOTAL SYSTEM [AICD]	1.368	0.168	8.15	3.93
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR PULSE GENERATOR ONLY [CRT-D]	0.972	0.213	4.57	2.64

Defibrillator Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
IMPLANTATION OR REPLACEMENT OF TRANSVENOUS LEAD [ELECTRODE] INTO LEFT VENTRICULAR CORONARY VENOUS SYSTEM	1.357	0.134	10.13	3.89
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT	0.990	0.057	17.51	2.69
INFERIOR WALL AMI	0.534	0.183	2.92	1.71
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM	0.927	0.065	14.29	2.53
LEFT HEART CARDIAC CATHETERIZATION	0.383	0.040	9.65	1.47
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.644	0.229	2.81	1.90
MALNUTRITION	0.392	0.064	6.12	1.48
NON-INVASIVE MECHANICAL VENTILATION	0.781	0.058	13.47	2.19
NON-MALIG HYPERTEN & REN WITH CHF	0.366	0.063	5.84	1.44
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.179	0.041	4.36	1.20
OBSESITY HYPOVENTILATION SYNDROME	0.622	0.143	4.35	1.86
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED	0.433	0.143	3.02	1.54
OTHER PULMONARY EMBOLISM AND INFARCTION	0.397	0.175	2.27	1.49
OTHER SECONDARY THROMBOCYTOPENIA	0.532	0.151	3.52	1.70
POSTINFLAMMATORY PULMONARY FIBROSIS	0.252	0.091	2.76	1.29
PROCEDURE ON SINGLE VESSEL	0.738	0.114	6.47	2.09
PROCEDURE ON TWO VESSELS	1.011	0.219	4.61	2.75
PULMONARY HYPERTENSION	0.096	0.030	3.22	1.10
REPLACEMENT OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR LEAD(S) ONLY	2.088	0.130	16.10	8.07
RIGHT HEART CARDIAC CATHETERIZATION	0.365	0.067	5.48	1.44
SEPSIS	0.217	0.109	1.99	1.24
THROMBOCYTOPENIA, UNSPECIFIED	0.109	0.047	2.32	1.12
TRANSFUSION OF OTHER SERUM	0.507	0.073	6.92	1.66
TRANSFUSION OF PACKED CELLS	1.033	0.041	25.21	2.81
TRANSFUSION OF PLATELETS	0.830	0.125	6.64	2.29
UNSPECIFIED DISEASE OF PERICARDIUM	0.492	0.110	4.47	1.64
UNSPECIFIED PLEURAL EFFUSION	0.425	0.058	7.29	1.53

Gallbladder Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.068	0.022	3.08	1.07
AdmitSourceXferSkilledNursing	0.191	0.041	4.63	1.21
Age70To74	0.156	0.016	9.95	1.17
Age75To79	0.296	0.016	18.73	1.34
Age80To84	0.438	0.016	26.78	1.55
Age85To89	0.577	0.018	31.93	1.78
Age90AndOver	0.708	0.023	30.95	2.03
PrimaryFacilityPresentOnAdmissionKnownPercent	0.381	0.057	6.71	1.46
SexFemale	-0.178	0.011	-16.47	0.84
ACIDOSIS	0.397	0.031	13.00	1.49
ACUTE AND CHRONIC CHOLECYSTITIS	0.251	0.031	8.23	1.29
ACUTE CHOLECYSTITIS	0.275	0.017	16.29	1.32
ACUTE DIASTOLIC HEART FAILURE	0.297	0.053	5.56	1.35
ALZHEIMER'S DISEASE	0.123	0.034	3.64	1.13
AORTIC VALVE DISORDERS	0.164	0.030	5.47	1.18
ATRIAL FIBRILLATION	0.089	0.013	6.76	1.09
ATRIAL FLUTTER	0.135	0.046	2.95	1.15
BODY MASS INDEX 30-39	0.081	0.016	5.18	1.09
BODY MASS INDEX 40 AND OVER	0.240	0.021	11.37	1.27
CALCULUS OF BILE DUCT WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION	0.112	0.047	2.38	1.12
CALCULUS OF BILE DUCT WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION	0.108	0.032	3.41	1.11
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITH OBSTRUCTION	0.089	0.043	2.11	1.09
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION	0.227	0.034	6.76	1.25
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITH OBSTRUCTION	0.162	0.034	4.79	1.18
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION	0.199	0.026	7.68	1.22
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION	0.235	0.030	7.75	1.27
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION	0.173	0.012	14.55	1.19
CARDIOMYOPATHY	0.272	0.027	9.92	1.31
CHOLANGITIS	0.051	0.022	2.27	1.05
CHOLECYSTECTOMY	0.851	0.012	68.49	2.34
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.208	0.015	13.97	1.23
CHRONIC ANEMIA	0.079	0.028	2.81	1.08
CHRONIC BRONCHITIS	0.608	0.038	15.98	1.84
CHRONIC ISCHEMIC HEART DISEASE	0.258	0.030	8.69	1.29
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.403	0.029	13.79	1.50
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.598	0.042	14.15	1.82
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.317	0.030	10.72	1.37
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL	0.132	0.035	3.81	1.14
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.396	0.016	25.26	1.49
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.106	0.013	8.25	1.11
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.089	0.016	5.50	1.09

Gallbladder Removal Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
DECUBITIS ULCER	0.303	0.048	6.36	1.35
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.239	0.034	7.12	1.27
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.116	0.039	2.99	1.12
DISEASES OF TRICUSPID VALVE	0.220	0.039	5.61	1.25
ENCEPHALOPATHY	0.107	0.040	2.67	1.11
END STAGE RENAL DISEASE	0.230	0.083	2.77	1.26
ENDOSCOPIC INSERTION OF STENT (TUBE) INTO BILE DUCT	0.764	0.020	37.59	2.15
ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY [ERCP]	0.298	0.033	8.99	1.35
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY	0.189	0.040	4.70	1.21
EXPLORATION OF COMMON BILE DUCT	0.206	0.050	4.11	1.23
HYPEROSMOLALITY AND/OR HYPERNATREMIA	0.466	0.058	8.05	1.59
HYPERPLASIA OF PROSTATE	0.056	0.017	3.41	1.06
HYPOSOMOLALITY AND/OR HYPONATREMIA	0.105	0.020	5.28	1.11
INCISIONAL HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE	0.301	0.052	5.81	1.35
MALNUTRITION	0.646	0.021	30.53	1.91
NARROWING OF CEREBRAL ARTERY	0.125	0.042	2.94	1.13
NON-MALIGNANT HYPERTENSION W/O CHF	0.124	0.052	2.40	1.13
NON-MALIGNANT HYPERTENSION WITH CHF	0.307	0.083	3.71	1.36
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.090	0.027	3.30	1.09
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.313	0.085	3.69	1.37
OBESITY HYPOVENTILATION SYNDROME	1.130	0.081	14.00	3.10
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.272	0.020	13.34	1.31
OTHER ASCITES	0.500	0.038	13.02	1.65
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED	0.307	0.075	4.09	1.36
OTHER EMPHYSEMA	0.364	0.050	7.36	1.44
OTHER PARTIAL CHOLECYSTECTOMY	1.024	0.073	13.98	2.78
OTHER/UNSPEC PERIPH VASC DISEASE	0.103	0.023	4.59	1.11
PERFORATION OF GALLBLADDER	0.450	0.034	13.09	1.57
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION)	0.238	0.017	13.87	1.27
POSTINFLAMMATORY PULMONARY FIBROSIS	0.292	0.050	5.86	1.34
PULMONARY HYPERTENSION	0.423	0.026	16.01	1.53
SEPSIS	0.364	0.020	18.40	1.44
SEPTIC SHOCK	0.126	0.047	2.67	1.13
SEVERE SEPSIS	0.522	0.038	13.88	1.69
UNSPECIFIED PLEURAL EFFUSION	0.506	0.038	13.48	1.66

Hip Fracture Treatment

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.103	0.013	7.72	1.11
AdmitSourceXferNonHospital	0.082	0.026	3.23	1.09
Age70To74	0.158	0.019	8.43	1.17
Age75To79	0.315	0.017	18.13	1.37
Age80To84	0.395	0.017	23.63	1.48
Age85To89	0.507	0.017	30.65	1.66
Age90AndOver	0.628	0.017	37.52	1.87
PrimaryFacilityPresentOnAdmissionKnownPercent	1.026	0.044	23.50	2.79
SexFemale	-0.301	0.007	-40.74	0.74
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.158	0.028	5.68	1.17
ACIDOSIS	0.423	0.031	13.80	1.53
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.315	0.071	4.43	1.37
ACUTE DIASTOLIC HEART FAILURE	0.537	0.035	15.53	1.71
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.289	0.042	6.90	1.34
ACUTE SYSTOLIC HEART FAILURE	0.369	0.044	8.46	1.45
AORTIC VALVE DISORDERS	0.199	0.014	13.91	1.22
ATRIAL FIBRILLATION	0.063	0.008	7.63	1.07
ATRIAL FLUTTER	0.112	0.031	3.64	1.12
BACTERIAL PNEUMONIA	0.072	0.024	2.95	1.07
BODY MASS INDEX 30-39	0.199	0.019	10.53	1.22
BODY MASS INDEX 40 AND OVER	0.361	0.030	12.24	1.44
CACHEXIA	0.134	0.029	4.61	1.14
CARDIOMYOPATHY	0.162	0.018	8.99	1.18
CEREBRAL ATHEROSCLEROSIS	0.151	0.033	4.56	1.16
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.124	0.010	12.99	1.13
CHRONIC BRONCHITIS	0.547	0.025	21.78	1.73
CHRONIC ISCHEMIC HEART DISEASE	0.181	0.020	9.26	1.20
CHRONIC KIDNEY DISEASE, STAGE II (MILD)	0.213	0.035	6.13	1.24
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.416	0.019	21.51	1.52
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.521	0.025	20.60	1.68
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.408	0.020	20.84	1.50
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION	0.140	0.050	2.78	1.15
CLOSED FRACTURE OF BASE OF NECK OF FEMUR	0.067	0.025	2.75	1.07
CLOSED FRACTURE OF INTERTROCHANTERIC SECTION OF FEMUR	0.228	0.010	23.77	1.26
CLOSED FRACTURE OF MIDCERVICAL SECTION OF FEMUR	0.075	0.025	3.05	1.08
CLOSED FRACTURE OF SUBTROCHANTERIC SECTION OF FEMUR	0.327	0.015	22.35	1.39
CLOSED FRACTURE OF SURGICAL NECK OF HUMERUS	0.303	0.041	7.44	1.35
CLOSED FRACTURE OF UNSPECIFIED INTRACAPSULAR SECTION OF NECK OF FEMUR	0.108	0.038	2.82	1.11
CLOSED REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION	0.094	0.012	7.61	1.10
CLOSED REDUCTION OF FRACTURE OF FEMUR WITHOUT INTERNAL FIXATION	0.345	0.094	3.67	1.41
CLOSED REDUCTION OF FRACTURE OF RADIUS AND ULNA WITHOUT INTERNAL FIXATION	0.104	0.042	2.46	1.11
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.354	0.009	38.03	1.42
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS	3.762	0.045	82.93	43.01

Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.143	0.008	17.01	1.15
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.119	0.012	10.21	1.13
DEBILITY, UNSPECIFIED	0.093	0.021	4.33	1.10
DEHYDRATION	0.109	0.014	7.69	1.12
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE	0.175	0.036	4.81	1.19
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.025	0.012	2.20	1.03
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.271	0.018	14.95	1.31
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	0.043	0.010	4.47	1.04
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.022	0.009	2.54	1.02
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.227	0.027	8.46	1.26
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE	0.190	0.023	8.43	1.21
DISEASES OF TRICUSPID VALVE	0.150	0.021	7.00	1.16
DYSPHAGIA	0.460	0.019	24.35	1.58
DYSTHYMIC DISORDER	0.069	0.027	2.54	1.07
ENCEPHALOPATHY	0.112	0.029	3.91	1.12
END STAGE RENAL DISEASE	0.193	0.054	3.58	1.21
HYPERPOTASSEMIA	0.091	0.020	4.46	1.10
HYPOTENSION, UNSP OR NEC	0.119	0.026	4.59	1.13
HYPOXEMIA	0.190	0.024	7.87	1.21
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.157	0.026	5.96	1.17
MALIGNANT ESSENTIAL HYPERTENSION	0.172	0.035	4.91	1.19
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED	0.137	0.043	3.18	1.15
MALNUTRITION	0.334	0.015	22.97	1.40
MITRAL VALVE DISORDERS	0.066	0.018	3.77	1.07
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE INSUFFICIENCY	0.121	0.035	3.50	1.13
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS	0.235	0.039	6.01	1.26
NARROWING OF CEREBRAL ARTERY	0.130	0.023	5.64	1.14
NON-MALIG HYPERTEN & REN WITH CHF	0.241	0.055	4.41	1.27
NON-MALIGNANT HYPERTENSION WITH CHF	0.246	0.051	4.87	1.28
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.071	0.019	3.80	1.07
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.116	0.054	2.14	1.12
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.236	0.021	11.34	1.27
OPEN REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION	0.086	0.012	7.16	1.09
OTHER ASCITES	0.470	0.067	7.01	1.60
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED	0.213	0.050	4.28	1.24
OTHER EMPHYSEMA	0.362	0.029	12.74	1.44
OTHER LATE EFFECTS OF CEREBROVASCULAR DISEASE	0.149	0.026	5.74	1.16
OTHER LEFT BUNDLE BRANCH BLOCK	0.096	0.023	4.11	1.10
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE	0.057	0.027	2.14	1.06
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS	0.047	0.019	2.46	1.05
OTHER/UNSPEC PERIPH VASC DISEASE	0.099	0.014	7.26	1.11
Palliative Care Risk Ragrdless of POA	1.884	0.024	77.12	6.58

Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
PARALYTIC ILEUS	0.392	0.089	4.39	1.48
PARTIAL HIP REPLACEMENT	0.452	0.012	37.61	1.57
PATHOLOGIC FRACTURE OF VERTEBRAE	0.140	0.045	3.11	1.15
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG]	1.633	0.048	34.34	5.12
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH	0.050	0.010	5.22	1.05
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS	0.206	0.051	4.03	1.23
POLYNEUROPATHY IN DIABETES	0.174	0.024	7.40	1.19
POSTINFLAMMATORY PULMONARY FIBROSIS	0.306	0.026	11.75	1.36
PRESSURE ULCER, STAGE II	0.159	0.034	4.63	1.17
PULMONARY HYPERTENSION	0.445	0.014	32.11	1.56
RHABDOMYOLYSIS	0.143	0.029	4.96	1.15
RIGHT BUNDLE BRANCH BLOCK	0.101	0.024	4.27	1.11
SEPSIS	0.580	0.057	10.26	1.79
SYNCOPE AND COLLAPSE	0.060	0.027	2.18	1.06
TOBACCO USE DISORDER	0.068	0.014	5.09	1.07
TOTAL HIP REPLACEMENT	0.399	0.020	19.55	1.49
TRANSFUSION OF OTHER SERUM	0.216	0.018	12.38	1.24
TRANSFUSION OF PACKED CELLS	0.366	0.007	52.38	1.44
UNSPECIFIED PLEURAL EFFUSION	0.444	0.034	13.04	1.56

Hip Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.768	0.107	7.18	2.16
AdmitSourceXferNonHospital	0.690	0.171	4.02	1.99
AdmitSourceXferSkilledNursing	0.483	0.105	4.58	1.62
Age70To74	0.190	0.018	10.50	1.21
Age75To79	0.393	0.019	21.17	1.48
Age80To84	0.630	0.020	32.05	1.88
Age85To89	0.829	0.024	35.04	2.29
Age90AndOver	1.048	0.039	26.92	2.85
PrimaryFacilityPresentOnAdmissionKnownPercent	1.108	0.069	16.16	3.03
SexFemale	-0.203	0.014	-14.83	0.82
AORTIC VALVE DISORDERS	0.330	0.037	8.94	1.39
ASEPTIC NECROSIS OF HEAD AND NECK OF FEMUR	0.279	0.025	11.36	1.32
ASTHMA	0.102	0.023	4.45	1.11
ATRIAL FIBRILLATION	0.143	0.019	7.64	1.15
Bi-lateral Hip Replacement	0.518	0.092	5.66	1.68
BODY MASS INDEX 30-39	0.103	0.018	5.67	1.11
BODY MASS INDEX 40 AND OVER	0.491	0.025	19.98	1.63
BODY MASS INDEX LESS THAN 19, ADULT	0.424	0.135	3.13	1.53
CARDIOMYOPATHY	0.191	0.045	4.23	1.21
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.295	0.021	13.82	1.34
CHRONIC ANEMIA	0.258	0.040	6.52	1.29
CHRONIC BRONCHITIS	0.755	0.074	10.15	2.13
CHRONIC DIASTOLIC HEART FAILURE	0.241	0.050	4.87	1.27
CHRONIC ISCHEMIC HEART DISEASE	0.435	0.050	8.77	1.55
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.341	0.040	8.64	1.41
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.301	0.041	7.38	1.35
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION	0.293	0.102	2.87	1.34
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.461	0.028	16.41	1.59
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.266	0.017	15.78	1.31
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.220	0.024	9.17	1.25
DEHYDRATION	0.911	0.072	12.60	2.49
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.610	0.080	7.66	1.84
DIAB W NEUROVASCULAR MANIFESTATIONS	0.319	0.047	6.87	1.38
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.184	0.016	11.82	1.20
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.627	0.072	8.70	1.87
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.183	0.066	2.75	1.20
DISEASES OF TRICUSPID VALVE	0.314	0.061	5.12	1.37
DISORDERS OF LIPOID METABOLISM	0.069	0.013	5.46	1.07
HYPERPLASIA OF PROSTATE	0.236	0.021	11.48	1.27
HYPERPOTASSEMIA	0.701	0.066	10.58	2.02
HYPOPOTASSEMIA	0.240	0.054	4.43	1.27
HYPOTENSION, UNSP OR NEC	0.361	0.072	4.99	1.43

Hip Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
LONG-TERM (CURRENT) USE OF STEROIDS	0.139	0.051	2.71	1.15
MITRAL VALVE DISORDERS	0.088	0.039	2.30	1.09
NARROWING OF CEREBRAL ARTERY	0.242	0.049	4.91	1.27
NON-MALIGNANT HYPERTENSION	0.166	0.015	10.90	1.18
NON-MALIGNANT HYPERTENSION W/O CHF	0.634	0.070	9.03	1.89
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.775	0.037	20.97	2.17
NON-MALIGNANT RENAL DISEASE WITH FAILURE	1.021	0.105	9.71	2.78
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.256	0.021	12.39	1.29
OSTEOARTHRISIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, PELVIC REGION AND THIGH	0.090	0.017	5.44	1.09
OSTEOARTHRISIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE	0.208	0.047	4.38	1.23
OTHER EMPHYSEMA	0.308	0.062	4.96	1.36
OTHER LEFT BUNDLE BRANCH BLOCK	0.148	0.062	2.40	1.16
OTHER/UNSPEC PERIPH VASC DISEASE	0.179	0.032	5.57	1.20
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH	0.086	0.015	5.55	1.09
PULMONARY HYPERTENSION	0.603	0.041	14.89	1.83
RIGHT BUNDLE BRANCH BLOCK	0.250	0.054	4.60	1.29
THROMBOCYTOPENIA, UNSPECIFIED	0.451	0.044	10.18	1.57
TOBACCO USE DISORDER	0.164	0.027	6.12	1.18

Pacemaker Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferSkilledNursing	0.098	0.046	2.13	1.10
Age70To74	0.053	0.027	1.97	1.05
Age75To79	0.115	0.025	4.57	1.12
Age80To84	0.216	0.024	8.85	1.24
Age85To89	0.321	0.025	13.08	1.38
Age90AndOver	0.368	0.027	13.84	1.45
SexFemale	0.157	0.012	12.62	1.17
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE	0.137	0.051	2.70	1.15
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS	0.437	0.074	5.94	1.55
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.364	0.043	8.55	1.44
ACUTE DIASTOLIC HEART FAILURE	0.287	0.025	11.51	1.33
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE	0.361	0.034	10.63	1.44
ACUTE SYSTOLIC HEART FAILURE	0.349	0.029	11.85	1.42
ADULT FAILURE TO THRIVE	0.350	0.070	5.00	1.42
ALZHEIMER'S DISEASE	0.224	0.035	6.46	1.25
ANEMIA IN CHRONIC KIDNEY DISEASE	0.076	0.034	2.19	1.08
ANEMIA OF OTHER CHRONIC DISEASE	0.162	0.034	4.77	1.18
ANEMIA, UNSPECIFIED	0.043	0.019	2.22	1.04
ANTERIOR/LATERAL WALL AMI	0.607	0.106	5.72	1.84
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.162	0.072	2.26	1.18
ATHEROSCLEROSIS OF RENAL ARTERY	0.159	0.076	2.09	1.17
ATRIAL FLUTTER	0.139	0.022	6.37	1.15
BACTEREMIA	0.238	0.070	3.38	1.27
BACTERIAL PNEUMONIA	0.115	0.034	3.39	1.12
CARDIOMYOPATHY	0.084	0.023	3.71	1.09
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.118	0.018	6.66	1.13
CHRONIC ANEMIA	0.098	0.029	3.38	1.10
CHRONIC BRONCHITIS	0.422	0.037	11.46	1.53
CHRONIC ISCHEMIC HEART DISEASE	0.113	0.025	4.54	1.12
CHRONIC KIDNEY DISEASE, STAGE II (MILD)	0.205	0.054	3.78	1.23
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.438	0.019	22.84	1.55
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.490	0.031	15.65	1.63
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.288	0.020	14.79	1.33
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY	0.240	0.063	3.82	1.27
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION	0.478	0.054	8.91	1.61
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.215	0.015	14.03	1.24
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE	2.717	0.074	36.87	15.14
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS	2.164	0.033	65.45	8.71
DIAB W NEUROVASCULAR MANIFESTATIONS	0.088	0.035	2.53	1.09
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.147	0.047	3.14	1.16
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.211	0.091	2.33	1.24
ENCEPHALOPATHY	0.259	0.044	5.83	1.30

Pacemaker Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
HEART VALVE REPLACED BY OTHER MEANS	0.106	0.032	3.35	1.11
IMPLANTATION OF CARDIAC RESYNCHRONIZATION PACEMAKER WITHOUT MENTION OF DEFIBRILLATION, TOTAL SYSTEM [CRT-P]	1.751	0.041	42.58	5.76
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION PACEMAKER PULSE GENERATOR ONLY [CRT-P]	1.112	0.157	7.10	3.04
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT	0.409	0.055	7.40	1.51
INFERIOR WALL AMI	0.747	0.130	5.75	2.11
INITIAL INSERTION OF LEAD [ELECTRODE], NOT OTHERWISE SPECIFIED	0.928	0.126	7.38	2.53
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE	0.790	0.094	8.42	2.20
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE	0.774	0.096	8.11	2.17
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO ATRIUM	0.912	0.106	8.63	2.49
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO VENTRICLE	0.897	0.093	9.69	2.45
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODES] INTO ATRIUM AND VENTRICLE	1.753	0.033	53.43	5.77
INSERTION OF PERMANENT PACEMAKER, INITIAL OR REPLACEMENT, TYPE OF DEVICE NOT SPECIFIED	0.787	0.122	6.46	2.20
INSERTION OF TEMPORARY TRANSVENOUS PACEMAKER SYSTEM	0.398	0.020	19.59	1.49
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM	1.999	0.062	32.06	7.38
LEFT HEART CARDIAC CATHETERIZATION	0.341	0.026	13.19	1.41
MALIGNANT ESSENTIAL HYPERTENSION	0.249	0.054	4.64	1.28
MALNUTRITION	0.582	0.036	16.18	1.79
MITRAL VALVE STENOSIS AND AORTIC VALVE STENOSIS	0.245	0.114	2.15	1.28
NON-INVASIVE MECHANICAL VENTILATION	1.302	0.039	33.52	3.68
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.280	0.044	6.35	1.32
OBESITY HYPOVENTILATION SYNDROME	0.603	0.088	6.83	1.83
OTHER EMPHYSEMA	0.219	0.064	3.40	1.25
OTHER/UNSPEC PERIPH VASC DISEASE	0.059	0.023	2.58	1.06
POSTINFLAMMATORY PULMONARY FIBROSIS	0.208	0.051	4.05	1.23
PROCEDURE ON SINGLE VESSEL	1.020	0.091	11.24	2.77
PULMONARY HYPERTENSION	0.212	0.020	10.69	1.24
REMOVAL OF LEAD(S) [ELECTRODE] WITHOUT REPLACEMENT	1.147	0.057	20.14	3.15
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH DUAL-CHAMBER DEVICE	0.792	0.045	17.82	2.21
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE	0.650	0.092	7.04	1.92
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE	0.747	0.113	6.62	2.11
REPLACEMENT OF TRANSVENOUS ATRIAL AND/OR VENTRICULAR LEAD(S) [ELECTRODE(S)]	1.340	0.041	32.76	3.82
REVISION OF LEAD [ELECTRODE]	2.773	0.027	104.65	16.01
REVISION OR RELOCATION OF CARDIAC DEVICE POCKET	0.478	0.036	13.15	1.61
RIGHT HEART CARDIAC CATHETERIZATION	0.547	0.088	6.23	1.73
SEPSIS	0.649	0.059	10.93	1.92
TRANSFUSION OF OTHER SERUM	0.343	0.043	8.01	1.41
TRANSFUSION OF PACKED CELLS	0.858	0.026	33.16	2.36
TRANSFUSION OF PLATELETS	0.583	0.078	7.45	1.79
UNSPECIFIED DISEASE OF PERICARDIUM	0.202	0.067	3.03	1.22
UNSPECIFIED PLEURAL EFFUSION	0.448	0.038	11.90	1.57

Peripheral Vascular Bypass

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.492	0.064	7.74	1.64
AdmitSourceXferNonHospital	0.526	0.134	3.93	1.69
Age70To74	0.140	0.033	4.21	1.15
Age75To79	0.236	0.034	6.88	1.27
Age80To84	0.349	0.037	9.50	1.42
Age85To89	0.555	0.042	13.14	1.74
Age90AndOver	0.528	0.060	8.88	1.70
PrimaryFacilityPresentOnAdmissionKnownPercent	0.944	0.136	6.95	2.57
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.892	0.253	3.53	2.44
ACUTE DIASTOLIC HEART FAILURE	1.092	0.159	6.86	2.98
ACUTE OSTEOMYELITIS, ANKLE AND FOOT	0.252	0.101	2.50	1.29
ACUTE SYSTOLIC HEART FAILURE	0.617	0.157	3.93	1.85
ALZHEIMER'S DISEASE	0.225	0.107	2.11	1.25
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S)	0.221	0.039	5.67	1.25
AORTIC VALVE DISORDERS	0.245	0.060	4.09	1.28
ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY	0.346	0.039	8.96	1.41
ATHEROSCLEROSIS OF AORTA	0.199	0.074	2.69	1.22
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE	0.533	0.034	15.48	1.70
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN	0.307	0.033	9.23	1.36
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH ULCERATION	0.339	0.033	10.23	1.40
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED	0.159	0.049	3.26	1.17
ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT OF THE EXTREMITIES	0.273	0.138	1.98	1.31
ATHEROSCLEROSIS OF RENAL ARTERY	0.316	0.077	4.09	1.37
BODY MASS INDEX 40 AND OVER	0.338	0.068	4.99	1.40
CARDIOMYOPATHY	0.201	0.057	3.54	1.22
CELLULITIS AND ABSCESS OF FOOT, EXCEPT TOES	0.318	0.046	6.89	1.37
CELLULITIS AND ABSCESS OF LEG, EXCEPT FOOT	0.319	0.056	5.71	1.38
CELLULITIS AND ABSCESS OF TOE, UNSPECIFIED	0.198	0.068	2.92	1.22
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.077	0.027	2.87	1.08
CHRONIC BRONCHITIS	0.702	0.095	7.37	2.02
CHRONIC ISCHEMIC HEART DISEASE	0.496	0.047	10.65	1.64
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.529	0.061	8.63	1.70
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.682	0.082	8.36	1.98
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.317	0.063	5.04	1.37
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.367	0.031	11.82	1.44
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.159	0.026	6.15	1.17
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.131	0.030	4.40	1.14
DECUBITIS ULCER	0.259	0.065	3.97	1.30
DEHYDRATION	0.349	0.100	3.48	1.42
DEPENDENCE ON SUPPLEMENTAL OXYGEN	0.177	0.077	2.30	1.19
DIAB W NEUROVASCULAR MANIFESTATIONS	0.115	0.033	3.46	1.12

Peripheral Vascular Bypass (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.349	0.084	4.14	1.42
GANGRENE	0.278	0.068	4.08	1.32
INFRA-RENAL ANEURYSM	0.194	0.054	3.58	1.21
MALNUTRITION	0.545	0.059	9.31	1.73
MITRAL VALVE DISORDERS	0.293	0.065	4.50	1.34
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.211	0.058	3.68	1.24
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.342	0.056	6.07	1.41
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.200	0.053	3.82	1.22
OTHER ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES	0.271	0.087	3.12	1.31
PROCEDURE ON FOUR OR MORE VESSELS	0.287	0.108	2.66	1.33
PROCEDURE ON SINGLE VESSEL	0.146	0.030	4.84	1.16
PROCEDURE ON THREE VESSELS	0.365	0.070	5.22	1.44
PROCEDURE ON TWO VESSELS	0.257	0.042	6.07	1.29
PULMONARY HYPERTENSION	0.436	0.058	7.49	1.55
SECONDARY HYPERPARATHYROIDISM (OF RENAL ORIGIN)	0.216	0.087	2.48	1.24
THROMBOCYTOPENIA, UNSPECIFIED	0.275	0.076	3.63	1.32

Prostate Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.080	0.033	2.43	1.08
Age75To79	0.176	0.048	3.64	1.19
Age80To84	0.445	0.075	5.97	1.56
Age85To89	0.653	0.109	5.99	1.92
Age90AndOver	0.678	0.209	3.24	1.97
PrimaryFacilityPresentOnAdmissionKnownPercent	0.831	0.154	5.41	2.30
ANEMIA, UNSPECIFIED	0.297	0.081	3.68	1.35
BODY MASS INDEX 30-39	0.246	0.051	4.84	1.28
BODY MASS INDEX 40 AND OVER	0.662	0.088	7.52	1.94
CARDIOMYOPATHY	0.469	0.129	3.64	1.60
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.419	0.060	6.96	1.52
CHRONIC BRONCHITIS	0.955	0.222	4.30	2.60
CHRONIC ISCHEMIC HEART DISEASE	1.041	0.146	7.12	2.83
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.954	0.135	7.06	2.60
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	1.058	0.220	4.80	2.88
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.778	0.128	6.07	2.18
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.489	0.092	5.33	1.63
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.204	0.044	4.60	1.23
DEHYDRATION	1.010	0.197	5.13	2.75
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.741	0.266	2.78	2.10
DISORDERS OF LIPOID METABOLISM	0.165	0.030	5.42	1.18
HYDRONEPHROSIS	0.261	0.117	2.23	1.30
HYPERPLASIA OF PROSTATE	0.123	0.042	2.95	1.13
HYPERPOTASSEMIA	0.872	0.162	5.37	2.39
HYPOPOTASSEMIA	0.580	0.152	3.82	1.79
HYPOSMOLALITY AND/OR HYPONATREMIA	0.728	0.147	4.96	2.07
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE	-0.560	0.034	-16.57	0.57
LOCAL EXCISION OF LESION OF PROSTATE	-1.318	0.205	-6.42	0.27
MALNUTRITION	1.994	0.191	10.46	7.35
MITRAL VALVE DISORDERS	0.410	0.130	3.15	1.51
NON-MALIGNANT HYPERTENSION	0.166	0.033	5.10	1.18
NON-MALIGNANT HYPERTENSION W/O CHF	0.613	0.238	2.58	1.85
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.286	0.124	2.31	1.33
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.686	0.222	3.09	1.99
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.252	0.057	4.41	1.29
OTHER AND UNSPECIFIED ROBOTIC ASSISTED PROCEDURE	-0.497	0.104	-4.80	0.61
OTHER EMPHYSEMA	0.405	0.169	2.39	1.50
OTHER PROSTATECTOMY	0.171	0.052	3.27	1.19
OTHER/UNSPEC PERIPH VASC DISEASE	0.331	0.107	3.11	1.39
PERINEAL PROSTATECTOMY	-0.575	0.161	-3.58	0.56
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION)	0.609	0.057	10.64	1.84
RADICAL EXCISION OF ILIAC LYMPH NODES	0.307	0.095	3.23	1.36
SUPRAPUBIC PROSTATECTOMY	0.540	0.056	9.66	1.72
THROMBOCYTOPENIA, UNSPECIFIED	0.815	0.121	6.72	2.26
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.291	0.099	2.95	1.34

Spinal Fusion

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.503	0.054	9.39	1.65
AdmitSourceXferNonHospital	0.357	0.127	2.81	1.43
AdmitSourceXferSkilledNursing	0.327	0.110	2.96	1.39
Age70To74	0.155	0.017	9.31	1.17
Age75To79	0.296	0.018	16.36	1.34
Age80To84	0.398	0.022	17.81	1.49
Age85To89	0.492	0.034	14.42	1.64
Age90AndOver	0.641	0.077	8.27	1.90
PrimaryFacilityPresentOnAdmissionKnownPercent	0.703	0.078	8.99	2.02
SexFemale	-0.253	0.015	-17.12	0.78
ALZHEIMER'S DISEASE	0.347	0.091	3.82	1.42
ANEMIA, UNSPECIFIED	0.152	0.029	5.26	1.17
AORTIC VALVE DISORDERS	0.346	0.047	7.36	1.41
ASTHMA	0.075	0.023	3.26	1.08
ATRIAL FIBRILLATION	0.155	0.024	6.58	1.17
ATRIAL FLUTTER	0.289	0.094	3.09	1.34
BODY MASS INDEX 30-39	0.149	0.020	7.66	1.16
BODY MASS INDEX 40 AND OVER	0.413	0.027	15.30	1.51
CARDIOMYOPATHY	0.280	0.052	5.42	1.32
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER	0.255	0.069	3.72	1.29
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.291	0.022	13.14	1.34
CHRONIC ANEMIA	0.219	0.048	4.61	1.25
CHRONIC BRONCHITIS	0.661	0.073	9.12	1.94
CHRONIC DIASTOLIC HEART FAILURE	0.203	0.059	3.44	1.23
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.287	0.047	6.10	1.33
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.215	0.047	4.53	1.24
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.447	0.032	14.09	1.56
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.208	0.018	11.78	1.23
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.241	0.025	9.73	1.27
DEGENERATION OF LUMBAR OR LUMBOSACRAL INTERVERTEBRAL DISC	0.081	0.017	4.85	1.09
DEHYDRATION	0.712	0.074	9.68	2.04
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	0.101	0.019	5.24	1.11
DIAB W NEUROVASCULAR MANIFESTATIONS	0.257	0.037	6.91	1.29
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.094	0.015	6.12	1.10
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.626	0.054	11.55	1.87
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.163	0.067	2.43	1.18
DISORDERS OF MENINGES, NOT ELSEWHERE CLASSIFIED	0.289	0.072	4.02	1.34
DORSAL AND DORSOLUMBAR FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE	1.079	0.079	13.63	2.94
DORSAL AND DORSOLUMBAR FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE	0.622	0.034	18.44	1.86
DYSPHAGIA	0.765	0.054	14.23	2.15
ENCEPHALOPATHY	0.628	0.117	5.37	1.87
EXCISION OF BONE FOR GRAFT, UNSPECIFIED SITE	0.061	0.030	2.01	1.06

Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
EXCISION OF OTHER BONE FOR GRAFT	0.092	0.014	6.75	1.10
FUSION OR REFUSION OF 2-3 VERTEBRAE	-0.246	0.034	-7.22	0.78
FUSION OR REFUSION OF 4-8 VERTEBRAE	0.103	0.036	2.89	1.11
HYPERPLASIA OF PROSTATE	0.300	0.022	13.95	1.35
HYPOPOTASSEMIA	0.375	0.044	8.55	1.46
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, THORACIC REGION	0.319	0.085	3.74	1.38
KYPHOSIS (ACQUIRED) (POSTURAL)	0.177	0.045	3.95	1.19
LUMBAR AND LUMBOSACRAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE	0.477	0.023	21.18	1.61
LUMBAR AND LUMBOSACRAL FUSION OF THE ANTERIOR COLUMN, POSTERIOR TECHNIQUE	0.212	0.020	10.79	1.24
LUMBAR AND LUMBOSACRAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE	0.286	0.020	14.13	1.33
LUMBOSACRAL SPONDYLOSIS WITHOUT MYELOPATHY	0.041	0.019	2.20	1.04
MALNUTRITION	1.047	0.060	17.43	2.85
MITRAL VALVE DISORDERS	0.184	0.044	4.19	1.20
NARROWING OF CEREBRAL ARTERY	0.286	0.053	5.37	1.33
NON-MALIGNANT HYPERTENSION	0.087	0.016	5.60	1.09
NON-MALIGNANT HYPERTENSION W/O CHF	0.421	0.083	5.07	1.52
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.588	0.043	13.81	1.80
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.568	0.090	6.34	1.76
OBESITY HYPOVENTILATION SYNDROME	1.736	0.126	13.75	5.67
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.287	0.020	14.08	1.33
OSTEOPOROSIS, UNSPECIFIED	0.076	0.025	3.06	1.08
OTHER AND UNSPECIFIED DISC DISORDER OF LUMBAR REGION	0.159	0.066	2.43	1.17
OTHER CERVICAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE	-0.149	0.026	-5.64	0.86
OTHER CERVICAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE	0.411	0.029	13.98	1.51
OTHER CHRONIC NONALCOHOLIC LIVER DISEASE	0.245	0.101	2.43	1.28
OTHER EMPHYSEMA	0.224	0.066	3.39	1.25
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL	0.121	0.019	6.49	1.13
OTHER KYPHOSCOLIOSIS AND SCOLIOSIS	0.193	0.036	5.43	1.21
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS	0.225	0.050	4.49	1.25
OTHER/UNSPEC PERIPH VASC DISEASE	0.104	0.032	3.20	1.11
PARALYSIS AGITANS	0.304	0.049	6.24	1.36
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA	0.390	0.141	2.76	1.48
PATHOLOGIC FRACTURE OF VERTEBRAE	0.175	0.049	3.56	1.19
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH	0.077	0.016	4.71	1.08
PULMONARY HYPERTENSION	0.676	0.049	13.88	1.97
QUADRIPLEGIA, UNSPECIFIED	0.719	0.069	10.42	2.05
REPAIR OF VERTEBRAL FRACTURE	0.591	0.068	8.71	1.81
RETENTION OF URINE, UNSPECIFIED	0.231	0.047	4.93	1.26
RHEUMATOID ARTHRITIS	0.073	0.034	2.19	1.08
SCOLIOSIS [AND KYPHOSCOLIOSIS], IDIOPATHIC	0.192	0.023	8.42	1.21
SCOLIOSIS ASSOCIATED WITH OTHER CONDITIONS	0.323	0.062	5.21	1.38
SPINAL FUSION, NOT OTHERWISE SPECIFIED	0.206	0.091	2.27	1.23
SPINAL STENOSIS, LUMBAR REGION, WITHOUT NEUROGENIC CLAUDICATION	0.058	0.016	3.56	1.06

Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
SPONDYLOSIS WITH MYELOPATHY, LUMBAR REGION	0.188	0.056	3.37	1.21
THROMBOCYTOPENIA, UNSPECIFIED	0.325	0.050	6.50	1.38
TOBACCO USE DISORDER	0.073	0.025	2.92	1.08
TRANSFUSION OF PACKED CELLS	0.939	0.018	51.05	2.56
UNSPECIFIED IDIOPATHIC PERIPHERAL NEUROPATHY	0.100	0.035	2.87	1.11
UNSPECIFIED URINARY INCONTINENCE	0.130	0.047	2.78	1.14
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.394	0.040	9.74	1.48

Total Knee Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.572	0.095	6.04	1.77
AdmitSourceXferNonHospital	0.312	0.159	1.97	1.37
AdmitSourceXferSkilledNursing	0.200	0.099	2.02	1.22
Age70To74	0.151	0.011	13.37	1.16
Age75To79	0.356	0.012	30.12	1.43
Age80To84	0.544	0.013	40.67	1.72
Age85To89	0.714	0.018	39.78	2.04
Age90AndOver	0.860	0.038	22.48	2.36
PrimaryFacilityPresentOnAdmissionKnownPercent	0.529	0.041	12.80	1.70
SexFemale	-0.172	0.010	-18.16	0.84
ALZHEIMER'S DISEASE	0.449	0.058	7.77	1.57
ANEMIA, UNSPECIFIED	0.055	0.019	2.83	1.06
AORTIC VALVE DISORDERS	0.281	0.027	10.26	1.33
ASTHMA	0.059	0.014	4.05	1.06
ATRIAL FIBRILLATION	0.107	0.013	8.15	1.11
Bi-lateral Knee Replacement	0.634	0.019	33.64	1.89
BODY MASS INDEX 30-39	0.111	0.011	10.18	1.12
BODY MASS INDEX 40 AND OVER	0.426	0.014	30.71	1.53
CARDIOMYOPATHY	0.263	0.032	8.27	1.30
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	0.289	0.016	18.51	1.34
CHRONIC ANEMIA	0.284	0.027	10.57	1.33
CHRONIC BRONCHITIS	0.731	0.052	14.03	2.08
CHRONIC DIASTOLIC HEART FAILURE	0.101	0.036	2.80	1.11
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.279	0.027	10.30	1.32
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.252	0.028	9.05	1.29
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.488	0.020	24.95	1.63
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.249	0.011	21.79	1.28
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT	0.208	0.017	12.27	1.23
DEHYDRATION	1.138	0.052	22.02	3.12
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	0.201	0.013	16.01	1.22
DIAB W NEUROVASCULAR MANIFESTATIONS	0.289	0.028	10.48	1.34
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.141	0.010	14.49	1.15
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED	0.691	0.039	17.81	2.00
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED	0.122	0.040	3.06	1.13
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE	0.243	0.026	9.55	1.28
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY	0.228	0.045	5.14	1.26
FIRST DEGREE ATRIOVENTRICULAR BLOCK	0.103	0.049	2.11	1.11
HEART VALVE REPLACED BY OTHER MEANS	0.149	0.037	4.01	1.16
HYPERPLASIA OF PROSTATE	0.216	0.014	15.08	1.24
HYPERPOTASSEMIA	0.670	0.046	14.70	1.95
HYPOPOTASSEMIA	0.176	0.037	4.81	1.19
MITRAL VALVE DISORDERS	0.131	0.026	4.97	1.14
NARROWING OF CEREBRAL ARTERY	0.206	0.038	5.44	1.23

Total Knee Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIGNANT HYPERTENSION	0.140	0.011	13.38	1.15
NON-MALIGNANT HYPERTENSION W/O CHF	0.459	0.047	9.80	1.58
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.824	0.025	32.48	2.28
NON-MALIGNANT RENAL DISEASE WITH FAILURE	0.874	0.082	10.68	2.40
OBESITY HYPOVENTILATION SYNDROME	1.827	0.066	27.83	6.22
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.272	0.013	21.65	1.31
OSTEOARTHRITIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, LOWER LEG	0.073	0.011	6.57	1.08
OSTEOARTHRITIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE	0.144	0.035	4.14	1.15
OSTEOPOROSIS, UNSPECIFIED	0.065	0.017	3.81	1.07
OTHER EMPHYSEMA	0.436	0.047	9.27	1.55
OTHER LEFT BUNDLE BRANCH BLOCK	0.289	0.042	6.84	1.33
OTHER/UNSPEC PERIPH VASC DISEASE	0.148	0.024	6.16	1.16
PARALYSIS AGITANS	0.241	0.041	5.91	1.27
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH	0.121	0.011	11.41	1.13
PULMONARY HYPERTENSION	0.831	0.027	30.48	2.30
RIGHT BUNDLE BRANCH BLOCK	0.211	0.038	5.58	1.24
TACHYCARDIA, UNSPECIFIED	0.422	0.075	5.62	1.53
THROMBOCYTOPENIA, UNSPECIFIED	0.397	0.030	13.08	1.49
TOBACCO USE DISORDER	0.169	0.021	8.11	1.18
UNSPECIFIED IDIOPATHIC PERIPHERAL NEUROPATHY	0.097	0.026	3.76	1.10

Transurethral Prostate Resection Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.270	0.091	2.97	1.31
AdmitSourceXferNonHospital	0.432	0.153	2.82	1.54
Age70To74	0.079	0.045	1.76	1.08
Age75To79	0.173	0.044	3.92	1.19
Age80To84	0.284	0.044	6.47	1.33
Age85To89	0.391	0.047	8.39	1.48
Age90AndOver	0.486	0.056	8.70	1.63
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE	0.658	0.204	3.22	1.93
ACUTE DIASTOLIC HEART FAILURE	0.497	0.134	3.71	1.65
ACUTE SYSTOLIC HEART FAILURE	0.474	0.117	4.05	1.61
AORTIC VALVE DISORDERS	0.341	0.073	4.68	1.41
ATRIAL FLUTTER	0.278	0.111	2.50	1.32
BODY MASS INDEX 30-39	0.113	0.055	2.06	1.12
BODY MASS INDEX 40 AND OVER	0.351	0.084	4.17	1.42
CARDIOMYOPATHY	0.436	0.063	6.91	1.55
CHRONIC ANEMIA	0.267	0.058	4.63	1.31
CHRONIC BRONCHITIS	0.527	0.090	5.86	1.69
CHRONIC ISCHEMIC HEART DISEASE	0.451	0.071	6.35	1.57
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE)	0.494	0.065	7.59	1.64
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)	0.604	0.085	7.15	1.83
CHRONIC KIDNEY DISEASE, STAGE V	0.910	0.198	4.60	2.49
CHRONIC KIDNEY DISEASE, UNSPECIFIED	0.338	0.062	5.43	1.40
CONGESTIVE HEART FAILURE, UNSPECIFIED	0.459	0.039	11.71	1.58
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL	0.093	0.031	3.02	1.10
DEHYDRATION	0.270	0.064	4.20	1.31
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE	0.354	0.076	4.66	1.43
DISORDERS OF LIPOID METABOLISM	0.074	0.026	2.86	1.08
END STAGE RENAL DISEASE	0.485	0.106	4.56	1.62
HYDRONEPHROSIS	0.388	0.041	9.45	1.47
HYPERPOTASSEMIA	0.200	0.066	3.01	1.22
HYPOSMOLALITY AND/OR HYPONATREMIA	0.404	0.056	7.20	1.50
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE	0.325	0.112	2.92	1.39
MALNUTRITION	0.691	0.069	9.98	2.00
MITRAL VALVE DISORDERS	0.372	0.078	4.76	1.45
NON-MALIGNANT RENAL DISEASE W/O FAILURE	0.136	0.059	2.33	1.15
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC)	0.159	0.055	2.86	1.17
THROMBOCYTOPENIA, UNSPECIFIED	0.453	0.069	6.56	1.57
TRANSURETHRAL (ULTRASOUND) GUIDED LASER INDUCED PROSTATECTOMY (TULIP)	0.101	0.033	3.06	1.11
URINARY TRACT INFECTION, SITE NOT SPECIFIED	0.217	0.033	6.51	1.24

Appendix F. Model Fit Statistics

Cohort	c-stat	In-hospital		In-hospital + 30 days		
		Lower CI	Upper CI	c-stat	Lower CI	Upper CI
Abdominal Aortic Aneurysm Repair	0.760	0.755	0.765	Not evaluated at 30 days		
Appendectomy	0.790	0.787	0.794	Not evaluated at 30 days		
Back and Neck Surgeries (without Spinal Fusion)	0.729	0.725	0.734	Not evaluated at 30 days		
Bowel Obstruction	0.879	0.876	0.882	0.840	0.837	0.843
Carotid Surgery	0.677	0.673	0.681	Not evaluated at 30 days		
Chronic Obstructive Pulmonary Disease (COPD)	0.847	0.844	0.850	0.764	0.762	0.767
Colorectal Surgeries	0.898	0.896	0.901	0.886	0.884	0.888
Coronary Artery Bypass Graft (CABG) Surgery	0.809	0.802	0.815	0.781	0.775	0.787
Coronary Interventional Procedures (Inpatient)	0.905	0.902	0.907	0.867	0.864	0.869
Cranial Neurosurgery	0.921	0.917	0.924	0.868	0.863	0.872
Defibrillator Procedures	0.738	0.733	0.742	Not evaluated at 30 days		
Diabetic Emergencies	0.867	0.859	0.875	0.790	0.784	0.795
Esophageal/Stomach Surgeries	0.827	0.824	0.831	0.798	0.796	0.801
Gallbladder Removal Surgery	0.714	0.711	0.716	Not evaluated at 30 days		
Gastrointestinal Bleed	0.873	0.870	0.876	0.810	0.807	0.812
Heart Attack (stent available)	0.888	0.886	0.890	0.857	0.856	0.858
Heart Attack (stent not available)	0.844	0.839	0.849	0.798	0.793	0.802
Heart Failure	0.862	0.860	0.864	0.774	0.772	0.775
Hip Fracture Treatment	0.704	0.702	0.705	Not evaluated at 30 days		
Hip Replacement	0.696	0.693	0.699	Not evaluated at 30 days		
Pacemaker Procedures	0.740	0.737	0.743	Not evaluated at 30 days		
Pancreatitis	0.857	0.850	0.865	0.828	0.822	0.835
Peripheral Vascular Bypass	0.702	0.696	0.707	Not evaluated at 30 days		
Pneumonia	0.838	0.836	0.840	0.790	0.788	0.791
Prostate Removal Surgery	0.694	0.686	0.702	Not evaluated at 30 days		
Pulmonary Embolism	0.876	0.871	0.880	0.838	0.834	0.841
Respiratory Failure	0.879	0.878	0.881	0.836	0.834	0.837
Sepsis	0.876	0.876	0.877	0.849	0.848	0.850
Small Intestine Surgeries	0.861	0.856	0.865	0.855	0.851	0.859
Spinal Fusion	0.737	0.734	0.740	Not evaluated at 30 days		
Stroke	0.910	0.908	0.911	0.866	0.865	0.868
Total Knee Replacement	0.681	0.679	0.683	Not evaluated at 30 days		
Transurethral Prostate Resection Surgery	0.676	0.669	0.682	Not evaluated at 30 days		
Valve Surgery	0.778	0.772	0.783	0.753	0.748	0.758

Appendix G. Hospital Ratings Removal Policy

Effective Date: August 16, 2015

Healthgrades evaluates the performance of the nation's nearly 5,000 hospitals using several data sources including data submitted by hospitals to the Centers for Medicare and Medicaid Services (CMS), all-payer data submitted by hospitals to their states, and HCAHPS data.

Regardless of the data set utilized, Healthgrades methodology is applied to every hospital in the same manner.

On rare occasions, Healthgrades identifies new information that impacts its assessment of a hospital. Healthgrades policy is to remove certain hospitals' performance and/or awards from its website in the following situations:

- A revocation of a hospital's Medicare license by CMS;
- Federal conviction of a hospital for Medicare fraud;
- Egregious issues with the integrity of data submitted by a hospital to CMS or to the state in which the hospital resides.

In these rare circumstances, the hospital's CEO will be notified in writing of the reason for removal. Removal is at the discretion of Healthgrades based on the impact from erroneous data and/or presumed fraudulent activities.

Under no circumstances will Healthgrades accept data directly from a hospital, nor will Healthgrades manipulate or change a hospital's performance category or data in any way. It is the hospital's responsibility to resubmit the data to CMS or to its state. To re-post specific performance information, Healthgrades must receive corrected data directly from CMS or from the state during its annual ratings update.