

Healthgrades Mortality and Complications Outcomes

2015 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 co-morbid 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 or 30-day post-admission mortality. In cases where Medicare data does not adequately represent to population with a specific condition or procedure, such as appendectomy, Healthgrades evaluated hospitals using all-payer data from 17 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 2011 through 2013. 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 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 17 states that provide all-payer state data (AZ, CO, FL, IA, MA, MD, NJ, NV, NY, OR, PA, RI, TX, UT, VA, WA, and WI) for years 2010 through 2012 (one year behind MedPAR data years 2011-2013). 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 2010 through 2012.
- Inpatient data for the appendectomy cohort was provided by California for 2010 and by Illinois for the year 2011. This data was used in the risk adjustment model appendectomy, but given the lack of three complete years of data, hospitals in California and Illinois were not evaluated and ratings will not appear on profiles for hospitals in these two states.

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 2011-2013 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 653 rated for prostate removal surgery to a high of 4,264 rated for chronic obstructive pulmonary disease.

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	Neurosurgery
Chronic Obstructive Pulmonary Disease (COPD)	Pancreatitis
Colorectal Surgeries	Pneumonia
Coronary Artery Bypass Graft (CABG) Surgery	Pulmonary Embolism
Coronary Interventional Procedures	Respiratory Failure
Diabetic Emergencies	Sepsis
Esophageal/Stomach Surgeries	Small Intestine Surgeries
Gastrointestinal Bleed	Stroke
Heart Attack	Valve Surgery
Heart Failure	
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 2013 MedPAR file layout document* and how they were used by Healthgrades in determining in-hospital complications in the current 2015 award year analyses.

Table 2. Present On Admissions 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. March 2014. Available from the Centers for Medicare and Medicaid Services.
http://www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/LimitedDataSets/Downloads/2013_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 co-morbid 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 co-morbid conditions such as 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 (e.g., age and gender), 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 $p < 0.05$ 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, Wald scores, 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 0.751 to 0.916. 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

Beginning with the 2015 award year, Healthgrades Mortality and Complications Methodology includes coefficient summary tables for 33 logistic regression models (see *Appendix D* and *Appendix E*). 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.
- **Wald Score** – 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

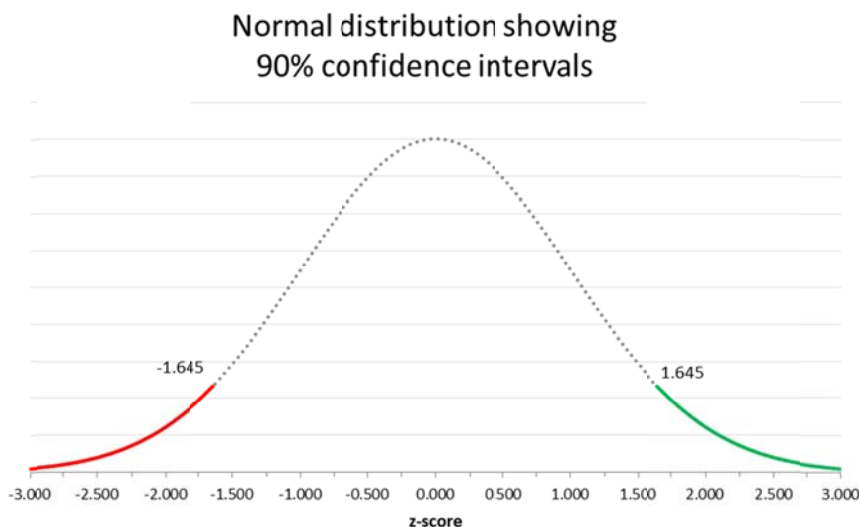
Once the regression models were developed, Healthgrades stratified hospital performance for each of the 33 conditions or procedures into three categories:

- ★★★★★ **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	<ul style="list-style-type: none"> Laparoscopic Open procedures 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> In-hospital Within 30 days of admission 	<ul style="list-style-type: none"> Coronary bypass for cardiac revascularization with: internal mammary artery or vein One or more vessels 	<ul style="list-style-type: none"> Cases with accompanying: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> In-hospital Within 30 days of admission 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> CABG or valve surgery during the same stay
Defibrillator Procedures Defined by Diagnosis Related Group (DRG) Evaluated on in-hospital complication rates	<ul style="list-style-type: none"> Defibrillator implants 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> In-hospital Within 30 days of admission 	<ul style="list-style-type: none"> All myocardial infarcts, initial episode of care 	<ul style="list-style-type: none"> Respirator-dependent status (V46.11) Left ventricular assist device (V43.21) Metastatic cancers Discharge to hospice

Cardiac Service Line (continued)

<p>Heart Failure First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Systolic, diastolic, combined, left, or rheumatic • Acute or chronic • Decompensated or compensated 	<ul style="list-style-type: none"> • Dialysis during the same stay (39.95) • Respirator-dependent status (V46.11) • Left ventricular assist device (V43.21) • Metastatic cancers • Discharge to hospice
<p>Pacemaker Procedures Diagnosis Related Group (DRG) Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Pacemaker implants • Replacement of pacemaker implant • Revision of pacemaker implants • Pacemaker lead removal 	<ul style="list-style-type: none"> • CABG or valve surgery during the same stay • Coronary angioplasty/stenting during the same stay
<p>Valve Surgery Procedure at any position May have CABG during the same hospital stay Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Replacement with repair • Open repair • Aortic, mitral, pulmonary, or tricuspid • TAVR: Femoral and Apical approach 	<ul style="list-style-type: none"> • Thoracic and aortic dissections

Critical Care Service Line

Cohort	Inclusions	Notable Exclusions
<p>Diabetic Emergencies First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Diabetic Ketoacidosis • HHNK (Hyperosmolar Hyperglycemic Non-ketotic Coma) • Hypoglycemic shock 	<ul style="list-style-type: none"> • Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Patients discharged alive with a length of stay < 1 day
<p>Pulmonary Embolism First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Pulmonary embolism and infarction • Iatrogenic 	<ul style="list-style-type: none"> • Metastatic cancers • Left ventricular assist device (V43.21) • Patients discharged alive with a length of stay < 1 day • Discharge to hospice
<p>Respiratory Failure First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Acute respiratory failure • Acute on chronic respiratory failure 	<ul style="list-style-type: none"> • Metastatic cancers • Left ventricular assist device (V43.21) • Discharge to hospice
<p>Sepsis First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Sepsis <ul style="list-style-type: none"> ○ Bacterial ○ Fungal ○ Viral ○ Unspecified organism • Severe Sepsis • Septic Shock 	<ul style="list-style-type: none"> • 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
<p>Bowel Obstruction First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Pyloric stenosis • Gastrojejunal ulcer with obstruction • Intestinal obstruction without hernia • Duodenal ulcer with obstruction • Other obstruction of duodenum • Hernia with obstruction • Gallstone ileus • Intussusception 	<ul style="list-style-type: none"> • Metastatic cancers • Left ventricular assist device (V43.21) • Discharge to hospice • Patients deceased with a length of stay <1 day
<p>Colorectal Surgeries First Listed Procedure Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Resection of Colon • Resection of Rectum • Hemicolectomy (Open and laparoscopic) • Sigmoidectomy (Open and laparoscopic) • Cecectomy (Open and laparoscopic) • Large-to-Large intestine anastomosis • Colostomy procedure 	<ul style="list-style-type: none"> • Metastatic cancers
<p>Esophageal/Stomach Surgeries First Listed Procedure Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Gastrostomy • Gastrectomy • Procedures for control of bleeding • Sutures of ulcer sites • Vagotomy • Repairs of stomach or esophagus 	<ul style="list-style-type: none"> • Metastatic cancers • Patients undergoing a bariatric (weight-loss) procedure
<p>Gallbladder Removal Surgery (Cholecystectomy) First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Open or laparoscopic • Partial 	<ul style="list-style-type: none"> • Does not include primary procedure of gallbladder stenting
<p>Gastrointestinal Bleed First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Bleeding/hemorrhage from any of the following: <ul style="list-style-type: none"> ○ 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 	<ul style="list-style-type: none"> • 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)

<p>Small Intestine Surgeries First Listed Procedure Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Resection of small intestine • Small to small intestine anastomosis • Closure of stoma of small intestine • Suture of small intestine laceration 	<ul style="list-style-type: none"> • Metastatic cancers • Patients undergoing a bariatric (weight-loss) procedure
<p>Pancreatitis First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Acute • Chronic 	<ul style="list-style-type: none"> • Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice

Neurosciences Service Line

Cohort	Inclusions	Notable Exclusions
<p>Neurosurgery First Listed Procedure Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Intracranial vascular procedures for hemorrhage: <ul style="list-style-type: none"> ○ Aneurysm repairs ○ Clippings ○ Coilings ○ Intracranial angioplasties • Craniotomies • Ventricular shunts 	<ul style="list-style-type: none"> • Head trauma
<p>Stroke First Listed Diagnosis Evaluated on mortality rates at two time periods:</p> <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Subarachnoid hemorrhage • Intracerebral hemorrhage • Intracranial hemorrhage, unspecified • Occlusion and stenosis of basilar, carotid, or vertebral artery • Cerebral thrombosis, embolism, or occlusion 	<ul style="list-style-type: none"> • 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
<p>Back & Neck Surgeries (Without Spinal Fusion) First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Injuries associated with major trauma • Post-laminectomy syndrome: cervical, thoracic, or lumbar • Patients with secondary bone cancer
<p>Hip Fracture Treatment First Listed Diagnosis May be treated with total hip replacement Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Closed femur neck fractures • Closed trochanteric and subtrochanteric fractures • Closed intertrochanteric fractures 	<ul style="list-style-type: none"> • 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
<p>Hip Replacement First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Primary hip replacement • Bilateral cases • Partial and total hip resurfacing 	<ul style="list-style-type: none"> • Injuries associated with major trauma • Hip fracture diagnosis • Revisions • Removal of hardware • Knee replacement during the same stay
<p>Spinal Fusion First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • 2-8 level fusion • Performed within 3rd cervical vertebrae to lumbosacral spine • Single incision approach 	<ul style="list-style-type: none"> • Injuries associated with major trauma • C1-C2 fusions • 9+ Level Fusions • Refusions • Post-laminectomy syndrome: cervical, thoracic, or lumbar • Patients with secondary bone cancer
<p>Total Knee Replacement First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Primary total knee replacement [bicompartamental, tricompartmental, unicompartmental (hemi-joint)] • Bilateral cases 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Radical prostatectomy – suprapubic, retropubic, and perineal approaches • Local excision of lesion of prostate 	<ul style="list-style-type: none"> • None
Transurethral Prostate Resection Surgery First Listed Procedure Evaluated on in-hospital complication rates	<ul style="list-style-type: none"> • Transurethral guided laser induced prostatectomy (TULIP) • Other transurethral prostatectomies (including TURP) 	<ul style="list-style-type: none"> • None

Pulmonary Service Line

Cohort	Inclusions	Notable Exclusions
Chronic Obstructive Pulmonary Disease First Listed Diagnosis Evaluated on mortality rates at two time periods: <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Chronic bronchitis • Simple and obstructive bronchitis with and without exacerbation • Chronic airway obstruction, not elsewhere classified • Chronic obstructive asthma • Emphysema • Bronchiectasis 	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • In-hospital • Within 30 days of admission 	<ul style="list-style-type: none"> • Pneumonia <ul style="list-style-type: none"> ○ Bacterial ○ Fungal ○ Viral ○ Unspecified organism 	<ul style="list-style-type: none"> • Respirator-dependent status (V46.11) • Metastatic cancers • Left ventricular assist device (V43.21) • SARS-related • Discharge to hospice

Vascular Service Line

Cohort	Inclusions	Notable Exclusions
<p>Abdominal Aortic Aneurysm Repair First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Excision of aneurysm and resection with anastomosis with and without replacement of the aorta • Endovascular implantation of a graft in the abdominal aorta 	<ul style="list-style-type: none"> • Rupture of abdominal aortic aneurysm • Aortic dissection • During the same stay: <ul style="list-style-type: none"> ○ 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
<p>Carotid Surgery First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Carotid endarterectomy • Carotid stent placement • Percutaneous angioplasty of pre-cerebral vessels 	<ul style="list-style-type: none"> • Presence of subarachnoid, intracerebral and subdural hemorrhage • CABG during the same stay • Resection of other peripheral vessel with anastomosis
<p>Peripheral Vascular Bypass First Listed Procedure Evaluated on in-hospital complication rates</p>	<ul style="list-style-type: none"> • Peripheral vascular shunt or bypass: <ul style="list-style-type: none"> ○ Axillary-brachial ○ Axillary-femoral ○ Brachial ○ Femoral-femoral ○ Femoroperoneal ○ Femoropopliteal ○ Femorotibial ○ Popliteal ○ Vascular bypass not otherwise specified 	<ul style="list-style-type: none"> • 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

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: 3,28,29,30,490,491

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): V54.09, 198.5, 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

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 (Other than first listed) 03.02 occurring with any 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): 430, 431, 432.1, 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

Chronic Obstructive Pulmonary Disease (COPD)

Inclusions

Diagnosis (First listed): 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, 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

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, 46.42, 46.50, 46.52, 46.60, 46.63, 46.64, 46.75, 46.76, 46.79, 46.80, 46.82, 46.85, 46.86, 46.87, 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 (First listed): 00.66, 36.07, 36.09
Procedure (First listed and only when occurs with 00.66,36.06,36.07,36.09): 37.61

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, 50.59, 52.80, 52.82, 52.83, 55.69
Procedure (First listed): 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

Defibrillator Procedures

Inclusions

DRG: 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, 44.00, 44.01, 44.02, 44.03, 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, 44.68, 44.69, 44.92, 44.93, 44.94, 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 (Cholecystectomy) Surgery

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, 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: 3, 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: 3, 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): 996.41, 996.43

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 (First listed and only when occurs when the first listed diagnosis is one of the following: 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): 00.62, 39.51, 39.52, 39.53, 39.72, 39.74, 39.75, 39.76, 39.79

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

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

Pancreatitis

Inclusions

Diagnosis (First listed): 577.0, 577.1

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

Diagnosis (First listed): 250.60, 250.61, 250.62, 250.63, 250.70, 250.71, 250.72, 250.73, 250.80, 250.81, 250.82, 250.83, 440.20, 440.21, 440.22, 440.23, 440.24, 440.29, 440.30, 440.32, 442.2, 442.3, 443.89, 443.9, 444.22, 444.81, 445.02, 447.1, 681.10, 682.6, 682.7, 686.8, 707.10, 707.12, 707.13, 707.14, 707.15, 707.19, 707.8, 730.06, 730.07, 730.16, 730.17, 730.18, 730.26, 730.27, 785.4, 902.53, 904.41

Procedure (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, 55.69

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, 45.92, 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 Group Combination: Procedure (First Listed): 81.00, 81.02, 81.03, 81.04, 81.05, 81.06, 81.07, 81.08, 81.61 AND One of the following DRGs: 3, 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): 198.5, 324.1, 324.9, 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

Diagnosis and Procedure Combination: Procedure (Other than first listed) 03.02 occurring with any of the following diagnoses (Any position): 722.80, 722.81, 722.82, 722.83

Stroke

Inclusions

Diagnosis (First listed): 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

Total Knee Replacement**Inclusions**

Procedure and Diagnosis Related Group Combination: Procedure (First Listed): 81.54 AND
One of the following DRGs: 3, 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): 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): 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

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 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
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
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
998.2	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 997.5 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
31.1 TEMPORARY TRACHEOSTOMY
31.29 OTHER PERMANENT TRACHEOSTOMY
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
426.4 RIGHT BUNDLE BRANCH BLOCK
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
567.29	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
707.25	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 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS or 998.59 OTHER POSTOPERATIVE INFECTION

995.92 SEVERE SEPSIS

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

569.83 PERFORATION OF INTESTINE

Must occur with 997.5 URINARY COMPLICATIONS

584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS

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

568.81 HEMOPERITONEUM (NONTRAUMATIC)

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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 998.51 INFECTED POSTOPERATIVE SEROMA or 998.59 OTHER POSTOPERATIVE INFECTION

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
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Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45	INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE
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Must not occur with v15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or

v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

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
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
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
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
998.2	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
435.1 VERTEBRAL ARTERY SYNDROME
435.2 SUBCLAVIAN STEAL SYNDROME
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
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
- 426.0 ATRIOVENTRICULAR BLOCK, COMPLETE
- 426.13 OTHER SECOND DEGREE ATRIOVENTRICULAR BLOCK
- 426.4 RIGHT BUNDLE BRANCH BLOCK
- 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 DEFIBRINATION 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
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 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS or 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE

569.83 PERFORATION 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 998.11 HEMORRHAGE COMPLICATING A PROCEDURE or 998.2 ACCIDENTAL PUNCTURE OR LACERATION DURING 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	DEFIBRINATION 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 not occur with v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

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	DEFIBRINATION 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
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
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

Must not occur with v15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

- 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
435.1	VERTEBRAL ARTERY SYNDROME
435.2	SUBCLAVIAN STEAL SYNDROME
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
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
426.13	OTHER SECOND DEGREE ATRIOVENTRICULAR BLOCK
426.4	RIGHT BUNDLE BRANCH BLOCK
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	DEFIBRINATION 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
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
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
998.2	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 998.51 INFECTED POSTOPERATIVE SEROMA or 998.59 OTHER POSTOPERATIVE INFECTION

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

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

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 DEFIBRINATION 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
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

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 not occur with v15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

- 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 DEFIBRINATION 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
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
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

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

- 008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

Must not occur with v15.88 PERSONAL HISTORY OF FALL, PRESENTING HAZARDS TO HEALTH or v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

- 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 not occur with v42.4 BONE REPLACED BY TRANSPLANT or v43.64 HIP JOINT REPLACED BY OTHER MEANS or v43.65 KNEE JOINT REPLACED BY OTHER MEANS or v45.4 ARTHRODESIS STATUS or v54.01 ENCOUNTER FOR REMOVAL OF INTERNAL FIXATION DEVICE or v54.02 ENCOUNTER FOR LENGTHENING/ADJUSTMENT OF GROWTH ROD or v54.09 OTHER AFTERCARE INVOLVING INTERNAL FIXATION DEVICE

- 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	RECLASURE 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	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	*				0.202	0.03	35.39	1.22
Admit Source: Transfer From Other Healthcare Facility	0.247	0.08	8.85	1.280	0.373	0.06	35.55	1.45
Admit Source: Transfer From Skilled Nursing Facility	0.144	0.05	9.18	1.160	0.411	0.03	145.99	1.51
Age 70 To 74	0.384	0.05	72.42	1.470	0.354	0.04	101.21	1.42
Age 75 To 79	0.612	0.04	202.23	1.850	0.593	0.03	313.19	1.81
Age 80 To 84	0.901	0.04	474.18	2.460	0.850	0.03	692.84	2.34
Age 85 To 89	1.106	0.04	701.47	3.020	1.101	0.03	1148.35	3.01
Age 90 And Over	1.410	0.04	1067.47	4.100	1.535	0.03	2137.67	4.64
Sex = Female	-0.144	0.02	48.65	0.870	-0.154	0.02	92.82	0.86
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.234	0.09	6.24	1.260	0.240	0.07	10.80	1.27
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.206	0.09	5.78	1.230	*			
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.406	0.06	48.04	1.500	0.571	0.05	155.95	1.77
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.197	0.03	35.55	1.220	0.235	0.03	81.41	1.27
ACIDOSIS (276.2)	0.723	0.04	306.47	2.060	0.526	0.04	218.63	1.69
HYPERPOTASSEMIA (276.7)	0.351	0.05	45.90	1.420	0.282	0.04	45.54	1.33
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.222	0.05	16.97	1.250	0.158	0.04	13.22	1.17
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.368	0.09	17.53	1.45
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.260	0.06	16.62	1.3
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.135	0.05	6.61	1.140	0.386	0.04	108.82	1.47
ALZHEIMER'S DISEASE (331.0)	0.142	0.05	7.60	1.150	0.209	0.06	10.81	1.23
PARALYSIS AGITANS (332.0)	0.151	0.07	5.28	1.160	0.194	0.05	15.66	1.21
AORTIC VALVE DISORDERS (424.1)	0.144	0.05	7.10	1.160	0.141	0.04	10.97	1.15
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.431	0.10	19.31	1.540	0.305	0.08	13.54	1.36
ATRIAL FIBRILLATION (427.31)	0.281	0.02	148.06	1.330	0.280	0.02	242.11	1.32
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.119	0.06	4.13	1.130	*			
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.354	0.03	182.23	1.430	0.359	0.02	309.99	1.43
OTHER EMPHYSEMA (492.8)	*				0.198	0.07	7.76	1.22
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.284	0.03	116.43	1.330	0.301	0.02	216.66	1.35
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.496	0.05	83.29	1.640	0.572	0.04	183.34	1.77
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.488	0.08	38.43	1.630	0.378	0.06	35.29	1.46
ACUTE RESPIRATORY FAILURE (518.81)	1.220	0.07	299.43	3.390	1.056	0.06	283.28	2.87

Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC RESPIRATORY FAILURE (518.83)	*				0.197	0.07	8.11	1.22
RECURRENT UNILATERAL OR UNSPECIFIED INGUINAL HERNIA WITH OBSTRUCTION, WITHOUT MENTION OF GANGRENE (550.11)	*				-0.236	0.08	8.05	0.79
UNSPECIFIED VENTRAL HERNIA WITH OBSTRUCTION (552.20)	0.169	0.06	7.08	1.180	*			
INCISIONAL HERNIA WITH OBSTRUCTION (552.21)	*				-0.114	0.04	9.57	0.89
HERNIA OF OTHER SPECIFIED SITES, WITH OBSTRUCTION (552.8)	*				-0.115	0.05	4.82	0.89
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.351	0.05	54.72	1.420	0.326	0.04	58.30	1.39
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.500	0.05	107.10	1.650	0.392	0.04	81.87	1.48
PARALYTIC ILEUS (560.1)	*				0.161	0.02	60.22	1.18
VOLVULUS (560.2)	0.250	0.04	36.99	1.280	0.235	0.04	42.98	1.26
OTHER IMPACTION OF INTESTINE (560.39)	*				0.241	0.08	8.63	1.27
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION) (560.81)	*				-0.239	0.03	91.26	0.79
OTHER SPECIFIED INTESTINAL OBSTRUCTION (560.89)	0.222	0.04	35.09	1.250	0.226	0.03	61.57	1.25
PERFORATION OF INTESTINE (569.83)	0.746	0.07	133.62	2.110	0.685	0.06	133.50	1.98
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.605	0.09	47.06	1.830	0.809	0.07	151.11	2.25
ACUTE PANCREATITIS (577.0)	0.260	0.10	6.31	1.300	*			
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.505	0.08	38.19	1.660	0.568	0.06	81.80	1.76
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.481	0.06	66.72	1.620	0.483	0.05	104.59	1.62
END STAGE RENAL DISEASE (585.6)	1.253	0.13	95.64	3.500	1.319	0.10	164.80	3.74
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.242	0.03	49.22	1.270	0.257	0.03	92.27	1.29
HYDRONEPHROSIS (591)	0.231	0.08	9.57	1.260	0.328	0.06	33.26	1.39
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.261	0.12	4.58	1.300	0.202	0.09	4.73	1.22
TACHYCARDIA, UNSPECIFIED (785.0)	0.259	0.10	7.31	1.300	0.286	0.08	14.40	1.33
HYPOXEMIA (799.02)	*				0.147	0.06	5.23	1.16
CACHEXIA (799.4)	0.726	0.07	119.37	2.070	0.696	0.06	157.18	2.01
GASTROSTOMY STATUS (V44.1)	*				0.208	0.07	9.26	1.23
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.197	0.06	12.12	1.220	0.225	0.05	25.48	1.25
DO NOT RESUSCITATE STATUS (V49.86)	0.653	0.03	396.72	1.920	0.761	0.03	904.15	2.14
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.216	0.04	24.53	1.24
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.372	0.13	8.14	1.450	0.301	0.11	8.24	1.35
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.341	0.06	37.02	1.410	0.259	0.05	32.36	1.3
PULMONARY HYPERTENSION (Multiple)	0.204	0.05	19.52	1.230	0.193	0.04	27.32	1.21
CARDIOMYOPATHY (Multiple)	0.424	0.05	81.38	1.530	0.342	0.04	80.30	1.41

Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC BRONCHITIS (Multiple)	0.546	0.06	74.24	1.730	0.596	0.05	146.42	1.82
MALNUTRITION (Multiple)	0.474	0.03	292.13	1.610	0.535	0.02	548.68	1.71
SEPSIS (Multiple)	1.236	0.06	439.56	3.440	1.083	0.05	420.04	2.96
ACUTE RENAL FAILURE (Multiple)	0.344	0.03	165.02	1.410	0.262	0.02	144.17	1.3
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.150	0.04	13.69	1.160	0.158	0.03	25.42	1.17
ENCEPHALOPATHY (Multiple)	0.434	0.08	33.52	1.540	0.461	0.06	60.44	1.59
HYPOTENSION, UNSP OR NEC (Multiple)	0.380	0.06	42.91	1.460	0.390	0.05	70.65	1.48
DECUBITIS ULCER (Multiple)	0.270	0.05	25.31	1.310	0.481	0.04	150.17	1.62
DEHYDRATION (Multiple)	*				0.120	0.02	31.82	1.13
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.358	0.10	12.59	1.430	0.420	0.08	26.85	1.52
BODY MASS INDEX 40 AND OVER (Multiple)	0.207	0.05	15.08	1.230	0.144	0.04	11.29	1.15
OTHER ENDOSCOPY OF SMALL INTESTINE (45.13)	0.387	0.06	42.39	1.470	0.308	0.05	41.66	1.36
FLEXIBLE SIGMOIDOSCOPY (45.24)	0.384	0.09	20.62	1.470	0.304	0.07	19.86	1.36
OTHER PARTIAL RESECTION OF SMALL INTESTINE (45.62)	0.831	0.03	784.43	2.300	0.594	0.03	513.95	1.81
OPEN AND OTHER RIGHT HEMICOLECTOMY (45.73)	0.781	0.06	172.49	2.180	0.590	0.05	138.28	1.8
OPEN AND OTHER SIGMOIDECTOMY (45.76)	0.541	0.07	58.64	1.720	0.317	0.06	27.78	1.37
OTHER SMALL-TO-LARGE INTESTINAL ANASTOMOSIS (45.93)	0.193	0.08	5.69	1.210	*			
COLOSTOMY, NOT OTHERWISE SPECIFIED (46.10)	0.780	0.07	124.87	2.180	0.589	0.06	95.23	1.8
DILATION OF INTESTINE (46.85)	*				0.169	0.05	11.22	1.18
CHOLECYSTECTOMY (51.22)	0.714	0.09	67.29	2.040	0.610	0.08	59.77	1.84
EXPLORATORY LAPAROTOMY (54.11)	0.788	0.07	116.08	2.200	0.555	0.07	70.15	1.74
OTHER LYSIS OF PERITONEAL ADHESIONS (54.59)	0.643	0.03	687.88	1.900	0.452	0.03	300.62	1.57
Palliative Care Risk Regardless of POA (Custom Logic)	3.872	0.03	14455.80	48.060	3.732	0.03	12585.38	41.77
Facility POA Percent	0.999	0.10	108.25	2.720	0.287	0.06	20.89	1.33
Intercept	-6.456	0.09	5491.30	0.000	-5.147	0.06	7577.07	0.01

Chronic Obstructive Pulmonary Disease (COPD)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.260	0.048	29.42	1.30	0.254	0.029	76.79	1.29
Admit Source: Transfer From Other Healthcare Facility	0.337	0.080	17.81	1.40	0.429	0.044	93.01	1.54
Admit Source: Transfer From Skilled Nursing Facility	0.319	0.040	62.12	1.38	0.579	0.022	702.79	1.78
Age 70 To 74	0.265	0.029	80.99	1.30	0.230	0.017	184.55	1.26
Age 75 To 79	0.418	0.029	207.15	1.52	0.435	0.017	689.46	1.55
Age 80 To 84	0.500	0.029	288.70	1.65	0.587	0.017	1238.24	1.80
Age 85 To 89	0.529	0.032	280.26	1.70	0.731	0.018	1714.75	2.08
Age 90 And Over	0.552	0.037	219.86	1.74	0.897	0.020	1962.51	2.45
Sex = Female	-0.145	0.017	72.43	0.87	-0.261	0.010	745.43	0.77
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE (041.12)	*				0.252	0.051	24.20	1.29
CANDIDIASIS OF MOUTH (112.0)	0.141	0.066	4.62	1.15	0.339	0.036	91.44	1.40
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	*				0.706	0.059	144.82	2.03
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.676	0.050	181.32	1.97	1.121	0.026	1819.91	3.07
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.727	0.062	136.11	2.07	0.694	0.040	295.14	2.00
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.234	0.029	67.24	1.26	0.200	0.016	148.28	1.22
ACIDOSIS (276.2)	0.740	0.032	528.16	2.10	0.483	0.022	483.39	1.62
ALKALOSIS (276.3)	*				0.160	0.043	13.64	1.17
HYPERPOTASSEMIA (276.7)	0.441	0.034	164.15	1.56	0.380	0.021	319.35	1.46
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	*				0.070	0.023	8.95	1.07
ANEMIA, UNSPECIFIED (285.9)	*				0.132	0.013	95.54	1.14
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.323	0.043	57.14	1.38	0.193	0.026	55.22	1.21
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.320	0.059	29.57	1.38
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.270	0.024	121.79	1.31
MAJOR DEPRESSIVE DISORDER, SINGLE EPISODE, UNSPECIFIED (296.20)	*				0.142	0.057	6.15	1.15
ANXIETY STATE, UNSPECIFIED (300.00)	*				0.099	0.014	51.52	1.10
ALZHEIMER'S DISEASE (331.0)	*				0.182	0.028	43.01	1.20
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	1.113	0.058	363.75	3.04	0.730	0.042	297.85	2.08
INTERMEDIATE CORONARY SYNDROME (411.1)	0.424	0.120	12.54	1.53	*			
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (427.0)	0.294	0.100	8.56	1.34	0.274	0.060	21.19	1.32
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.303	0.072	17.64	1.35	0.157	0.045	12.14	1.17
ATRIAL FIBRILLATION (427.31)	0.341	0.019	324.68	1.41	0.274	0.011	651.45	1.32
ATRIAL FLUTTER (427.32)	0.403	0.052	60.11	1.50	0.298	0.032	87.30	1.35

Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.232	0.037	40.35	1.26	0.159	0.022	53.87	1.17
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.226	0.018	154.60	1.25	0.273	0.010	700.03	1.31
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	*				0.130	0.031	17.12	1.14
OBSTRUCTIVE CHRONIC BRONCHITIS, WITHOUT EXACERBATION (491.20)	-0.580	0.146	15.78	0.56	-0.235	0.071	10.94	0.79
OBSTRUCTIVE CHRONIC BRONCHITIS, WITH (ACUTE) EXACERBATION (491.21)	*				0.058	0.028	4.34	1.06
OBSTRUCTIVE CHRONIC BRONCHITIS, WITH ACUTE BRONCHITIS (491.22)	-0.481	0.026	355.17	0.62	-0.370	0.027	181.86	0.69
UNSPECIFIED CHRONIC BRONCHITIS (491.9)	-1.313	0.489	7.22	0.27	-0.695	0.211	10.85	0.50
EMPHYSEMATOUS BLEB (492.0)	0.619	0.094	43.11	1.86	0.325	0.062	27.57	1.38
OTHER EMPHYSEMA (492.8)	0.372	0.075	24.36	1.45	0.214	0.051	17.60	1.24
CHRONIC OBSTRUCTIVE ASTHMA, UNSPECIFIED (493.20)	*				-0.206	0.052	15.57	0.81
CHRONIC OBSTRUCTIVE ASTHMA, WITH STATUS ASTHMATICUS (493.21)	0.384	0.132	8.45	1.47	-0.271	0.102	7.06	0.76
CHRONIC OBSTRUCTIVE ASTHMA, WITH (ACUTE) EXACERBATION (493.22)	-0.234	0.028	67.63	0.79	-0.395	0.029	191.74	0.67
BRONCHIECTASIS WITHOUT ACUTE EXACERBATION (494.0)	-0.224	0.077	8.55	0.80	-0.189	0.042	19.85	0.83
BRONCHIECTASIS WITH ACUTE EXACERBATION (494.1)	-0.243	0.076	10.25	0.79	-0.253	0.047	29.54	0.78
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.800	0.047	290.04	2.23	0.585	0.037	248.13	1.80
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	1.117	0.069	263.47	3.06	0.746	0.049	232.02	2.11
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.433	0.043	99.89	1.54	0.447	0.026	305.95	1.56
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.323	0.037	77.02	1.38	0.317	0.021	234.27	1.37
ACUTE RESPIRATORY FAILURE (518.81)	1.202	0.025	2256.70	3.33	0.690	0.018	1544.55	1.99
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	*				0.301	0.084	12.71	1.35
CHRONIC RESPIRATORY FAILURE (518.83)	*				0.093	0.019	22.84	1.10
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.777	0.027	856.51	2.18	0.548	0.017	1045.99	1.73
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.866	0.083	108.89	2.38	0.708	0.054	172.25	2.03
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.139	0.052	7.17	1.15	0.275	0.029	88.21	1.32
END STAGE RENAL DISEASE (585.6)	0.760	0.118	41.48	2.14	0.604	0.074	67.33	1.83
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.162	0.028	33.63	1.18	0.151	0.016	90.98	1.16
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*				0.063	0.028	5.04	1.07
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.092	0.031	8.74	1.10	0.156	0.017	80.27	1.17
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.418	0.082	25.84	1.52	0.663	0.044	231.13	1.94
OTHER CONVULSIONS (780.39)	0.388	0.123	9.91	1.47	0.178	0.077	5.29	1.20
OTHER MALAISE AND FATIGUE (780.79)	*				0.087	0.027	10.55	1.09
EDEMA (782.3)	*				0.109	0.031	12.15	1.12
ADULT FAILURE TO THRIVE (783.7)	0.340	0.054	39.00	1.41	0.580	0.031	349.84	1.79

Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
TACHYCARDIA, UNSPECIFIED (785.0)	0.195	0.059	11.13	1.22	0.218	0.034	41.61	1.24
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	*				0.181	0.046	15.84	1.20
DEBILITY, UNSPECIFIED (799.3)	*				0.120	0.024	24.46	1.13
CACHEXIA (799.4)	0.609	0.046	172.85	1.84	0.548	0.030	340.06	1.73
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*				0.169	0.026	42.29	1.19
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.071	0.011	38.33	1.07
DO NOT RESUSCITATE STATUS (V49.86)	0.867	0.023	1401.39	2.38	0.725	0.014	2532.57	2.06
LONG-TERM (CURRENT) USE OF STEROIDS (V58.65)	*				0.193	0.018	111.68	1.21
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.191	0.028	46.51	1.21
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.361	0.120	9.04	1.43	0.398	0.074	28.61	1.49
PULMONARY HYPERTENSION (Multiple)	0.191	0.024	62.67	1.21	0.216	0.014	239.42	1.24
CARDIOMYOPATHY (Multiple)	0.287	0.035	67.45	1.33	0.094	0.021	19.34	1.10
MALNUTRITION (Multiple)	0.630	0.031	401.47	1.88	0.635	0.020	1028.32	1.89
SEPSIS (Multiple)	1.517	0.074	420.40	4.56	0.974	0.059	269.02	2.65
ACUTE RENAL FAILURE (Multiple)	0.450	0.025	314.93	1.57	0.204	0.016	168.87	1.23
ENCEPHALOPATHY (Multiple)	0.287	0.058	24.95	1.33	0.355	0.036	97.67	1.43
HYPOTENSION, UNSP OR NEC (Multiple)	0.607	0.043	197.82	1.84	0.330	0.029	133.06	1.39
DECUBITIS ULCER (Multiple)	0.611	0.046	177.56	1.84	0.850	0.026	1081.35	2.34
DEHYDRATION (Multiple)	0.130	0.032	16.20	1.14	0.165	0.018	82.34	1.18
DYSPHAGIA (Multiple)	*				0.313	0.024	171.45	1.37
BACTERIAL PNEUMONIA (Multiple)	0.333	0.019	293.96	1.40	0.143	0.011	158.41	1.15
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*				0.148	0.027	29.60	1.16
Palliative Care Risk Regardless of POA (Custom Logic)	3.913	0.025	24719.13	50.05	3.070	0.023	17215.34	21.54
Facility POA Percent	0.141	0.060	5.62	1.15	-0.130	0.031	17.61	0.88
Intercept	-5.758	0.054	11270.40	0.00	-4.154	0.040	10934.45	0.02

Colorectal Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.169	0.037	20.61	1.18	0.178	0.033	28.28	1.20
Admit Source: Transfer From Other Healthcare Facility	0.174	0.079	4.86	1.19	0.322	0.068	22.50	1.38
Admit Source: Transfer From Skilled Nursing Facility	0.211	0.048	19.56	1.23	0.433	0.040	117.31	1.54
Age 70 To 74	0.314	0.033	91.47	1.37	0.365	0.029	156.34	1.44
Age 75 To 79	0.520	0.032	262.49	1.68	0.610	0.028	460.35	1.84
Age 80 To 84	0.797	0.032	624.09	2.22	0.941	0.028	1116.88	2.56
Age 85 To 89	1.051	0.034	981.14	2.86	1.253	0.029	1816.74	3.50
Age 90 And Over	1.227	0.040	963.06	3.41	1.587	0.034	2218.47	4.89
Sex = Female	-0.190	0.019	102.84	0.83	-0.196	0.016	145.54	0.82
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.398	0.124	10.30	1.49	0.880	0.100	77.34	2.41
GLUCOCORTICOID DEFICIENCY (255.41)	0.204	0.097	4.46	1.23	0.346	0.087	15.83	1.41
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM (273.8)	*				0.203	0.057	12.85	1.23
ACIDOSIS (276.2)	0.558	0.031	320.54	1.75	0.490	0.029	279.93	1.63
HYPERPOTASSEMIA (276.7)	0.295	0.050	35.16	1.34	0.266	0.045	34.40	1.31
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.687	0.078	78.17	1.99	0.621	0.074	70.38	1.86
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.301	0.045	45.39	1.35	0.403	0.039	105.90	1.50
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.285	0.045	39.81	1.33
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.224	0.048	22.14	1.25
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED (303.90)	0.603	0.116	27.07	1.83	0.491	0.105	21.89	1.64
PARALYSIS AGITANS (332.0)	*				0.145	0.059	5.97	1.16
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.167	0.071	5.60	1.18	0.160	0.060	7.17	1.17
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.389	0.093	17.65	1.48	0.385	0.086	19.90	1.47
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.114	0.032	12.40	1.12	0.145	0.027	27.91	1.16
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.398	0.090	19.55	1.49	0.250	0.083	9.14	1.28
ATRIAL FIBRILLATION (427.31)	0.234	0.022	114.79	1.26	0.264	0.019	197.04	1.30
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.292	0.025	132.30	1.34	0.310	0.022	198.81	1.36
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.161	0.073	4.82	1.18	0.272	0.061	19.90	1.31
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.425	0.112	14.29	1.53	0.493	0.097	25.57	1.64
OTHER EMPHYSEMA (492.8)	0.464	0.075	38.02	1.59	0.391	0.067	33.98	1.48
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.290	0.025	138.58	1.34	0.313	0.021	216.55	1.37
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.439	0.079	30.73	1.55	0.438	0.070	39.54	1.55

Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ACUTE RESPIRATORY FAILURE (518.81)	0.566	0.043	177.48	1.76	0.542	0.041	173.84	1.72
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.442	0.079	31.26	1.56	0.438	0.074	34.80	1.55
ANGIODYSPLASIA OF STOMACH AND DUODENUM WITH HEMORRHAGE (537.83)	0.591	0.288	4.22	1.81	*			
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS (540.0)	0.395	0.093	18.18	1.48	0.405	0.083	23.87	1.50
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.682	0.032	458.15	1.98	0.619	0.030	427.81	1.86
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE (557.1)	0.473	0.091	27.03	1.61	0.415	0.084	24.30	1.51
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.516	0.036	205.43	1.68	0.493	0.033	222.01	1.64
VOLVULUS (560.2)	0.116	0.041	8.12	1.12	0.182	0.034	28.80	1.20
FECAL IMPACTION (560.32)	0.351	0.071	24.50	1.42	0.363	0.061	35.20	1.44
OTHER IMPACTION OF INTESTINE (560.39)	0.483	0.201	5.77	1.62	0.443	0.177	6.28	1.56
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION) (560.81)	0.217	0.052	17.60	1.24	0.117	0.047	6.32	1.12
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.205	0.039	27.18	1.23	0.147	0.035	17.83	1.16
DIVERTICULOSIS OF COLON WITH HEMORRHAGE (562.12)	0.317	0.057	30.99	1.37	0.251	0.050	25.13	1.29
DIVERTICULITIS OF COLON WITH HEMORRHAGE (562.13)	0.227	0.100	5.18	1.25	*			
MEGACOLON, OTHER THAN HIRSCHSPRUNG'S (564.7)	0.309	0.091	11.55	1.36	0.215	0.079	7.36	1.24
OTHER SPECIFIED PERITONITIS (567.89)	0.242	0.056	18.67	1.27	0.287	0.052	30.15	1.33
UNSPECIFIED PERITONITIS (567.9)	0.115	0.039	8.96	1.12	0.182	0.035	26.82	1.20
PERFORATION OF INTESTINE (569.83)	0.545	0.030	336.30	1.73	0.568	0.027	433.25	1.77
ANGIODYSPLASIA OF INTESTINE WITH HEMORRHAGE (569.85)	0.526	0.129	16.74	1.69	0.455	0.114	16.01	1.58
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.815	0.078	109.96	2.26	0.980	0.066	221.48	2.67
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.365	0.054	45.85	1.44	0.303	0.047	42.03	1.35
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.088	0.037	5.52	1.09	0.115	0.032	12.77	1.12
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.427	0.056	57.59	1.53	0.504	0.049	105.91	1.66
END STAGE RENAL DISEASE (585.6)	1.228	0.049	636.00	3.42	1.302	0.044	862.20	3.68
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.204	0.034	36.49	1.23	0.245	0.029	70.99	1.28
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*				0.069	0.026	7.02	1.07
ADULT FAILURE TO THRIVE (783.7)	*				0.322	0.068	22.39	1.38
SEPTIC SHOCK (785.52)	0.575	0.037	236.12	1.78	0.502	0.035	199.76	1.65
OTHER ASCITES (789.59)	0.355	0.045	61.33	1.43	0.432	0.041	110.10	1.54
CACHEXIA (799.4)	0.391	0.078	24.94	1.48	0.563	0.067	69.63	1.76
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.135	0.062	4.80	1.15	0.233	0.052	19.70	1.26
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.155	0.055	8.11	1.17	0.113	0.048	5.62	1.12

Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
PULMONARY HYPERTENSION (Multiple)	*				0.110	0.038	8.21	1.12
CARDIOMYOPATHY (Multiple)	0.214	0.043	24.34	1.24	0.275	0.037	53.62	1.32
CHRONIC BRONCHITIS (Multiple)	0.740	0.049	226.38	2.10	0.771	0.044	307.96	2.16
ASTHMA WITH ACUTE EXACERBATION (Multiple)	0.849	0.120	50.04	2.34	0.707	0.111	40.21	2.03
MALNUTRITION (Multiple)	*				0.140	0.022	40.49	1.15
SEPSIS (Multiple)	0.703	0.031	527.28	2.02	0.652	0.028	550.54	1.92
ACUTE RENAL FAILURE (Multiple)	0.250	0.026	93.66	1.28	0.251	0.023	117.99	1.29
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*				0.195	0.087	5.03	1.22
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.121	0.039	9.79	1.13	0.140	0.033	17.83	1.15
ENCEPHALOPATHY (Multiple)	*				0.188	0.049	14.80	1.21
HYPOTENSION, UNSP OR NEC (Multiple)	0.115	0.054	4.58	1.12	0.119	0.047	6.34	1.13
DECUBITIS ULCER (Multiple)	0.207	0.046	20.13	1.23	0.331	0.039	70.74	1.39
DEHYDRATION (Multiple)	0.171	0.032	28.05	1.19	0.158	0.028	30.95	1.17
BACTERIAL PNEUMONIA (Multiple)	0.385	0.042	82.63	1.47	0.412	0.038	116.83	1.51
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.256	0.090	8.01	1.29	0.327	0.079	17.28	1.39
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.209	0.081	6.57	1.23	0.142	0.073	3.83	1.15
BODY MASS INDEX 40 AND OVER (Multiple)	0.123	0.044	7.67	1.13	0.125	0.039	10.28	1.13
Incisions of Small Intestine (Multiple)	0.666	0.153	18.84	1.95	0.522	0.143	13.27	1.69
Resection or Removal of Small Intestine (Multiple)	0.544	0.038	208.09	1.72	0.494	0.035	199.50	1.64
Exteriorization of Small Intestine (Multiple)	0.332	0.067	24.20	1.39	0.331	0.060	30.11	1.39
Ileostomies (Multiple)	0.496	0.047	109.94	1.64	0.514	0.044	137.45	1.67
Other Enterostomies (Multiple)	0.464	0.092	25.67	1.59	0.459	0.086	28.55	1.58
Colorectal Group 3 (Multiple)	0.483	0.042	132.66	1.62	0.416	0.036	131.62	1.52
Colorectal Group 4 (Multiple)	0.382	0.078	23.94	1.47	0.255	0.068	14.24	1.29
Pull-through Resection of Rectum (Colorectal Cluster 6) (Multiple)	-0.567	0.187	9.15	0.57	-0.362	0.126	8.19	0.70
Other Repair of Rectum - Group 1 (Multiple)	-0.641	0.188	11.67	0.53	-0.558	0.144	15.08	0.57
Incision of Rectal Stricture or Perirectal Tissue (Multiple)	-0.852	0.119	51.49	0.43	-0.404	0.078	27.07	0.67
Colorectal Group 9 (Multiple)	-0.740	0.178	17.37	0.48	-0.389	0.116	11.23	0.68
Open and Other Partial Excision of Large Intestine - Group 1 (Multiple)	0.693	0.039	313.05	2.00	0.526	0.036	218.30	1.69
Colostomies (Multiple)	0.520	0.023	506.11	1.68	0.520	0.020	661.32	1.68
Colorectal Group 10 (Multiple)	0.641	0.071	80.72	1.90	0.450	0.065	47.30	1.57
Colorectal Group 14 (Multiple)	0.442	0.025	306.29	1.56	0.271	0.022	145.58	1.31
Colorectal Group 18 (Multiple)	-0.380	0.059	41.37	0.68	-0.445	0.051	76.99	0.64
Colorectal Group 19 (Multiple)	-0.139	0.052	7.32	0.87	0.248	0.039	39.47	1.28
Colorectal Group 21 (Multiple)	*				-0.172	0.057	9.15	0.84
Colorectal Group 27 (Multiple)	-0.973	0.209	21.63	0.38	-0.560	0.130	18.49	0.57

Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Colorectal Group 28 (Multiple)	-0.809	0.179	20.35	0.45	-0.264	0.112	5.60	0.77
Colorectal Group 30 (Multiple)	-0.813	0.168	23.52	0.44	-0.265	0.098	7.26	0.77
Anal Repair - Group 2 (Multiple)	-1.164	0.490	5.64	0.31	-0.566	0.272	4.33	0.57
LAPAROSCOPIC CECECTOMY (17.32)	-0.720	0.176	16.73	0.49	-0.606	0.131	21.27	0.55
LAPAROSCOPIC RIGHT HEMICOLECTOMY (17.33)	-0.412	0.050	66.96	0.66	-0.497	0.041	143.77	0.61
LAPAROSCOPIC RESECTION OF TRANSVERSE COLON (17.34)	*				-0.374	0.122	9.43	0.69
LAPAROSCOPIC LEFT HEMICOLECTOMY (17.35)	*				-0.292	0.083	12.45	0.75
LAPAROSCOPIC SIGMOIDECTOMY (17.36)	-0.567	0.070	65.26	0.57	-0.616	0.057	118.19	0.54
OPEN AND OTHER CECECTOMY (45.72)	0.488	0.053	84.87	1.63	0.366	0.047	60.07	1.44
OPEN AND OTHER RESECTION OF TRANSVERSE COLON (45.74)	0.411	0.046	79.04	1.51	0.325	0.041	62.05	1.38
OPEN AND OTHER LEFT HEMICOLECTOMY (45.75)	0.526	0.033	247.48	1.69	0.357	0.030	140.84	1.43
LAPAROSCOPIC TOTAL INTRA-ABDOMINAL COLECTOMY (45.81)	0.462	0.149	9.59	1.59	*			
OPEN TOTAL INTRA-ABDOMINAL COLECTOMY (45.82)	0.967	0.047	429.94	2.63	0.775	0.043	327.40	2.17
OTHER AND UNSPECIFIED TOTAL INTRA-ABDOMINAL COLECTOMY (45.83)	0.936	0.077	146.25	2.55	0.627	0.074	72.46	1.87
LARGE-TO-LARGE INTESTINAL ANASTOMOSIS (45.94)	-0.123	0.051	5.76	0.88	-0.153	0.044	12.18	0.86
ILEOSTOMY, NOT OTHERWISE SPECIFIED (46.20)	0.634	0.033	370.72	1.89	0.666	0.030	487.92	1.95
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM (46.73)	0.524	0.081	41.67	1.69	0.331	0.078	18.14	1.39
PULL-THROUGH RESECTION OF RECTUM, NOT OTHERWISE SPECIFIED (48.40)	-0.717	0.331	4.68	0.49	-0.526	0.222	5.59	0.59
OTHER ANTERIOR RESECTION OF RECTUM (48.63)	-0.161	0.067	5.81	0.85	-0.272	0.056	23.62	0.76
LIGATION OF HEMORRHOIDS (49.45)	-0.879	0.182	23.19	0.42	-0.404	0.111	13.34	0.67
OTHER LAPAROTOMY (54.19)	0.565	0.067	70.25	1.76	0.526	0.062	72.46	1.69
Palliative Care Risk Regardless of POA (Custom Logic)	2.983	0.031	9011.18	19.75	3.536	0.036	9782.01	34.33
Facility POA Percent	0.615	0.086	50.57	1.85	0.608	0.074	67.48	1.84
Intercept	-5.455	0.080	4606.17	0.00	-5.050	0.069	5293.99	0.01

Coronary Artery Bypass Graft (CABG) Surgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Age70 To 74	0.328	0.047	48.12	1.39	0.342	0.041	70.07	1.41
Age75 To 79	0.618	0.047	174.13	1.86	0.608	0.041	222.43	1.84
Age80 To 84	0.977	0.049	396.84	2.66	1.002	0.043	553.73	2.72
Age85 To 89	1.240	0.063	390.43	3.45	1.263	0.055	528.24	3.54
Age 90 and Over	1.412	0.142	98.47	4.11	1.391	0.129	117.00	4.02
Sex is Female	0.366	0.032	132.76	1.44	0.330	0.028	142.47	1.39
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.549	0.241	5.21	1.73	0.624	0.199	9.79	1.87
ANOXIC BRAIN DAMAGE (348.1)	*				0.616	0.212	8.46	1.85
DISEASES OF TRICUSPID VALVE (397.0)	0.191	0.083	5.37	1.21	*			
HYPERTENSIVE CHRONIC KIDNEY DISEASE, MALIGNANT, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED (403.00)	*				0.392	0.173	5.12	1.48
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.286	0.036	64.13	1.33	0.256	0.031	67.66	1.29
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.345	0.122	8.02	1.41	0.255	0.107	5.64	1.29
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.508	0.080	39.90	1.66	0.361	0.075	23.33	1.43
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.300	0.149	4.06	1.35	0.285	0.135	4.46	1.33
ATRIAL FIBRILLATION (427.31)	0.131	0.041	10.28	1.14	0.185	0.035	27.63	1.20
CARDIAC ARREST (427.5)	0.889	0.120	54.85	2.43	0.724	0.118	37.95	2.06
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.163	0.036	20.44	1.18	0.202	0.032	41.01	1.22
HEART FAILURE, UNSPECIFIED (428.9)	0.989	0.283	12.19	2.69	0.830	0.265	9.80	2.29
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.441	0.139	10.02	1.55
ATHEROSCLEROSIS OF AORTA (440.0)	0.201	0.086	5.44	1.22	*			
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.233	0.120	3.74	1.26	0.269	0.105	6.63	1.31
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.364	0.103	12.48	1.44	0.326	0.091	12.71	1.39
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION (440.21)	0.588	0.131	20.14	1.80	0.618	0.112	30.62	1.86
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.277	0.097	8.14	1.32	*			
OTHER EMPHYSEMA (492.8)	0.564	0.112	25.34	1.76	0.592	0.096	37.69	1.81
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.256	0.042	37.17	1.29	0.284	0.036	61.52	1.33
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.619	0.191	71.72	5.05	1.473	0.185	63.42	4.36
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.205	0.053	15.17	1.23	0.170	0.047	13.26	1.19
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.542	0.092	34.91	1.72	0.533	0.081	43.35	1.70
END STAGE RENAL DISEASE (585.6)	1.476	0.069	459.98	4.38	1.509	0.060	634.44	4.52

Coronary Artery Bypass Graft (CABG) Surgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.173	0.056	9.65	1.19	0.195	0.048	16.42	1.22
CARDIOGENIC SHOCK (785.51)	0.476	0.063	57.76	1.61	0.510	0.058	76.17	1.67
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.326	0.052	39.82	0.72	*			
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.399	0.120	11.03	1.49	0.489	0.100	24.06	1.63
NON-MALIGNANT HYPERTENSION WITH CHF (Multiple)	0.455	0.176	6.67	1.58	*			
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	*				0.418	0.126	10.97	1.52
PULMONARY HYPERTENSION (Multiple)	0.198	0.062	10.16	1.22	0.214	0.054	15.63	1.24
CARDIOMYOPATHY (Multiple)	0.249	0.062	16.05	1.28	0.241	0.055	19.22	1.27
CHRONIC BRONCHITIS (Multiple)	0.526	0.089	34.62	1.69	0.594	0.076	60.54	1.81
MALNUTRITION (Multiple)	0.460	0.080	33.23	1.58	0.496	0.071	49.20	1.64
INFERIOR WALL AMI (Multiple)	0.358	0.080	20.07	1.43	0.359	0.073	24.29	1.43
ANTERIOR/LATERAL WALL AMI (Multiple)	0.544	0.056	95.01	1.72	0.548	0.050	118.12	1.73
ACUTE RENAL FAILURE (Multiple)	0.374	0.058	41.73	1.45	0.300	0.052	33.00	1.35
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.237	0.047	25.67	1.27	0.228	0.040	31.84	1.26
BODY MASS INDEX 40 AND OVER (Multiple)	0.316	0.060	27.65	1.37	0.373	0.051	53.34	1.45
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	0.205	0.067	9.41	1.23	0.190	0.061	9.64	1.21
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.677	0.041	269.25	0.51	-0.610	0.037	270.47	0.54
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.16)	-0.593	0.112	28.19	0.55	-0.518	0.096	29.17	0.60
OTHER BYPASS ANASTOMOSIS FOR HEART REVASCULARIZATION (36.19)	0.248	0.096	6.72	1.28	0.187	0.086	4.80	1.21
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH (37.33)	0.502	0.148	11.56	1.65	0.395	0.131	9.12	1.48
IMPLANT OF PULSATION BALLOON (37.61)	1.742	0.035	2465.21	5.71	1.482	0.032	2183.12	4.40
Facility POA Percent	0.191	0.163	1.36	1.21	0.298	0.147	4.13	1.35
Intercept	-4.951	0.147	1129.76	0.01	-4.723	0.131	1294.10	0.01

Coronary Interventional Procedures

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.122	0.023	28.77	1.13	0.092	0.018	25.61	1.10
Admit Source: Transfer From Other Healthcare Facility	0.151	0.063	5.71	1.16	0.111	0.051	4.78	1.12
Admit Source: Transfer From Skilled Nursing Facility	0.459	0.078	34.80	1.58	0.548	0.061	80.66	1.73
Age 70 To 74	0.323	0.031	110.83	1.38	0.305	0.025	153.11	1.36
Age 75 To 79	0.587	0.030	373.00	1.80	0.571	0.024	552.74	1.77
Age 80 To 84	0.851	0.030	780.61	2.34	0.824	0.024	1139.63	2.28
Age 85 To 89	1.164	0.032	1292.54	3.20	1.195	0.026	2138.92	3.31
Age 90 And Over	1.434	0.040	1253.05	4.19	1.549	0.032	2339.78	4.71
Sex = Female	0.185	0.018	102.93	1.20	0.105	0.015	52.25	1.11
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	*				0.050	0.016	9.65	1.05
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	*				0.085	0.043	3.79	1.09
ACIDOSIS (276.2)	1.008	0.034	897.48	2.74	0.899	0.030	895.68	2.46
HYPERPOTASSEMIA (276.7)	0.392	0.047	70.75	1.48	0.322	0.039	69.98	1.38
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.299	0.052	32.84	1.35
ALZHEIMER'S DISEASE (331.0)	0.187	0.074	6.49	1.21	0.453	0.055	68.13	1.57
PARALYSIS AGITANS (332.0)	0.177	0.081	4.84	1.19	0.232	0.062	13.94	1.26
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.536	0.025	448.29	1.71	0.507	0.019	736.44	1.66
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.430	0.089	23.32	1.54	0.402	0.068	35.46	1.50
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.220	0.048	20.70	1.25	0.167	0.037	19.92	1.18
DISSECTION OF CORONARY ARTERY (414.12)	0.424	0.122	12.15	1.53	0.427	0.102	17.65	1.53
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY (414.2)	0.178	0.024	53.69	1.20	0.184	0.020	88.56	1.20
AORTIC VALVE DISORDERS (424.1)	0.231	0.038	36.38	1.26	0.294	0.029	104.04	1.34
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.263	0.054	24.08	1.30	0.191	0.049	15.50	1.21
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.068	0.049	1.98	1.07	*			
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.165	0.054	9.46	1.18	0.120	0.043	7.63	1.13
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.228	0.038	36.12	1.26	0.246	0.032	59.66	1.28
ATRIAL FIBRILLATION (427.31)	0.096	0.022	18.83	1.10	0.177	0.017	105.86	1.19
CARDIAC ARREST (427.5)	1.366	0.036	1414.32	3.92	1.257	0.034	1391.78	3.52
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.079	0.020	15.02	1.08	0.270	0.016	272.12	1.31
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.365	0.089	16.67	1.44	0.466	0.069	45.68	1.59

Coronary Interventional Procedures (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.416	0.065	41.25	1.52	0.307	0.052	34.80	1.36
OTHER EMPHYSEMA (492.8)	0.202	0.088	5.25	1.22	0.259	0.069	14.20	1.30
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.243	0.026	89.27	1.28	0.312	0.020	243.66	1.37
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.307	0.064	22.78	1.36	0.412	0.051	66.22	1.51
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.720	0.069	110.45	2.06	0.821	0.051	256.74	2.27
ACUTE RESPIRATORY FAILURE (518.81)	0.761	0.028	744.14	2.14	0.665	0.024	750.53	1.95
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.513	0.080	40.98	1.67	0.569	0.068	71.02	1.77
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*				0.089	0.026	11.32	1.09
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.326	0.054	36.89	1.39	0.412	0.042	98.47	1.51
END STAGE RENAL DISEASE (585.6)	1.009	0.089	129.16	2.74	1.117	0.069	262.03	3.06
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.277	0.029	89.32	1.32	0.266	0.024	127.18	1.30
RHEUMATOID ARTHRITIS (714.0)	*				0.100	0.052	3.77	1.11
CARDIOGENIC SHOCK (785.51)	0.859	0.028	952.12	2.36	0.811	0.025	1036.27	2.25
AORTOCORONARY BYPASS STATUS (V45.81)	-0.142	0.040	12.78	0.87	-0.115	0.030	14.77	0.89
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.367	0.026	192.82	0.69	-0.284	0.020	203.47	0.75
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.348	0.091	14.70	1.42	0.276	0.071	15.23	1.32
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	*				0.043	0.020	4.64	1.04
PULMONARY HYPERTENSION (Multiple)	0.062	0.036	2.89	1.06	0.166	0.027	37.16	1.18
CARDIOMYOPATHY (Multiple)	*				0.166	0.028	35.35	1.18
CHRONIC BRONCHITIS (Multiple)	0.255	0.048	28.20	1.29	0.455	0.035	170.19	1.58
MALNUTRITION (Multiple)	0.440	0.051	75.98	1.55	0.696	0.040	308.00	2.01
INFERIOR WALL AMI (Multiple)	1.170	0.029	1616.78	3.22	0.996	0.024	1772.31	2.71
ANTERIOR/LATERAL WALL AMI (Multiple)	1.499	0.025	3467.54	4.48	1.350	0.020	4499.04	3.86
ACUTE RENAL FAILURE (Multiple)	0.461	0.027	295.22	1.59	0.417	0.022	346.62	1.52
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.043	0.054	0.63	1.04	0.127	0.041	9.54	1.14
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.191	0.030	40.68	1.21	0.174	0.023	56.04	1.19
HYPOTENSION, UNSP OR NEC (Multiple)	0.338	0.043	61.12	1.40	0.354	0.035	100.81	1.43
DEHYDRATION (Multiple)	0.189	0.062	9.45	1.21	0.153	0.049	9.84	1.17
BACTERIAL PNEUMONIA (Multiple)	0.407	0.038	115.74	1.50	0.423	0.030	199.43	1.53
BODY MASS INDEX 40 AND OVER (Multiple)	0.195	0.047	17.32	1.22	0.158	0.037	18.18	1.17
PROCEDURE ON SINGLE VESSEL (00.40)	-0.057	0.022	6.50	0.95	-0.084	0.018	22.47	0.92
INSERTION OF ONE VASCULAR STENT (00.45)	-0.489	0.031	241.21	0.61	-0.382	0.026	224.18	0.68
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.407	0.032	159.38	0.67	-0.300	0.026	133.96	0.74
INSERTION OF THREE VASCULAR STENTS (00.47)	-0.277	0.041	46.22	0.76	-0.201	0.033	38.02	0.82

Coronary Interventional Procedures (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S) (36.07)	-0.795	0.037	472.80	0.45	-0.683	0.030	507.83	0.51
OTHER SPECIFIED REMOVAL OF CORONARY ARTERY OBSTRUCTION (36.09)	*				0.323	0.121	7.11	1.38
IMPLANT OF PULSATION BALLOON (37.61)	1.900	0.024	6227.34	6.69	1.633	0.022	5689.49	5.12
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S) (Custom Logic)	-0.196	0.037	27.86	0.82	-0.159	0.031	26.16	0.85
Facility POA Percent	0.756	0.107	50.13	2.13	0.681	0.085	64.10	1.98
Intercept	-5.560	0.096	3339.99	0.00	-5.020	0.077	4261.37	0.01

Diabetic Emergencies

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.566	0.100	32.16	1.76	0.350	0.067	27.45	1.42
Admit Source: Transfer From Other Healthcare Facility	0.327	0.171	3.67	1.39	0.325	0.100	10.54	1.38
Admit Source: Transfer From Skilled Nursing Facility	*				0.400	0.047	71.51	1.49
Age 70 To 74	0.587	0.075	61.81	1.80	0.453	0.045	99.23	1.57
Age 75 To 79	0.679	0.075	81.80	1.97	0.577	0.045	163.00	1.78
Age 80 To 84	0.785	0.076	105.50	2.19	0.807	0.045	327.22	2.24
Age 85 To 89	0.947	0.080	139.29	2.58	0.999	0.047	460.79	2.72
Age 90 And Over	0.989	0.095	109.54	2.69	1.306	0.052	641.71	3.69
Sex = Female	-0.180	0.044	17.04	0.84	-0.199	0.025	61.69	0.82
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	*				0.472	0.095	24.70	1.60
UNSPECIFIED SEPTICEMIA (038.9)	1.264	0.121	108.89	3.54	0.822	0.095	75.32	2.28
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	1.130	0.204	30.80	3.09	1.357	0.117	133.77	3.89
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	*				0.783	0.174	20.31	2.19
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	1.009	0.236	18.30	2.74	0.391	0.177	4.91	1.48
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.10)	0.981	0.226	18.82	2.67	*			
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.12)	0.588	0.071	67.88	1.80	*			
DIABETES WITH KETOACIDOSIS, TYPE I [JUVENILE TYPE], UNCONTROLLED (250.13)	0.645	0.087	55.63	1.91	*			
DIABETES WITH HYPEROSMOLARITY, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.20)	0.543	0.111	23.93	1.72	*			
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.30)	1.467	0.123	143.28	4.34	0.987	0.091	118.45	2.68

Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.32)	0.948	0.179	28.04	2.58	0.727	0.126	33.17	2.07
DIABETES WITH OTHER COMA, TYPE I [JUVENILE TYPE], UNCONTROLLED (250.33)	1.417	0.266	28.38	4.13	1.049	0.214	24.02	2.86
GLUCOCORTICOID DEFICIENCY (255.41)	0.686	0.227	9.14	1.99	0.595	0.139	18.27	1.81
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.271	0.093	8.57	1.31	0.403	0.059	46.23	1.50
HYOSMOLALITY AND/OR HYPONATREMIA (276.1)	*				0.084	0.039	4.51	1.09
ACIDOSIS (276.2)	0.426	0.090	22.20	1.53	*			
ALKALOSIS (276.3)	*				0.361	0.143	6.33	1.44
HYPERPOTASSEMIA (276.7)	*				0.112	0.044	6.59	1.12
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.612	0.237	6.68	1.84	0.343	0.160	4.62	1.41
VASCULAR DEMENTIA, UNCOMPLICATED (290.40)	*				0.340	0.098	12.02	1.40
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.229	0.052	18.97	1.26
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	*				0.498	0.139	12.79	1.65
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.189	0.050	14.24	1.21
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.295	0.124	5.64	1.34	0.256	0.089	8.33	1.29
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	*				0.321	0.113	8.12	1.38
ATRIAL FIBRILLATION (427.31)	0.157	0.052	9.30	1.17	0.268	0.029	85.90	1.31
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.334	0.048	47.73	1.40	0.316	0.028	127.69	1.37
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE (440.24)	0.653	0.125	27.49	1.92	0.285	0.080	12.59	1.33
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	*				0.172	0.035	24.40	1.19
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.329	0.129	6.48	1.39	0.542	0.088	38.02	1.72
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.716	0.116	38.38	2.05	0.590	0.081	53.20	1.80
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.424	0.195	4.71	1.53	0.302	0.115	6.87	1.35
ACUTE RESPIRATORY FAILURE (518.81)	1.623	0.085	362.87	5.07	1.100	0.068	262.47	3.01
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	1.033	0.201	26.35	2.81	0.845	0.140	36.43	2.33
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.893	0.161	30.64	2.44	0.624	0.117	28.62	1.87
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.184	0.053	11.87	1.20
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*				0.482	0.135	12.68	1.62
END STAGE RENAL DISEASE (585.6)	0.911	0.150	37.10	2.49	1.074	0.048	510.04	2.93
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	*				0.131	0.035	14.29	1.14
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*				0.112	0.032	12.12	1.12

Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ULCER OF LOWER LIMB, UNSPECIFIED (707.10)	0.562	0.177	10.05	1.75	*			
ULCER OF OTHER PART OF LOWER LIMB (707.19)	0.538	0.152	12.50	1.71	0.380	0.090	18.01	1.46
PRESSURE ULCER, STAGE III (707.23)	0.455	0.134	11.60	1.58	0.262	0.080	10.72	1.30
PRESSURE ULCER, STAGE IV (707.24)	0.655	0.143	20.83	1.93	*			
RHABDOMYOLYSIS (728.88)	0.538	0.133	16.48	1.71	*			
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	*				0.291	0.104	7.79	1.34
ALTERED MENTAL STATUS (780.97)	*				0.234	0.062	14.07	1.26
ADULT FAILURE TO THRIVE (783.7)	0.355	0.115	9.46	1.43	0.558	0.066	71.37	1.75
GANGRENE (785.4)	0.345	0.106	10.65	1.41	*			
OTHER ASCITES (789.59)	1.289	0.146	78.08	3.63	1.374	0.092	223.99	3.95
CACHEXIA (799.4)	0.755	0.158	22.93	2.13	0.781	0.102	58.43	2.18
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.230	0.077	9.06	1.26
DO NOT RESUSCITATE STATUS (V49.86)	0.968	0.063	238.58	2.63	0.773	0.040	376.57	2.17
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.291	0.096	9.12	1.34
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.305	0.148	4.27	1.36	*			
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.348	0.088	15.64	1.42	0.303	0.052	33.96	1.35
PULMONARY HYPERTENSION (Multiple)	*				0.136	0.054	6.39	1.15
CARDIOMYOPATHY (Multiple)	0.486	0.085	32.96	1.63	0.387	0.050	58.67	1.47
CHRONIC BRONCHITIS (Multiple)	*				0.250	0.079	10.07	1.28
MALNUTRITION (Multiple)	0.382	0.068	31.38	1.47	0.375	0.043	77.54	1.46
ACUTE RENAL FAILURE (Multiple)	0.288	0.049	34.23	1.33	0.140	0.030	22.10	1.15
ENCEPHALOPATHY (Multiple)	*				0.197	0.040	24.07	1.22
HYPOTENSION, UNSP OR NEC (Multiple)	0.606	0.088	47.09	1.83	0.391	0.058	44.89	1.48
DECUBITIS ULCER (Multiple)	*				0.595	0.041	207.45	1.81
DYSPHAGIA (Multiple)	*				0.280	0.058	23.31	1.32
BACTERIAL PNEUMONIA (Multiple)	0.414	0.078	28.25	1.51	0.416	0.048	76.40	1.52
TEMPORARY TRACHEOSTOMY (31.1)	0.668	0.232	8.31	1.95	*			
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	1.563	0.191	67.27	4.77	0.935	0.163	32.97	2.55
THORACENTESIS (34.91)	*				0.306	0.124	6.10	1.36
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	1.237	0.210	34.54	3.45	0.880	0.180	23.85	2.41
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.843	0.123	46.63	2.32	0.486	0.093	27.34	1.63
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	1.612	0.191	70.95	5.01	1.247	0.155	64.94	3.48
Palliative Care Risk Regardless of POA (Custom Logic)	3.558	0.068	2750.86	35.09	2.948	0.063	2188.80	19.07
Facility POA Percent	0.214	0.176	1.47	1.24	-0.084	0.093	0.82	0.92
Intercept	-6.213	0.159	1530.92	0.00	-4.591	0.086	2881.99	0.01

Esophageal/Stomach Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Other Healthcare Facility	0.156	0.068	5.28	1.17	0.137	0.042	10.38	1.15
Admit Source: Transfer From Skilled Nursing Facility	-0.105	0.037	8.23	0.90	0.071	0.021	11.75	1.07
Age 70 To 74	0.248	0.040	38.77	1.28	0.267	0.026	102.66	1.31
Age 75 To 79	0.404	0.038	110.57	1.50	0.493	0.025	391.08	1.64
Age 80 To 84	0.646	0.037	305.40	1.91	0.718	0.024	888.97	2.05
Age 85 To 89	0.796	0.037	453.30	2.22	0.934	0.024	1498.49	2.54
Age 90 And Over	1.061	0.039	738.98	2.89	1.253	0.025	2500.80	3.50
Sex = Female	-0.168	0.019	74.80	0.85	-0.269	0.012	497.31	0.76
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.215	0.062	12.19	1.24	0.098	0.042	5.50	1.10
CANDIDIASIS OF THE ESOPHAGUS (112.84)	0.244	0.088	7.69	1.28	0.257	0.054	22.94	1.29
MALIGNANT NEOPLASM OF ESOPHAGUS, UNSPECIFIED (150.9)	*				0.292	0.066	19.25	1.34
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.657	0.087	57.14	1.93	0.998	0.052	363.15	2.71
GLUCOCORTICOID DEFICIENCY (255.41)	0.326	0.115	8.06	1.39	*			
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM (273.8)	*				0.134	0.043	9.95	1.14
ACIDOSIS (276.2)	0.463	0.034	181.61	1.59	0.307	0.025	148.97	1.36
HYPERPOTASSEMIA (276.7)	0.162	0.042	15.16	1.18	0.111	0.028	15.83	1.12
ANEMIA IN NEOPLASTIC DISEASE (285.22)	*				0.318	0.073	18.89	1.37
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.498	0.079	40.08	1.65	0.303	0.060	25.68	1.35
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.082	0.041	3.96	1.09	0.106	0.027	15.58	1.11
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.077	0.023	11.36	1.08
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED (303.90)	0.270	0.100	7.24	1.31	*			
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.199	0.065	9.29	1.22	0.283	0.043	43.79	1.33
ATRIAL FIBRILLATION (427.31)	0.185	0.022	72.63	1.20	0.238	0.013	314.41	1.27
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.269	0.024	128.40	1.31	0.261	0.015	284.62	1.30
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.313	0.123	6.50	1.37	*			
OTHER EMPHYSEMA (492.8)	*				0.154	0.057	7.22	1.17
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.114	0.026	19.05	1.12	0.135	0.016	66.99	1.14
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.338	0.074	21.06	1.40	0.332	0.048	47.54	1.39
ACUTE RESPIRATORY FAILURE (518.81)	0.684	0.035	385.14	1.98	0.507	0.025	404.44	1.66
CHRONIC RESPIRATORY FAILURE (518.83)	*				0.211	0.057	13.95	1.24
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.721	0.066	118.23	2.06	0.584	0.048	147.48	1.79
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (531.50)	0.331	0.064	26.42	1.39	0.344	0.049	49.94	1.41

Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.00)	0.696	0.075	86.54	2.01	0.414	0.057	52.82	1.51
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.40)	0.518	0.040	168.90	1.68	0.326	0.028	134.93	1.39
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.50)	*				0.228	0.049	21.97	1.26
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM (537.89)	0.266	0.071	13.94	1.31	*			
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.730	0.119	37.67	2.07	0.434	0.098	19.54	1.54
PARALYTIC ILEUS (560.1)	0.244	0.086	8.07	1.28	*			
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.318	0.110	8.44	1.38	0.437	0.073	35.38	1.55
PERITONITIS (ACUTE) GENERALIZED (567.21)	0.294	0.098	9.00	1.34	0.356	0.085	17.45	1.43
OTHER SUPPURATIVE PERITONITIS (567.29)	0.465	0.100	21.43	1.59	0.578	0.089	42.27	1.78
UNSPECIFIED PERITONITIS (567.9)	0.301	0.055	29.57	1.35	0.274	0.048	31.84	1.32
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.714	0.100	51.05	2.04	0.769	0.068	127.67	2.16
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.610	0.074	68.20	1.84	0.639	0.052	151.63	1.90
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.373	0.058	40.82	1.45	0.139	0.041	11.57	1.15
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*				0.049	0.023	4.42	1.05
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.280	0.052	28.75	1.32	0.286	0.035	68.44	1.33
END STAGE RENAL DISEASE (585.6)	0.850	0.098	74.72	2.34	0.723	0.070	107.71	2.06
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.125	0.031	15.97	1.13	0.167	0.020	71.64	1.18
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.266	0.133	4.04	1.31	0.234	0.085	7.55	1.26
ADULT FAILURE TO THRIVE (783.7)	*				0.077	0.019	17.05	1.08
SEPTIC SHOCK (785.52)	0.524	0.047	123.28	1.69	0.366	0.037	99.32	1.44
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.411	0.056	53.83	1.51	0.388	0.043	82.19	1.47
OTHER ASCITES (789.59)	0.701	0.059	142.62	2.02	0.805	0.046	304.93	2.24
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.124	0.040	9.62	1.13	0.162	0.024	46.22	1.18
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.213	0.100	4.50	1.24	0.281	0.070	15.99	1.32
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.225	0.051	19.11	1.25	0.136	0.034	16.12	1.15
PULMONARY HYPERTENSION (Multiple)	0.133	0.043	9.44	1.14	0.148	0.028	28.23	1.16
CARDIOMYOPATHY (Multiple)	0.327	0.041	63.63	1.39	0.261	0.027	91.37	1.30
CHRONIC BRONCHITIS (Multiple)	0.208	0.045	20.98	1.23	0.195	0.029	44.52	1.22
MALNUTRITION (Multiple)	0.153	0.022	47.54	1.17	0.205	0.014	219.12	1.23
SEPSIS (Multiple)	0.381	0.032	143.28	1.46	0.190	0.021	80.22	1.21
ACUTE RENAL FAILURE (Multiple)	0.163	0.024	46.50	1.18	0.108	0.015	48.49	1.11

Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*				0.159	0.048	10.91	1.17
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.093	0.038	5.97	1.10	0.128	0.023	29.91	1.14
ENCEPHALOPATHY (Multiple)	*				0.066	0.020	11.10	1.07
HYPOTENSION, UNSP OR NEC (Multiple)	0.254	0.041	38.24	1.29	0.079	0.028	7.86	1.08
DECUBITIS ULCER (Multiple)	0.159	0.032	23.84	1.17	0.196	0.020	100.59	1.22
DEHYDRATION (Multiple)	*				0.041	0.016	6.48	1.04
BACTERIAL PNEUMONIA (Multiple)	0.240	0.032	56.02	1.27	0.247	0.020	148.60	1.28
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*				0.228	0.047	23.12	1.26
CHRONIC SYSTOLIC HEART FAILURE (Multiple)	*				0.090	0.035	6.63	1.09
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	*				0.320	0.080	16.06	1.38
Esophageal Repair - Group 1 (Multiple)	0.806	0.083	94.52	2.24	0.943	0.057	270.76	2.57
Esophageal Repair - Group 2 (Multiple)	1.022	0.142	51.88	2.78	*			
Gastrostomy (Multiple)	0.670	0.025	731.52	1.96	1.202	0.016	5748.51	3.33
Partial Gastrectomy and Pyloromyotomy (Multiple)	0.464	0.095	23.80	1.59	0.319	0.064	24.51	1.38
Vagotomy - Group 1 (Multiple)	0.646	0.128	25.40	1.91	0.412	0.114	12.98	1.51
Vagotomy - Group 2 (Multiple)	0.353	0.105	11.32	1.42	0.221	0.092	5.77	1.25
Suture of Ulcer Site (Multiple)	0.984	0.094	110.81	2.68	0.884	0.035	640.45	2.42
Other Repair of the Stomach - Group 1 (Multiple)	1.170	0.055	450.25	3.22	0.642	0.045	199.57	1.90
Intrathoracic Anastomosis of Esophagus (Multiple)	0.492	0.138	12.76	1.64	0.329	0.118	7.79	1.39
Other Esophageal Operations - Group 2 (Multiple)	0.599	0.096	38.88	1.82	*			
Other Pyloroplasties (Multiple)	0.155	0.068	5.13	1.17	*			
Other Procedures to Control Gastric or Duodenal Bleeding (Multiple)	0.837	0.074	128.44	2.31	0.568	0.060	88.57	1.76
Other Repair of the Stomach - Group 3 (Multiple)	0.508	0.117	18.95	1.66				
Resection or Removal of Small Intestine (Multiple)	0.825	0.092	81.04	2.28	0.640	0.083	59.78	1.90
Other Enterostomies (Multiple)	0.458	0.047	94.18	1.58	0.236	0.039	36.22	1.27
TOTAL ESOPHAGECTOMY (42.42)	0.751	0.165	20.70	2.12	*			
GASTROTOMY (43.0)	0.790	0.146	29.24	2.20	0.577	0.120	22.97	1.78
PARTIAL GASTRECTOMY WITH ANASTOMOSIS TO DUODENUM (43.6)	0.707	0.158	20.09	2.03	*			
PARTIAL GASTRECTOMY WITH ANASTOMOSIS TO JEJUNUM (43.7)	1.372	0.054	633.66	3.94	0.668	0.046	215.04	1.95
OPEN AND OTHER PARTIAL GASTRECTOMY (43.89)	1.188	0.076	246.45	3.28	0.529	0.065	66.40	1.70
OTHER TOTAL GASTRECTOMY (43.99)	1.581	0.080	393.55	4.86	0.773	0.070	122.45	2.17
PERCUTANEOUS [ENDOSCOPIC] GASTROJEJUNOSTOMY (44.32)	1.082	0.096	128.05	2.95	1.028	0.069	219.44	2.80
OTHER GASTROENTEROSTOMY WITHOUT GASTRECTOMY (44.39)	1.050	0.065	257.29	2.86	0.729	0.053	187.24	2.07
SUTURE OF GASTRIC ULCER SITE (44.41)	0.486	0.113	18.58	1.63	*			

Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
SUTURE OF DUODENAL ULCER SITE (44.42)	0.589	0.098	36.52	1.80	*			
OPEN AND OTHER RIGHT HEMICOLECTOMY (45.73)	1.071	0.152	49.37	2.92	0.800	0.142	31.71	2.23
OTHER LAPAROTOMY (54.19)	0.362	0.130	7.74	1.44	0.309	0.115	7.22	1.36
Palliative Care Risk Regardless of POA (Custom Logic)	2.326	0.026	8210.17	10.24	2.248	0.023	9749.61	9.47
Facility POA Percent	0.302	0.089	11.58	1.35	0.318	0.054	34.70	1.37
Intercept	-5.420	0.083	4230.58	0.00	-4.291	0.051	7009.08	0.01

Gastrointestinal Bleed

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.268	0.037	53.07	1.31	0.263	0.024	117.09	1.30
Admit Source: Transfer From Other Healthcare Facility	0.206	0.070	8.59	1.23	0.311	0.043	53.01	1.37
Admit Source: Transfer From Skilled Nursing Facility	0.128	0.036	12.72	1.14	0.409	0.021	394.58	1.51
Age 70 To 74	0.409	0.041	98.02	1.51	0.366	0.027	184.75	1.44
Age 75 To 79	0.537	0.040	183.33	1.71	0.531	0.026	427.79	1.70
Age 80 To 84	0.694	0.038	326.55	2.00	0.731	0.025	871.67	2.08
Age 85 To 89	0.781	0.039	403.84	2.18	0.940	0.025	1434.21	2.56
Age 90 And Over	0.949	0.040	557.11	2.58	1.257	0.025	2452.67	3.51
Sex = Female	-0.161	0.019	72.89	0.85	-0.150	0.012	163.08	0.86
CANDIDIASIS OF THE ESOPHAGUS (112.84)	*				0.307	0.053	33.89	1.36
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.526	0.045	135.91	1.69	0.629	0.030	440.57	1.88
HYPOSOLALITY AND/OR HYPONATREMIA (276.1)	0.223	0.035	39.57	1.25	0.253	0.022	126.98	1.29
ACIDOSIS (276.2)	0.767	0.035	491.85	2.15	0.480	0.026	341.05	1.62
HYPERPOTASSEMIA (276.7)	0.212	0.036	35.51	1.24	0.158	0.024	43.48	1.17
ANEMIA, UNSPECIFIED (285.9)	*				0.075	0.017	19.42	1.08
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.596	0.057	107.56	1.82	0.442	0.042	112.82	1.56
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.352	0.035	104.33	1.42	0.315	0.023	191.70	1.37
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.280	0.056	24.55	1.32
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.172	0.040	18.09	1.19	0.367	0.023	252.44	1.44
ALZHEIMER'S DISEASE (331.0)	*				0.276	0.024	135.15	1.32
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.661	0.050	175.57	1.94	0.457	0.037	156.23	1.58
AORTIC VALVE DISORDERS (424.1)	*				0.064	0.025	6.36	1.07

Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	*				0.143	0.057	6.39	1.15
ATRIAL FIBRILLATION (427.31)	0.152	0.020	57.00	1.16	0.195	0.012	248.22	1.22
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.224	0.022	105.95	1.25	0.288	0.013	459.65	1.33
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.170	0.036	22.01	1.19
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	*				0.163	0.038	18.14	1.18
ESOPHAGEAL VARICES WITH BLEEDING (456.0)	0.440	0.124	12.55	1.55	0.302	0.086	12.39	1.35
OTHER EMPHYSEMA (492.8)	0.245	0.089	7.66	1.28	0.182	0.058	9.97	1.20
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.152	0.024	40.35	1.17	0.214	0.015	204.41	1.24
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.656	0.060	120.45	1.93	0.587	0.042	193.18	1.80
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.641	0.047	184.52	1.90	0.523	0.033	255.87	1.69
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.613	0.067	84.78	1.85	0.460	0.044	109.28	1.58
ACUTE RESPIRATORY FAILURE (518.81)	1.389	0.045	962.47	4.01	0.902	0.038	575.15	2.46
CHRONIC RESPIRATORY FAILURE (518.83)	*				0.150	0.046	10.36	1.16
GASTROESOPHAGEAL LACERATION-HEMORRHAGE SYNDROME (530.7)	*				-0.147	0.044	11.22	0.86
ESOPHAGEAL HEMORRHAGE (530.82)	0.462	0.093	24.85	1.59	0.207	0.064	10.63	1.23
ACUTE GASTRIC ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (531.00)	*				-0.145	0.058	6.27	0.87
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (531.40)	-0.290	0.039	55.00	0.75	-0.203	0.024	70.29	0.82
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.00)	0.554	0.067	67.65	1.74	0.325	0.049	44.29	1.38
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.40)	0.324	0.036	82.43	1.38	0.202	0.023	74.91	1.22
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE AND PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.60)	1.896	0.112	288.89	6.66	1.322	0.097	184.59	3.75
ATROPHIC GASTRITIS, WITH HEMORRHAGE (535.11)	-0.624	0.195	10.19	0.54				
OTHER SPECIFIED GASTRITIS, WITH HEMORRHAGE (535.41)	-0.433	0.071	36.97	0.65	-0.168	0.039	18.67	0.85
UNSPECIFIED GASTRITIS AND GASTRODUODENITIS, WITH HEMORRHAGE (535.51)	-0.297	0.068	18.80	0.74				
DUODENITIS, WITH HEMORRHAGE (535.61)	-0.331	0.127	6.77	0.72	-0.203	0.073	7.73	0.82
ANGIODYSPLASIA OF STOMACH AND DUODENUM WITH HEMORRHAGE (537.83)	-0.739	0.060	152.13	0.48	-0.389	0.033	142.00	0.68
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.647	0.082	62.31	1.91	0.312	0.059	28.11	1.37
PARALYTIC ILEUS (560.1)	0.766	0.081	89.61	2.15	0.398	0.059	45.92	1.49

Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
DIVERTICULOSIS OF COLON WITH HEMORRHAGE (562.12)	-0.422	0.035	142.45	0.66	-0.455	0.022	439.64	0.64
DIVERTICULITIS OF COLON WITH HEMORRHAGE (562.13)	*				-0.154	0.043	12.76	0.86
HEMORRHAGE OF RECTUM AND ANUS (569.3)	-0.113	0.049	5.29	0.89	0.138	0.028	25.04	1.15
ANGIODYSPLASIA OF INTESTINE WITH HEMORRHAGE (569.85)	-0.359	0.059	37.07	0.70	-0.279	0.035	63.87	0.76
DIEULAFOY LESION (HEMORRHAGIC) OF INTESTINE (569.86)	*				-0.361	0.158	5.25	0.70
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.525	0.073	52.08	1.69	0.678	0.050	182.09	1.97
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.312	0.057	29.60	1.37	0.405	0.039	107.04	1.50
PORTAL HYPERTENSION (572.3)	*				0.113	0.046	5.96	1.12
HEMATEMESIS (578.0)	0.338	0.044	59.02	1.40	0.407	0.027	229.98	1.50
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.205	0.025	67.12	1.23	0.229	0.016	208.04	1.26
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.234	0.043	29.79	1.26	0.312	0.027	131.90	1.37
END STAGE RENAL DISEASE (585.6)	1.056	0.042	626.56	2.88	1.117	0.028	1623.36	3.06
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.108	0.028	14.46	1.11	0.134	0.018	58.25	1.14
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*				0.181	0.017	115.75	1.20
OTHER CONVULSIONS (780.39)	0.367	0.127	8.40	1.44				
TACHYCARDIA, UNSPECIFIED (785.0)	*				0.177	0.051	12.01	1.19
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.672	0.037	331.77	1.96	0.506	0.028	334.35	1.66
OTHER ASCITES (789.59)	0.886	0.056	251.06	2.43	0.898	0.039	542.57	2.46
HYPOXEMIA (799.02)	*				0.180	0.045	16.13	1.20
GASTROSTOMY STATUS (V44.1)	*				0.099	0.038	6.69	1.10
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.188	0.032	35.46	1.21
DO NOT RESUSCITATE STATUS (V49.86)	0.462	0.027	302.41	1.59	0.600	0.016	1328.33	1.82
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.286	0.059	23.51	1.33	0.406	0.037	119.12	1.50
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.164	0.043	14.47	1.18	0.144	0.027	27.81	1.16
PULMONARY HYPERTENSION (Multiple)	0.236	0.036	43.88	1.27	0.176	0.023	58.94	1.19
CARDIOMYOPATHY (Multiple)	0.311	0.038	66.77	1.37	0.153	0.026	35.72	1.17
CHRONIC BRONCHITIS (Multiple)	0.305	0.054	32.14	1.36	0.358	0.035	105.95	1.43
MALNUTRITION (Multiple)	0.623	0.029	474.97	1.87	0.613	0.019	1041.31	1.85
ACUTE RENAL FAILURE (Multiple)	0.369	0.023	263.43	1.45	0.263	0.015	319.02	1.30
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*				0.155	0.053	8.42	1.17
ENCEPHALOPATHY (Multiple)	0.515	0.049	109.94	1.67	0.478	0.034	195.56	1.61
HYPOTENSION, UNSP OR NEC (Multiple)	0.337	0.031	120.46	1.40	0.275	0.020	186.10	1.32
DECUBITIS ULCER (Multiple)	0.412	0.038	114.54	1.51	0.717	0.023	986.29	2.05
DEHYDRATION (Multiple)	0.088	0.030	8.77	1.09	0.100	0.019	28.56	1.11

Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
DYSPHAGIA (Multiple)	*				0.219	0.028	62.92	1.25
BACTERIAL PNEUMONIA (Multiple)	0.646	0.037	304.95	1.91	0.575	0.025	543.08	1.78
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.400	0.062	41.16	1.49	0.327	0.043	58.62	1.39
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.472	0.102	21.25	1.60	0.352	0.070	25.02	1.42
BODY MASS INDEX 40 AND OVER (Multiple)	0.196	0.052	14.38	1.22	0.135	0.034	16.21	1.15
ENDOSCOPIC CONTROL OF GASTRIC OR DUODENAL BLEEDING (44.43)	0.270	0.031	75.10	1.31				
OPEN TOTAL INTRA-ABDOMINAL COLECTOMY (45.82)	2.441	0.107	524.41	11.49	1.729	0.095	329.39	5.63
Palliative Care Risk Regardless of POA (Custom Logic)	3.597	0.027	17972.88	36.49	3.061	0.025	14802.12	21.34
Facility POA Percent	0.772	0.091	72.47	2.16	0.135	0.047	8.33	1.14
Intercept	-6.328	0.085	5599.50	0.00	-4.799	0.046	10762.79	0.01

Heart Attack (Stent Treatment Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.045	0.015	9.60	1.05	0.040	0.012	10.71	1.04
Admit Source: Transfer From Other Healthcare Facility	*				0.082	0.032	6.84	1.09
Admit Source: Transfer From Skilled Nursing Facility	*				0.293	0.026	130.29	1.34
Age 70 To 74	0.359	0.022	277.70	1.43	0.348	0.018	362.02	1.42
Age 75 To 79	0.621	0.021	882.66	1.86	0.593	0.018	1114.46	1.81
Age 80 To 84	0.801	0.021	1506.84	2.23	0.806	0.017	2135.19	2.24
Age 85 To 89	0.929	0.021	1908.66	2.53	0.992	0.018	3081.57	2.70
Age 90 And Over	1.023	0.023	2018.51	2.78	1.225	0.019	4201.12	3.41
Sex = Female	-0.048	0.011	18.04	0.95	-0.107	0.009	128.74	0.90
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.647	0.065	100.19	1.91	0.849	0.053	253.66	2.34
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	*				0.027	0.010	6.88	1.03
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.297	0.044	45.92	1.35	0.443	0.038	138.22	1.56
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	*				0.073	0.019	14.72	1.08
ACIDOSIS (276.2)	0.777	0.020	1439.91	2.17	0.635	0.019	1145.97	1.89
HYPERPOTASSEMIA (276.7)	0.413	0.024	302.21	1.51	0.346	0.021	280.07	1.41
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.191	0.056	11.60	1.21
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.121	0.044	7.45	1.13

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.237	0.023	108.22	1.27
ALZHEIMER'S DISEASE (331.0)	*				0.126	0.044	8.33	1.13
ANOXIC BRAIN DAMAGE (348.1)	1.625	0.036	2003.28	5.08	1.504	0.036	1786.05	4.50
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.118	0.042	7.84	1.13	0.186	0.034	30.22	1.21
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.178	0.023	59.88	1.19	0.148	0.019	63.35	1.16
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.590	0.063	86.35	1.80	0.354	0.057	38.29	1.42
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.305	0.063	23.48	1.36	0.244	0.055	19.75	1.28
AORTIC VALVE DISORDERS (424.1)	0.111	0.020	30.00	1.12	0.196	0.016	147.45	1.22
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.329	0.039	72.71	1.39	0.278	0.035	63.33	1.32
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.094	0.032	8.53	1.10	0.060	0.027	5.00	1.06
ATRIAL FIBRILLATION (427.31)	0.043	0.013	11.32	1.04	0.081	0.010	60.52	1.09
CARDIAC ARREST (427.5)	1.439	0.027	2944.51	4.22	1.255	0.026	2399.32	3.51
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.026	0.012	4.90	1.03	0.198	0.010	412.14	1.22
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.527	0.067	61.94	1.69	0.616	0.058	113.02	1.85
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.112	0.044	6.48	1.12	0.254	0.035	51.75	1.29
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.267	0.044	36.63	1.31	0.250	0.037	46.05	1.28
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	*				0.069	0.033	4.45	1.07
OTHER EMPHYSEMA (492.8)	0.111	0.055	4.03	1.12	0.121	0.046	6.89	1.13
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.141	0.016	82.26	1.15	0.160	0.013	153.33	1.17
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	*				0.164	0.036	20.80	1.18
UNSPECIFIED PLEURAL EFFUSION (511.9)	*				0.147	0.029	25.42	1.16
PULMONARY CONGESTION AND HYPOSTASIS (514)	0.464	0.050	85.13	1.59	0.369	0.045	67.28	1.45
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.332	0.042	61.28	1.39	0.366	0.035	110.86	1.44
ACUTE RESPIRATORY FAILURE (518.81)	0.608	0.017	1302.31	1.84	0.466	0.015	936.19	1.59
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.322	0.044	53.60	1.38	0.455	0.037	155.23	1.58
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.442	0.045	98.25	1.56	0.425	0.042	100.46	1.53
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.243	0.041	35.25	1.28	0.163	0.035	21.30	1.18
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.137	0.021	40.89	1.15
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*				0.314	0.062	25.71	1.37
END STAGE RENAL DISEASE (585.6)	1.082	0.025	1828.49	2.95	1.096	0.027	1609.80	2.99

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.141	0.017	71.40	1.15	0.176	0.014	162.38	1.19
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*				0.092	0.026	12.36	1.10
OTHER CONVULSIONS (780.39)	0.458	0.072	40.74	1.58	0.359	0.064	31.98	1.43
ADULT FAILURE TO THRIVE (783.7)	0.246	0.052	22.53	1.28	0.603	0.042	209.66	1.83
TACHYCARDIA, UNSPECIFIED (785.0)	0.186	0.065	8.33	1.21	0.166	0.055	9.14	1.18
CARDIOGENIC SHOCK (785.51)	1.163	0.019	3923.38	3.20	0.994	0.018	3196.40	2.70
CACHEXIA (799.4)	0.412	0.055	57.00	1.51	0.520	0.046	128.85	1.68
SEPSIS (995.91)	0.449	0.056	63.53	1.57	0.334	0.050	44.01	1.40
CARDIAC PACEMAKER IN SITU (V45.01)	-0.081	0.026	9.86	0.92	*			
AORTOCORONARY BYPASS STATUS (V45.81)	-0.136	0.023	35.96	0.87	-0.103	0.018	32.21	0.90
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.223	0.017	166.76	0.80	-0.214	0.014	234.57	0.81
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.121	0.027	19.37	1.13
DO NOT RESUSCITATE STATUS (V49.86)	0.671	0.017	1581.60	1.96	0.691	0.014	2322.75	2.00
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.141	0.043	11.00	1.15	0.118	0.035	11.22	1.13
MALNUTRITION (Multiple)	*				0.176	0.023	57.92	1.19
INFERIOR WALL AMI (Multiple)	0.767	0.019	1606.47	2.15	0.570	0.017	1150.97	1.77
ANTERIOR/LATERAL WALL AMI (Multiple)	1.111	0.014	6613.94	3.04	0.903	0.012	5707.08	2.47
ACUTE RENAL FAILURE (Multiple)	0.404	0.014	822.65	1.50	0.358	0.012	881.26	1.43
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.130	0.018	54.09	1.14	0.133	0.015	83.69	1.14
ENCEPHALOPATHY (Multiple)	*				0.109	0.027	16.03	1.12
HYPOTENSION, UNSP OR NEC (Multiple)	0.549	0.022	607.48	1.73	0.467	0.019	575.87	1.60
DECUBITIS ULCER (Multiple)	*				0.302	0.029	105.70	1.35
DEHYDRATION (Multiple)	0.064	0.026	6.08	1.07	0.051	0.021	5.74	1.05
BACTERIAL PNEUMONIA (Multiple)	0.259	0.018	202.17	1.30	0.230	0.015	228.03	1.26
RENAL DIALYSIS (Multiple)	*				0.102	0.036	8.01	1.11
BODY MASS INDEX 40 AND OVER (Multiple)	0.071	0.031	5.22	1.07	0.078	0.026	9.20	1.08
MITRAL VALVE REPLACEMENT (Multiple)	0.809	0.092	77.98	2.25	0.657	0.088	56.11	1.93
PROCEDURE ON SINGLE VESSEL (00.40)	0.061	0.031	3.90	1.06	*			
PROCEDURE ON TWO VESSELS (00.41)	0.105	0.039	7.43	1.11	0.088	0.026	11.23	1.09
PROCEDURE ON FOUR OR MORE VESSELS (00.43)	0.326	0.135	5.88	1.39	*			
INSERTION OF ONE VASCULAR STENT (00.45)	-0.519	0.037	197.83	0.60	-0.403	0.028	211.00	0.67
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.441	0.040	123.96	0.64	-0.339	0.031	118.51	0.71
INSERTION OF THREE VASCULAR STENTS (00.47)	-0.284	0.049	33.84	0.75	-0.200	0.040	25.10	0.82
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	-0.247	0.036	46.74	0.78	-0.224	0.024	87.66	0.80
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S) (36.07)	-0.792	0.042	362.59	0.45	-0.715	0.034	432.76	0.49

Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY (36.11)	*				-0.150	0.054	7.69	0.86
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES (36.12)	-0.211	0.045	22.44	0.81	-0.361	0.046	62.71	0.70
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES (36.13)	-0.314	0.047	44.95	0.73	-0.450	0.047	92.08	0.64
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES (36.14)	-0.331	0.062	28.47	0.72	-0.501	0.060	70.00	0.61
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.744	0.037	400.83	0.48	-0.760	0.041	350.20	0.47
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.16)	-0.661	0.152	18.96	0.52	-0.715	0.140	26.22	0.49
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH (37.33)	0.562	0.118	22.70	1.75	0.435	0.109	16.00	1.55
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, ENDOVASCULAR APPROACH (37.34)	-0.832	0.198	17.66	0.44	-0.765	0.156	24.09	0.47
IMPLANT OF PULSATION BALLOON (37.61)	1.431	0.020	5132.89	4.18	1.265	0.019	4645.93	3.54
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE (37.68)	1.896	0.060	1001.30	6.66	1.561	0.056	780.39	4.76
Palliative Care Risk Regardless of POA (Custom Logic)	2.961	0.021	19753.17	19.32	2.975	0.023	16439.12	19.60
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S) (Custom Logic)	-0.276	0.042	42.60	0.76	-0.284	0.035	64.74	0.75
Facility POA Percent	0.597	0.063	89.29	1.82	0.538	0.052	105.14	1.71
Intercept	-4.576	0.057	6504.94	0.01	-4.021	0.047	7244.30	0.02

Heart Attack (Stent Treatment Not Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Other Healthcare Facility	*				0.225	0.092	5.98	1.25
Admit Source: Transfer From Skilled Nursing Facility	*				0.231	0.041	32.28	1.26
Age 70 To 74	0.422	0.079	28.71	1.52	0.401	0.064	39.95	1.49
Age 75 To 79	0.577	0.073	62.21	1.78	0.576	0.059	95.03	1.78
Age 80 To 84	0.642	0.070	84.98	1.90	0.692	0.056	151.62	2.00
Age 85 To 89	0.707	0.068	108.50	2.03	0.826	0.055	228.42	2.29
Age 90 And Over	0.863	0.067	165.14	2.37	1.079	0.054	398.40	2.94
Sex = Female	-0.159	0.027	33.92	0.85	-0.217	0.022	98.69	0.81
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.483	0.136	12.56	1.62	0.811	0.109	55.28	2.25
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.403	0.078	26.82	1.50	0.600	0.066	81.81	1.82
ACIDOSIS (276.2)	0.537	0.059	82.57	1.71	0.402	0.053	56.42	1.49
HYPERPOTASSEMIA (276.7)	0.518	0.051	104.55	1.68	0.546	0.043	159.00	1.73
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.303	0.088	11.95	1.35

Heart Attack (Stent Treatment Not Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.170	0.040	17.73	1.19
ALZHEIMER'S DISEASE (331.0)	*				0.279	0.040	49.43	1.32
PARALYSIS AGITANS (332.0)	*				0.166	0.070	5.64	1.18
ANOXIC BRAIN DAMAGE (348.1)	1.891	0.129	214.60	6.62	1.766	0.133	175.96	5.85
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.404	0.131	9.46	1.50	0.371	0.113	10.73	1.45
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.565	0.158	12.81	1.76	0.374	0.143	6.90	1.45
ATRIAL FIBRILLATION (427.31)	0.078	0.029	7.30	1.08	0.108	0.023	22.21	1.11
VENTRICULAR FIBRILLATION (427.41)	0.693	0.176	15.55	2.00	0.487	0.170	8.19	1.63
CARDIAC ARREST (427.5)	2.782	0.095	863.04	16.15	2.508	0.100	625.15	12.28
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	*				0.171	0.022	62.17	1.19
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.520	0.125	17.42	1.68	0.653	0.108	36.74	1.92
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.208	0.066	9.86	1.23
OTHER EMPHYSEMA (492.8)	*				0.245	0.120	4.18	1.28
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.098	0.036	7.52	1.10	0.119	0.029	17.06	1.13
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.504	0.087	33.53	1.66	0.643	0.077	70.25	1.90
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.216	0.095	5.12	1.24	0.269	0.077	12.26	1.31
ACUTE RESPIRATORY FAILURE (518.81)	0.872	0.042	437.27	2.39	0.618	0.037	274.31	1.86
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.492	0.150	10.71	1.64	0.306	0.132	5.41	1.36
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.559	0.094	35.38	1.75	0.454	0.080	32.53	1.58
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.091	0.136	64.50	2.98	1.125	0.136	68.38	3.08
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.382	0.077	24.44	1.47	0.306	0.066	21.81	1.36
END STAGE RENAL DISEASE (585.6)	0.764	0.078	95.29	2.15	0.768	0.065	138.87	2.16
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.086	0.037	5.57	1.09	0.124	0.029	18.10	1.13
RENAL FAILURE, UNSPECIFIED (586)	1.303	0.150	75.07	3.68	1.032	0.144	51.06	2.81
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*				0.107	0.051	4.34	1.11
ADULT FAILURE TO THRIVE (783.7)	*				0.475	0.074	41.48	1.61
CARDIOGENIC SHOCK (785.51)	1.853	0.065	813.35	6.38	1.629	0.066	604.67	5.10
HYPOXEMIA (799.02)	0.235	0.059	15.94	1.27	0.196	0.049	16.09	1.22
CACHEXIA (799.4)	0.405	0.122	11.06	1.50	0.626	0.102	37.89	1.87
SEPSIS (995.91)	0.840	0.098	73.41	2.32	0.691	0.089	60.64	2.00
CARDIAC PACEMAKER IN SITU (V45.01)	-0.156	0.054	8.23	0.86	*			
AORTOCORONARY BYPASS STATUS (V45.81)	-0.121	0.042	8.15	0.89	-0.133	0.033	16.09	0.88

Heart Attack (Stent Treatment Not Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.366	0.057	40.77	0.69	-0.370	0.044	70.44	0.69
DO NOT RESUSCITATE STATUS (V49.86)	0.438	0.032	188.00	1.55	0.482	0.026	336.82	1.62
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.236	0.088	7.25	1.27
MALNUTRITION (Multiple)	*				0.150	0.049	9.43	1.16
INFERIOR WALL AMI (Multiple)	1.068	0.067	253.03	2.91	0.801	0.060	175.66	2.23
ANTERIOR/LATERAL WALL AMI (Multiple)	1.419	0.029	2360.72	4.13	1.126	0.025	2011.07	3.08
ACUTE RENAL FAILURE (Multiple)	0.510	0.032	255.22	1.67	0.431	0.026	265.47	1.54
HYPOTENSION, UNSP OR NEC (Multiple)	0.592	0.047	156.70	1.81	0.528	0.041	166.91	1.70
DECUBITIS ULCER (Multiple)	*				0.355	0.054	43.92	1.43
DEHYDRATION (Multiple)	0.133	0.045	8.94	1.14	0.111	0.037	9.18	1.12
DYSPHAGIA (Multiple)	*				0.150	0.061	6.02	1.16
BACTERIAL PNEUMONIA (Multiple)	0.328	0.034	95.86	1.39	0.331	0.027	145.67	1.39
Palliative Care Risk Regardless of POA (Custom Logic)	2.234	0.046	2329.32	9.34	2.298	0.050	2088.76	9.95
Facility POA Percent	0.006	0.063	0.01	1.01	-0.164	0.051	10.30	0.85
Intercept	-3.795	0.085	1971.67	0.02	-3.009	0.069	1899.70	0.05

Heart Failure

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.195	0.023	71.65	1.22	0.193	0.015	159.61	1.21
Admit Source: Transfer From Other Healthcare Facility	0.200	0.041	23.81	1.22	0.285	0.026	119.63	1.33
Admit Source: Transfer From Skilled Nursing Facility	0.356	0.019	341.74	1.43	0.518	0.012	1757.46	1.68
Age 70 To 74	0.272	0.024	129.09	1.31	0.253	0.015	282.61	1.29
Age 75 To 79	0.493	0.023	478.78	1.64	0.456	0.014	1025.95	1.58
Age 80 To 84	0.665	0.022	944.11	1.95	0.668	0.014	2401.62	1.95
Age 85 To 89	0.792	0.022	1348.34	2.21	0.861	0.014	4049.60	2.37
Age 90 And Over	0.953	0.022	1887.62	2.59	1.136	0.014	6834.24	3.12
Sex = Female	-0.201	0.010	388.10	0.82	-0.203	0.006	998.67	0.82
MYELOYDYSPLASTIC SYNDROME, UNSPECIFIED (238.75)	0.134	0.047	8.06	1.14	0.263	0.029	84.94	1.30
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.534	0.033	257.95	1.71	0.615	0.023	703.00	1.85
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.269	0.016	290.68	1.31	0.305	0.010	926.74	1.36
ACIDOSIS (276.2)	0.507	0.022	552.77	1.66	0.330	0.016	429.19	1.39
HYPERPOTASSEMIA (276.7)	0.481	0.017	769.61	1.62	0.445	0.012	1445.42	1.56
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED (276.9)	*				0.097	0.042	5.20	1.10

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
OBESITY HYPOVENTILATION SYNDROME (278.03)	*				0.069	0.029	5.55	1.07
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.089	0.022	16.78	1.09	0.130	0.014	89.58	1.14
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.298	0.033	80.47	1.35
DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE (293.0)	0.184	0.059	9.83	1.20	0.299	0.039	58.94	1.35
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.093	0.029	10.02	1.10
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.151	0.023	44.76	1.16	0.313	0.014	515.05	1.37
ALZHEIMER'S DISEASE (331.0)	0.072	0.026	7.34	1.07	0.237	0.029	69.12	1.27
PARALYSIS AGITANS (332.0)	*				0.067	0.024	7.73	1.07
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	*				0.104	0.024	18.69	1.11
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.091	0.030	9.07	1.10	0.174	0.019	87.81	1.19
MULTIPLE INVOLVEMENT OF MITRAL AND AORTIC VALVES (396.8)	*				0.087	0.042	4.28	1.09
RHEUMATIC HEART FAILURE (CONGESTIVE) (398.91)	-0.559	0.095	34.30	0.57	-0.284	0.063	20.27	0.75
HYPERTENSIVE HEART DISEASE, MALIGNANT, WITH HEART FAILURE (402.01)	-1.218	0.182	45.00	0.30	-0.970	0.098	97.27	0.38
HYPERTENSIVE HEART DISEASE, BENIGN, WITH HEART FAILURE (402.11)	-0.564	0.226	6.21	0.57	-0.508	0.130	15.30	0.60
HYPERTENSIVE HEART DISEASE, UNSPECIFIED, WITH HEART FAILURE (402.91)	-0.304	0.038	63.01	0.74	-0.328	0.023	198.63	0.72
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, MALIGNANT, WITH HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED (404.01)	-1.019	0.116	77.23	0.36	-0.700	0.064	119.70	0.50
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED (404.91)	0.154	0.021	53.00	1.17	0.061	0.014	19.10	1.06
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH HEART FAILURE AND CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE (404.93)	-0.202	0.083	5.90	0.82	*			
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.419	0.026	254.88	1.52	0.333	0.019	316.70	1.40
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.252	0.048	27.64	1.29	0.379	0.030	157.84	1.46
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.110	0.017	41.26	1.12	0.077	0.011	52.55	1.08
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.169	0.061	7.82	1.19	*			
AORTIC VALVE DISORDERS (424.1)	0.138	0.015	79.27	1.15	0.212	0.010	485.73	1.24
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.089	0.028	10.31	1.09	0.059	0.018	10.88	1.06
ATRIAL FIBRILLATION (427.31)	0.069	0.010	49.96	1.07	0.076	0.006	152.97	1.08

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	-0.438	0.020	457.13	0.65	-0.257	0.014	357.22	0.77
LEFT HEART FAILURE (428.1)	-0.564	0.099	32.17	0.57	-0.251	0.061	16.79	0.78
UNSPECIFIED SYSTOLIC HEART FAILURE (428.20)	-0.403	0.047	72.30	0.67	-0.163	0.029	31.35	0.85
ACUTE SYSTOLIC HEART FAILURE (428.21)	-0.670	0.024	784.57	0.51	-0.425	0.015	796.20	0.65
CHRONIC SYSTOLIC HEART FAILURE (428.22)	-0.545	0.047	134.94	0.58	-0.261	0.028	85.94	0.77
ACUTE ON CHRONIC SYSTOLIC HEART FAILURE (428.23)	-0.619	0.013	2111.45	0.54	-0.293	0.009	1157.72	0.75
UNSPECIFIED DIASTOLIC HEART FAILURE (428.30)	-0.734	0.035	439.51	0.48	-0.469	0.021	510.73	0.63
ACUTE DIASTOLIC HEART FAILURE (428.31)	-0.992	0.025	1567.00	0.37	-0.684	0.015	2067.01	0.50
CHRONIC DIASTOLIC HEART FAILURE (428.32)	-0.691	0.050	191.17	0.50	-0.451	0.030	222.66	0.64
ACUTE ON CHRONIC DIASTOLIC HEART FAILURE (428.33)	-0.873	0.014	3692.64	0.42	-0.556	0.009	3819.60	0.57
UNSPECIFIED COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.40)	-0.337	0.081	17.30	0.71	-0.213	0.052	16.87	0.81
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.41)	-0.770	0.048	252.20	0.46	-0.492	0.030	269.50	0.61
CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.42)	-0.599	0.090	44.20	0.55	-0.274	0.054	25.69	0.76
ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.43)	-0.685	0.019	1301.69	0.50	-0.364	0.012	935.21	0.70
HEART FAILURE, UNSPECIFIED (428.9)	0.447	0.116	14.94	1.56	0.266	0.087	9.27	1.31
CARDIOVASCULAR DISEASE, UNSPECIFIED (429.2)	0.328	0.082	16.16	1.39	0.132	0.054	6.05	1.14
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.133	0.025	29.23	1.14
OTHER EMPHYSEMA (492.8)	*				0.084	0.031	7.37	1.09
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.112	0.012	85.13	1.12	0.173	0.008	499.31	1.19
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.739	0.037	400.39	2.09	0.619	0.027	510.73	1.86
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.163	0.017	92.18	1.18	0.184	0.011	281.62	1.20
PULMONARY CONGESTION AND HYPOSTASIS (514)	0.131	0.054	6.00	1.14	*			
ACUTE RESPIRATORY FAILURE (518.81)	0.509	0.014	1367.67	1.66	0.313	0.010	1037.07	1.37
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.258	0.052	24.32	1.29	0.146	0.034	18.14	1.16
CHRONIC RESPIRATORY FAILURE (518.83)	*				0.190	0.023	68.57	1.21
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.590	0.020	832.66	1.80	0.539	0.014	1462.59	1.72
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.173	0.047	13.57	1.19	0.247	0.030	67.73	1.28
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.207	0.011	371.69	1.23
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	0.160	0.052	9.56	1.17	0.367	0.032	135.08	1.44
END STAGE RENAL DISEASE (585.6)	1.135	0.038	901.75	3.11	0.992	0.026	1434.70	2.70
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.150	0.012	151.18	1.16	0.182	0.008	538.96	1.20

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.058	0.026	5.14	1.06	0.108	0.016	48.33	1.11
ULCER OF LOWER LIMB, UNSPECIFIED (707.10)	0.393	0.049	65.41	1.48	0.372	0.031	141.64	1.45
ULCER OF OTHER PART OF FOOT (707.15)	0.142	0.055	6.62	1.15	0.275	0.033	67.60	1.32
ULCER OF OTHER PART OF LOWER LIMB (707.19)	0.250	0.053	21.88	1.28	0.297	0.033	79.30	1.35
ADULT FAILURE TO THRIVE (783.7)	0.447	0.029	245.31	1.56	0.676	0.019	1247.91	1.97
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	0.113	0.051	4.97	1.12	0.105	0.031	11.30	1.11
OTHER ASCITES (789.59)	0.426	0.033	164.82	1.53	0.390	0.022	318.54	1.48
HYPOXEMIA (799.02)	0.042	0.019	4.75	1.04	0.061	0.012	26.07	1.06
CACHEXIA (799.4)	0.558	0.037	226.73	1.75	0.586	0.026	489.82	1.80
CARDIAC PACEMAKER IN SITU (V45.01)	-0.169	0.015	122.95	0.85	-0.133	0.009	210.46	0.88
AORTOCORONARY BYPASS STATUS (V45.81)	-0.198	0.018	115.61	0.82	-0.146	0.011	165.19	0.86
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.289	0.018	260.01	0.75	-0.267	0.011	604.32	0.77
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.111	0.012	85.72	1.12
DO NOT RESUSCITATE STATUS (V49.86)	0.889	0.013	5003.49	2.43	0.745	0.008	7692.69	2.11
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.098	0.028	12.55	1.10
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	*				0.054	0.009	36.86	1.06
PULMONARY HYPERTENSION (Multiple)	*				0.028	0.008	14.36	1.03
CHRONIC BRONCHITIS (Multiple)	*				0.104	0.010	111.10	1.11
MALNUTRITION (Multiple)	0.426	0.019	518.56	1.53	0.490	0.013	1487.96	1.63
ANTERIOR/LATERAL WALL AMI (Multiple)	1.526	0.055	781.09	4.60	1.082	0.045	581.91	2.95
ACUTE RENAL FAILURE (Multiple)	0.499	0.011	1924.78	1.65	0.374	0.008	2479.83	1.45
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*				0.059	0.023	6.52	1.06
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*				0.030	0.010	8.54	1.03
HYPOTENSION, UNSP OR NEC (Multiple)	0.683	0.021	1105.02	1.98	0.599	0.014	1762.07	1.82
DECUBITIS ULCER (Multiple)	0.470	0.021	482.40	1.60	0.669	0.014	2382.10	1.95
DEHYDRATION (Multiple)	0.489	0.023	435.02	1.63	0.410	0.016	661.62	1.51
DYSPHAGIA (Multiple)	0.104	0.027	15.16	1.11	0.344	0.017	420.70	1.41
BACTERIAL PNEUMONIA (Multiple)	0.495	0.012	1743.42	1.64	0.303	0.008	1472.56	1.35
FUNGAL PNEUMONIA (Multiple)	*				0.693	0.339	4.19	2.00
INSERTION OF ONE VASCULAR STENT (00.45)	-0.668	0.112	35.30	0.51	-0.649	0.056	132.75	0.52
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.523	0.145	13.00	0.59	-0.486	0.084	33.76	0.62
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	0.220	0.102	4.69	1.25	*			
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S) (36.07)	-0.309	0.115	7.19	0.73	*			
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.240	0.094	6.50	0.79	-0.572	0.082	49.01	0.57

Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/ DEFIBRILLATOR, TOTAL SYSTEM [AICD] (37.94)	-1.577	0.115	189.59	0.21	-1.232	0.068	323.97	0.29
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	3.055	0.019	24707.60	21.23	2.081	0.018	13690.82	8.01
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.836	0.032	7931.74	17.06	1.899	0.030	4127.48	6.68
Palliative Care Risk Regardless of POA (Custom Logic)	3.176	0.014	50338.01	23.95	2.619	0.013	37908.36	13.72
Facility POA Percent	0.298	0.036	67.16	1.35	-0.026	0.021	1.50	0.97
Intercept	-4.367	0.041	11074.40	0.01	-3.272	0.026	16255.52	0.04

Neurosurgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Other Healthcare Facility	*				0.178	0.079	5.11	1.20
Admit Source: Transfer From Skilled Nursing Facility	*				0.366	0.101	13.28	1.44
Age 70 To 74	0.082	0.047	2.96	1.09	0.158	0.040	15.89	1.17
Age 75 To 79	0.243	0.048	25.39	1.28	0.351	0.040	76.14	1.42
Age 80 To 84	0.376	0.052	52.90	1.46	0.525	0.043	148.15	1.69
Age 85 To 89	0.455	0.062	53.86	1.58	0.769	0.051	231.06	2.16
Age 90 And Over	0.746	0.089	70.43	2.11	1.075	0.073	218.65	2.93
Sex = Female	-0.105	0.033	10.08	0.90	-0.172	0.027	39.25	0.84
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	*				0.464	0.084	30.75	1.59
MALIGNANT NEOPLASM OF FRONTAL LOBE (191.1)	*				0.394	0.086	20.90	1.48
MALIGNANT NEOPLASM OF OTHER PARTS OF BRAIN (191.8)	*				0.456	0.155	8.62	1.58
MALIGNANT NEOPLASM OF BRAIN, UNSPECIFIED (191.9)	*				0.473	0.151	9.82	1.61
MALIGNANT NEOPLASM OF LIVER, SPECIFIED AS SECONDARY (197.7)	0.379	0.176	4.65	1.46	0.324	0.130	6.23	1.38
SECONDARY MALIGNANT NEOPLASM OF BRAIN AND SPINAL CORD (198.3)	*				0.330	0.055	35.58	1.39
SECONDARY MALIGNANT NEOPLASM OF OTHER PARTS OF NERVOUS SYSTEM (198.4)	*				0.724	0.147	24.19	2.06
SECONDARY MALIGNANT NEOPLASM OF BONE AND BONE MARROW (198.5)	0.580	0.127	20.86	1.79	0.756	0.095	63.09	2.13
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	*				0.424	0.131	10.52	1.53
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.093	0.039	5.88	1.10	0.106	0.032	10.99	1.11

Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.376	0.152	6.11	1.46	*			
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.520	0.098	28.06	1.68	0.475	0.088	28.87	1.61
ACIDOSIS (276.2)	0.318	0.102	9.71	1.38	0.233	0.093	6.27	1.26
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.724	0.130	31.03	2.06	0.708	0.117	36.56	2.03
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.593	0.072	67.10	1.81	0.512	0.062	68.86	1.67
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.315	0.087	13.07	1.37
OBSTRUCTIVE HYDROCEPHALUS (331.4)	0.205	0.049	17.67	1.23	0.156	0.043	13.01	1.17
COMPRESSION OF BRAIN (348.4)	0.361	0.051	50.04	1.44	0.261	0.045	33.54	1.30
CEREBRAL EDEMA (348.5)	*				0.084	0.035	5.86	1.09
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.240	0.057	17.45	1.27	0.188	0.048	15.51	1.21
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.186	0.044	18.22	1.21	0.099	0.037	7.29	1.10
ATRIAL FIBRILLATION (427.31)	0.309	0.039	61.31	1.36	0.304	0.033	83.46	1.36
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.280	0.049	32.13	1.32	0.259	0.043	35.92	1.30
SUBARACHNOID HEMORRHAGE (430)	1.056	0.049	456.55	2.88	0.783	0.046	292.96	2.19
INTRACEREBRAL HEMORRHAGE (431)	0.763	0.049	247.11	2.14	0.620	0.043	206.49	1.86
UNSPECIFIED INTRACRANIAL HEMORRHAGE (432.9)	0.781	0.113	47.43	2.18	0.792	0.101	61.21	2.21
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION (434.01)	0.767	0.110	48.76	2.15	0.711	0.098	52.32	2.04
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	0.614	0.088	48.33	1.85	0.499	0.080	39.04	1.65
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.861	0.069	153.94	2.37	0.711	0.063	128.46	2.04
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	*				0.135	0.042	10.09	1.14
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.455	0.094	23.19	1.58	0.476	0.087	30.02	1.61
ACUTE RESPIRATORY FAILURE (518.81)	1.084	0.044	618.17	2.96	0.945	0.041	542.83	2.57
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.772	0.145	28.29	2.16	0.722	0.123	34.60	2.06
END STAGE RENAL DISEASE (585.6)	1.067	0.119	80.27	2.91	1.141	0.102	123.99	3.13
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.243	0.070	12.05	1.28	0.228	0.058	15.26	1.26
COMA (780.01)	1.116	0.076	213.27	3.05	1.048	0.074	202.33	2.85
STATUS POST ADMINISTRATION OF TPA (RTPA) IN A DIFFERENT FACILITY WITHIN THE LAST 24 HOURS PRIOR TO ADMISSION TO CURRENT FACILITY (V45.88)	-0.309	0.126	5.98	0.73	*			
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.298	0.128	5.40	1.35
CARDIOMYOPATHY (Multiple)	*				0.189	0.076	6.27	1.21
INFARCTION OF A CEREBRAL ARTERY (Multiple)	1.197	0.087	187.30	3.31	0.914	0.081	127.35	2.49

Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
MALNUTRITION (Multiple)	*				0.136	0.057	5.67	1.15
ACUTE RENAL FAILURE (Multiple)	0.332	0.072	21.05	1.39	0.253	0.063	15.99	1.29
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	*				0.228	0.102	4.99	1.26
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*				0.232	0.066	12.41	1.26
ENCEPHALOPATHY (Multiple)	*				0.126	0.048	6.88	1.13
HYPOTENSION, UNSP OR NEC (Multiple)	0.499	0.110	20.65	1.65	0.463	0.097	22.71	1.59
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*				0.500	0.175	8.19	1.65
IMPLANTATION OF CHEMOTHERAPEUTIC AGENT (00.10)	*				0.605	0.185	10.66	1.83
INFUSION OF VASOPRESSOR AGENT (00.17)	1.163	0.108	115.12	3.20	0.981	0.103	90.26	2.67
INTRACRANIAL PRESSURE MONITORING (01.10)	0.654	0.092	50.60	1.92	0.484	0.086	31.33	1.62
OPEN BIOPSY OF BRAIN (01.14)	*				0.462	0.081	32.23	1.59
REOPENING OF CRANIOTOMY SITE (01.23)	0.364	0.124	8.56	1.44	0.336	0.103	10.67	1.40
OTHER CRANIOTOMY (01.24)	0.738	0.066	125.15	2.09	0.590	0.056	110.67	1.80
OTHER CRANIECTOMY (01.25)	0.822	0.101	65.98	2.28	0.560	0.091	37.67	1.75
PLACEMENT OF INTRACEREBRAL CATHETER(S) VIA BURR HOLE(S) (01.28)	0.546	0.163	11.25	1.73	0.516	0.138	13.93	1.68
INCISION OF CEREBRAL MENINGES (01.31)	0.725	0.045	265.06	2.07	0.495	0.038	166.12	1.64
OTHER INCISION OF BRAIN (01.39)	0.848	0.058	211.45	2.34	0.702	0.052	183.33	2.02
VENTRICULOSTOMY (02.2)	1.489	0.055	732.96	4.43	1.280	0.050	650.97	3.60
INTRACRANIAL VENTRICULAR SHUNT OR ANASTOMOSIS (02.22)	1.425	0.099	207.42	4.16	1.227	0.088	194.80	3.41
VENTRICULAR SHUNT TO STRUCTURE IN HEAD AND NECK (02.31)	1.841	0.432	18.19	6.30	1.743	0.395	19.46	5.71
VENTRICULAR SHUNT TO EXTRACRANIAL SITE NEC (02.39)	1.303	0.099	173.42	3.68	1.078	0.093	135.09	2.94
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S) (39.74)	0.762	0.083	84.04	2.14	0.662	0.074	79.26	1.94
Palliative Care Risk Regardless of POA (Custom Logic)	3.991	0.045	7750.40	54.12	3.873	0.047	6740.58	48.07
Facility POA Percent	0.341	0.156	4.75	1.41	0.225	0.127	3.11	1.25
Intercept	-5.083	0.136	1401.81	0.01	-4.384	0.111	1550.59	0.01

Pancreatitis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.367	0.070	27.58	1.44	0.371	0.057	42.30	1.45
Admit Source: Transfer From Skilled Nursing Facility	*				0.361	0.085	17.94	1.44
Age 70 To 74	0.231	0.072	10.41	1.26	0.243	0.058	17.73	1.28
Age 75 To 79	0.536	0.070	59.38	1.71	0.534	0.056	90.08	1.71
Age 80 To 84	0.751	0.069	117.22	2.12	0.768	0.056	189.01	2.16
Age 85 To 89	0.926	0.072	164.73	2.53	0.991	0.058	293.70	2.69
Age 90 And Over	1.124	0.078	209.60	3.08	1.353	0.061	498.32	3.87
Sex = Female	-0.298	0.041	53.69	0.74	-0.250	0.032	60.17	0.78
HYPOCALCEMIA (275.41)	0.796	0.107	55.60	2.22	0.760	0.091	69.70	2.14
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.284	0.122	5.45	1.33	0.471	0.097	23.36	1.60
ACIDOSIS (276.2)	1.157	0.064	327.26	3.18	0.903	0.056	259.25	2.47
HYPERPOTASSEMIA (276.7)	0.581	0.083	49.10	1.79	0.411	0.071	33.46	1.51
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.383	0.078	24.35	1.47
ALZHEIMER'S DISEASE (331.0)	*				0.217	0.080	7.36	1.24
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.838	0.170	24.38	2.31	0.558	0.154	13.17	1.75
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.699	0.192	13.30	2.01	0.532	0.164	10.59	1.70
ATRIAL FIBRILLATION (427.31)	0.261	0.050	27.57	1.30	0.276	0.039	50.43	1.32
ATRIAL FLUTTER (427.32)	0.362	0.157	5.30	1.44	*			
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.125	0.055	5.21	1.13	0.256	0.042	37.04	1.29
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.251	0.056	20.40	1.29	0.287	0.043	43.57	1.33
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.819	0.183	20.02	2.27	0.680	0.157	18.69	1.97
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.310	0.089	12.13	1.36	0.349	0.072	23.83	1.42
ACUTE RESPIRATORY FAILURE (518.81)	1.502	0.103	212.44	4.49	1.193	0.095	156.11	3.30
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.831	0.182	20.95	2.30	0.689	0.155	19.66	1.99
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.116	0.141	62.97	3.05	0.825	0.128	41.33	2.28
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	*				0.658	0.140	22.03	1.93
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	*				0.291	0.109	7.06	1.34
ACUTE CHOLECYSTITIS (575.0)	0.515	0.181	8.13	1.67	*			
CYST AND PSEUDOCYST OF PANCREAS (577.2)	0.161	0.082	3.86	1.18	0.213	0.065	10.70	1.24
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.984	0.156	39.53	2.68	0.809	0.135	35.75	2.25
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.113	0.109	1.08	1.12	0.252	0.086	8.66	1.29
END STAGE RENAL DISEASE (585.6)	0.857	0.106	65.04	2.36	1.039	0.082	160.60	2.83
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.004	0.069	0.00	1.00	0.110	0.053	4.26	1.12

Pancreatitis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
HYDRONEPHROSIS (591)	*				0.291	0.135	4.64	1.34
SEPTIC SHOCK (785.52)	1.155	0.213	29.44	3.17	1.239	0.201	37.91	3.45
OTHER ASCITES (789.59)	1.064	0.081	174.53	2.90	1.064	0.067	250.59	2.90
DO NOT RESUSCITATE STATUS (V49.86)	0.788	0.068	132.58	2.20	0.834	0.054	239.23	2.30
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.259	0.142	3.32	1.30	0.368	0.105	12.20	1.44
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.402	0.107	13.99	1.49	0.350	0.086	16.59	1.42
CARDIOMYOPATHY (Multiple)	0.395	0.097	16.52	1.48	0.246	0.080	9.41	1.28
CHRONIC BRONCHITIS (Multiple)	*				0.337	0.107	9.83	1.40
MALNUTRITION (Multiple)	0.218	0.066	11.03	1.24	0.356	0.051	48.09	1.43
SEPSIS (Multiple)	1.101	0.127	75.41	3.01	0.818	0.115	50.25	2.27
ACUTE RENAL FAILURE (Multiple)	0.698	0.048	208.52	2.01	0.601	0.039	237.09	1.83
ENCEPHALOPATHY (Multiple)	*				0.423	0.092	20.99	1.53
HYPOTENSION, UNSP OR NEC (Multiple)	0.581	0.097	36.10	1.79	0.481	0.082	34.43	1.62
DECUBITIS ULCER (Multiple)	*				0.464	0.101	21.15	1.59
DYSPHAGIA (Multiple)	*				0.427	0.093	20.87	1.53
BACTERIAL PNEUMONIA (Multiple)	0.385	0.089	18.81	1.47	0.458	0.070	42.80	1.58
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	*				0.591	0.213	7.69	1.81
Palliative Care Risk Regardless of POA (Custom Logic)	4.200	0.071	3547.98	66.72	3.990	0.073	3015.20	54.06
Facility POA Percent	0.751	0.168	20.07	2.12	0.486	0.126	14.98	1.63
Intercept	-5.869	0.151	1503.92	0.00	-5.199	0.114	2070.63	0.01

Pneumonia

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.326	0.024	181.24	1.39	0.296	0.018	270.62	1.35
Admit Source: Transfer From Other Healthcare Facility	0.155	0.038	16.43	1.17	0.230	0.027	73.74	1.26
Admit Source: Transfer From Skilled Nursing Facility	0.179	0.018	104.57	1.20	0.352	0.012	834.05	1.42
Age 70 To 74	0.326	0.022	225.70	1.39	0.327	0.016	439.06	1.39
Age 75 To 79	0.461	0.021	496.45	1.59	0.497	0.015	1124.67	1.64
Age 80 To 84	0.643	0.020	1042.71	1.90	0.673	0.014	2209.03	1.96
Age 85 To 89	0.748	0.020	1401.48	2.11	0.845	0.014	3481.85	2.33
Age 90 And Over	0.954	0.020	2223.13	2.60	1.148	0.014	6291.15	3.15
Sex = Female	-0.150	0.009	249.67	0.86	-0.232	0.007	1201.01	0.79
CANDIDIASIS OF MOUTH (112.0)	*				0.194	0.028	46.33	1.21
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.965	0.025	1453.66	2.62	1.251	0.018	4782.28	3.50
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.696	0.024	842.98	2.01	0.937	0.018	2762.60	2.55
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.059	0.015	15.36	1.06	0.043	0.011	15.41	1.04
ACIDOSIS (276.2)	0.668	0.020	1088.74	1.95	0.505	0.017	930.40	1.66
HYPERPOTASSEMIA (276.7)	0.436	0.021	452.09	1.55	0.385	0.016	604.73	1.47
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED (276.9)	0.136	0.054	6.25	1.15	0.175	0.039	20.55	1.19
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.113	0.022	27.78	1.12	0.077	0.016	24.04	1.08
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.359	0.030	142.14	1.43
VASCULAR DEMENTIA, UNCOMPLICATED (290.40)	*				0.104	0.035	8.57	1.11
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	*				0.116	0.041	8.17	1.12
DEMENTIA, UNSPECIFIED, WITHOUT BEHAVIORAL DISTURBANCE (294.20)	*				0.142	0.012	150.15	1.15
DEMENTIA, UNSPECIFIED, WITH BEHAVIORAL DISTURBANCE (294.21)	*				0.260	0.047	31.00	1.30
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.169	0.019	78.19	1.18	0.342	0.013	690.18	1.41
UNSPECIFIED PSYCHOSIS (298.9)	*				0.084	0.032	6.82	1.09
ALZHEIMER'S DISEASE (331.0)	0.053	0.019	7.39	1.05	0.284	0.013	454.96	1.33
DEMENTIA WITH LEWY BODIES (331.82)	*				0.161	0.034	22.47	1.18
PARALYSIS AGITANS (332.0)	*				0.104	0.020	27.15	1.11
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.649	0.031	440.23	1.91	0.512	0.025	413.19	1.67
AORTIC VALVE DISORDERS (424.1)	*				0.036	0.017	4.78	1.04
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.288	0.043	45.37	1.33	0.192	0.032	34.78	1.21
ATRIAL FIBRILLATION (427.31)	0.195	0.010	368.27	1.22	0.187	0.007	664.27	1.21
ATRIAL FLUTTER (427.32)	0.110	0.033	11.30	1.12	0.066	0.024	7.33	1.07
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.273	0.010	740.26	1.31	0.287	0.007	1554.63	1.33

Pneumonia (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CARDIOVASCULAR DISEASE, UNSPECIFIED (429.2)	0.318	0.072	19.29	1.37	0.301	0.051	35.43	1.35
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.068	0.024	8.22	1.07
PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] (481)	-0.599	0.052	134.31	0.55	-0.716	0.038	357.18	0.49
PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE (482.0)	*				-0.130	0.047	7.66	0.88
PNEUMONIA DUE TO PSEUDOMONAS (482.1)	-0.112	0.037	8.94	0.89	-0.118	0.028	17.63	0.89
PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] (482.2)	-0.957	0.104	84.76	0.38	-0.979	0.073	180.99	0.38
PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS (482.30)	-0.795	0.122	42.75	0.45	-0.738	0.082	80.29	0.48
PNEUMONIA DUE TO OTHER STREPTOCOCCUS (482.39)	-0.446	0.155	8.31	0.64	-0.466	0.110	17.98	0.63
METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS (482.41)	*				-0.160	0.043	14.01	0.85
PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] (482.82)	-0.280	0.080	12.23	0.76	-0.218	0.055	15.48	0.80
PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA (482.83)	-0.351	0.036	93.39	0.70	-0.274	0.027	104.28	0.76
LEGIONNAIRES' DISEASE (482.84)	*				-0.608	0.098	38.38	0.54
BACTERIAL PNEUMONIA, UNSPECIFIED (482.9)	-0.427	0.038	127.57	0.65	-0.476	0.028	292.10	0.62
PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE (483.0)	-0.296	0.108	7.52	0.74	-0.423	0.077	30.30	0.66
BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED (485)	-0.264	0.058	21.09	0.77	-0.382	0.040	89.29	0.68
PNEUMONIA, ORGANISM UNSPECIFIED (486)	-0.086	0.021	17.13	0.92	-0.226	0.018	165.31	0.80
INFLUENZA WITH PNEUMONIA (487.0)	-0.299	0.044	45.63	0.74	-0.563	0.034	274.11	0.57
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.090	0.012	58.69	1.09	0.106	0.008	166.83	1.11
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.217	0.016	177.51	1.24	0.269	0.012	525.90	1.31
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.518	0.019	713.46	1.68	0.426	0.015	849.90	1.53
ACUTE RESPIRATORY FAILURE (518.81)	1.006	0.012	7035.84	2.74	0.704	0.010	5438.67	2.02
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.704	0.049	209.76	2.02	0.450	0.038	140.60	1.57
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.504	0.018	811.67	1.66	0.525	0.013	1631.59	1.69
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.427	0.055	61.31	1.53	0.574	0.039	219.54	1.78
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.457	0.044	110.45	1.58	0.421	0.034	152.25	1.52
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.154	0.019	66.90	1.17
END STAGE RENAL DISEASE (585.6)	0.424	0.027	242.39	1.53	0.634	0.019	1074.40	1.88
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.085	0.015	33.43	1.09	0.118	0.011	125.76	1.13
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.073	0.025	8.29	1.08	0.096	0.017	30.50	1.10
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.087	0.014	39.70	1.09	0.159	0.010	275.66	1.17

Pneumonia (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
PRESSURE ULCER, STAGE III (707.23)	0.103	0.046	5.11	1.11	0.203	0.031	41.62	1.23
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	*				0.231	0.039	35.00	1.26
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.217	0.041	28.66	1.24	0.328	0.028	132.78	1.39
OTHER CONVULSIONS (780.39)	0.326	0.062	27.41	1.39	0.281	0.045	39.72	1.33
ALTERED MENTAL STATUS (780.97)	0.173	0.031	30.26	1.19	0.304	0.021	202.11	1.36
ADULT FAILURE TO THRIVE (783.7)	0.232	0.025	83.84	1.26	0.579	0.018	1093.73	1.78
SEPTIC SHOCK (785.52)	0.533	0.074	52.59	1.71	0.552	0.069	63.72	1.74
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	0.452	0.049	84.86	1.57	0.377	0.035	114.70	1.46
CACHEXIA (799.4)	0.564	0.029	377.09	1.76	0.596	0.022	710.42	1.82
SEPSIS (995.91)	0.414	0.067	37.83	1.51	0.352	0.054	43.14	1.42
SEVERE SEPSIS (995.92)	0.988	0.077	164.91	2.69	0.784	0.067	137.90	2.19
GASTROSTOMY STATUS (V44.1)	0.252	0.033	59.66	1.29	0.340	0.023	219.22	1.41
DO NOT RESUSCITATE STATUS (V49.86)	0.813	0.012	4713.72	2.25	0.712	0.009	6385.75	2.04
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.197	0.020	98.62	1.22
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.092	0.024	14.01	1.10	0.049	0.018	7.50	1.05
PULMONARY HYPERTENSION (Multiple)	*				0.033	0.012	7.37	1.03
CARDIOMYOPATHY (Multiple)	0.190	0.021	81.26	1.21	0.071	0.016	20.00	1.07
MALNUTRITION (Multiple)	0.383	0.015	648.14	1.47	0.479	0.011	1822.36	1.61
SEPSIS (Multiple)	0.717	0.064	124.97	2.05	0.505	0.052	95.42	1.66
ACUTE RENAL FAILURE (Multiple)	0.338	0.012	756.52	1.40	0.206	0.009	493.43	1.23
ENCEPHALOPATHY (Multiple)	*				0.033	0.015	4.70	1.03
HYPOTENSION, UNSP OR NEC (Multiple)	0.375	0.021	327.76	1.45	0.264	0.016	280.34	1.30
DECUBITIS ULCER (Multiple)	0.308	0.021	222.72	1.36	0.566	0.014	1567.72	1.76
DEHYDRATION (Multiple)	0.095	0.014	46.51	1.10	0.125	0.010	165.41	1.13
DYSPHAGIA (Multiple)	*				0.143	0.014	107.61	1.15
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*				0.180	0.019	87.88	1.20
TRANSFUSION OF PACKED CELLS (99.04)	1.056	0.017	3679.57	2.87	0.714	0.014	2445.43	2.04
Palliative Care Risk Regardless of POA (Custom Logic)	3.364	0.015	50331.27	28.90	3.106	0.016	37905.14	22.34
Facility POA Percent	-0.102	0.029	12.36	0.90	-0.348	0.019	346.43	0.71
Intercept	-4.627	0.036	16503.25	0.01	-3.434	0.026	16948.65	0.03

Pulmonary Embolism

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.405	0.052	61.15	1.50	0.263	0.043	37.88	1.30
Admit Source: Transfer From Skilled Nursing Facility	0.249	0.060	17.09	1.28	0.402	0.045	81.54	1.50
Age 70 To 74	0.098	0.051	3.65	1.10	0.135	0.041	10.98	1.15
Age 75 To 79	0.243	0.050	23.97	1.28	0.299	0.039	57.51	1.35
Age 80 To 84	0.358	0.049	53.08	1.43	0.514	0.039	176.42	1.67
Age 85 To 89	0.490	0.051	93.05	1.63	0.719	0.040	324.94	2.05
Age 90 And Over	0.556	0.057	95.56	1.74	0.952	0.044	477.63	2.59
Sex = Female	*				-0.171	0.022	62.18	0.84
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	*				0.208	0.088	5.56	1.23
UNSPECIFIED SEPTICEMIA (038.9)	0.696	0.263	7.01	2.01	1.213	0.091	178.34	3.37
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE (041.12)	*				0.350	0.132	7.09	1.42
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED (153.9)	0.445	0.211	4.45	1.56	0.435	0.164	7.03	1.55
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	0.415	0.173	5.76	1.51	0.803	0.122	43.24	2.23
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.846	0.076	125.12	2.33	1.269	0.054	559.65	3.56
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.627	0.132	22.48	1.87	0.816	0.097	71.06	2.26
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	0.372	0.163	5.20	1.45	*			
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.113	0.034	11.26	1.12	0.111	0.026	18.19	1.12
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.411	0.097	17.98	1.51	0.668	0.074	80.93	1.95
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.131	0.056	5.43	1.14	0.232	0.042	30.40	1.26
ACIDOSIS (276.2)	0.997	0.052	366.38	2.71	0.749	0.047	256.60	2.11
ALKALOSIS (276.3)	*				0.236	0.099	5.65	1.27
HYPERPOTASSEMIA (276.7)	0.493	0.065	57.19	1.64	0.462	0.054	73.12	1.59
ANEMIA IN NEOPLASTIC DISEASE (285.22)	*				0.352	0.120	8.67	1.42
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.826	0.155	28.51	2.28	0.616	0.133	21.41	1.85
OTHER SECONDARY THROMBOCYTOPENIA (287.49)	0.403	0.153	6.93	1.50	0.412	0.119	12.01	1.51
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.304	0.048	40.13	1.36
ALZHEIMER'S DISEASE (331.0)	*				0.247	0.046	28.52	1.28
ANOXIC BRAIN DAMAGE (348.1)	1.609	0.118	184.33	5.00	1.457	0.113	165.79	4.29
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.560	0.078	52.15	1.75	0.430	0.067	41.64	1.54

Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
INTERMEDIATE CORONARY SYNDROME (411.1)	0.400	0.190	4.41	1.49	*			
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.299	0.136	4.81	1.35	*			
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.376	0.106	12.48	1.46	0.214	0.087	6.07	1.24
ATRIAL FIBRILLATION (427.31)	0.241	0.032	54.97	1.27	0.273	0.025	122.15	1.31
CARDIAC ARREST (427.5)	2.861	0.076	1420.82	17.47	2.583	0.074	1232.88	13.24
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.301	0.032	89.37	1.35	0.366	0.025	221.43	1.44
CEREBRAL ATHEROSCLEROSIS (437.0)	*				0.256	0.117	4.80	1.29
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	0.121	0.052	5.55	1.13	0.118	0.040	8.84	1.13
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.111	0.038	8.44	1.12	0.179	0.029	39.06	1.20
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.208	0.101	4.24	1.23	0.316	0.081	15.03	1.37
UNSPECIFIED PLEURAL EFFUSION (511.9)	*				0.117	0.044	7.00	1.13
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.674	0.068	98.36	1.96	0.692	0.052	176.14	2.00
ACUTE RESPIRATORY FAILURE (518.81)	0.864	0.035	614.29	2.37	0.666	0.029	526.77	1.95
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.701	0.141	24.81	2.02	0.530	0.115	21.36	1.70
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.508	0.073	48.13	1.66	0.509	0.057	79.63	1.66
PARALYTIC ILEUS (560.1)	0.465	0.176	6.95	1.59	0.315	0.149	4.45	1.37
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.719	0.132	29.78	2.05	0.723	0.124	34.28	2.06
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.739	0.116	40.92	2.09	0.681	0.094	52.19	1.98
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.158	0.074	4.63	1.17
END STAGE RENAL DISEASE (585.6)	0.486	0.207	5.48	1.63	0.898	0.078	131.30	2.45
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.106	0.048	4.84	1.11	0.085	0.037	5.22	1.09
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.317	0.075	17.99	1.37	0.172	0.059	8.46	1.19
PRESSURE ULCER, STAGE III (707.23)	*				0.386	0.111	12.00	1.47
SYSTEMIC LUPUS ERYTHEMATOSUS (710.0)	*				0.382	0.156	6.00	1.47
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.312	0.154	4.09	1.37	*			
OTHER CONVULSIONS (780.39)	0.563	0.155	13.19	1.76	0.364	0.131	7.74	1.44
ALTERED MENTAL STATUS (780.97)	0.361	0.139	6.79	1.44	0.519	0.104	25.05	1.68
ADULT FAILURE TO THRIVE (783.7)	0.264	0.093	8.13	1.30	0.497	0.069	51.34	1.64
SHOCK, UNSPECIFIED (785.50)	1.407	0.098	204.84	4.08	1.137	0.093	149.65	3.12
CARDIOGENIC SHOCK (785.51)	1.123	0.098	130.51	3.07	0.958	0.092	107.92	2.61
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.842	0.137	37.55	2.32	0.580	0.129	20.37	1.79
SWELLING, MASS, OR LUMP IN CHEST (786.6)	*				0.331	0.085	14.98	1.39
OTHER ASCITES (789.59)	1.007	0.123	66.88	2.74	1.311	0.095	190.73	3.71

Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
CACHEXIA (799.4)	0.895	0.104	73.39	2.45	0.716	0.088	66.90	2.05
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*				0.308	0.084	13.60	1.36
GASTROSTOMY STATUS (V44.1)	0.505	0.145	12.08	1.66	0.466	0.111	17.69	1.59
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*				0.168	0.046	13.31	1.18
DO NOT RESUSCITATE STATUS (V49.86)	0.721	0.040	325.70	2.06	0.725	0.031	541.44	2.07
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.246	0.083	8.77	1.28
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.432	0.213	4.12	1.54	*			
CARDIOMYOPATHY (Multiple)	*				0.110	0.048	5.17	1.12
CHRONIC BRONCHITIS (Multiple)	0.160	0.053	9.15	1.17	0.332	0.039	70.85	1.39
MALNUTRITION (Multiple)	*				0.324	0.040	64.57	1.38
SEPSIS (Multiple)	0.698	0.245	8.10	2.01	*			
ACUTE RENAL FAILURE (Multiple)	0.451	0.037	145.86	1.57	0.295	0.031	93.00	1.34
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*				0.280	0.116	5.82	1.32
ENCEPHALOPATHY (Multiple)	*				0.173	0.063	7.65	1.19
HYPOTENSION, UNSP OR NEC (Multiple)	0.723	0.050	205.79	2.06	0.543	0.042	163.70	1.72
DECUBITIS ULCER (Multiple)	0.351	0.067	27.72	1.42	0.522	0.054	94.88	1.69
DEHYDRATION (Multiple)	0.290	0.051	31.99	1.34	0.314	0.040	61.31	1.37
DYSPHAGIA (Multiple)	*				0.212	0.053	16.21	1.24
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	1.132	0.092	152.25	3.10	0.761	0.081	87.27	2.14
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	1.200	0.131	83.84	3.32	0.870	0.117	54.92	2.39
THORACENTESIS (34.91)	*				0.217	0.073	8.87	1.24
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	1.495	0.182	67.38	4.46	1.282	0.169	57.65	3.60
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.318	0.120	7.04	1.37	0.374	0.101	13.64	1.45
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	1.320	0.149	78.57	3.74	0.957	0.135	50.13	2.60
Palliative Care Risk Regardless of POA (Custom Logic)	3.334	0.048	4823.05	28.06	3.125	0.049	4023.29	22.75
Facility POA Percent	0.525	0.118	19.76	1.69	0.331	0.086	14.81	1.39
Intercept	-5.178	0.105	2425.19	0.01	-4.418	0.078	3180.10	0.01

Respiratory Failure

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.301	0.018	280.33	1.35	0.225	0.016	193.43	1.25
Admit Source: Transfer From Other Healthcare Facility	0.235	0.037	39.92	1.27	0.246	0.033	56.74	1.28
Admit Source: Transfer From Skilled Nursing Facility	0.096	0.020	22.64	1.10	0.306	0.017	319.69	1.36
Age 70 To 74	0.244	0.017	202.72	1.28	0.267	0.014	338.70	1.31
Age 75 To 79	0.453	0.017	707.86	1.57	0.481	0.014	1108.26	1.62
Age 80 To 84	0.648	0.017	1420.44	1.91	0.686	0.015	2171.52	1.99
Age 85 To 89	0.813	0.018	1962.32	2.25	0.885	0.016	3140.42	2.42
Age 90 And Over	0.991	0.021	2279.35	2.70	1.143	0.018	3998.72	3.14
Sex = Female	-0.164	0.010	260.89	0.85	-0.197	0.009	509.61	0.82
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	*				0.097	0.040	5.96	1.10
UNSPECIFIED SEPTICEMIA (038.9)	0.507	0.057	78.08	1.66	0.278	0.070	15.87	1.32
SARCOIDOSIS (135)	0.296	0.082	13.00	1.34	0.303	0.070	18.75	1.35
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	0.337	0.071	22.74	1.40	0.654	0.059	123.71	1.92
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	1.000	0.031	1047.11	2.72	1.155	0.028	1753.63	3.17
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.518	0.070	54.87	1.68	0.467	0.063	54.90	1.60
MULTIPLE MYELOMA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (203.00)	0.380	0.080	22.85	1.46	0.421	0.071	35.21	1.52
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	*				0.212	0.062	11.70	1.24
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.114	0.026	19.38	1.12	0.260	0.023	130.34	1.30
ACIDOSIS (276.2)	0.295	0.014	451.78	1.34	0.214	0.012	299.98	1.24
MIXED ACID-BASE BALANCE DISORDER (276.4)	0.236	0.032	55.65	1.27	0.220	0.028	62.19	1.25
HYPERPOTASSEMIA (276.7)	0.175	0.018	96.60	1.19	0.200	0.016	162.46	1.22
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.641	0.058	122.02	1.90	0.537	0.055	97.04	1.71
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.068	0.023	9.09	1.07	0.107	0.020	29.67	1.11
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.093	0.026	12.66	1.10	0.248	0.022	125.89	1.28
ALZHEIMER'S DISEASE (331.0)	*				0.148	0.024	38.53	1.16
ANOXIC BRAIN DAMAGE (348.1)	1.782	0.025	5152.79	5.94	1.633	0.025	4320.30	5.12
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.245	0.021	135.90	1.28	0.189	0.019	96.05	1.21
INTERMEDIATE CORONARY SYNDROME (411.1)	*				0.178	0.066	7.19	1.20
ACUTE COR PULMONALE (415.0)	*				0.176	0.079	4.95	1.19
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.588	0.038	245.14	1.80	0.492	0.035	197.93	1.64
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.084	0.034	5.99	1.09	0.077	0.031	6.23	1.08

Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ATRIAL FIBRILLATION (427.31)	0.167	0.011	231.26	1.18	0.214	0.009	513.52	1.24
VENTRICULAR FIBRILLATION (427.41)	0.788	0.055	206.73	2.20	0.776	0.055	200.30	2.17
CARDIAC ARREST (427.5)	1.589	0.023	4715.55	4.90	1.409	0.023	3740.36	4.09
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	1.020	0.043	550.01	2.77	0.920	0.042	482.79	2.51
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	*				0.170	0.068	6.29	1.19
OTHER EMPHYSEMA (492.8)	0.317	0.040	63.79	1.37	0.257	0.035	54.48	1.29
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.403	0.013	952.66	1.50	0.378	0.012	1076.80	1.46
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.207	0.018	139.02	1.23	0.265	0.016	283.48	1.30
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.104	0.023	20.78	1.11	0.150	0.020	56.39	1.16
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.497	0.021	585.46	1.64	0.514	0.018	853.82	1.67
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	-0.599	0.011	2761.15	0.55	-0.257	0.009	760.42	0.77
PARALYTIC ILEUS (560.1)	0.185	0.063	8.54	1.20	*			
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.653	0.048	188.39	1.92	0.593	0.047	162.72	1.81
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.664	0.037	316.33	1.94	0.557	0.035	254.01	1.75
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	0.246	0.083	8.88	1.28	0.314	0.073	18.45	1.37
END STAGE RENAL DISEASE (585.6)	0.354	0.025	206.57	1.42	0.393	0.022	332.51	1.48
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.084	0.016	27.26	1.09	0.105	0.014	55.62	1.11
COMA (780.01)	1.229	0.045	760.28	3.42	1.162	0.045	680.23	3.20
ALTERED MENTAL STATUS (780.97)	*				0.083	0.028	8.51	1.09
ADULT FAILURE TO THRIVE (783.7)	0.280	0.035	64.55	1.32	0.511	0.030	286.06	1.67
SHOCK, UNSPECIFIED (785.50)	1.083	0.037	842.36	2.95	0.900	0.036	615.49	2.46
CARDIOGENIC SHOCK (785.51)	1.025	0.033	987.97	2.79	0.889	0.032	772.90	2.43
SEPTIC SHOCK (785.52)	0.600	0.067	79.32	1.82	0.573	0.065	78.51	1.77
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.726	0.048	226.79	2.07	0.578	0.046	156.59	1.78
OTHER ASCITES (789.59)	0.779	0.053	212.03	2.18	0.771	0.049	243.78	2.16
ABNORMAL COAGULATION PROFILE (790.92)	0.122	0.033	13.40	1.13	0.088	0.029	9.16	1.09
CACHEXIA (799.4)	0.371	0.032	131.36	1.45	0.456	0.028	265.39	1.58
SEPSIS (995.91)	0.241	0.060	16.20	1.27	0.149	0.070	4.57	1.16
SEVERE SEPSIS (995.92)	0.451	0.069	42.58	1.57	0.262	0.076	11.82	1.30
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*				0.092	0.031	8.89	1.10
GASTROSTOMY STATUS (V44.1)	*				0.073	0.029	6.27	1.08
DEPENDENCE ON RESPIRATOR, STATUS (V46.11)	0.327	0.033	99.81	1.39	0.158	0.030	28.20	1.17
DO NOT RESUSCITATE STATUS (V49.86)	0.831	0.014	3702.74	2.30	0.875	0.012	5180.91	2.40

Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
MALNUTRITION (Multiple)	0.073	0.017	18.17	1.08	0.218	0.015	224.29	1.24
SEPSIS (Multiple)	*				0.204	0.088	5.42	1.23
ANTERIOR/LATERAL WALL AMI (Multiple)	1.348	0.048	792.43	3.85	1.249	0.047	693.97	3.49
ACUTE RENAL FAILURE (Multiple)	0.299	0.012	583.41	1.35	0.228	0.011	428.58	1.26
HYPOTENSION, UNSP OR NEC (Multiple)	0.556	0.019	864.94	1.74	0.439	0.017	640.04	1.55
DECUBITIS ULCER (Multiple)	0.061	0.022	7.30	1.06	0.298	0.019	244.06	1.35
DEHYDRATION (Multiple)	*				0.054	0.018	8.79	1.06
BACTERIAL PNEUMONIA (Multiple)	0.236	0.011	461.16	1.27	0.207	0.009	472.93	1.23
TEMPORARY TRACHEOSTOMY (31.1)	-0.932	0.035	704.55	0.39	-0.822	0.030	744.13	0.44
OTHER PERMANENT TRACHEOSTOMY (31.29)	-0.811	0.090	81.61	0.44	-0.740	0.077	92.98	0.48
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	0.511	0.022	552.92	1.67	0.328	0.020	274.30	1.39
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	0.907	0.035	666.00	2.48	0.696	0.033	438.35	2.01
THORACENTESIS (34.91)	-0.191	0.031	37.12	0.83	-0.116	0.027	18.10	0.89
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	0.298	0.039	58.13	1.35	0.205	0.036	32.07	1.23
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.151	0.024	41.23	1.16	*			
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	0.797	0.044	327.82	2.22	0.679	0.041	272.69	1.97
Palliative Care Risk Regardless of POA (Custom Logic)	3.107	0.016	37728.94	22.35	3.032	0.018	29408.22	20.73
Facility POA Percent	0.462	0.045	104.08	1.59	0.325	0.038	73.45	1.38
Intercept	-3.532	0.041	7462.82	0.03	-2.969	0.034	7509.20	0.05

Sepsis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.153	0.011	178.42	1.17	0.144	0.011	183.53	1.16
Admit Source: Transfer From Other Healthcare Facility	0.117	0.019	36.95	1.12	0.172	0.017	100.59	1.19
Admit Source: Transfer From Skilled Nursing Facility	0.083	0.008	94.89	1.09	0.241	0.007	1047.50	1.27
Age 70 To 74	0.254	0.010	586.49	1.29	0.277	0.009	855.99	1.32
Age 75 To 79	0.414	0.010	1656.49	1.51	0.459	0.009	2511.95	1.58
Age 80 To 84	0.567	0.010	3261.15	1.76	0.654	0.009	5357.67	1.92
Age 85 To 89	0.722	0.010	5165.32	2.06	0.857	0.009	9003.93	2.36
Age 90 And Over	0.930	0.011	7797.17	2.54	1.151	0.009	14844.29	3.16
Sex = Female	0.041	0.005	56.86	1.04	-0.023	0.005	21.83	0.98
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.229	0.011	458.78	1.26	0.226	0.010	544.04	1.25
STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED (038.10)	0.801	0.040	396.58	2.23	0.745	0.035	458.99	2.11
METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA (038.11)	0.883	0.020	1857.07	2.42	0.788	0.018	1923.77	2.20
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA (038.12)	0.952	0.018	2941.77	2.59	0.916	0.015	3610.00	2.50
OTHER STAPHYLOCOCCAL SEPTICEMIA (038.19)	0.458	0.028	266.60	1.58	0.503	0.023	468.32	1.65
SEPTICEMIA DUE TO ANAEROBES (038.3)	0.751	0.028	717.14	2.12	0.600	0.025	560.48	1.82
SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED (038.40)	0.957	0.024	1554.68	2.60	0.749	0.022	1156.20	2.12
OTHER SPECIFIED SEPTICEMIAS (038.8)	0.825	0.021	1480.03	2.28	0.691	0.019	1325.66	2.00
UNSPECIFIED SEPTICEMIA (038.9)	0.828	0.008	9755.01	2.29	0.682	0.007	9399.70	1.98
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.950	0.023	1686.99	2.59	1.035	0.021	2323.61	2.82
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.602	0.028	476.13	1.83	0.558	0.025	484.32	1.75
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*				0.289	0.009	1114.43	1.34
ACIDOSIS (276.2)	0.556	0.007	6524.11	1.74	0.446	0.006	4768.90	1.56
MIXED ACID-BASE BALANCE DISORDER (276.4)	0.630	0.021	879.95	1.88	0.513	0.021	612.62	1.67
HYPERPOTASSEMIA (276.7)	0.300	0.009	1017.92	1.35	0.305	0.009	1229.20	1.36
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.650	0.022	911.54	1.92	0.561	0.021	733.21	1.75
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.035	0.010	11.88	1.04	0.029	0.009	10.37	1.03
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.059	0.023	6.42	1.06
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.107	0.011	89.71	1.11	0.214	0.010	484.98	1.24
ALZHEIMER'S DISEASE (331.0)	*				0.075	0.009	67.90	1.08
ANOXIC BRAIN DAMAGE (348.1)	0.714	0.025	838.05	2.04	0.676	0.024	785.17	1.97
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.210	0.011	352.14	1.23	0.225	0.010	468.69	1.25

Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.467	0.027	305.09	1.60	0.396	0.025	246.49	1.49
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.174	0.039	20.33	1.19	0.115	0.036	10.28	1.12
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.086	0.022	15.17	1.09	0.077	0.020	14.50	1.08
ATRIAL FIBRILLATION (427.31)	0.126	0.006	442.32	1.13	0.144	0.005	723.26	1.16
CARDIAC ARREST (427.5)	2.039	0.025	6769.26	7.68	1.919	0.026	5627.88	6.81
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.059	0.006	92.41	1.06	0.114	0.005	434.17	1.12
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.639	0.027	562.42	1.90	0.748	0.025	890.05	2.11
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.144	0.036	16.13	1.16	0.105	0.032	10.53	1.11
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	*				0.169	0.033	25.82	1.18
OTHER EMPHYSEMA (492.8)	0.091	0.027	11.38	1.10	*			
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.137	0.007	359.91	1.15	0.143	0.006	494.97	1.15
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.071	0.008	71.57	1.07	0.257	0.008	1164.67	1.29
UNSPECIFIED PLEURAL EFFUSION (511.9)	*				0.071	0.011	42.62	1.07
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.268	0.018	216.69	1.31	0.269	0.016	267.23	1.31
ACUTE RESPIRATORY FAILURE (518.81)	0.907	0.007	19134.81	2.48	0.768	0.006	15753.07	2.16
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.348	0.012	821.41	1.42	0.362	0.011	1086.75	1.44
PARALYTIC ILEUS (560.1)	0.320	0.020	249.76	1.38	0.223	0.019	138.69	1.25
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.782	0.017	2190.72	2.19	0.742	0.016	2038.25	2.10
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.521	0.017	957.15	1.68	0.488	0.016	952.43	1.63
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.034	0.015	5.37	1.04	0.114	0.013	76.08	1.12
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	0.399	0.042	92.05	1.49	0.505	0.038	179.60	1.66
END STAGE RENAL DISEASE (585.6)	0.921	0.012	6063.18	2.51	0.963	0.011	7897.02	2.62
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.075	0.008	79.56	1.08	0.095	0.007	163.31	1.10
PRESSURE ULCER, STAGE III (707.23)	*				0.106	0.014	54.53	1.11
PRESSURE ULCER, STAGE IV (707.24)	0.137	0.016	72.44	1.15	0.147	0.014	110.16	1.16
COMA (780.01)	1.170	0.036	1029.62	3.22	1.155	0.037	958.68	3.18
OTHER CONVULSIONS (780.39)	0.063	0.030	4.58	1.07	0.072	0.027	7.27	1.07
ALTERED MENTAL STATUS (780.97)	0.073	0.019	14.68	1.08	0.146	0.017	76.21	1.16
ADULT FAILURE TO THRIVE (783.7)	0.139	0.015	90.52	1.15	0.409	0.013	1024.36	1.51
SHOCK, UNSPECIFIED (785.50)	0.898	0.034	685.35	2.46	0.724	0.033	472.75	2.06
CARDIOGENIC SHOCK (785.51)	0.619	0.023	747.12	1.86	0.585	0.023	668.51	1.80
SEPTIC SHOCK (785.52)	1.045	0.006	30696.57	2.84	0.832	0.006	22636.90	2.30
OTHER ASCITES (789.59)	0.886	0.018	2396.29	2.43	0.963	0.017	3123.85	2.62

Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ABNORMAL COAGULATION PROFILE (790.92)	0.114	0.017	46.54	1.12	0.120	0.015	64.36	1.13
CACHEXIA (799.4)	0.498	0.017	867.04	1.65	0.519	0.016	1042.77	1.68
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*				0.068	0.026	6.94	1.07
DEPENDENCE ON RESPIRATOR, STATUS (V46.11)	0.134	0.019	49.78	1.14	0.047	0.018	7.12	1.05
DO NOT RESUSCITATE STATUS (V49.86)	0.714	0.007	10578.23	2.04	0.742	0.006	13813.95	2.10
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.172	0.015	131.76	1.19
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	*				0.033	0.013	6.30	1.03
CARDIOMYOPATHY (Multiple)	0.103	0.012	77.20	1.11	0.110	0.011	106.78	1.12
MALNUTRITION (Multiple)	*				0.122	0.006	352.46	1.13
ANTERIOR/LATERAL WALL AMI (Multiple)	1.273	0.029	1946.11	3.57	1.182	0.029	1704.73	3.26
ACUTE RENAL FAILURE (Multiple)	0.280	0.006	2323.05	1.32	0.243	0.005	2184.24	1.28
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.029	0.011	7.63	1.03	0.045	0.009	23.63	1.05
HYPOTENSION, UNSP OR NEC (Multiple)	0.208	0.012	311.76	1.23	0.164	0.010	247.12	1.18
DECUBITIS ULCER (Multiple)	0.077	0.009	78.88	1.08	0.273	0.008	1131.70	1.31
BACTERIAL PNEUMONIA (Multiple)	0.062	0.006	108.57	1.06	0.092	0.005	302.47	1.10
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	0.231	0.015	223.31	1.26	0.138	0.015	88.44	1.15
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	0.571	0.023	625.15	1.77	0.411	0.022	340.70	1.51
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	0.602	0.023	685.68	1.83	0.523	0.022	553.12	1.69
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	0.515	0.016	1007.93	1.67	0.421	0.015	744.16	1.52
Palliative Care Risk Regardless of POA (Custom Logic)	2.650	0.009	91862.08	14.15	2.813	0.010	79645.61	16.66
Facility POA Percent	0.085	0.024	12.53	1.09	0.009	0.021	0.18	1.01
Intercept	-4.564	0.024	36074.98	0.01	-3.959	0.021	36076.38	0.02

Small Intestine Surgeries

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.171	0.049	12.12	1.19	0.179	0.044	16.40	1.20
Admit Source: Transfer From Other Healthcare Facility	*				0.242	0.095	6.56	1.27
Admit Source: Transfer From Skilled Nursing Facility	0.317	0.070	20.45	1.37	0.438	0.059	54.34	1.55
Age 70 To 74	0.259	0.049	28.22	1.30	0.301	0.044	46.98	1.35
Age 75 To 79	0.486	0.047	106.12	1.63	0.613	0.042	212.04	1.85
Age 80 To 84	0.685	0.047	216.79	1.98	0.834	0.042	401.10	2.30
Age 85 To 89	0.888	0.048	338.01	2.43	1.145	0.043	711.81	3.14
Age 90 And Over	1.211	0.053	519.79	3.36	1.576	0.047	1132.45	4.84
Sex = Female	-0.076	0.027	7.83	0.93	-0.110	0.024	21.52	0.90
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.233	0.102	5.18	1.26	0.264	0.091	8.42	1.30
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.774	0.161	23.24	2.17	0.797	0.144	30.77	2.22
GLUCOCORTICOID DEFICIENCY (255.41)	0.397	0.145	7.54	1.49	*			
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM (273.8)	*				0.181	0.087	4.30	1.20
ACIDOSIS (276.2)	0.516	0.044	140.08	1.68	0.458	0.041	125.78	1.58
HYPERPOTASSEMIA (276.7)	0.264	0.069	14.63	1.30	0.208	0.063	11.03	1.23
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.656	0.123	28.57	1.93	0.523	0.118	19.72	1.69
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.261	0.066	15.84	1.30	0.289	0.059	23.81	1.34
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*				0.188	0.068	7.59	1.21
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.261	0.068	14.78	1.30
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	*				0.362	0.115	9.86	1.44
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.095	0.047	4.10	1.10	0.108	0.041	7.01	1.11
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.371	0.126	8.70	1.45	0.356	0.115	9.65	1.43
ATRIAL FIBRILLATION (427.31)	0.268	0.031	76.11	1.31	0.304	0.027	127.31	1.36
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.290	0.036	64.15	1.34	0.300	0.032	87.78	1.35
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.529	0.155	11.69	1.70	0.503	0.142	12.60	1.65
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.178	0.087	4.17	1.20	*			
OTHER EMPHYSEMA (492.8)	0.260	0.111	5.46	1.30	0.370	0.094	15.29	1.45
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.264	0.036	54.39	1.30	0.281	0.032	79.61	1.33
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.491	0.114	18.65	1.63	0.423	0.103	17.01	1.53
ACUTE RESPIRATORY FAILURE (518.81)	0.606	0.063	93.69	1.83	0.643	0.059	120.14	1.90
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.489	0.127	14.92	1.63	0.556	0.113	24.13	1.74

Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ACQUIRED HYPERTROPHIC PYLORIC STENOSIS (537.0)	*				0.374	0.157	5.64	1.45
UNILATERAL OR UNSPECIFIED INGUINAL HERNIA, WITH GANGRENE (NOT SPECIFIED AS RECURRENT) (550.00)	0.471	0.173	7.41	1.60	0.374	0.159	5.55	1.45
HERNIA OF OTHER SPECIFIED SITES, WITH GANGRENE (551.8)	0.339	0.132	6.56	1.40	*			
INCISIONAL HERNIA WITH OBSTRUCTION (552.21)	0.214	0.068	9.92	1.24	0.147	0.062	5.66	1.16
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.527	0.034	238.69	1.69	0.508	0.031	264.63	1.66
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE (557.1)	0.625	0.096	42.62	1.87	0.492	0.091	29.34	1.64
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.357	0.044	66.90	1.43	0.366	0.039	85.81	1.44
FECAL IMPACTION (560.32)	0.355	0.162	4.78	1.43	0.366	0.140	6.90	1.44
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION) (560.81)	0.094	0.032	8.76	1.10	*			
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.138	0.044	9.79	1.15	*			
OTHER SPECIFIED PERITONITIS (567.89)	0.230	0.099	5.35	1.26	0.213	0.094	5.12	1.24
UNSPECIFIED PERITONITIS (567.9)	*				0.160	0.057	7.95	1.17
PERFORATION OF INTESTINE (569.83)	0.509	0.041	151.23	1.66	0.507	0.039	172.55	1.66
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.125	0.140	64.74	3.08	1.172	0.143	67.27	3.23
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.798	0.172	21.56	2.22	1.048	0.154	46.65	2.85
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.569	0.117	23.72	1.77	0.712	0.103	48.09	2.04
ACUTE PANCREATITIS (577.0)	0.521	0.129	16.37	1.68	0.349	0.120	8.55	1.42
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.263	0.103	6.49	1.30	0.224	0.093	5.84	1.25
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*				0.130	0.047	7.57	1.14
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.461	0.083	30.98	1.59	0.555	0.074	56.28	1.74
END STAGE RENAL DISEASE (585.6)	0.825	0.140	34.61	2.28	0.878	0.130	45.50	2.41
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.209	0.048	19.03	1.23	0.246	0.042	33.64	1.28
PRESSURE ULCER, STAGE III (707.23)	*				0.281	0.131	4.58	1.33
ADULT FAILURE TO THRIVE (783.7)	*				0.352	0.073	23.42	1.42
SEPTIC SHOCK (785.52)	0.491	0.061	65.28	1.63	0.449	0.058	59.88	1.57
CACHEXIA (799.4)	0.508	0.090	31.51	1.66	0.502	0.080	39.23	1.65
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*				0.244	0.060	16.78	1.28
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.485	0.144	11.28	1.63	0.539	0.134	16.17	1.71
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.220	0.078	7.89	1.25	0.200	0.070	8.17	1.22
PULMONARY HYPERTENSION (Multiple)	0.227	0.064	12.78	1.26	0.188	0.057	10.93	1.21
CARDIOMYOPATHY (Multiple)	0.237	0.063	14.26	1.27	0.304	0.055	30.23	1.36
CHRONIC BRONCHITIS (Multiple)	0.565	0.082	47.54	1.76	0.554	0.074	56.64	1.74

Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
MALNUTRITION (Multiple)	*				0.170	0.030	33.27	1.19
SEPSIS (Multiple)	0.653	0.046	199.83	1.92	0.603	0.042	205.04	1.83
ACUTE RENAL FAILURE (Multiple)	0.258	0.035	55.70	1.29	0.234	0.031	56.09	1.26
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.304	0.053	32.41	1.36	0.327	0.047	48.18	1.39
HYPOTENSION, UNSP OR NEC (Multiple)	*				0.158	0.069	5.28	1.17
BACTERIAL PNEUMONIA (Multiple)	0.355	0.061	34.28	1.43	0.339	0.054	39.17	1.40
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*				0.329	0.122	7.24	1.39
Gastrostomy (Multiple)	*				0.168	0.054	9.76	1.18
Other Repair of the Stomach - Group 1 (Multiple)	0.762	0.290	6.91	2.14	*			
Incisions of Small Intestine (Multiple)	0.465	0.085	29.71	1.59	0.365	0.075	23.57	1.44
Resection or Removal of Small Intestine (Multiple)	0.754	0.043	302.48	2.13	0.514	0.036	207.98	1.67
Small Intestine Anastomosis Procedures (Multiple)	-0.082	0.036	5.20	0.92	-0.065	0.032	4.08	0.94
Exteriorization of Small Intestine (Multiple)	0.522	0.075	48.53	1.69	0.477	0.065	53.96	1.61
Ileostomies (Multiple)	0.405	0.095	18.09	1.50	0.391	0.088	19.71	1.48
Other Enterostomies (Multiple)	0.400	0.058	47.61	1.49	0.885	0.046	364.14	2.42
Other Repair of Small Intestine (Multiple)	1.129	0.141	64.03	3.09	0.657	0.135	23.81	1.93
Colorectal Group 3 (Multiple)	*				0.149	0.073	4.17	1.16
Open and Other Partial Excision of Large Intestine - Group 1 (Multiple)	0.599	0.099	36.49	1.82	0.483	0.094	26.37	1.62
Colostomies (Multiple)	0.291	0.083	12.37	1.34	0.336	0.077	19.26	1.40
Colorectal Group 10 (Multiple)	0.489	0.126	15.07	1.63	0.305	0.121	6.33	1.36
Colorectal Group 14 (Multiple)	0.545	0.066	68.98	1.73	0.503	0.061	67.98	1.65
Colorectal Group 19 (Multiple)	0.479	0.212	5.08	1.61	*			
ISOLATION OF SEGMENT OF SMALL INTESTINE (45.51)	0.805	0.271	8.85	2.24	0.735	0.235	9.76	2.09
OPEN AND OTHER CECECTOMY (45.72)	0.677	0.129	27.34	1.97	0.565	0.123	20.93	1.76
OPEN AND OTHER RESECTION OF TRANSVERSE COLON (45.74)	0.754	0.132	32.83	2.13	0.718	0.125	33.17	2.05
OPEN AND OTHER LEFT HEMICOLECTOMY (45.75)	0.534	0.152	12.35	1.71	0.557	0.141	15.57	1.75
OPEN TOTAL INTRA-ABDOMINAL COLECTOMY (45.82)	1.266	0.177	51.35	3.55	1.041	0.172	36.47	2.83
ILEOSTOMY, NOT OTHERWISE SPECIFIED (46.20)	0.524	0.075	49.29	1.69	0.657	0.069	90.55	1.93
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM (46.73)	0.662	0.052	162.48	1.94	0.499	0.047	112.51	1.65
INTRA-ABDOMINAL MANIPULATION OF SMALL INTESTINE (46.81)	0.253	0.098	6.63	1.29	*			
OTHER LAPAROTOMY (54.19)	0.389	0.099	15.39	1.48	0.230	0.094	5.95	1.26
Palliative Care Risk Regardless of POA (Custom Logic)	2.956	0.043	4677.82	19.21	3.478	0.050	4798.29	32.38
Facility POA Percent	0.883	0.126	48.84	2.42	0.894	0.110	66.46	2.44
Intercept	-5.533	0.117	2227.78	0.00	-5.115	0.101	2550.89	0.01

Stroke

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	-0.114	0.019	34.55	0.89	-0.064	0.016	16.25	0.94
Admit Source: Transfer From Other Healthcare Facility	*				0.098	0.034	8.36	1.10
Admit Source: Transfer From Skilled Nursing Facility	-0.176	0.033	28.54	0.84	0.452	0.022	434.83	1.57
Age 70 To 74	0.223	0.025	78.42	1.25	0.282	0.021	185.28	1.33
Age 75 To 79	0.338	0.024	192.74	1.40	0.483	0.020	594.82	1.62
Age 80 To 84	0.491	0.024	432.42	1.63	0.740	0.019	1507.81	2.10
Age 85 To 89	0.541	0.024	504.85	1.72	0.971	0.019	2562.73	2.64
Age 90 And Over	0.659	0.025	668.82	1.93	1.376	0.020	4833.04	3.96
Sex = Female	-0.110	0.013	74.52	0.90	-0.126	0.010	168.66	0.88
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.731	0.079	84.91	2.08	1.129	0.058	375.15	3.09
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	*				0.196	0.082	5.74	1.22
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	*				0.063	0.011	34.98	1.07
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.368	0.036	104.26	1.45	0.560	0.029	385.61	1.75
ACIDOSIS (276.2)	0.510	0.038	178.65	1.67	0.379	0.033	135.61	1.46
HYPERPOTASSEMIA (276.7)	0.232	0.043	29.83	1.26	0.198	0.033	37.11	1.22
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	*				0.070	0.025	7.45	1.07
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*				0.193	0.051	14.31	1.21
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*				0.286	0.020	207.46	1.33
ALZHEIMER'S DISEASE (331.0)	*				0.241	0.019	156.44	1.27
OBSTRUCTIVE HYDROCEPHALUS (331.4)	0.717	0.033	480.22	2.05	0.584	0.031	362.97	1.79
FLACCID HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.00)	0.909	0.041	481.14	2.48	1.138	0.033	1182.75	3.12
OTHER SPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.80)	0.242	0.061	15.89	1.27	0.466	0.046	102.35	1.59
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.90)	0.330	0.013	601.58	1.39	0.476	0.010	2137.19	1.61
UNSPECIFIED HEMIPLEGIA AFFECTING DOMINANT SIDE (342.91)	0.176	0.043	16.79	1.19	0.320	0.032	97.61	1.38
UNSPECIFIED HEMIPLEGIA AFFECTING NONDOMINANT SIDE (342.92)	*				0.219	0.034	40.44	1.25
COMPRESSION OF BRAIN (348.4)	1.397	0.036	1480.61	4.04	1.168	0.035	1106.74	3.21
CEREBRAL EDEMA (348.5)	0.449	0.022	405.16	1.57	0.309	0.020	243.73	1.36
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.646	0.034	367.22	1.91	0.626	0.027	541.53	1.87
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.194	0.030	41.75	1.22	0.144	0.023	40.70	1.16
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.082	0.017	23.52	1.09	0.047	0.013	14.05	1.05

Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.150	0.058	6.61	1.16	0.102	0.045	5.17	1.11
ATRIAL FIBRILLATION (427.31)	0.415	0.014	895.50	1.52	0.404	0.010	1525.20	1.50
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.286	0.016	330.82	1.33	0.327	0.012	767.85	1.39
SUBARACHNOID HEMORRHAGE (430)	0.703	0.041	298.81	2.02	0.541	0.035	235.62	1.72
INTRACEREBRAL HEMORRHAGE (431)	0.545	0.029	358.80	1.73	0.426	0.023	331.41	1.53
UNSPECIFIED INTRACRANIAL HEMORRHAGE (432.9)	0.688	0.046	220.31	1.99	0.584	0.039	226.03	1.79
OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION (433.01)	0.784	0.074	111.71	2.19	0.617	0.064	91.94	1.85
OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION (433.11)	-0.137	0.035	15.10	0.87	-0.128	0.028	21.72	0.88
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION (434.01)	0.140	0.044	10.04	1.15	0.137	0.035	15.18	1.15
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	-0.262	0.031	70.31	0.77	-0.185	0.025	55.54	0.83
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	-0.315	0.029	118.10	0.73	-0.172	0.023	54.70	0.84
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*				0.322	0.025	167.18	1.38
OTHER EMPHYSEMA (492.8)	0.160	0.069	5.47	1.17	0.148	0.053	7.84	1.16
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.156	0.019	67.96	1.17	0.201	0.014	202.31	1.22
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.715	0.027	704.42	2.04	0.786	0.023	1204.20	2.20
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.207	0.048	18.92	1.23	0.179	0.038	22.46	1.20
ACUTE RESPIRATORY FAILURE (518.81)	1.988	0.019	10756.73	7.30	1.536	0.018	7180.12	4.65
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.660	0.068	93.20	1.94	0.594	0.055	116.25	1.81
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*				0.176	0.032	29.69	1.19
END STAGE RENAL DISEASE (585.6)	0.974	0.040	585.53	2.65	1.139	0.031	1313.70	3.13
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.112	0.023	24.21	1.12	0.116	0.017	47.07	1.12
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*				0.044	0.013	11.74	1.05
COMA (780.01)	2.026	0.036	3111.28	7.58	2.166	0.038	3266.58	8.72
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.329	0.048	47.44	1.39	0.457	0.038	148.53	1.58
OTHER CONVULSIONS (780.39)	*				0.083	0.029	7.96	1.09
ALTERED MENTAL STATUS (780.97)	0.126	0.043	8.66	1.13	0.240	0.031	59.04	1.27
HYPOXEMIA (799.02)	0.344	0.051	45.04	1.41	0.250	0.041	37.29	1.28
CARDIAC PACEMAKER IN SITU (V45.01)	0.087	0.024	13.43	1.09	0.058	0.018	10.99	1.06
AORTOCORONARY BYPASS STATUS (V45.81)	-0.071	0.032	5.08	0.93	-0.096	0.024	16.36	0.91
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.136	0.028	24.16	0.87	-0.201	0.021	91.12	0.82

Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
STATUS POST ADMINISTRATION OF TPA (RTPA) IN A DIFFERENT FACILITY WITHIN THE LAST 24 HOURS PRIOR TO ADMISSION TO CURRENT FACILITY (V45.88)	0.318	0.043	53.40	1.37	0.141	0.036	15.25	1.15
DO NOT RESUSCITATE STATUS (V49.86)	0.619	0.016	1418.39	1.86	0.796	0.013	4026.77	2.22
LONG-TERM (CURRENT) USE OF ANTICOAGULANTS (V58.61)	-0.109	0.021	26.54	0.90	-0.151	0.016	86.65	0.86
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.166	0.054	9.39	1.18	0.284	0.040	51.19	1.33
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	*				0.093	0.027	12.37	1.10
CARDIOMYOPATHY (Multiple)	0.149	0.029	25.94	1.16	0.100	0.022	20.12	1.11
CHRONIC BRONCHITIS (Multiple)	*				0.134	0.041	10.54	1.14
MALNUTRITION (Multiple)	*				0.290	0.021	193.15	1.34
SEPSIS (Multiple)	0.729	0.054	180.43	2.07	0.607	0.047	165.18	1.83
ACUTE RENAL FAILURE (Multiple)	0.201	0.021	94.19	1.22	0.154	0.016	90.84	1.17
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*				0.096	0.019	26.74	1.10
ENCEPHALOPATHY (Multiple)	0.073	0.021	12.65	1.08	0.200	0.016	154.81	1.22
HYPOTENSION, UNSP OR NEC (Multiple)	0.438	0.041	116.35	1.55	0.270	0.034	64.69	1.31
DECUBITIS ULCER (Multiple)	0.204	0.037	29.58	1.23	0.443	0.027	267.47	1.56
DEHYDRATION (Multiple)	*				0.109	0.019	32.47	1.12
DYSPHAGIA (Multiple)	*				0.083	0.012	50.97	1.09
BACTERIAL PNEUMONIA (Multiple)	0.410	0.029	204.57	1.51	0.504	0.022	516.70	1.66
INSERTION OF ONE VASCULAR STENT (00.45)	0.234	0.082	8.12	1.26	*			
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S) (39.74)	0.682	0.047	208.64	1.98	0.426	0.042	101.87	1.53
Palliative Care Risk Regardless of POA (Custom Logic)	3.459	0.016	49546.70	31.78	3.555	0.017	41712.67	34.98
Facility POA Percent	0.295	0.053	31.07	1.34	-0.236	0.035	45.79	0.79
Intercept	-4.631	0.056	6724.40	0.01	-3.793	0.041	8608.66	0.02

Valve Surgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer from Hospital	0.210	0.037	32.65	1.23				
Admit Source: Transfer from Other Healthcare Facility	0.339	0.103	10.83	1.40				
Age 70 To74	0.202	0.042	22.62	1.22	0.178	0.039	21.01	1.19
Age 75 To79	0.416	0.041	105.31	1.52	0.401	0.037	118.08	1.49
Age 80 To84	0.607	0.041	217.09	1.84	0.612	0.037	268.25	1.84
Age 85 To89	0.849	0.047	325.52	2.34	0.895	0.042	448.22	2.45
Age 90 And Over	1.040	0.072	211.01	2.83	1.115	0.063	317.17	3.05
Sex is Female	0.330	0.025	176.85	1.39	*			
MITRAL VALVE STENOSIS AND AORTIC VALVE STENOSIS (396.0)	0.322	0.082	15.47	1.38	0.314	0.076	16.91	1.37
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.125	0.048	6.77	1.13	0.171	0.044	15.18	1.19
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.305	0.065	21.95	1.36	0.219	0.060	13.08	1.25
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS (421.0)	0.516	0.070	54.69	1.68	0.483	0.065	54.59	1.62
ADHESIVE PERICARDITIS (423.1)	0.542	0.087	38.91	1.72	0.434	0.082	28.02	1.54
CARDIAC ARREST (427.5)	1.326	0.145	83.81	3.77	1.229	0.140	77.59	3.42
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.283	0.101	7.80	1.33	0.185	0.093	3.94	1.20
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.085	0.034	6.03	1.09	0.122	0.031	15.77	1.13
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.774	0.147	27.88	2.17	0.700	0.138	25.62	2.01
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.131	0.040	10.66	1.14	0.140	0.036	15.17	1.15
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.544	0.066	68.56	1.72	0.478	0.061	61.25	1.61
END STAGE RENAL DISEASE (585.6)	1.081	0.122	78.30	2.95	1.178	0.113	108.41	3.25
MECHANICAL COMPLICATION DUE TO HEART VALVE PROSTHESIS (996.02)	0.296	0.093	10.03	1.34	0.267	0.086	9.55	1.31
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	0.895	0.099	81.37	2.45	0.823	0.094	75.85	2.28
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY STATUS (V45.82)	-0.307	0.045	46.64	0.74	-0.322	0.040	65.23	0.72
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.394	0.125	9.89	1.48	0.245	0.116	4.41	1.28
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.434	0.094	21.31	1.54	0.354	0.089	15.96	1.42
PULMONARY HYPERTENSION (Multiple)	*				0.052	0.026	3.87	1.05
CHRONIC BRONCHITIS (Multiple)	0.215	0.087	6.09	1.24	0.278	0.078	12.53	1.32
MALNUTRITION (Multiple)	0.430	0.056	59.52	1.54	0.484	0.051	90.00	1.62
INFERIOR WALL AMI (Multiple)	0.375	0.140	7.21	1.46	0.406	0.135	9.02	1.50
ANTERIOR/LATERAL WALL AMI (Multiple)	0.315	0.106	8.84	1.37	0.368	0.101	13.28	1.45
ACUTE RENAL FAILURE (Multiple)	0.400	0.048	70.55	1.49	0.382	0.044	74.46	1.47
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.188	0.051	13.62	1.21	0.221	0.046	22.77	1.25

Valve Surgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Wald	Odds Ratio	Coefficient	Standard Error	Wald	Odds Ratio
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.231	0.058	16.07	1.26	0.226	0.053	18.00	1.25
BODY MASS INDEX 40 AND OVER (Multiple)	0.403	0.049	68.54	1.50	0.467	0.044	113.92	1.60
NON-MITRAL VALVE REPAIR (Multiple)	0.434	0.055	61.90	1.54	0.419	0.052	66.27	1.52
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	0.280	0.093	9.10	1.32	0.227	0.088	6.68	1.26
ENDOVASCULAR REPLACEMENT OF AORTIC VALVE (35.05)	0.171	0.056	9.37	1.19	0.251	0.048	27.41	1.29
TRANSAPICAL REPLACEMENT OF AORTIC VALVE (35.06)	0.459	0.079	33.81	1.58	0.514	0.069	54.88	1.67
OPEN HEART VALVULOPLASTY OF AORTIC VALVE WITHOUT REPLACEMENT (35.11)	0.455	0.118	14.93	1.58	0.402	0.111	13.11	1.50
OPEN AND OTHER REPLACEMENT OF AORTIC VALVE (35.22)	0.189	0.032	34.22	1.21	0.164	0.029	31.26	1.18
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT (35.23)	0.483	0.039	155.71	1.62	0.481	0.036	180.60	1.62
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE (35.24)	0.595	0.045	178.81	1.81	0.595	0.041	207.23	1.81
OPEN AND OTHER REPLACEMENT OF PULMONARY VALVE WITH TISSUE GRAFT (35.25)	1.241	0.252	24.28	3.46	1.158	0.240	23.32	3.19
OPEN AND OTHER REPLACEMENT OF PULMONARY VALVE (35.26)	1.430	0.523	7.48	4.18	1.228	0.513	5.73	3.42
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT (35.27)	1.165	0.122	91.67	3.21	1.065	0.117	82.84	2.90
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE (35.28)	0.902	0.151	35.62	2.47	0.906	0.141	41.27	2.47
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY (36.11)	0.275	0.033	68.91	1.32	0.237	0.030	61.90	1.27
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES (36.12)	0.337	0.038	80.40	1.40	0.286	0.034	70.07	1.33
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES (36.13)	0.327	0.053	38.38	1.39	0.283	0.048	34.54	1.33
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES (36.14)	0.270	0.091	8.76	1.31	0.196	0.084	5.38	1.22
IMPLANT OF PULSATION BALLOON (37.61)	2.207	0.030	5503.05	9.09	2.016	0.028	5051.52	7.51
AORTIC AND MITRAL VALVE REPLACEMENT (Custom Logic)	0.398	0.054	54.54	1.49	0.364	0.050	52.11	1.44
Facility POA Percent	0.399	0.143	7.78	1.49	0.379	0.130	8.57	1.46
Intercept	-4.899	0.126	1514.78	0.01	-4.420	0.114	1515.77	0.01

Appendix E. Coefficient Summary Table – Complication Cohorts

Abdominal Aortic Aneurysm Repair

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.747	0.059	162.21	2.11
Admit Source: Transfer From Other Healthcare Facility	0.349	0.164	4.55	1.42
Age 70 To 74	0.123	0.035	12.39	1.13
Age 75 To 79	0.303	0.035	76.85	1.35
Age 80 To 84	0.439	0.036	149.78	1.55
Age 85 To 89	0.679	0.041	275.05	1.97
Age 90 And Over	0.757	0.064	140.62	2.13
Sex = Female	0.153	0.025	36.67	1.17
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.219	0.047	21.52	1.25
ALZHEIMER'S DISEASE (331.0)	0.279	0.106	6.91	1.32
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.064	0.024	7.32	1.07
SINOATRIAL NODE DYSFUNCTION (427.81)	0.296	0.135	4.81	1.34
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.327	0.039	71.33	1.39
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.508	0.126	16.38	1.66
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.204	0.052	15.39	1.23
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.181	0.051	12.50	1.20
ANEURYSM OF RENAL ARTERY (442.1)	0.403	0.118	11.60	1.50
OTHER EMPHYSEMA (492.8)	0.239	0.059	16.48	1.27
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.202	0.025	67.40	1.22
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.872	0.210	17.29	2.39
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	1.448	0.208	48.44	4.26
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.658	0.064	106.30	1.93
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	1.046	0.087	143.99	2.85
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.227	0.063	12.84	1.26
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.263	0.124	4.53	1.30
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.417	0.059	50.02	1.52
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	1.060	0.085	154.76	2.89
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.424	0.054	61.67	1.53
PULMONARY HYPERTENSION (Multiple)	0.507	0.068	55.40	1.66
CARDIOMYOPATHY (Multiple)	0.251	0.061	16.98	1.29
CHRONIC BRONCHITIS (Multiple)	0.817	0.079	107.26	2.26
MALNUTRITION (Multiple)	1.286	0.081	250.04	3.62
INFRA-RENAL ANEURYSM (Multiple)	0.073	0.033	5.10	1.08
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.125	0.030	16.86	1.13
HYPOTENSION, UNSP OR NEC (Multiple)	0.599	0.117	26.30	1.82
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.903	0.196	21.26	2.47
ACUTE DIASTOLIC HEART FAILURE (Multiple)	1.092	0.245	19.90	2.98

Abdominal Aortic Aneurysm Repair (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.272	0.091	8.98	1.31
BODY MASS INDEX 40 AND OVER (Multiple)	0.442	0.066	45.46	1.56
RESECTION OF AORTA WITH ANASTOMOSIS (38.34)	1.966	0.098	398.41	7.14
RESECTION OF ABDOMINAL AORTA WITH REPLACEMENT (38.44)	2.074	0.028	5418.68	7.95
AORTA-RENAL BYPASS (39.24)	0.686	0.156	19.34	1.99
AORTA-ILIAC-FEMORAL BYPASS (39.25)	0.580	0.076	57.88	1.79
OTHER (PERIPHERAL) VASCULAR SHUNT OR BYPASS (39.29)	0.798	0.061	171.50	2.22
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S) (39.50)	0.532	0.032	282.37	1.70
REOPENING OF RECENT LAPAROTOMY SITE (54.12)	3.227	0.381	71.57	25.20
Facility POA Percent	0.827	0.122	45.97	2.29
Intercept	-3.471	0.100	1197.36	0.03

Appendectomy

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Skilled Nursing Facility	0.514	0.123	17.43	1.67
Age 45 To 64	0.610	0.017	1283.04	1.84
Age 65 To 74	1.107	0.023	2243.99	3.03
Age 75 And Over	1.553	0.025	3837.99	4.73
Sex = Female	-0.366	0.015	612.38	0.69
ESCHERICHIA COLI [E. COLI] INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE (041.4)	0.181	0.048	14.45	1.20
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.485	0.039	150.81	1.62
HYPOPOTASSEMIA (276.8)	0.116	0.040	8.41	1.12
ANEMIA, UNSPECIFIED (285.9)	0.162	0.048	11.48	1.18
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.204	0.055	13.57	1.23
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.575	0.052	124.12	1.78
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.238	0.041	33.82	1.27
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS (540.0)	0.395	0.038	106.36	1.48
ACUTE APPENDICITIS WITH PERITONEAL ABSCESS (540.1)	0.509	0.040	165.79	1.66
ACUTE APPENDICITIS WITHOUT MENTION OF PERITONITIS (540.9)	-0.798	0.038	443.48	0.45
APPENDICITIS, UNQUALIFIED (541)	-0.791	0.076	109.88	0.45
TACHYCARDIA, UNSPECIFIED (785.0)	0.508	0.085	35.77	1.66
SEVERE SEPSIS (995.92)	0.518	0.078	43.85	1.68
LAPAROSCOPIC SURGICAL PROCEDURE CONVERTED TO OPEN PROCEDURE (V64.41)	0.326	0.030	120.46	1.39
SEPSIS (Multiple)	0.985	0.038	669.56	2.68
DEHYDRATION (Multiple)	0.162	0.040	16.16	1.18
BODY MASS INDEX 40 AND OVER (Multiple)	0.291	0.038	59.97	1.34
LAPAROSCOPIC APPENDECTOMY (47.01)	0.983	0.080	150.14	2.67
OTHER APPENDECTOMY (47.09)	1.363	0.081	285.06	3.91
Facility POA Percent	0.027	0.023	1.38	1.03
Intercept	-3.759	0.090	1752.06	0.02

Back and Neck Surgeries (Without Spinal Fusion)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.524	0.054	95.25	1.69
Admit Source: Transfer From Skilled Nursing Facility	0.366	0.117	9.74	1.44
Age 70 To 74	0.179	0.029	38.80	1.20
Age 75 To 79	0.342	0.029	138.27	1.41
Age 80 To 84	0.501	0.031	264.52	1.65
Age 85 To 89	0.667	0.037	321.69	1.95
Age 90 And Over	0.689	0.063	118.52	1.99
Sex = Female	-0.196	0.021	86.37	0.82
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.087	0.022	15.32	1.09
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.735	0.081	81.58	2.09
ANEMIA, UNSPECIFIED (285.9)	0.189	0.041	21.10	1.21
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.430	0.071	36.98	1.54
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.307	0.099	9.67	1.36
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.107	0.032	10.82	1.11
INTRASPINAL ABSCESS (324.1)	1.009	0.065	240.51	2.74
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.272	0.033	69.41	1.31
ALZHEIMER'S DISEASE (331.0)	0.328	0.096	11.75	1.39
PARALYSIS AGITANS (332.0)	0.198	0.066	8.97	1.22
PARAPLEGIA (344.1)	0.650	0.081	64.07	1.92
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER (344.60)	0.291	0.073	15.73	1.34
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.148	0.033	19.90	1.16
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.206	0.025	69.56	1.23
MITRAL VALVE DISORDERS (424.0)	0.162	0.065	6.17	1.18
AORTIC VALVE DISORDERS (424.1)	0.273	0.063	18.59	1.31
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.252	0.086	8.64	1.29
ATRIAL FIBRILLATION (427.31)	0.194	0.030	40.98	1.21
ATRIAL FLUTTER (427.32)	0.252	0.114	4.87	1.29
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.162	0.073	4.95	1.18
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.481	0.041	137.49	1.62
OTHER EMPHYSEMA (492.8)	0.243	0.091	7.13	1.28
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.274	0.031	77.07	1.32
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.379	0.065	33.75	1.46
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.151	0.065	5.33	1.16
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.418	0.049	71.50	1.52
CERVICAL SPONDYLOSIS WITH MYELOPATHY (721.1)	0.345	0.043	64.89	1.41
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, CERVICAL REGION (722.71)	0.459	0.083	30.53	1.58
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, LUMBAR REGION (722.73)	0.211	0.079	7.18	1.24
SPINAL STENOSIS OF THORACIC REGION (724.01)	0.444	0.086	26.77	1.56

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

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
SPINAL STENOSIS, LUMBAR REGION, WITH NEUROGENIC CLAUDICATION (724.03)	0.051	0.026	3.96	1.05
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.227	0.079	8.15	1.26
CLOSED FRACTURE OF SECOND CERVICAL VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY (805.02)	0.416	0.108	14.78	1.52
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.514	0.108	22.53	1.67
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.434	0.058	55.66	1.54
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.423	0.116	13.24	1.53
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.335	0.076	19.58	1.40
PULMONARY HYPERTENSION (Multiple)	0.645	0.067	93.41	1.91
CARDIOMYOPATHY (Multiple)	0.275	0.070	15.47	1.32
NARROWING OF CEREBRAL ARTERY (Multiple)	0.249	0.075	10.87	1.28
CHRONIC BRONCHITIS (Multiple)	0.770	0.103	55.65	2.16
HYPERPLASIA OF PROSTATE (Multiple)	0.327	0.028	133.18	1.39
MALNUTRITION (Multiple)	0.886	0.081	119.52	2.43
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.303	0.050	36.17	1.35
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.145	0.044	10.59	1.16
ENCEPHALOPATHY (Multiple)	0.855	0.108	63.24	2.35
DEHYDRATION (Multiple)	0.475	0.087	29.81	1.61
CHRONIC ANEMIA (Multiple)	0.224	0.067	11.28	1.25
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.166	0.078	4.49	1.18
BODY MASS INDEX 40 AND OVER (Multiple)	0.424	0.044	95.04	1.53
BODY MASS INDEX 30-39 (Multiple)	0.126	0.031	16.14	1.13
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL (03.09)	0.231	0.038	37.04	1.26
REPAIR OF VERTEBRAL FRACTURE (03.53)	1.133	0.097	137.60	3.11
OTHER REPAIR AND PLASTIC OPERATIONS ON SPINAL CORD STRUCTURES (03.59)	1.018	0.030	1185.58	2.77
EXCISION OF INTERVERTEBRAL DISC (80.51)	0.068	0.034	3.95	1.07
TRANSFUSION OF PACKED CELLS (99.04)	1.280	0.039	1103.14	3.60
Facility POA Percent	0.327	0.093	12.33	1.39
Intercept	-3.834	0.087	1931.37	0.02

Carotid Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.379	0.042	82.12	1.46
Admit Source: Transfer From Other Healthcare Facility	0.288	0.113	6.55	1.33
Admit Source: Transfer From Skilled Nursing Facility	0.355	0.106	11.28	1.43
Age 70 To 74	0.085	0.024	12.24	1.09
Age 75 To 79	0.192	0.024	62.58	1.21
Age 80 To 84	0.321	0.025	161.80	1.38
Age 85 To 89	0.495	0.030	281.95	1.64
Age 90 And Over	0.577	0.051	128.50	1.78
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.470	0.065	53.04	1.60
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.449	0.055	67.00	1.57
HYPERPOTASSEMIA (276.7)	0.378	0.076	25.06	1.46
HYPOPOTASSEMIA (276.8)	0.561	0.053	111.49	1.75
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.294	0.061	22.98	1.34
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.238	0.034	47.95	1.27
ALZHEIMER'S DISEASE (331.0)	0.345	0.079	18.93	1.41
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.90)	0.510	0.047	119.41	1.66
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.200	0.070	8.27	1.22
MALIGNANT ESSENTIAL HYPERTENSION (401.0)	0.578	0.073	62.34	1.78
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.054	0.021	6.37	1.06
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.162	0.018	81.49	1.18
MITRAL VALVE DISORDERS (424.0)	0.183	0.045	16.69	1.20
AORTIC VALVE DISORDERS (424.1)	0.313	0.038	66.11	1.37
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.200	0.077	6.72	1.22
SINOATRIAL NODE DYSFUNCTION (427.81)	0.436	0.077	32.25	1.55
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.434	0.025	300.39	1.54
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	0.475	0.084	31.73	1.61
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.392	0.054	52.00	1.48
UNSPECIFIED TRANSIENT CEREBRAL ISCHEMIA (435.9)	0.385	0.076	25.87	1.47
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.310	0.062	24.53	1.36
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.214	0.051	17.70	1.24
STRICTURE OF ARTERY (447.1)	0.228	0.072	10.06	1.26
OTHER EMPHYSEMA (492.8)	0.294	0.059	24.49	1.34
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.153	0.021	54.46	1.17
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.508	0.086	35.18	1.66
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.786	0.030	695.70	2.20
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	1.085	0.052	440.90	2.96
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.521	0.028	345.12	1.68
APHASIA (784.3)	0.336	0.045	55.95	1.40

Carotid Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.277	0.055	25.45	1.32
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.393	0.068	33.48	1.48
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.614	0.063	95.87	1.85
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.260	0.041	40.09	1.30
PULMONARY HYPERTENSION (Multiple)	0.418	0.045	84.80	1.52
CARDIOMYOPATHY (Multiple)	0.296	0.047	40.27	1.35
INFARCTION OF A CEREBRAL ARTERY (Multiple)	0.506	0.029	304.67	1.66
CHRONIC BRONCHITIS (Multiple)	0.776	0.062	157.98	2.17
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.261	0.044	35.43	1.30
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.198	0.020	97.66	1.22
ENCEPHALOPATHY (Multiple)	0.447	0.083	28.69	1.56
DEHYDRATION (Multiple)	0.438	0.067	43.31	1.55
CHRONIC ANEMIA (Multiple)	0.408	0.052	62.30	1.50
DYSPHAGIA (Multiple)	0.813	0.047	304.94	2.26
BODY MASS INDEX 40 AND OVER (Multiple)	0.276	0.047	34.48	1.32
PROCEDURE ON SINGLE VESSEL (00.40)	-0.078	0.022	13.05	0.93
INSERTION OF TWO VASCULAR STENTS (00.46)	0.613	0.068	81.84	1.85
PERCUTANEOUS ANGIOPLASTY OF EXTRACRANIAL VESSEL(S) (00.61)	0.263	0.078	11.48	1.30
PERCUTANEOUS INSERTION OF CAROTID ARTERY STENT(S) (00.63)	-0.286	0.079	12.97	0.75
Facility POA Percent	0.866	0.088	96.11	2.38
Intercept	-3.673	0.073	2555.16	0.03

Defibrillator Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Age 70 To 74	0.094	0.028	11.71	1.10
Age 75 To 79	0.154	0.028	31.07	1.17
Age 80 To 84	0.186	0.029	40.80	1.20
Age 85 To 89	0.240	0.036	43.64	1.27
Age 90 And Over	0.351	0.072	23.94	1.42
Sex = Female	0.131	0.020	42.48	1.14
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.257	0.062	17.46	1.29
HYPOSOLALITY AND/OR HYPONATREMIA (276.1)	0.253	0.046	30.78	1.29
ALKALOSIS (276.3)	0.254	0.126	4.04	1.29
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	0.137	0.059	5.41	1.15
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.193	0.046	17.57	1.21
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.182	0.090	4.14	1.20
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.120	0.043	7.80	1.13
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.549	0.109	25.51	1.73
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.090	0.036	6.13	1.09
ATRIAL FIBRILLATION (427.31)	0.079	0.019	17.47	1.08
ATRIAL FLUTTER (427.32)	0.091	0.037	6.12	1.10
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.273	0.067	16.67	1.31
VENOUS (PERIPHERAL) INSUFFICIENCY, UNSPECIFIED (459.81)	0.153	0.077	3.96	1.17
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.102	0.024	17.46	1.11
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.494	0.056	77.76	1.64
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.266	0.087	9.26	1.31
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.341	0.115	8.82	1.41
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.451	0.042	117.85	1.57
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.569	0.053	116.56	1.77
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.236	0.040	34.42	1.27
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	1.020	0.053	364.25	2.77
HEART VALVE REPLACED BY OTHER MEANS (V43.3)	0.150	0.041	13.39	1.16
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.196	0.038	26.70	1.22
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.419	0.061	46.79	1.52
PULMONARY HYPERTENSION (Multiple)	0.117	0.029	15.84	1.12
CHRONIC BRONCHITIS (Multiple)	0.391	0.047	68.28	1.48
MALNUTRITION (Multiple)	0.449	0.064	49.28	1.57
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.145	0.053	7.57	1.16
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	0.305	0.085	12.81	1.36
DEHYDRATION (Multiple)	0.234	0.063	13.66	1.26
CHRONIC ANEMIA (Multiple)	0.122	0.050	6.10	1.13
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.442	0.023	376.89	1.56
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.553	0.078	50.33	1.74

Defibrillator Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.183	0.070	6.77	1.20
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.433	0.042	105.22	1.54
BODY MASS INDEX 40 AND OVER (Multiple)	0.263	0.045	34.77	1.30
PROCEDURE ON SINGLE VESSEL (00.40)	0.727	0.106	46.84	2.07
IMPLANTATION OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR, TOTAL SYSTEM [CRT-D] (00.51)	1.495	0.151	97.89	4.46
IMPLANTATION OR REPLACEMENT OF TRANSVENOUS LEAD [ELECTRODE] INTO LEFT VENTRICULAR CORONARY VENOUS SYSTEM (00.52)	1.490	0.130	131.31	4.44
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR PULSE GENERATOR ONLY [CRT-D] (00.54)	0.945	0.202	21.83	2.57
RIGHT HEART CARDIAC CATHETERIZATION (37.21)	0.312	0.066	22.39	1.37
LEFT HEART CARDIAC CATHETERIZATION (37.22)	0.478	0.040	143.92	1.61
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION (37.23)	0.484	0.052	86.80	1.62
IMPLANT OF PULSATION BALLOON (37.61)	0.828	0.131	40.23	2.29
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM (37.74)	1.137	0.065	308.13	3.12
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR, TOTAL SYSTEM [AICD] (37.94)	1.488	0.151	96.69	4.43
REPLACEMENT OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR LEAD(S) ONLY (37.97)	2.238	0.116	372.70	9.37
HEMODIALYSIS (39.95)	0.548	0.053	108.65	1.73
ANGIOCARDIOGRAPHY OF RIGHT HEART STRUCTURES (88.52)	-0.260	0.094	7.67	0.77
ANGIOCARDIOGRAPHY OF LEFT HEART STRUCTURES (88.53)	-0.239	0.041	33.38	0.79
COMBINED RIGHT AND LEFT HEART ANGIOCARDIOGRAPHY (88.54)	-0.303	0.117	6.77	0.74
NON-INVASIVE MECHANICAL VENTILATION (93.90)	0.797	0.058	185.49	2.22
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	1.650	0.036	2097.25	5.21
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.300	0.071	1054.68	9.97
TRANSFUSION OF PACKED CELLS (99.04)	1.090	0.039	794.77	2.98
TRANSFUSION OF PLATELETS (99.05)	0.887	0.118	56.66	2.43
TRANSFUSION OF OTHER SERUM (99.07)	0.565	0.069	67.65	1.76
Facility POA Percent	-0.058	0.096	0.36	0.94
Intercept	-4.115	0.171	582.31	0.02

Gallbladder Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.082	0.023	13.34	1.09
Admit Source: Transfer From Skilled Nursing Facility	0.263	0.039	45.76	1.30
Age 70 To 74	0.153	0.016	95.13	1.17
Age 75 To 79	0.313	0.016	397.37	1.37
Age 80 To 84	0.457	0.016	804.34	1.58
Age 85 To 89	0.614	0.018	1188.41	1.85
Age 90 And Over	0.742	0.023	1062.33	2.10
Sex = Female	-0.207	0.011	378.36	0.81
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.190	0.034	30.62	1.21
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.090	0.040	5.08	1.09
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.507	0.059	73.30	1.66
HYPOSOMOLALITY AND/OR HYPONATREMIA (276.1)	0.107	0.020	28.07	1.11
ACIDOSIS (276.2)	0.421	0.032	172.84	1.52
HYPERPOTASSEMIA (276.7)	0.115	0.040	8.22	1.12
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.252	0.022	136.81	1.29
ALZHEIMER'S DISEASE (331.0)	0.077	0.033	5.67	1.08
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.186	0.041	20.81	1.20
DISEASES OF TRICUSPID VALVE (397.0)	0.182	0.040	20.45	1.20
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.072	0.016	19.97	1.07
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.070	0.013	29.89	1.07
AORTIC VALVE DISORDERS (424.1)	0.154	0.030	25.47	1.17
ATRIAL FIBRILLATION (427.31)	0.062	0.013	21.89	1.06
ATRIAL FLUTTER (427.32)	0.172	0.046	14.05	1.19
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.372	0.016	556.20	1.45
OTHER EMPHYSEMA (492.8)	0.322	0.049	43.77	1.38
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.195	0.015	174.65	1.22
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.473	0.037	162.27	1.60
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.349	0.049	51.71	1.42
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.141	0.058	5.88	1.15
INCISIONAL HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.21)	0.235	0.051	20.88	1.27
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	0.218	0.017	159.14	1.24
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.133	0.035	14.73	1.14
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.00)	0.170	0.012	212.90	1.19
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION (574.01)	0.211	0.030	48.52	1.24
CALCULUS OF BILE DUCT WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.30)	0.161	0.032	24.98	1.17
CALCULUS OF BILE DUCT WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION (574.31)	0.165	0.048	11.98	1.18
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION (574.60)	0.232	0.026	80.24	1.26

Gallbladder Removal Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITH OBSTRUCTION (574.61)	0.211	0.034	38.46	1.24
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION (574.80)	0.199	0.033	37.27	1.22
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITH OBSTRUCTION (574.81)	0.121	0.041	8.54	1.13
ACUTE CHOLECYSTITIS (575.0)	0.266	0.017	246.81	1.30
ACUTE AND CHRONIC CHOLECYSTITIS (575.12)	0.209	0.030	47.60	1.23
PERFORATION OF GALLBLADDER (575.4)	0.449	0.034	170.19	1.57
CHOLANGITIS (576.1)	0.104	0.023	21.20	1.11
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.409	0.030	190.87	1.51
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.673	0.042	259.07	1.96
END STAGE RENAL DISEASE (585.6)	0.236	0.080	8.61	1.27
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.278	0.029	90.75	1.32
SEPTIC SHOCK (785.52)	0.105	0.048	4.74	1.11
OTHER ASCITES (789.59)	0.538	0.039	191.04	1.71
SEVERE SEPSIS (995.92)	0.492	0.039	160.04	1.64
NON-MALIGNANT HYPERTENSION WITH CHF (Multiple)	0.363	0.080	20.80	1.44
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.118	0.027	19.29	1.13
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.291	0.082	12.52	1.34
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.235	0.030	61.73	1.27
PULMONARY HYPERTENSION (Multiple)	0.435	0.027	262.95	1.55
CARDIOMYOPATHY (Multiple)	0.283	0.027	107.18	1.33
CHRONIC BRONCHITIS (Multiple)	0.533	0.038	197.93	1.70
HYPERPLASIA OF PROSTATE (Multiple)	0.057	0.017	11.72	1.06
MALNUTRITION (Multiple)	0.650	0.021	946.94	1.92
SEPSIS (Multiple)	0.395	0.020	378.33	1.49
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.091	0.023	16.07	1.10
ENCEPHALOPATHY (Multiple)	0.151	0.043	12.48	1.16
DECUBITIS ULCER (Multiple)	0.303	0.048	39.99	1.35
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.314	0.061	26.73	1.37
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.402	0.054	55.64	1.50
BODY MASS INDEX 40 AND OVER (Multiple)	0.315	0.022	213.27	1.37
BODY MASS INDEX 30-39 (Multiple)	0.057	0.016	12.05	1.06
ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY [ERCP] (51.10)	0.274	0.032	71.23	1.32
OTHER PARTIAL CHOLECYSTECTOMY (51.21)	1.026	0.075	185.58	2.79
CHOLECYSTECTOMY (51.22)	0.835	0.012	4739.31	2.31
EXPLORATION OF COMMON BILE DUCT (51.51)	0.142	0.050	8.18	1.15
ENDOSCOPIC INSERTION OF STENT (TUBE) INTO BILE DUCT (51.87)	0.754	0.020	1357.32	2.13
Facility POA Percent	0.391	0.047	68.48	1.48
Intercept	-2.635	0.042	3960.10	0.07

Hip Fracture Treatment

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.110	0.013	67.84	1.12
Admit Source: Transfer From Other Healthcare Facility	0.083	0.025	11.25	1.09
Age 70 To 74	0.148	0.019	61.44	1.16
Age 75 To 79	0.271	0.017	240.20	1.31
Age 80 To 84	0.355	0.017	454.75	1.43
Age 85 To 89	0.461	0.016	787.13	1.59
Age 90 And Over	0.571	0.017	1187.47	1.77
Sex = Female	-0.319	0.007	1897.68	0.73
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.209	0.042	24.22	1.23
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	0.118	0.050	5.67	1.13
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.169	0.028	37.51	1.19
ACIDOSIS (276.2)	0.500	0.032	244.75	1.65
HYPERPOTASSEMIA (276.7)	0.117	0.021	32.22	1.12
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.031	0.015	4.24	1.03
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	0.144	0.036	16.03	1.16
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.212	0.023	88.00	1.24
POLYNEUROPATHY IN DIABETES (357.2)	0.140	0.024	33.35	1.15
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.170	0.040	17.97	1.19
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE INSUFFICIENCY (396.3)	0.121	0.035	11.85	1.13
DISEASES OF TRICUSPID VALVE (397.0)	0.157	0.022	50.94	1.17
MALIGNANT ESSENTIAL HYPERTENSION (401.0)	0.244	0.037	43.93	1.28
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.326	0.041	62.31	1.39
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.069	0.012	34.46	1.07
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.108	0.008	161.73	1.11
MITRAL VALVE DISORDERS (424.0)	0.049	0.018	7.31	1.05
AORTIC VALVE DISORDERS (424.1)	0.195	0.015	176.29	1.22
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.087	0.024	13.24	1.09
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (427.0)	0.180	0.058	9.78	1.20
ATRIAL FIBRILLATION (427.31)	0.050	0.008	36.95	1.05
ATRIAL FLUTTER (427.32)	0.147	0.031	21.96	1.16
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.341	0.009	1345.12	1.41
CEREBRAL ATHEROSCLEROSIS (437.0)	0.178	0.033	28.86	1.20
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.171	0.025	45.34	1.19
OTHER LATE EFFECTS OF CEREBROVASCULAR DISEASE (438.89)	0.095	0.027	12.71	1.10
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.123	0.028	19.09	1.13
OTHER EMPHYSEMA (492.8)	0.297	0.029	107.07	1.35
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.120	0.009	165.32	1.13
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.295	0.051	33.42	1.34

Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.460	0.034	179.28	1.59
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.266	0.026	104.03	1.30
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.228	0.039	33.37	1.26
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.3)	0.149	0.023	42.36	1.16
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.142	0.037	15.07	1.15
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.388	0.020	395.23	1.48
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.539	0.025	454.24	1.72
END STAGE RENAL DISEASE (585.6)	0.152	0.054	8.02	1.16
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.360	0.019	341.79	1.43
PRESSURE ULCER, STAGE II (707.22)	0.277	0.033	70.55	1.32
RHABDOMYOLYSIS (728.88)	0.191	0.029	42.21	1.21
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.177	0.045	15.23	1.19
HYPOXEMIA (799.02)	0.278	0.024	132.23	1.32
DEBILITY, UNSPECIFIED (799.3)	0.086	0.023	13.80	1.09
CACHEXIA (799.4)	0.148	0.030	24.19	1.16
CLOSED FRACTURE OF SURGICAL NECK OF HUMERUS (812.01)	0.310	0.041	57.19	1.36
CLOSED FRACTURE OF UNSPECIFIED INTRACAPSULAR SECTION OF NECK OF FEMUR (820.00)	0.115	0.041	7.67	1.12
CLOSED FRACTURE OF MIDCERVICAL SECTION OF FEMUR (820.02)	0.148	0.030	24.40	1.16
CLOSED FRACTURE OF BASE OF NECK OF FEMUR (820.03)	0.135	0.028	23.46	1.15
CLOSED FRACTURE OF OTHER TRANSCERVICAL SECTION OF FEMUR (820.09)	0.093	0.018	26.56	1.10
CLOSED FRACTURE OF INTERTROCHANTERIC SECTION OF FEMUR (820.21)	0.297	0.016	337.35	1.35
CLOSED FRACTURE OF SUBTROCHANTERIC SECTION OF FEMUR (820.22)	0.361	0.017	440.96	1.43
CLOSED FRACTURE OF UNSPECIFIED PART OF NECK OF FEMUR (820.8)	0.064	0.018	12.42	1.07
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.245	0.019	164.68	1.28
NON-MALIGNANT HYPERTENSION WITH CHF (Multiple)	0.221	0.049	20.52	1.25
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.100	0.018	29.16	1.11
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.183	0.054	11.62	1.20
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.206	0.055	14.19	1.23
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.213	0.020	116.36	1.24
PULMONARY HYPERTENSION (Multiple)	0.428	0.014	908.77	1.53
CARDIOMYOPATHY (Multiple)	0.187	0.018	108.96	1.21
NARROWING OF CEREBRAL ARTERY (Multiple)	0.154	0.023	43.27	1.17
CHRONIC BRONCHITIS (Multiple)	0.544	0.025	475.02	1.72
MALNUTRITION (Multiple)	0.354	0.015	582.66	1.42
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.082	0.014	34.09	1.09
ENCEPHALOPATHY (Multiple)	0.112	0.032	12.66	1.12
HYPOTENSION, UNSP OR NEC (Multiple)	0.211	0.026	66.31	1.24
DEHYDRATION (Multiple)	0.102	0.014	50.71	1.11

Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
DYSPHAGIA (Multiple)	0.465	0.020	566.33	1.59
BACTERIAL PNEUMONIA (Multiple)	0.127	0.024	28.32	1.14
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.374	0.045	70.24	1.45
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.554	0.036	241.15	1.74
BODY MASS INDEX 40 AND OVER (Multiple)	0.356	0.031	131.98	1.43
BODY MASS INDEX 30-39 (Multiple)	0.169	0.020	70.30	1.18
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG] (43.11)	1.875	0.045	1739.35	6.52
CLOSED REDUCTION OF FRACTURE OF RADIUS AND ULNA WITHOUT INTERNAL FIXATION (79.02)	0.116	0.042	7.73	1.12
CLOSED REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION (79.15)	0.051	0.012	16.86	1.05
OPEN REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION (79.35)	0.059	0.012	24.56	1.06
TOTAL HIP REPLACEMENT (81.51)	0.346	0.021	268.48	1.41
PARTIAL HIP REPLACEMENT (81.52)	0.404	0.013	1034.01	1.50
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	3.302	0.037	7936.84	27.16
TRANSFUSION OF PACKED CELLS (99.04)	0.346	0.007	2508.88	1.41
TRANSFUSION OF OTHER SERUM (99.07)	0.253	0.017	224.63	1.29
Palliative Care Risk Regardless of POA (Custom Logic)	1.972	0.026	5646.61	7.19
Facility POA Percent	0.872	0.036	599.95	2.39
Intercept	-3.172	0.036	7728.01	0.04

Hip Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.561	0.106	27.80	1.75
Admit Source: Transfer From Other Healthcare Facility	0.576	0.175	10.82	1.78
Admit Source: Transfer From Skilled Nursing Facility	0.578	0.101	33.11	1.78
Age 70 To 74	0.186	0.018	103.77	1.21
Age 75 To 79	0.402	0.018	473.83	1.49
Age 80 To 84	0.607	0.020	967.55	1.83
Age 85 To 89	0.805	0.024	1172.43	2.24
Age 90 And Over	1.020	0.040	663.03	2.77
Sex = Female	-0.243	0.014	321.44	0.78
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.162	0.016	106.02	1.18
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.649	0.073	78.21	1.91
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.251	0.069	13.22	1.29
HYPOPOTASSEMIA (276.8)	0.225	0.054	17.63	1.25
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.452	0.044	103.59	1.57
DEMENCIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	0.678	0.077	77.92	1.97
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.626	0.070	80.17	1.87
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.244	0.022	124.36	1.28
DISEASES OF TRICUSPID VALVE (397.0)	0.386	0.061	39.48	1.47
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.223	0.024	87.95	1.25
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.264	0.017	243.87	1.30
MITRAL VALVE DISORDERS (424.0)	0.101	0.038	6.98	1.11
AORTIC VALVE DISORDERS (424.1)	0.326	0.038	74.09	1.39
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.132	0.062	4.64	1.14
ATRIAL FIBRILLATION (427.31)	0.140	0.019	53.71	1.15
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.459	0.028	263.42	1.58
OTHER EMPHYSEMA (492.8)	0.213	0.063	11.49	1.24
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.295	0.021	193.31	1.34
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.305	0.041	55.14	1.36
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.245	0.041	35.16	1.28
OSTEOARTHRITIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE (715.90)	0.135	0.048	7.80	1.14
OSTEOARTHRITIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, PELVIC REGION AND THIGH (715.95)	0.066	0.016	17.06	1.07
ASEPTIC NECROSIS OF HEAD AND NECK OF FEMUR (733.42)	0.254	0.025	104.95	1.29
LONG-TERM (CURRENT) USE OF STEROIDS (V58.65)	0.133	0.054	6.07	1.14
DISORDERS OF LIPOID METABOLISM (Multiple)	0.049	0.012	15.32	1.05
NON-MALIGNANT HYPERTENSION (Multiple)	0.079	0.015	28.87	1.08
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.455	0.070	41.72	1.58
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.758	0.038	406.81	2.13
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.466	0.050	87.64	1.59

Hip Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
PULMONARY HYPERTENSION (Multiple)	0.584	0.042	192.39	1.79
CARDIOMYOPATHY (Multiple)	0.308	0.044	49.51	1.36
NARROWING OF CEREBRAL ARTERY (Multiple)	0.227	0.051	19.70	1.26
CHRONIC BRONCHITIS (Multiple)	0.652	0.078	68.94	1.92
ASTHMA (Multiple)	0.101	0.023	18.61	1.11
HYPERPLASIA OF PROSTATE (Multiple)	0.185	0.021	78.02	1.20
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.324	0.049	43.88	1.38
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.190	0.033	33.70	1.21
HYPOTENSION, UNSP OR NEC (Multiple)	0.357	0.070	25.93	1.43
DEHYDRATION (Multiple)	1.035	0.068	229.72	2.81
CHRONIC ANEMIA (Multiple)	0.236	0.040	34.75	1.27
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.282	0.052	29.10	1.33
BODY MASS INDEX 40 AND OVER (Multiple)	0.479	0.026	337.06	1.61
BODY MASS INDEX 30-39 (Multiple)	0.104	0.019	29.34	1.11
Bi-lateral Hip Replacement (Custom Logic)	0.498	0.096	26.89	1.65
Facility POA Percent	0.883	0.060	215.35	2.42
Intercept	-3.921	0.051	5848.13	0.02

Pacemaker Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Skilled Nursing Facility	0.173	0.043	16.34	1.19
Age 70 To 74	0.055	0.026	4.33	1.06
Age 75 To 79	0.125	0.025	25.13	1.13
Age 80 To 84	0.206	0.024	72.23	1.23
Age 85 To 89	0.329	0.024	180.70	1.39
Age 90 And Over	0.401	0.026	229.29	1.49
Sex = Female	0.164	0.012	184.31	1.18
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.208	0.046	20.06	1.23
ACIDOSIS (276.2)	0.133	0.042	10.29	1.14
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	0.078	0.035	5.02	1.08
ALZHEIMER'S DISEASE (331.0)	0.184	0.034	30.19	1.20
MALIGNANT ESSENTIAL HYPERTENSION (401.0)	0.173	0.057	9.12	1.19
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.400	0.033	142.89	1.49
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.311	0.093	11.11	1.37
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.228	0.068	11.16	1.26
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY (414.2)	0.258	0.064	16.22	1.29
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS (421.0)	0.466	0.074	39.24	1.59
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.246	0.068	13.12	1.28
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.069	0.014	24.16	1.07
ATRIAL FLUTTER (427.32)	0.117	0.022	29.33	1.12
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.182	0.015	148.76	1.20
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.161	0.072	4.94	1.18
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.201	0.069	8.44	1.22
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.113	0.051	4.89	1.12
OTHER EMPHYSEMA (492.8)	0.161	0.064	6.39	1.18
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.096	0.018	29.53	1.10
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.499	0.037	180.77	1.65
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.222	0.051	18.75	1.25
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.229	0.059	15.13	1.26
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.423	0.029	217.25	1.53
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.497	0.036	188.51	1.64
END STAGE RENAL DISEASE (585.6)	0.236	0.075	9.79	1.27
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.211	0.029	54.30	1.24
ADULT FAILURE TO THRIVE (783.7)	0.478	0.069	47.38	1.61
BACTEREMIA (790.7)	0.313	0.070	19.83	1.37
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	0.509	0.058	77.06	1.66
HEART VALVE REPLACED BY OTHER MEANS (V43.3)	0.070	0.032	4.75	1.07
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.074	0.027	7.75	1.08

Pacemaker Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.193	0.076	6.42	1.21
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.098	0.025	15.53	1.10
PULMONARY HYPERTENSION (Multiple)	0.162	0.020	65.67	1.18
CARDIOMYOPATHY (Multiple)	0.072	0.022	10.36	1.07
CHRONIC BRONCHITIS (Multiple)	0.465	0.036	164.87	1.59
MALNUTRITION (Multiple)	0.609	0.036	280.87	1.84
SEPSIS (Multiple)	0.683	0.060	129.23	1.98
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.088	0.036	6.13	1.09
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.068	0.023	8.96	1.07
ENCEPHALOPATHY (Multiple)	0.257	0.048	28.73	1.29
DEHYDRATION (Multiple)	0.077	0.028	7.73	1.08
CHRONIC ANEMIA (Multiple)	0.063	0.029	4.87	1.07
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.394	0.029	181.16	1.48
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.349	0.025	194.11	1.42
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.460	0.043	113.63	1.59
BODY MASS INDEX 40 AND OVER (Multiple)	0.098	0.031	10.18	1.10
PROCEDURE ON SINGLE VESSEL (00.40)	1.188	0.086	190.03	3.28
IMPLANTATION OF CARDIAC RESYNCHRONIZATION PACEMAKER WITHOUT MENTION OF DEFIBRILLATION, TOTAL SYSTEM [CRT-P] (00.50)	1.788	0.041	1914.50	5.98
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION PACEMAKER PULSE GENERATOR ONLY [CRT-P] (00.53)	1.210	0.150	64.76	3.35
RIGHT HEART CARDIAC CATHETERIZATION (37.21)	0.694	0.090	59.87	2.00
LEFT HEART CARDIAC CATHETERIZATION (37.22)	0.379	0.025	228.95	1.46
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION (37.23)	0.629	0.051	153.18	1.88
INITIAL INSERTION OF LEAD [ELECTRODE], NOT OTHERWISE SPECIFIED (37.70)	0.816	0.139	34.46	2.26
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO VENTRICLE (37.71)	0.984	0.093	112.59	2.68
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODES] INTO ATRIUM AND VENTRICLE (37.72)	1.868	0.032	3392.74	6.48
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO ATRIUM (37.73)	0.935	0.104	80.48	2.55
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM (37.74)	2.177	0.061	1270.20	8.82
REVISION OF LEAD [ELECTRODE] (37.75)	2.785	0.026	11859.40	16.20
REPLACEMENT OF TRANSVENOUS ATRIAL AND/OR VENTRICULAR LEAD(S) [ELECTRODE(S)] (37.76)	1.409	0.039	1328.24	4.09
REMOVAL OF LEAD(S) [ELECTRODE] WITHOUT REPLACEMENT (37.77)	1.073	0.059	333.11	2.93
REVISION OR RELOCATION OF CARDIAC DEVICE POCKET (37.79)	0.514	0.037	192.18	1.67
INSERTION OF PERMANENT PACEMAKER, INITIAL OR REPLACEMENT, TYPE OF DEVICE NOT SPECIFIED (37.80)	0.682	0.122	31.46	1.98
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE (37.81)	0.781	0.094	69.04	2.18
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE (37.82)	0.813	0.095	73.04	2.26
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE (37.85)	0.751	0.087	73.95	2.12
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE (37.86)	0.801	0.105	58.67	2.23

Pacemaker Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH DUAL-CHAMBER DEVICE (37.87)	0.818	0.043	367.88	2.27
REVISION OR REMOVAL OF PACEMAKER DEVICE (37.89)	0.121	0.054	5.01	1.13
NON-INVASIVE MECHANICAL VENTILATION (93.90)	1.351	0.041	1107.38	3.86
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	2.250	0.033	4647.23	9.49
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.925	0.073	1616.60	18.64
TRANSFUSION OF PACKED CELLS (99.04)	0.937	0.024	1494.41	2.55
TRANSFUSION OF PLATELETS (99.05)	0.570	0.076	55.68	1.77
TRANSFUSION OF OTHER SERUM (99.07)	0.337	0.040	70.08	1.40
Facility POA Percent	-0.103	0.064	2.60	0.90
Intercept	-4.790	0.065	5512.72	0.01

Peripheral Vascular Bypass

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Age 70 To 74	0.158	0.035	20.51	1.17
Age 75 To 79	0.226	0.036	39.52	1.25
Age 80 To 84	0.363	0.038	92.58	1.44
Age 85 To 89	0.525	0.043	145.98	1.69
Age 90 And Over	0.546	0.061	79.41	1.73
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.438	0.085	26.24	1.55
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.183	0.066	7.69	1.20
HYPOPOTASSEMIA (276.8)	0.290	0.073	15.90	1.34
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.353	0.078	20.62	1.42
MITRAL VALVE DISORDERS (424.0)	0.304	0.069	19.49	1.36
AORTIC VALVE DISORDERS (424.1)	0.313	0.064	23.85	1.37
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.376	0.032	137.25	1.46
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.351	0.080	19.33	1.42
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.120	0.054	4.92	1.13
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION (440.21)	-0.187	0.042	20.06	0.83
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN (440.22)	0.218	0.041	27.86	1.24
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH ULCERATION (440.23)	0.255	0.041	38.71	1.29
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE (440.24)	0.467	0.041	126.81	1.60
EMBOLISM AND THROMBOSIS OF ABDOMINAL AORTA (444.0)	0.661	0.241	7.51	1.94
ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY (444.22)	0.277	0.042	43.15	1.32
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.070	0.028	6.39	1.07
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.572	0.064	79.93	1.77
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.765	0.083	85.33	2.15

Peripheral Vascular Bypass (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.327	0.064	25.93	1.39
SECONDARY HYPERPARATHYROIDISM (OF RENAL ORIGIN) (588.81)	0.255	0.091	7.83	1.29
CELLULITIS AND ABSCESS OF TOE, UNSPECIFIED (681.10)	0.181	0.069	6.81	1.20
CELLULITIS AND ABSCESS OF LEG, EXCEPT FOOT (682.6)	0.288	0.057	25.17	1.33
CELLULITIS AND ABSCESS OF FOOT, EXCEPT TOES (682.7)	0.336	0.047	49.95	1.40
ACUTE OSTEOMYELITIS, ANKLE AND FOOT (730.07)	0.394	0.102	15.03	1.48
GANGRENE (785.4)	0.236	0.070	11.20	1.27
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.228	0.059	14.89	1.26
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.310	0.058	28.57	1.36
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.461	0.049	88.79	1.59
PULMONARY HYPERTENSION (Multiple)	0.441	0.061	52.94	1.55
CARDIOMYOPATHY (Multiple)	0.277	0.059	22.40	1.32
CHRONIC BRONCHITIS (Multiple)	0.569	0.099	33.03	1.77
MALNUTRITION (Multiple)	0.662	0.061	117.91	1.94
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.118	0.035	11.61	1.13
INFRA-RENAL ANEURYSM (Multiple)	0.211	0.058	13.48	1.24
DECUBITIS ULCER (Multiple)	0.273	0.066	17.01	1.31
DEHYDRATION (Multiple)	0.380	0.104	13.23	1.46
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.675	0.159	18.08	1.96
ACUTE DIASTOLIC HEART FAILURE (Multiple)	1.036	0.170	37.18	2.82
BODY MASS INDEX 40 AND OVER (Multiple)	0.374	0.074	25.57	1.45
PROCEDURE ON SINGLE VESSEL (00.40)	0.131	0.033	15.43	1.14
PROCEDURE ON TWO VESSELS (00.41)	0.223	0.048	21.53	1.25
PROCEDURE ON THREE VESSELS (00.42)	0.339	0.081	17.66	1.40
PROCEDURE ON FOUR OR MORE VESSELS (00.43)	0.400	0.127	9.86	1.49
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S) (39.50)	0.192	0.043	19.82	1.21
Facility POA Percent	0.754	0.114	43.91	2.13
Intercept	-3.070	0.100	949.45	0.05

Prostate Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Age 70 To 74	0.103	0.031	10.82	1.11
Age 75 To 79	0.197	0.046	18.44	1.22
Age 80 To 84	0.354	0.074	22.85	1.43
Age 85 To 89	0.804	0.106	57.23	2.24
Age 90 And Over	0.803	0.192	17.54	2.23
HYPOSOLALITY AND/OR HYPONATREMIA (276.1)	0.645	0.149	18.61	1.91
HYPERPOTASSEMIA (276.7)	1.028	0.158	42.30	2.80
HYPOPOTASSEMIA (276.8)	0.669	0.140	22.82	1.95
ANEMIA, UNSPECIFIED (285.9)	0.459	0.076	36.34	1.58
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.785	0.120	42.49	2.19
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.294	0.056	27.71	1.34
POLYNEUROPATHY IN DIABETES (357.2)	0.460	0.144	10.23	1.59
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.166	0.061	7.39	1.18
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.259	0.042	37.61	1.30
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.586	0.090	42.25	1.80
OTHER EMPHYSEMA (492.8)	0.380	0.156	5.97	1.46
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.364	0.058	39.88	1.44
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	0.588	0.054	120.67	1.80
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.569	0.130	19.15	1.77
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.445	0.119	13.92	1.56
HYDRONEPHROSIS (591)	0.551	0.112	24.25	1.73
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.381	0.098	15.06	1.46
URINARY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (599.69)	0.190	0.093	4.12	1.21
DISORDERS OF LIPOID METABOLISM (Multiple)	0.066	0.029	5.17	1.07
NON-MALIGNANT HYPERTENSION (Multiple)	0.095	0.030	10.00	1.10
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.629	0.111	31.94	1.88
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.970	0.141	47.10	2.64
CARDIOMYOPATHY (Multiple)	0.582	0.122	22.62	1.79
HYPERPLASIA OF PROSTATE (Multiple)	0.160	0.045	12.66	1.17
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.283	0.102	7.76	1.33
CHRONIC ANEMIA (Multiple)	0.287	0.139	4.27	1.33
BODY MASS INDEX 40 AND OVER (Multiple)	0.664	0.087	58.77	1.94
BODY MASS INDEX 30-39 (Multiple)	0.244	0.051	23.01	1.28
OPEN ROBOTIC ASSISTED PROCEDURE (17.41)	0.347	0.096	13.20	1.42
RADICAL EXCISION OF ILIAC LYMPH NODES (40.53)	0.306	0.097	9.99	1.36
SUPRAPUBIC PROSTATECTOMY (60.3)	0.813	0.059	188.04	2.25
RETROPUBIC PROSTATECTOMY (60.4)	0.338	0.071	22.64	1.40
LOCAL EXCISION OF LESION OF PROSTATE (60.61)	-0.795	0.188	17.91	0.45
Facility POA Percent	0.872	0.139	39.20	2.39
Intercept	-3.680	0.116	1000.36	0.03

Spinal Fusion

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.491	0.043	128.78	1.63
Admit Source: Transfer From Other Healthcare Facility	0.432	0.107	16.40	1.54
Admit Source: Transfer From Skilled Nursing Facility	0.320	0.097	10.82	1.38
Age 70 To 74	0.156	0.016	90.96	1.17
Age 75 To 79	0.283	0.018	255.83	1.33
Age 80 To 84	0.411	0.021	377.06	1.51
Age 85 To 89	0.493	0.031	246.40	1.64
Age 90 And Over	0.733	0.064	129.36	2.08
Sex = Female	-0.284	0.014	409.85	0.75
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.047	0.015	9.92	1.05
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.641	0.056	133.09	1.90
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.162	0.069	5.53	1.18
HYPOPOTASSEMIA (276.8)	0.415	0.041	100.83	1.52
ANEMIA, UNSPECIFIED (285.9)	0.122	0.028	18.84	1.13
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.414	0.048	73.63	1.51
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.476	0.076	39.57	1.61
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.097	0.020	23.28	1.10
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.293	0.021	190.88	1.34
ALZHEIMER'S DISEASE (331.0)	0.366	0.079	21.61	1.44
PARALYSIS AGITANS (332.0)	0.281	0.046	36.68	1.33
QUADRIPLEGIA, UNSPECIFIED (344.00)	0.764	0.065	137.02	2.15
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER (344.60)	0.168	0.068	6.02	1.18
DISORDERS OF MENINGES, NOT ELSEWHERE CLASSIFIED (349.2)	0.298	0.070	17.89	1.35
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.193	0.024	62.93	1.21
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.181	0.017	109.13	1.20
MITRAL VALVE DISORDERS (424.0)	0.198	0.043	21.31	1.22
AORTIC VALVE DISORDERS (424.1)	0.306	0.047	42.27	1.36
ATRIAL FIBRILLATION (427.31)	0.192	0.023	69.43	1.21
ATRIAL FLUTTER (427.32)	0.333	0.090	13.67	1.40
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.260	0.048	29.61	1.30
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.422	0.031	187.80	1.53
OTHER EMPHYSEMA (492.8)	0.161	0.063	6.55	1.18
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.294	0.021	190.91	1.34
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.280	0.048	33.57	1.32
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.150	0.047	10.00	1.16
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.303	0.038	62.77	1.36
LUMBOSACRAL SPONDYLOSIS WITHOUT MYELOPATHY (721.3)	0.049	0.018	7.57	1.05
DEGENERATION OF LUMBAR OR LUMBOSACRAL INTERVERTEBRAL DISC (722.52)	0.074	0.016	21.16	1.08

Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, THORACIC REGION (722.72)	0.184	0.087	4.49	1.20
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, LUMBAR REGION (722.73)	0.150	0.061	5.95	1.16
OTHER AND UNSPECIFIED DISC DISORDER OF LUMBAR REGION (722.93)	0.158	0.064	6.13	1.17
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.258	0.046	32.02	1.29
KYPHOSIS (ACQUIRED) (POSTURAL) (737.10)	0.094	0.045	4.47	1.10
SCOLIOSIS [AND KYPHOSCOLIOSIS], IDIOPATHIC (737.30)	0.175	0.023	57.59	1.19
OTHER KYPHOSCOLIOSIS AND SCOLIOSIS (737.39)	0.243	0.035	47.46	1.28
SCOLIOSIS ASSOCIATED WITH OTHER CONDITIONS (737.43)	0.336	0.060	31.16	1.40
RETENTION OF URINE, UNSPECIFIED (788.20)	0.191	0.048	15.95	1.21
CLOSED FRACTURE OF SECOND CERVICAL VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY (805.02)	0.476	0.080	34.93	1.61
CLOSED FRACTURE OF DORSAL [THORACIC] VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY (805.2)	0.299	0.057	27.33	1.35
CLOSED FRACTURE OF LUMBAR VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY (805.4)	0.183	0.050	13.37	1.20
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.315	0.076	17.16	1.37
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.536	0.042	161.84	1.71
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.611	0.084	52.84	1.84
PULMONARY HYPERTENSION (Multiple)	0.694	0.047	214.13	2.00
CARDIOMYOPATHY (Multiple)	0.362	0.050	52.75	1.44
NARROWING OF CEREBRAL ARTERY (Multiple)	0.318	0.054	35.41	1.38
CHRONIC BRONCHITIS (Multiple)	0.752	0.069	119.25	2.12
ASTHMA (Multiple)	0.080	0.023	11.93	1.08
HYPERPLASIA OF PROSTATE (Multiple)	0.229	0.022	112.43	1.26
MALNUTRITION (Multiple)	1.058	0.055	374.29	2.88
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.277	0.037	54.98	1.32
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.118	0.032	13.33	1.13
DEHYDRATION (Multiple)	0.676	0.069	96.81	1.97
CHRONIC ANEMIA (Multiple)	0.223	0.046	23.60	1.25
DYSPHAGIA (Multiple)	0.871	0.049	311.24	2.39
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.308	0.059	26.93	1.36
BODY MASS INDEX 40 AND OVER (Multiple)	0.455	0.028	270.71	1.58
BODY MASS INDEX 30-39 (Multiple)	0.136	0.020	45.25	1.15
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL (03.09)	0.162	0.018	79.29	1.18
REPAIR OF VERTEBRAL FRACTURE (03.53)	0.543	0.041	172.95	1.72
EXCISION OF BONE FOR GRAFT, UNSPECIFIED SITE (77.70)	0.074	0.030	5.89	1.08
EXCISION OF OTHER BONE FOR GRAFT (77.79)	0.105	0.013	63.65	1.11
SPINAL FUSION, NOT OTHERWISE SPECIFIED (81.00)	0.172	0.076	5.15	1.19
OTHER CERVICAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.02)	-0.266	0.022	152.97	0.77
OTHER CERVICAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.03)	0.335	0.025	174.08	1.40

Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
DORSAL AND DORSOLUMBAR FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.04)	1.096	0.066	278.76	2.99
DORSAL AND DORSOLUMBAR FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.05)	0.470	0.031	232.44	1.60
LUMBAR AND LUMBOSACRAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.06)	0.386	0.022	315.26	1.47
LUMBAR AND LUMBOSACRAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.07)	0.152	0.017	81.39	1.16
FUSION OR REFUSION OF 4-8 VERTEBRAE (81.63)	0.338	0.015	489.39	1.40
TRANSFUSION OF PREVIOUSLY COLLECTED AUTOLOGOUS BLOOD (99.02)	0.205	0.090	5.13	1.23
TRANSFUSION OF PACKED CELLS (99.04)	0.900	0.017	2711.15	2.46
Facility POA Percent	0.419	0.063	44.21	1.52
Intercept	-3.336	0.056	3511.63	0.04

Total Knee Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Admit Source: Transfer From Hospital	0.360	0.088	16.79	1.43
Admit Source: Transfer From Other Healthcare Facility	0.362	0.155	5.47	1.44
Admit Source: Transfer From Skilled Nursing Facility	0.297	0.094	9.95	1.35
Age 70 To 74	0.137	0.011	148.55	1.15
Age 75 To 79	0.332	0.012	808.31	1.39
Age 80 To 84	0.522	0.013	1598.44	1.69
Age 85 To 89	0.658	0.018	1388.13	1.93
Age 90 And Over	0.824	0.037	488.04	2.28
Sex = Female	-0.208	0.009	505.75	0.81
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.112	0.010	132.13	1.12
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.630	0.040	247.65	1.88
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.218	0.041	28.75	1.24
HYPERPOTASSEMIA (276.7)	0.781	0.045	302.31	2.18
HYPOPOTASSEMIA (276.8)	0.310	0.034	82.82	1.36
ANEMIA, UNSPECIFIED (285.9)	0.067	0.019	12.80	1.07
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.444	0.030	225.86	1.56
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.633	0.051	153.21	1.88
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.178	0.013	179.09	1.20
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.300	0.013	535.80	1.35
ALZHEIMER'S DISEASE (331.0)	0.392	0.056	49.79	1.48
PARALYSIS AGITANS (332.0)	0.260	0.040	42.82	1.30
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.248	0.044	31.78	1.28
UNSPECIFIED IDIOPATHIC PERIPHERAL NEUROPATHY (356.9)	0.093	0.027	12.02	1.10
POLYNEUROPATHY IN DIABETES (357.2)	0.313	0.029	115.07	1.37

Total Knee Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.190	0.017	131.18	1.21
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.237	0.011	434.89	1.27
MITRAL VALVE DISORDERS (424.0)	0.108	0.026	17.08	1.12
AORTIC VALVE DISORDERS (424.1)	0.311	0.028	126.45	1.36
FIRST DEGREE ATRIOVENTRICULAR BLOCK (426.11)	0.111	0.047	5.68	1.12
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.266	0.043	38.62	1.30
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.175	0.038	21.33	1.19
ATRIAL FIBRILLATION (427.31)	0.117	0.013	78.63	1.12
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.479	0.020	552.41	1.61
OTHER EMPHYSEMA (492.8)	0.342	0.047	52.72	1.41
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.304	0.015	389.28	1.36
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.3)	0.193	0.025	59.95	1.21
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.279	0.028	101.50	1.32
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.233	0.028	69.01	1.26
OSTEOARTHRISIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE (715.90)	0.089	0.035	6.54	1.09
OSTEOARTHRISIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, LOWER LEG (715.96)	0.056	0.011	28.04	1.06
OSTEOPOROSIS, UNSPECIFIED (733.00)	0.037	0.017	4.89	1.04
HEART VALVE REPLACED BY OTHER MEANS (V43.3)	0.165	0.037	19.42	1.18
NON-MALIGNANT HYPERTENSION (Multiple)	0.062	0.010	38.86	1.06
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.473	0.043	118.95	1.60
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.769	0.026	907.63	2.16
PULMONARY HYPERTENSION (Multiple)	0.882	0.027	1041.50	2.42
CARDIOMYOPATHY (Multiple)	0.314	0.031	102.39	1.37
NARROWING OF CEREBRAL ARTERY (Multiple)	0.210	0.039	29.72	1.23
CHRONIC BRONCHITIS (Multiple)	0.739	0.051	205.74	2.09
ASTHMA (Multiple)	0.061	0.015	17.69	1.06
HYPERPLASIA OF PROSTATE (Multiple)	0.185	0.014	164.57	1.20
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.166	0.024	46.83	1.18
CHRONIC ANEMIA (Multiple)	0.266	0.027	97.17	1.30
CHRONIC SYSTOLIC HEART FAILURE (Multiple)	0.162	0.051	10.05	1.18
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.192	0.038	26.05	1.21
BODY MASS INDEX 40 AND OVER (Multiple)	0.439	0.014	947.09	1.55
BODY MASS INDEX 30-39 (Multiple)	0.096	0.011	72.45	1.10
Bi-lateral Knee Replacement (Custom Logic)	0.633	0.018	1217.30	1.88
Facility POA Percent	0.363	0.036	104.27	1.44
Intercept	-3.467	0.031	12481.64	0.03

Transurethral Prostate Resection Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Wald	Odds Ratio
Age 70 To 74	0.106	0.042	6.34	1.11
Age 75 To 79	0.208	0.041	26.05	1.23
Age 80 To 84	0.300	0.041	53.89	1.35
Age 85 To 89	0.416	0.043	91.67	1.52
Age 90 And Over	0.542	0.052	106.64	1.72
HYPOSOLALITY AND/OR HYPONATREMIA (276.1)	0.499	0.053	87.46	1.65
HYPERPOTASSEMIA (276.7)	0.230	0.066	12.34	1.26
HYPOPOTASSEMIA (276.8)	0.149	0.075	3.91	1.16
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.848	0.299	8.03	2.34
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.487	0.068	50.56	1.63
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.156	0.054	8.18	1.17
ALZHEIMER'S DISEASE (331.0)	0.456	0.067	46.07	1.58
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.100	0.029	11.73	1.11
MITRAL VALVE DISORDERS (424.0)	0.381	0.075	25.70	1.46
AORTIC VALVE DISORDERS (424.1)	0.316	0.073	19.01	1.37
ATRIAL FLUTTER (427.32)	0.392	0.106	13.76	1.48
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.407	0.040	104.75	1.50
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.405	0.099	16.68	1.50
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	1.889	0.379	24.83	6.61
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.399	0.065	37.93	1.49
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.502	0.084	35.85	1.65
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.273	0.060	20.80	1.31
HYDRONEPHROSIS (591)	0.442	0.039	126.41	1.56
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.281	0.032	77.43	1.32
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.370	0.133	7.67	1.45
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.227	0.057	16.10	1.26
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.711	0.094	57.58	2.04
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.359	0.070	26.39	1.43
CARDIOMYOPATHY (Multiple)	0.459	0.061	57.24	1.58
CHRONIC BRONCHITIS (Multiple)	0.566	0.086	43.29	1.76
MALNUTRITION (Multiple)	0.725	0.069	109.32	2.06
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.176	0.055	10.42	1.19
DEHYDRATION (Multiple)	0.362	0.062	33.75	1.44
CHRONIC ANEMIA (Multiple)	0.343	0.054	40.04	1.41
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.537	0.118	20.81	1.71
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.564	0.137	16.83	1.76
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.187	0.084	4.93	1.21
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.635	0.198	10.32	1.89
BODY MASS INDEX 40 AND OVER (Multiple)	0.412	0.082	25.29	1.51
TRANSURETHRAL (ULTRASOUND) GUIDED LASER INDUCED PROSTATECTOMY (TULIP) (60.21)	0.086	0.031	7.72	1.09
Facility POA Percent	0.013	0.104	0.02	1.01
Intercept	-2.897	0.093	979.78	0.06

Appendix F. Model Fit Statistics

# Cohort	In-hospital			In-hospital + 30 days		
	c-stat	Lower CI	Upper CI	c-stat	Lower CI	Upper CI
Appendectomy	0.777	0.770	0.773	Not evaluated at 30 days		
Coronary Bypass Surgery	0.814	0.801	0.808	0.784	0.772	0.778
Valve Replacement	0.784	0.773	0.779	0.756	0.745	0.751
Coronary Interventional Procedures	0.910	0.905	0.908	0.871	0.866	0.869
Heart Attack (stent available)	0.884	0.880	0.882	0.853	0.850	0.852
Heart Attack (stent not available)	0.841	0.832	0.836	0.795	0.787	0.791
Heart Failure	0.861	0.858	0.860	0.776	0.774	0.775
Pacemaker	0.736	0.731	0.734	Not evaluated at 30 days		
Defibrillator	0.742	0.733	0.738	Not evaluated at 30 days		
Chronic Obstructive Pulmonary Disease	0.837	0.831	0.834	0.763	0.759	0.761
Pneumonia	0.829	0.825	0.827	0.787	0.784	0.785
Total Knee Replacement Surgery	0.686	0.680	0.683	Not evaluated at 30 days		
Total Hip Replacement Surgery	0.672	0.668	0.670	Not evaluated at 30 days		
Hip Fracture Treatment	0.698	0.695	0.696	Not evaluated at 30 days		
Back and Neck (non-fusion) Surgery	0.738	0.729	0.733	Not evaluated at 30 days		
Spinal Fusion Surgery	0.740	0.735	0.737	Not evaluated at 30 days		
Stroke	0.903	0.900	0.902	0.859	0.856	0.858
Neurosurgery	0.919	0.912	0.916	0.870	0.861	0.866
Resection/Replacement of Abdominal Aorta	0.769	0.759	0.764	Not evaluated at 30 days		
Carotid Surgery	0.685	0.677	0.681	Not evaluated at 30 days		
Peripheral Vascular Bypass	0.705	0.694	0.699	Not evaluated at 30 days		
Transurethral Resection of Prostate	0.682	0.670	0.676	Not evaluated at 30 days		
Prostate Removal	0.679	0.664	0.672	Not evaluated at 30 days		
Bowel Obstruction	0.868	0.861	0.864	0.833	0.827	0.830
GI Bleed	0.851	0.844	0.848	0.799	0.794	0.797
Pancreatitis	0.849	0.834	0.841	0.826	0.814	0.820
Gallbladder Surgery	0.712	0.708	0.710	Not evaluated at 30 days		
Esophageal/Stomach Surgeries	0.823	0.816	0.819	0.793	0.789	0.791
Small Intestine Surgeries	0.846	0.837	0.842	0.844	0.837	0.840
Colorectal Surgeries	0.895	0.890	0.892	0.883	0.878	0.880
Pulmonary Embolism	0.867	0.857	0.862	0.832	0.824	0.828
Diabetic Emergency	0.856	0.839	0.847	0.785	0.774	0.779
Sepsis	0.866	0.863	0.865	0.826	0.823	0.824
Respiratory Failure	0.857	0.856	0.856	0.834	0.833	0.834

Appendix G. Methodology Enhancements for 2015 Ratings Models

Healthgrades made the following improvements to cohorts for the 2015 award year:

- Carotid Surgery
 - Removed as inclusion: 38.74 [ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S)]
- Hip Fracture Treatment
 - Removed as exclusionary criteria (i.e., now included in cohort): 81.51 (TOTAL HIP REPLACEMENT)
- Spinal Fusion
 - Removed as inclusion and added as exclusion: 81.01 (ATLAS-AXIS Spinal Fusion)
 - Added as exclusion: 81.64 (FUSION OR REFUSION OF 9 OR MORE VERTEBRAE)
- Valve Surgery
 - Added as an inclusion: 35.05 (ENDOVASCULAR REPLACEMENT OF AORTIC VALVE)
 - Added as an inclusion: 35.06 (TRANSAPICAL REPLACEMENT OF AORTIC VALVE)

Appendix H. Hospital Ratings Removal Policy

Effective Date: August 16, 2013

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.