Healthgrades
Mortality and Complications Outcomes
2017 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 32 common conditions and procedures (cohorts), plus two cohorts using all-payer data. The Healthgrades methodology uses multivariate logistic regression to risk adjust for patient demographic and clinical risk factors that influence patient outcomes in significant and systematic ways.

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

Individual risk models are constructed and tailored for each of the 34 conditions or procedures relative to each specific outcome. Model clinical outcomes reflect clinical-based measures of patient status during and after care (during the episode of care in a hospital stay) and include: in-hospital complications, in-hospital mortality, and 30-day post-admission mortality. In cases where Medicare data does not adequately represent the population with a specific condition or having a specific procedure, such as appendectomy and bariatric surgery, Healthgrades evaluated hospitals using all-payer data from 18 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 2013 through 2015. The MedPAR data was selected for several reasons:
  - Almost every hospital in the country is included in the database, with the exception of military and Veterans Administration hospitals.
  - Accuracy is regulated. Hospitals are required by law to submit complete and accurate information for fee-for-service Medicare patient hospital care with substantial penalties for those that report inaccurate or incomplete data.
  - The Medicare population represents a majority of the patients for virtually all of the clinical categories studied.
- Inpatient data for the appendectomy and bariatric surgery cohorts were provided by 18 states that provide all-payer state data (AZ, CO, FL, IL, IA, MD, NV, NJ, NY, OR, PA, RI, TN, TX, UT, VA, WA and WI) for years 2012 through 2014 (one year behind MedPAR data years). Since the appendectomy and bariatric surgery cohorts include 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 and bariatric surgery cohorts were based exclusively on state data from years 2012 through 2014.

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 MedPAR 2013-2015 and all-payer 2012-2014 analysis, depending on the cohort. Patient records were identified for exclusion because, for example, they were determined to be miscoded or were otherwise inappropriate for inclusion in the data sets used for analyses.

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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 in-hospital recovery).
- Patients who were still in the hospital when the claim was filed.
- Patients with an invalid gender (e.g., a prostatectomy related to a female patient).
- Patient with an invalid age.
- 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 34 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 449 rated for bariatric surgery to a high of 4,160 rated for pneumonia.

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

For 15 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 15 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.

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Table 1. Mortality and Complication Cohorts

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

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 2015 MedPAR file layout document* and how they were used by Healthgrades in determining in-hospital complications in the current 2017 award year analyses. These indicators are identical to those in the all-payer state data file.

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Table 2. Present On Admission Indicators

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

* MedPAR Limited Data Set – Hospital (National) File Layout. Also known as, Expanded Modified MedPAR File Layout. April 2015. Available from the Centers for Medicare and Medicaid Services. www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/LimitedDataSets/Downloads/2015_MedPAR_Version_R2K_Layout.zip

Diagnosis Records With Unknown or Empty POA Indicator

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

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

Healthgrades does not require the presence of a postoperative complication code for diagnoses that were clearly hospital-acquired (e.g., 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

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

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

Statistically Significant Risk Factors

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

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

Appendix D lists the coefficient summary table for each of the 19 mortality-based cohorts. *Appendix E* lists the coefficient summary table for each of the 15 complication-based cohorts. Included in the summary tables are the risk factor descriptions, the model coefficients, standard errors, Z-Statistics, and Odds Ratios.

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

Model Coefficient Summary and Fit Statistics Tables

(See *Appendix D* and *Appendix E* for coefficient summary tables for 34 logistic regression models. For each model, tables include the following items:

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

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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 34 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.

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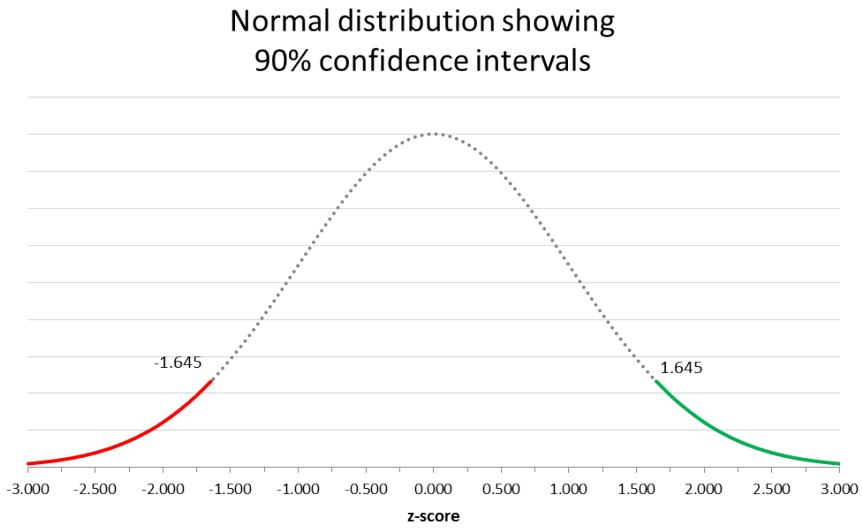

Limitations of the Data Models

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.

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Appendix A. Patient Cohort Definitions

Appendectomy

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

Bariatric Surgery

Cohort	Inclusions	Notable Exclusions
Bariatric Surgery	• Diagnosis of obesity or morbid obesity • Open and laparoscopic gastric bypass, banding, or restriction	• Metastatic cancers • Patients undergoing non-bariatric (not for weight loss) GI procedure

Cardiac Service Line

Cohort	Inclusions	Notable Exclusions
Coronary Artery Bypass Graft (CABG) Surgery (Isolated) First Listed Procedure May have a PCI in this stay Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Coronary bypass for cardiac revascularization with: internal mammary artery or vein • One or more vessels	• Cases with accompanying: o Valve repair and replacement, including catheter-based valve procedures o Aortic aneurysm repair o Carotid endarterectomy
Coronary Interventional Procedures (PCI) - Inpatient First Listed Procedure is PCI or Principal Procedure of Intra-aortic balloon pump with PCI in a subsequent coded position Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Removal of coronary artery obstruction • Single or multi-vessel • Atherectomy or balloon angioplasty with or without thrombolytic agent • Stent may be bare metal or drug eluting	• CABG or valve surgery during the same stay

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Cardiac Service Line (continued)

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

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Critical Care Service Line

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

Sepsis
First Listed Diagnosis
Evaluated on mortality rates at two time periods:
• In-hospital
• Within 30 days of admission
	• Sepsis
	  o Bacterial
	  o Fungal
	  o Viral
	  o Unspecified organism
	• Severe Sepsis
	• Septic Shock
		• Metastatic cancers
		• Left ventricular assist device (V43.21)
		• Patients discharged alive with a length of stay < 1 day
		• Discharge to hospice

Gastrointestinal Service Line

Cohort	Inclusions	Notable Exclusions
Bowel Obstruction First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Pyloric stenosis • Gastrojejunal ulcer with obstruction • Intestinal obstruction without hernia • Duodenal ulcer with obstruction • Other obstruction of duodenum • Hernia with obstruction • Gallstone ileus • Intussusception	• Metastatic cancers • Left ventricular assist device (V43.21) • Discharge to hospice • Patients deceased with a length of stay <1 day
Colorectal Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Resection of Colon • Resection of Rectum • Hemicolectomy (Open and laparoscopic) • Sigmoidectomy (Open and laparoscopic) • Cecectomy (Open and laparoscopic) • Large-to-Large intestine anastomosis • Colostomy procedure	• Metastatic cancers

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Gastrointestinal Service Line (continued)

Esophageal/Stomach Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Gastrostomy • Gastrectomy • Procedures for control of bleeding • Sutures of ulcer sites • Vagotomy • Repairs of stomach or esophagus	• Metastatic cancers • Patients undergoing a bariatric (weight-loss) procedure
Gallbladder Removal Surgery (Cholecystectomy) First Listed Procedure Evaluated on in-hospital complication rates	• Open or laparoscopic • Partial	• Does not include primary procedure of gallbladder stenting
Gastrointestinal Bleed First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Bleeding/hemorrhage from any of the following: o Esophageal varices o Esophageal ulcer o Gastric ulcer o Duodenal ulcer o Peptic ulcer o Gastrojejunal ulcer o Gastritis or duodenitis o Angiodysplasia of stomach and duodenum o Diverticulosis o Rectum or anus o Dieulafoy lesion of intestine • Hematemesis • Melena • Hemorrhage of GI tract, unspecified	• Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice • Patients deceased with a length of stay <1 day
Small Intestine Surgeries First Listed Procedure Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Resection of small intestine • Small to small intestine anastomosis • Closure of stoma of small intestine • Suture of small intestine laceration	• Metastatic cancers • Patients undergoing a bariatric (weight-loss) procedure
Pancreatitis First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Acute • Chronic	• Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice

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Neurosciences Service Line

Cohort	Inclusions	Notable Exclusions

Cranial Neurosurgery
First Listed Procedure
Evaluated on mortality rates at two time periods:
• In-hospital
• Within 30 days of admission
	• Intracranial vascular procedures for hemorrhage:
	  o Aneurysm repairs
	  o Clippings
	  o Coilings
	  o Intracranial angioplasties
	• Craniotomies
	• Ventricular shunts
		• Head trauma
		• Patients deceased with a length of stay <1 day
		• Discharge to hospice

Stroke First Listed Diagnosis Evaluated on mortality rates at two time periods: • In-hospital • Within 30 days of admission	• Subarachnoid hemorrhage • Intracerebral hemorrhage • Intracranial hemorrhage, unspecified • Occlusion and stenosis of basilar, carotid, or vertebral artery • Cerebral thrombosis, embolism, or occlusion	• Hospitals transferring more than 10% of their population • Subdural bleeds • Extradural bleeds • Patients deceased with a length of stay <1 day • Patients discharged alive with a length of stay < 1 day • Metastatic cancers • Left ventricular assist device (V43.21) • Respirator-dependent status (V46.11) • Discharge to hospice

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Orthopedic Service Line

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

Prostatectomy

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

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Pulmonary Service Line

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

Pneumonia
First Listed Diagnosis
Evaluated on mortality rates at two time periods:
• In-hospital
• Within 30 days of admission
	• Pneumonia
	  o Bacterial
	  o Fungal
	  o Viral
	  o Unspecified organism
		• Respirator-dependent status (V46.11)
		• Metastatic cancers
		• Left ventricular assist device (V43.21)
		• SARS-related
		• Discharge to hospice

Spine Surgery Service Line

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

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Vascular Service Line

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

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

Abdominal Aortic Aneurysm Repair	
	Inclusions
	Procedure (First listed): 38.34, 38.44, 39.71
	Exclusions
	Procedure (Any position): 00.61, 33.50, 33.51, 33.52, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.08, 38.16, 38.18, 38.36, 38.45, 38.64, 39.59, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Procedure (Other than first listed): 38.34, 38.44
	Diagnosis (Any position): 441.00, 441.01, 441.02, 441.03, 441.1, 441.2, 441.3, 441.5, 441.6, 441.7, 441.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Appendectomy	
	Inclusions
	Procedure (First listed): 47.01, 47.09, 47.2
	Exclusions
	Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63
	Procedure (Other than first listed): 33.50, 33.51, 33.52, 33.6, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Back and Neck Surgeries (Without Spinal Fusion)	
	Inclusions
	Procedure and Diagnosis Related Group Combination: Procedure (First listed): 80.51, 03.09, 03.53, 84.59, 84.62, 84.63, 84.64, 84.65, 84.80, 84.82, 80.50, 80.59, 84.61, 84.84, 84.60 AND One of the following DRGs: 28, 29, 30, 490, 491, 518, 519, 520
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.49, 78.69, 81.00, 81.01, 81.02, 81.03, 81.04, 81.05, 81.06, 81.07, 81.08, 81.30, 81.31, 81.32, 81.33, 81.34, 81.35, 81.36, 81.37, 81.38, 81.39, 81.61, 81.62, 81.63, 81.64, 84.66, 84.67, 84.68, 84.69, 84.81, 84.83, 84.85
	Diagnosis (Any position): 170.2, 170.6, 192.2, 192.3, 192.9, 198.3, 198.4, 198.5, 213.2, 213.6, 215.6, 215.7, 215.8, 215.9, 225.2, 225.3, 225.4, 225.8, 225.9, 237.5, 237.6, 237.9, 239.2, 239.6, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V54.01, V54.09
	Diagnosis (First listed): 344.60, 344.61, 952.0, 952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09, 952.1, 952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19, 952.2, 952.3, 952.4, 952.8, 952.9, 996.42, 996.43, 996.47, 996.49, 996.78
	Diagnosis and Procedure Combination: Procedure (Any position): 03.02 AND One of the following diagnoses (Any position): 722.80, 722.81, 722.82, 722.83

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Bariatric Surgery
Inclusions
Principal Procedures: 43.7,43.82, 43.89, 44.31, 44.38, 44.39, 44.68, 44.69 or 44.95; OR 45.51 as the principal procedure and both 43.89 and 45.91 as secondary procedures OR 45.91 as the principal procedure and both 43.89 and 45.51 as secondary procedures Principal Diagnoses: 278.00, 278.01
Exclusions
Procedure (Any position): 44.5, 44.94, 44.96, 44.97 Diagnosis (Any position141.9, 150.0, 150.1, 150.2, 150.3, 150.4, 150.5, 150.8, 150.9, 151.0, 151.1, 151.2, 151.3, 151.4, 151.5, 151.6, 151.8, 151.9, 152.0, 152.1, 152.2, 152.3, 152.8, 152.9, 153.0, 153.1, 153.2, 153.3, 153.4, 153.5, 153.6, 153.7, 153.8, 153.9, 154.0, 154.1, 154.2, 154.3, 154.8, 155.0, 155.1, 155.2, 156.0, 156.1, 156.2, 156.8, 156.9, 157.0, 157.1, 157.2, 157.3, 157.4, 157.8, 157.9, 158.0, 158.8, 158.9, 159.0, 159.1, 159.8, 159.9, 161.9, 162.9, 171.5, 171.8, 195.0, 195.2, 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, 199.0, 200.00, 200.03, 200.08, 202.00, 202.01, 202.03, 202.05, 202.80, 202.83, 203.00, 203.02, 203.12, 203.80, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.10, 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, 211.1, 211.2, 211.3, 211.5, 211.6, 211.8, 211.9, 214.3, 215.5, 228.04, 228.1, 230.2, 230.7, 230.9, 235.2, 235.4, 235.5, 238.1, 239.0, 239.2, 239.8, 530.83, 530.84, 530.86, 530.87, 531.00, 531.01, 531.10, 531.11, 531.20, 531.21, 531.31, 531.40, 531.41, 531.50, 531.51, 531.60, 531.61, 531.71, 531.91, 532.00, 532.01, 532.10, 532.11, 532.20, 532.21, 532.31, 532.40, 532.41, 532.50, 532.51, 532.60, 532.61, 532.71, 532.91, 533.00, 533.01, 533.10, 533.11, 533.20, 533.21, 533.31, 533.40, 533.41, 533.50, 533.51, 533.60, 533.61, 533.71, 533.91, 534.00, 534.01, 534.10, 534.11, 534.20, 534.21, 534.31, 534.40, 534.41, 534.50, 534.51, 534.60, 534.61, 534.71, 534.91, 535.0, 535.00, 535.01, 535.1, 535.10, 535.11, 535.20, 535.21, 535.30, 535.31, 535.40, 535.41, 535.50, 535.51, 535.60, 535.61, 536.0, 536.1, 536.2, 536.40, 536.41, 536.42, 536.49, 536.8, 536.9, 537.0, 537.1, 537.2, 537.3, 537.4, 537.5, 537.6, 537.81, 537.82, 537.83, 537.84, 537.89, 537.9, 552.1, 552.21, 555.0, 555.1, 555.2, 555.9, 558.1, 558.2, 558.3, 558.9, 562.02, 562.03, 564.81, 564.89, 564.9, 569.5, 569.81, 569.82, 569.83, 569.84, 569.85, 569.86, 569.89, 569.9, 751.0, 751.1, 751.2, 751.3, 751.4, 751.5, 751.60, 751.61, 751.62, 751.69, 751.7, 751.8, 751.9, 996.8, 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

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Bowel Obstruction
Inclusions
Diagnosis (First listed): 531.01, 531.21, 531.31, 531.41, 531.51, 531.61, 531.71, 531.91, 532.01, 532.11, 532.21, 532.31, 532.41, 532.51, 532.61, 532.71, 532.91, 534.01, 534.11, 534.21, 534.31, 534.41, 534.51, 534.61, 534.71, 534.91, 537.2, 537.3, 550.10, 550.11, 550.12, 550.13, 552.00, 552.01, 552.02, 552.03, 552.1, 552.20, 552.21, 552.29, 552.8, 552.9, 560.0, 560.1, 560.2, 560.31, 560.39, 560.81, 560.89, 560.9
Exclusions
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21
Diagnosis (Other than first listed): 205.32
Carotid Surgery
Inclusions
Procedure (First listed): 00.61, 00.63, 38.12
Exclusions
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.08, 38.16, 38.18, 38.36, 39.24, 39.25, 39.29, 39.59, 39.90, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Diagnosis (Any position): 432.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Diagnosis (First listed): 430, 431, 432.1
Chronic Obstructive Pulmonary Disease (COPD)
Inclusions
Diagnosis (First listed): 491.1, 491.20, 491.21, 491.22, 491.8, 491.9, 492.0, 492.8, 493.20, 493.21, 493.22, 494.0, 494.1, 496
Exclusions
Procedure (Any position): 33.51, 33.52, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63
Procedure (First listed): 33.50, 33.6, 50.51, 50.59, 52.80, 52.82, 52.84, 55.61, 55.69
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 480.3, 480.8, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11
Diagnosis (First listed): 205.32

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Colorectal Surgeries

Inclusions

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

Exclusions

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

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

Coronary Artery Bypass Surgery (CABG) Surgery

Inclusions

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

Exclusions

Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 35.33, 35.55, 35.96, 35.97, 36.31, 36.32, 36.33, 36.34, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 38.12, 38.34, 38.44, 38.45, 38.64, 39.71, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69

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

Coronary Interventional Procedures

Inclusions

Procedure (Any position): 00.66, 36.07, 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, 39.65, 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

Cranial Neurosurgery (formerly Neurosurgery)

Inclusions

Procedure (First listed): 01.12, 01.14, 01.23, 01.24, 01.25, 01.28, 01.31, 01.39, 01.51, 01.59, 02.02, 02.03, 02.05, 02.06, 02.07, 02.12, 02.2, 02.22, 02.31, 02.32, 02.33, 02.34, 02.39, 02.42, 02.43, 02.93, 04.01, 04.41, 38.11, 38.81

Procedure and Diagnosis Combination: Procedure Code (First listed): 00.62, 39.51, 39.52, 39.53, 39.72, 39.74, 39.75, 39.76, 39.79 AND One of the following diagnoses (First listed): 430, 431, 432.0, 432.1, 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.00, 434.01, 434.10, 434.11, 434.90, 434.91, 437.3

Exclusions

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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

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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, 44.21, 44.22, 44.29, 44.32, 44.38, 44.39, 44.40, 44.41, 44.42, 44.43, 44.44, 44.49, 44.61, 44.62, 44.63, 44.64, 44.65, 44.66, 44.67, 44.69, 44.92, 44.99
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
	Diagnosis (First listed): 278.00, 278.01
Gallbladder Removal Surgery	**(Cholecystectomy)**
	Inclusions
	Procedure (First listed): 51.21, 51.22, 51.23, 51.24
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 52.84, 55.69
	Diagnosis (Any position): 156.0, 197.7, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

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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

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Hip Fracture Treatment
Inclusions
Diagnosis and Diagnosis Related Group Combination: Diagnosis (First listed): 820.8, 820.20, 820.03, 820.21, 820.02, 820.22, 820.00, 820.09 AND One of the following DRGs: 4, 469, 470, 535, 536, 480, 481, 482
Exclusions
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.66, 78.67, 80.05, 80.06, 81.53, 81.54, 81.55
Diagnosis (Any position): 733.15, 733.42, 733.82, 800.61, 800.62, 800.63, 800.64, 800.65, 800.66, 800.69, 820.01, 820.10, 820.11, 820.12, 820.13, 820.19, 820.30, 820.31, 820.32, 820.9, 821.00, 821.01, 821.10, 821.11, 821.20, 821.21, 821.22, 821.23, 821.29, 821.30, 821.31, 821.32, 821.33, 821.39, 996.40, 996.41, 996.42, 996.43, 996.44, 996.45, 996.46, 996.47, 996.49, 996.78, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Hip Replacement
Inclusions
Procedure and Diagnosis Related Group Combination: Procedure (First listed): 81.51, 00.85, 00.86, 00.87 AND One of the following DRGs: 461, 462, 469, 470
Exclusions
Procedure (Any position): 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84, 33.50, 33.51, 33.52, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.67, 80.05, 80.06, 81.53, 81.54, 81.55
Diagnosis (Any position): 733.14, 820.00, 820.02, 820.03, 820.09, 820.20, 820.21, 820.22, 820.8, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V15.5, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V58.43, V58.49
Diagnosis (First listed): 170.6, 170.7, 170.8, 171.3, 996.41, 996.43
Pacemaker Procedures
Inclusions
DRG: 242, 243, 244, 258, 259, 260 ,261, 262
Exclusions
Procedure (Any position): 00.66, 33.50, 33.51, 33.52, 33.6, 36.06, 36.07, 36.09, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Procedure (First listed): 35.10, 35.11, 35.12, 35.13, 35.14, 35.20, 35.21, 35.22, 35.23, 35.24, 35.25, 35.26, 35.27, 35.28, 36.10, 36.11, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 37.62, 37.63
Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Diagnosis (First listed): 414.06, 414.07

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Pancreatitis	
	Inclusions
	Diagnosis (First listed): 577.0, 577.1, 577.2
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11
Peripheral Vascular Bypass	
	Inclusions
	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 Code (First listed): 39.29
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.25, 39.49, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Diagnosis (Any position): 440.31, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
	Diagnosis (First listed): 445.01, 996.74
Pneumonia	
	Inclusions
	Diagnosis (First listed): 481, 482.0, 482.1, 482.2, 482.30, 482.31, 482.32, 482.39, 482.40, 482.41, 482.42, 482.49, 482.81, 482.82, 482.83, 482.84, 482.89, 482.9, 483.0, 483.1, 483.8, 485, 486, 487.0
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.61, 55.69
	Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.32, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 480.3, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11
Prostate Removal Surgery	
	Inclusions
	Procedure (First listed): 60.3, 60.4, 60.5, 60.61, 60.62, 60.69
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.8, 55.69

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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

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Small Intestine Surgeries
Inclusions
Procedure (First listed): 45.01, 45.02, 45.51, 45.61, 45.62, 45.63, 45.91, 45.93, 46.01, 46.02, 46.21, 46.22, 46.23, 46.31, 46.32, 46.39, 46.41, 46.51, 46.71, 46.72, 46.73, 46.74, 46.81
Exclusions
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
Diagnosis (Any position): 196.0, 196.1, 196.2, 196.3, 196.5, 196.6, 196.8, 196.9, 197.0, 197.1, 197.2, 197.3, 197.4, 197.5, 197.6, 197.7, 197.8, 198.0, 198.1, 198.2, 198.3, 198.4, 198.5, 198.6, 198.7, 198.81, 198.82, 198.89, 203.02, 203.12, 203.82, 204.02, 204.12, 204.22, 204.82, 204.92, 205.02, 205.12, 205.22, 205.82, 205.92, 206.02, 206.12, 206.22, 206.82, 206.92, 207.02, 207.12, 207.22, 207.82, 208.02, 208.12, 208.22, 208.82, 208.92, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Diagnosis (First listed): 278.00, 278.01
Spinal Fusion
Inclusions
Procedure and Diagnosis Related Grouping: Procedure (First listed): 81.00, 81.02, 81.03, 81.04, 81.05, 81.06, 81.07, 81.08, 81.61 AND one of the following DRGs: 28, 29, 30, 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, 473
Exclusions
Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.69, 81.01, 81.30, 81.31, 81.32, 81.33, 81.34, 81.35, 81.36, 81.37, 81.38, 81.39, 81.65, 81.66, 84.58, 84.59, 84.60, 84.61, 84.62, 84.63, 84.64, 84.65, 84.66, 84.67, 84.68, 84.69, 84.80, 84.81, 84.82, 84.83, 84.84, 84.85
Procedure (Other than first listed): 81.64
Diagnosis (Any position): 170.2, 170.6, 198.5, 324.1, 324.9, 805.00, 805.01, 805.02, 805.03, 805.04, 805.05, 805.06, 805.07, 805.08, 805.10, 805.11, 805.12, 805.13, 805.14, 805.15, 805.16, 805.17, 805.18, 805.2, 805.3, 805.4, 805.5, 805.6, 805.7, 805.8, 805.9, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V45.4
Diagnosis (First listed): 952.0, 952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09, 952.1, 952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19, 952.2, 952.3, 952.4, 952.8, 952.9, 996.41, 996.42, 996.43
Procedure and Diagnosis Combination: Procedure (Any position): 03.02 AND One of the following diagnoses (Any position): 722.80, 722.81, 722.82, 722.83
Stroke
Inclusions
Diagnosis (First listed): 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

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Total Knee Replacement	
	Inclusions
	Procedure and Diagnosis Related Group Combination: Procedure (First listed): 81.54 AND One of the following DRGs: 461, 462, 469, 470
	Exclusions
	Procedure (Any position): 00.74, 00.75, 00.76, 00.80, 00.81, 00.82, 00.83, 00.84, 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69, 78.65, 78.67, 80.05, 80.06, 81.51, 81.52, 81.53
	Procedure (Other than first listed): 00.85, 00.86, 00.87, 81.55
	Diagnosis (Any position): 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
	Diagnosis (First listed): 170.7, 171.3, 198.5, 996.43
Transurethral Prostate Resection Surgery	
	Inclusions
	Procedure (First listed): 60.21, 60.29
	Exclusions
	Procedure (Any position): 33.50, 33.51, 33.52, 33.6, 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 50.51, 50.59, 52.80, 52.82, 52.83, 55.69
	Diagnosis (Any position): 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9
Valve Surgery	
	Inclusions
	Procedure (Any position): 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

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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	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
39.98	CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	IATROGENIC PNEUMOTHORAX
514	PULMONARY CONGESTION AND HYPOSTASIS
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
54.12	REOPENING OF RECENT LAPAROTOMY SITE
568.81	HEMOPERITONEUM (NONTRAUMATIC)
729.73	NONTRAUMATIC COMPARTMENT SYNDROME OF ABDOMEN
780.01	COMA
785.50	SHOCK, UNSPECIFIED

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785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
957.1	INJURY TO OTHER SPECIFIED NERVE(S)
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.1	MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.74	OTHER COMPLICATIONS DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
997.00	NERVOUS SYSTEM COMPLICATION, UNSPECIFIED
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Abdominal Aortic Aneurysm Repair - Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS, NOT ELSEWHERE CLASSIFIED

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

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Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

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

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

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

Must occur with 997.5 URINARY COMPLICATIONS

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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

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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	DEFIBRINATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
293.1	SUBACUTE DELIRIUM
298.9	UNSPECIFIED PSYCHOSIS
311	DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED
312.9	UNSPECIFIED DISTURBANCE OF CONDUCT
348.30	ENCEPHALOPATHY, UNSPECIFIED
348.31	METABOLIC ENCEPHALOPATHY
348.39	OTHER ENCEPHALOPATHY
349.82	TOXIC ENCEPHALOPATHY
38.95	VENOUS CATHETERIZATION FOR RENAL DIALYSIS
39.95	HEMODIALYSIS
410.70	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, EPISODE OF CARE UNSPECIFIED
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
428.23	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.00	CEREBRAL THROMBOSIS WITHOUT MENTION OF CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.10	CEREBRAL EMBOLISM WITHOUT MENTION OF CEREBRAL INFARCTION
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION
434.90	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITHOUT MENTION OF CEREBRAL INFARCTION
434.91	UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION
444.22	ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY
449	SEPTIC ARTERIAL EMBOLISM
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.8	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
453.83	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UPPER EXTREMITIES, UNSPECIFIED
453.84	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF AXILLARY VEINS
453.85	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF SUBCLAVIAN VEINS
453.86	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF INTERNAL JUGULAR VEINS
453.87	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER THORACIC VEINS
453.89	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS
458.29	OTHER IATROGENIC HYPOTENSION
459.0	HEMORRHAGE, UNSPECIFIED
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
495.9	UNSPECIFIED ALLERGIC ALVEOLITIS AND PNEUMONITIS
512.1	IATROGENIC PNEUMOTHORAX
518.51	ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53	ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
519.09	OTHER TRACHEOSTOMY COMPLICATIONS
54.12	REOPENING OF RECENT LAPAROTOMY SITE

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54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
567.38	OTHER RETROPERITONEAL ABSCESS
567.89	OTHER SPECIFIED PERITONITIS
567.9	UNSPECIFIED PERITONITIS
570	ACUTE AND SUBACUTE NECROSIS OF LIVER
578.9	HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED
707.23	PRESSURE ULCER, STAGE III
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
780.2	SYNCOPE AND COLLAPSE
785.4	GANGRENE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
799.01	ASPHYXIA
799.1	RESPIRATORY ARREST
863.29	INJURY TO OTHER SITE OF SMALL INTESTINE WITHOUT OPEN WOUND INTO CAVITY
864.02	LACERATION OF LIVER, MINOR, WITHOUT MENTION OF OPEN WOUND INTO CAVITY
864.09	OTHER INJURY TO LIVER WITHOUT MENTION OF OPEN WOUND INTO CAVITY
867.1	INJURY TO BLADDER AND URETHRA WITH OPEN WOUND INTO CAVITY
933.1	FOREIGN BODY IN LARYNX
934.0	FOREIGN BODY IN TRACHEA
934.1	FOREIGN BODY IN MAIN BRONCHUS
934.9	FOREIGN BODY IN RESPIRATORY TREE, UNSPECIFIED
935.1	FOREIGN BODY IN ESOPHAGUS
947.3	BURN OF GASTROINTESTINAL TRACT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
997.79	VASCULAR COMPLICATIONS OF OTHER VESSELS
997.91	COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION
997.99	OTHER COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.12	HEMATOMA COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.4	FOREIGN BODY ACCIDENTALLY LEFT DURING A PROCEDURE
998.51	INFECTED POSTOPERATIVE SEROMA
998.59	OTHER POSTOPERATIVE INFECTION
998.6	PERSISTENT POSTOPERATIVE FISTULA
998.7	ACUTE REACTION TO FOREIGN SUBSTANCE ACCIDENTALLY LEFT DURING A PROCEDURE
998.89	OTHER SPECIFIED COMPLICATIONS OF PROCEDURES
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999.80	TRANSFUSION REACTION, UNSPECIFIED
999.83	HEMOLYTIC TRANSFUSION REACTION, INCOMPATIBILITY UNSPECIFIED

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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

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

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

Must occur with 997.5 URINARY COMPLICATIONS

584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS

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

569.83 PERFORATION OF INTESTINE

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

568.81 HEMOPERITONEUM (NONTRAUMATIC)

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION Dependent

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

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

995.92 SEVERE SEPSIS

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

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

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

038.0 STREPTOCOCCAL SEPTICEMIA
038.10 STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19 OTHER STAPHYLOCOCCAL SEPTICEMIA
038.2 PNEUMOCOCCAL SEPTICEMIA
038.3 SEPTICEMIA DUE TO ANAEROBES
038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED
038.41 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI]
038.43 SEPTICEMIA DUE TO PSEUDOMONAS
038.44 SEPTICEMIA DUE TO SERRATIA
038.49 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS
038.8 OTHER SPECIFIED SEPTICEMIAS
038.9 UNSPECIFIED SEPTICEMIA
286.6 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

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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

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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

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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

Must occur with 997.1 CARDIAC COMPLICATIONS

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

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

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

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

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

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

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Bariatric Surgery – 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
041.00	BACTERIAL INFECTION DUE TO UNSPECIFIED STREPTOCOCCUS
041.4	ESCHERICHIA COLI [E. COLI] INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.9	BACTERIAL INFECTION, UNSPECIFIED, 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
293.1	SUBACUTE DELIRIUM
298.9	UNSPECIFIED PSYCHOSIS
342.90	UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE
348.30	ENCEPHALOPATHY, UNSPECIFIED
348.31	METABOLIC ENCEPHALOPATHY
348.39	OTHER ENCEPHALOPATHY
349.82	TOXIC ENCEPHALOPATHY
354.3	LESION OF RADIAL NERVE
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
410.70	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, EPISODE OF CARE UNSPECIFIED
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
427.0	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
427.1	PAROXYSMAL VENTRICULAR TACHYCARDIA
427.31	ATRIAL FIBRILLATION
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
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
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

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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
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
495.9	UNSPECIFIED ALLERGIC ALVEOLITIS AND PNEUMONITIS
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
519.09	OTHER TRACHEOSTOMY COMPLICATIONS
537.4	FISTULA OF STOMACH OR DUODENUM
539.01	INFECTION DUE TO GASTRIC BAND PROCEDURE
539.09	OTHER COMPLICATIONS OF GASTRIC BAND PROCEDURE
539.81	INFECTION DUE TO OTHER BARIATRIC PROCEDURE
539.89	OTHER COMPLICATIONS OF OTHER BARIATRIC PROCEDURE
560.0	INTUSSUSCEPTION
560.2	VOLVULUS
560.81	INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION)
560.89	OTHER SPECIFIED INTESTINAL OBSTRUCTION

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560.9	UNSPECIFIED INTESTINAL OBSTRUCTION
567.22	PERITONEAL ABSCESS
567.29	OTHER SUPPURATIVE PERITONITIS
567.38	OTHER RETROPERITONEAL ABSCESS
567.89	OTHER SPECIFIED PERITONITIS
567.9	UNSPECIFIED PERITONITIS
568.81	HEMOPERITONEUM (NONTRAUMATIC)
568.9	UNSPECIFIED DISORDER OF PERITONEUM
569.79	OTHER COMPLICATIONS OF INTESTINAL POUCH
570	ACUTE AND SUBACUTE NECROSIS OF LIVER
578.9	HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED
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
682.2	CELLULITIS AND ABSCESS OF TRUNK
707.23	PRESSURE ULCER, STAGE III
707.24	PRESSURE ULCER, STAGE IV
707.25	PRESSURE ULCER, UNSTAGEABLE
780.2	SYNCOPE AND COLLAPSE
785.4	GANGRENE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
790.7	BACTEREMIA
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
865.02	CAPSULAR TEARS TO SPLEEN, WITHOUT MAJOR DISRUPTION OF PARENCHYMA, 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
955.1	INJURY TO MEDIAN NERVE
959.09	INJURY OF FACE AND NECK
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
996.76	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

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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
31.1	TEMPORARY TRACHEOSTOMY
31.29	OTHER PERMANENT TRACHEOSTOMY
38.95	VENOUS CATHETERIZATION FOR RENAL DIALYSIS
39.95	HEMODIALYSIS
41.2	SPLENOTOMY
41.43	PARTIAL SPLENECTOMY
41.5	TOTAL SPLENECTOMY
41.95	REPAIR AND PLASTIC OPERATIONS ON SPLEEN
44.61	SUTURE OF LACERATION OF STOMACH
54.12	REOPENING OF RECENT LAPAROTOMY SITE
54.19	OTHER LAPAROTOMY
54.61	RECLOSURE OF POSTOPERATIVE DISRUPTION OF ABDOMINAL WALL
54.91	PERCUTANEOUS ABDOMINAL DRAINAGE
54.92	REMOVAL OF FOREIGN BODY FROM PERITONEAL CAVITY

Bariatric Surgery – Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS, NOT ELSEWHERE CLASSIFIED

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

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

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

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

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

568.81 HEMOPERITONEUM

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

682.2 CELLULITIS AND ABSCESS OF TRUNK
785.52 SEPTIC SHOCK
790.7 BACTEREMIA

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 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
39.98 CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.51 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11 IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12 SEPTIC PULMONARY EMBOLISM
415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
423.3 CARDIAC TAMPONADE
427.41 VENTRICULAR FIBRILLATION
427.5 CARDIAC ARREST
430 SUBARACHNOID HEMORRHAGE
431 INTRACEREBRAL HEMORRHAGE
432.1 SUBDURAL HEMORRHAGE
434.01 CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449 SEPTIC ARTERIAL EMBOLISM
453.40 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0 PNEUMONIA DUE TO ADENOVIRUS
480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2 PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1 PNEUMONIA DUE TO PSEUDOMONAS
482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49 OTHER STAPHYLOCOCCUS PNEUMONIA

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

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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

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Defibrillator Procedures – Independent Complications

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

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

Defibrillator Procedures – Dependent Complications

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

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

Must occur with 997.1 CARDIAC COMPLICATIONS

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

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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

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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
868.02	INJURY TO BILE DUCT AND GALLBLADDER WITHOUT MENTION OF OPEN WOUND INTO CAVITY
996.62	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.76	OTHER COMPLICATIONS DUE TO GENITOURINARY DEVICE, IMPLANT, AND GRAFT
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER

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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

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482.89 PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9 BACTERIAL PNEUMONIA, UNSPECIFIED
483.0 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1 PNEUMONIA DUE TO CHLAMYDIA
483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.3 PNEUMONIA IN WHOOPING COUGH
484.6 PNEUMONIA IN ASPERGILLOSIS
484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486 PNEUMONIA, ORGANISM UNSPECIFIED
507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS

Must occur with 997.5 URINARY COMPLICATIONS

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

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

569.83 PERFORATION OF INTESTINE

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

568.81 HEMOPERITONEUM (NONTRAUMATIC)

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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

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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

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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

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483.1 PNEUMONIA DUE TO CHLAMYDIA
483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1 PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3 PNEUMONIA IN WHOOPING COUGH
484.6 PNEUMONIA IN ASPERGILLOSIS
484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486 PNEUMONIA, ORGANISM UNSPECIFIED
507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
518.51 ACUTE RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.53 ACUTE AND CHRONIC RESPIRATORY FAILURE FOLLOWING TRAUMA AND SURGERY
518.81 ACUTE RESPIRATORY FAILURE
518.84 ACUTE AND CHRONIC RESPIRATORY FAILURE
799.1 RESPIRATORY ARREST

Must occur with 997.5 URINARY COMPLICATIONS

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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

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

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS

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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
348.1	ANOXIC BRAIN DAMAGE
39.98	CONTROL OF HEMORRHAGE, NOT OTHERWISE SPECIFIED
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED

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

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

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

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Pacemaker Procedures – Independent Complications

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

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

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

415.19 OTHER PULMONARY EMBOLISM AND INFARCTION
480.0 PNEUMONIA DUE TO ADENOVIRUS

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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

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

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

Peripheral Vascular Bypass – Dependent Complications

Must occur with 997.1 CARDIAC COMPLICATIONS

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

Must occur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

481 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1 PNEUMONIA DUE TO PSEUDOMONAS
482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49 OTHER STAPHYLOCOCCUS PNEUMONIA
482.81 PNEUMONIA DUE TO ANAEROBES
482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]

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482.83 PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84 LEGIONNAIRES' DISEASE
482.89 PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9 BACTERIAL PNEUMONIA, UNSPECIFIED
483.0 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1 PNEUMONIA DUE TO CHLAMYDIA
483.8 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.3 PNEUMONIA IN WHOOPING COUGH
484.6 PNEUMONIA IN ASPERGILLOSIS
484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486 PNEUMONIA, ORGANISM UNSPECIFIED
507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
518.81 ACUTE RESPIRATORY FAILURE

Must occur with 997.5 URINARY COMPLICATIONS

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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

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

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

Prostate Removal Surgery – Independent Complications

041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6 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

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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

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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

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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 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

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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

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707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09	PRESSURE ULCER, OTHER SITE
785.50	SHOCK, UNSPECIFIED
785.51	CARDIOGENIC SHOCK
785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
867.0	INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY
952.0	CERVICAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.00	C1-C4 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.01	C1-C4 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.02	C1-C4 LEVEL WITH ANTERIOR CORD SYNDROME
952.03	C1-C4 LEVEL WITH CENTRAL CORD SYNDROME
952.04	C1-C4 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.05	C5-C7 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.06	C5-C7 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.07	C5-C7 LEVEL WITH ANTERIOR CORD SYNDROME
952.08	C5-C7 LEVEL WITH CENTRAL CORD SYNDROME
952.09	C5-C7 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.1	DORSAL [THORACIC] SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.10	T1-T6 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.11	T1-T6 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.12	T1-T6 LEVEL WITH ANTERIOR CORD SYNDROME
952.13	T1-T6 LEVEL WITH CENTRAL CORD SYNDROME
952.14	T1-T6 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.15	T7-T12 LEVEL WITH UNSPECIFIED SPINAL CORD INJURY
952.16	T7-T12 LEVEL WITH COMPLETE LESION OF SPINAL CORD
952.17	T7-T12 LEVEL WITH ANTERIOR CORD SYNDROME
952.18	T7-T12 LEVEL WITH CENTRAL CORD SYNDROME
952.19	T7-T12 LEVEL WITH OTHER SPECIFIED SPINAL CORD INJURY
952.2	LUMBAR SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.3	SACRAL SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.4	CAUDA EQUINA SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.8	MULTIPLE SITES OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
952.9	UNSPECIFIED SITE OF SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY
995.91	SEPSIS
995.92	SEVERE SEPSIS
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
996.67	INFECTION AND INFLAMMATORY REACTION DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

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

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

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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
348.1	ANOXIC BRAIN DAMAGE
410.01	ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE
410.11	ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE
410.21	ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE
410.31	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE
410.41	ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE
410.51	ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE
410.61	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.91	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
415.11	IATROGENIC PULMONARY EMBOLISM AND INFARCTION
415.12	SEPTIC PULMONARY EMBOLISM
415.19	OTHER PULMONARY EMBOLISM AND INFARCTION
423.3	CARDIAC TAMPONADE
427.41	VENTRICULAR FIBRILLATION
427.5	CARDIAC ARREST
428.31	ACUTE DIASTOLIC HEART FAILURE
428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS

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

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

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

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

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS

Transurethral Prostate Resection Surgery – Independent Complications

041.04 BACTERIAL INFECTION DUE TO STREPTOCOCCUS, GROUP D [ENTEROCOCCUS]
041.11 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
041.7 PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE
286.6 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

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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

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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

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Appendix D. Coefficient Summary Table – Mortality Cohorts

Bowel Obstruction

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.341	0.047	7.201	1.406	0.306	0.036	8.570	1.359
Age75To79	0.608	0.045	13.482	1.836	0.560	0.034	16.404	1.751
Age80To84	0.900	0.044	20.666	2.459	0.827	0.033	24.993	2.287
SexFemale	-0.138	0.022	-6.216	0.871	-0.140	0.017	-8.321	0.869
AdmitSourceXferHospital	0.106	0.043	2.437	1.112	0.202	0.033	6.072	1.224
Age90AndOver	1.322	0.045	29.264	3.749	1.456	0.034	43.024	4.289
AdmitSourceXferSkilledNursing	0.151	0.054	2.815	1.163	0.394	0.038	10.308	1.483
AdmitSourceXferNonHospital	*	*	*	*	0.191	0.070	2.750	1.211
Age85To89	1.145	0.044	26.289	3.143	1.099	0.033	33.231	3.002
PrimaryFacilityPresentOnAdmissionKnownPercent	1.256	0.143	8.797	3.512	0.455	0.094	4.870	1.576
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	*	*	*	*	0.159	0.075	2.113	1.172
SEPSIS (Multiple)	0.669	0.092	7.277	1.952	0.712	0.066	10.702	2.038
CARDIOMYOPATHY (Multiple)	0.393	0.050	7.831	1.481	0.271	0.040	6.692	1.312
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	*	*	*	*	0.048	0.020	2.371	1.049
MALNUTRITION (Multiple)	0.402	0.030	13.544	1.495	0.462	0.024	19.623	1.587
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.334	0.058	5.759	1.396	0.449	0.045	10.001	1.566
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.212	0.034	6.267	1.236	0.238	0.026	9.120	1.269
ACIDOSIS (276.2)	0.622	0.041	15.265	1.862	0.418	0.034	12.266	1.519
DEHYDRATION (Multiple)	*	*	*	*	0.118	0.022	5.245	1.125
HYPERPOTASSEMIA (276.7)	0.261	0.054	4.791	1.298	0.296	0.042	7.070	1.344
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.833	0.155	5.377	2.301	0.656	0.129	5.093	1.928
ANEMIA, UNSPECIFIED (285.9)	*	*	*	*	0.122	0.024	5.135	1.130
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.202	0.057	3.557	1.223	0.128	0.044	2.880	1.137
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.313	0.103	3.033	1.367
DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE (293.0)	*	*	*	*	0.342	0.116	2.951	1.408
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*	*	*	*	0.278	0.067	4.158	1.320
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.393	0.178	2.207	1.482	0.566	0.124	4.547	1.761
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.163	0.068	2.421	1.178
PARALYSIS AGITANS (332.0)	0.168	0.068	2.475	1.182	0.181	0.051	3.565	1.198
ENCEPHALOPATHY (Multiple)	0.449	0.068	6.575	1.567	0.475	0.053	8.886	1.608
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.469	0.140	3.353	1.599	0.462	0.112	4.126	1.587
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.471	0.124	3.804	1.601	0.496	0.101	4.902	1.643

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Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.163	0.037	4.387	1.177	0.102	0.028	3.575	1.107
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.088	0.027	3.259	1.092	0.042	0.021	2.024	1.043
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.399	0.058	6.847	1.490	0.296	0.047	6.342	1.344
PULMONARY HYPERTENSION (Multiple)	0.297	0.045	6.558	1.345	0.202	0.036	5.558	1.224
AORTIC VALVE DISORDERS (424.1)	*	*	*	*	0.091	0.043	2.137	1.096
ATRIAL FIBRILLATION (427.31)	0.330	0.024	13.722	1.391	0.300	0.019	16.165	1.350
ATRIAL FLUTTER (427.32)	*	*	*	*	0.178	0.062	2.898	1.195
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.258	0.028	9.163	1.295	0.297	0.022	13.784	1.346
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.310	0.104	2.982	1.364	0.423	0.082	5.180	1.526
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.563	0.148	3.791	1.756	0.413	0.126	3.281	1.511
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.203	0.041	4.904	1.225	0.175	0.032	5.510	1.191
HYPOTENSION, UNSP OR NEC (Multiple)	0.213	0.063	3.363	1.238	0.279	0.048	5.757	1.321
CHRONIC BRONCHITIS (Multiple)	0.583	0.066	8.886	1.792	0.580	0.051	11.366	1.785
OTHER EMPHYSEMA (492.8)	0.243	0.091	2.663	1.275	0.278	0.070	3.982	1.320
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.326	0.028	11.708	1.386	0.328	0.021	15.427	1.388
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.486	0.057	8.542	1.626	0.607	0.043	14.024	1.835
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.513	0.081	6.299	1.670	0.451	0.064	7.035	1.570
ACUTE RESPIRATORY FAILURE (518.81)	0.930	0.075	12.424	2.534	0.752	0.065	11.617	2.121
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH HEMORRHAGE, WITH OBSTRUCTION (531.41)	-0.818	0.403	-2.027	0.441	*	*	*	*
OTHER OBSTRUCTION OF DUODENUM (537.3)	*	*	*	*	0.371	0.116	3.191	1.450
RECURRENT UNILATERAL OR UNSPECIFIED INGUINAL HERNIA WITH OBSTRUCTION, WITHOUT MENTION OF GANGRENE (550.11)	-0.264	0.121	-2.174	0.768	*	*	*	*
UNILATERAL OR UNSPECIFIED FEMORAL HERNIA WITH OBSTRUCTION (NOT SPECIFIED AS RECURRENT) (552.00)	*	*	*	*	-0.169	0.069	-2.465	0.844
HERNIA OF OTHER SPECIFIED SITES, WITH OBSTRUCTION (552.8)	*	*	*	*	-0.180	0.054	-3.364	0.835
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.275	0.051	5.358	1.316	0.269	0.045	5.978	1.309
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.552	0.048	11.534	1.737	0.426	0.042	10.036	1.531
INTUSSUSCEPTION (560.0)	*	*	*	*	-0.302	0.148	-2.044	0.740
PARALYTIC ILEUS (560.1)	*	*	*	*	0.181	0.022	8.067	1.198
VOLVULUS (560.2)	0.197	0.043	4.595	1.218	0.171	0.037	4.629	1.187
OTHER IMPACTION OF INTESTINE (560.39)	*	*	*	*	0.276	0.121	2.284	1.318
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION) (560.81)	*	*	*	*	-0.215	0.025	-8.624	0.806
OTHER SPECIFIED INTESTINAL OBSTRUCTION (560.89)	0.119	0.041	2.871	1.126	0.182	0.031	5.854	1.199
PERFORATION OF INTESTINE (569.83)	0.546	0.068	7.994	1.726	0.470	0.062	7.582	1.599

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Bowel Obstruction (continued)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.594	0.086	6.949	1.811	0.779	0.063	12.393	2.180
ACUTE PANCREATITIS (577.0)	0.291	0.113	2.576	1.337	*	*	*	*
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.641	0.082	7.808	1.898	0.594	0.064	9.316	1.812
ACUTE RENAL FAILURE (Multiple)	0.319	0.028	11.605	1.376	0.295	0.022	13.576	1.343
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.105	0.037	2.826	1.110	0.065	0.029	2.259	1.067
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.422	0.062	6.856	1.526	0.382	0.048	7.927	1.465
END STAGE RENAL DISEASE (585.6)	1.087	0.138	7.866	2.965	1.000	0.111	9.016	2.718
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.324	0.038	8.645	1.382	0.303	0.029	10.617	1.354
HYDRONEPHROSIS (591)	*	*	*	*	0.262	0.057	4.618	1.299
DECUBITIS ULCER (Multiple)	0.406	0.055	7.327	1.500	0.562	0.041	13.849	1.754
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.305	0.125	2.436	1.356	0.298	0.093	3.196	1.348
TACHYCARDIA, UNSPECIFIED (785.0)	0.373	0.095	3.917	1.452	0.367	0.073	5.020	1.444
SEPTIC SHOCK (785.52)	0.742	0.158	4.692	2.100	0.911	0.119	7.638	2.486
DYSPHAGIA (Multiple)	*	*	*	*	0.188	0.044	4.299	1.207
HYPOXEMIA (799.02)	*	*	*	*	0.187	0.063	2.952	1.205
CACHEXIA (799.4)	0.669	0.066	10.082	1.953	0.673	0.053	12.739	1.960
SEVERE SEPSIS (995.92)	0.432	0.147	2.935	1.540	*	*	*	*
GASTROSTOMY STATUS (V44.1)	*	*	*	*	0.241	0.072	3.331	1.273
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.198	0.054	3.636	1.219	0.239	0.041	5.765	1.270
DO NOT RESUSCITATE STATUS (V49.86)	0.536	0.031	17.046	1.709	0.704	0.024	29.872	2.022
Palliative Care Risk Ragrdless of POA (V66.7)	3.880	0.030	128.554	48.405	3.570	0.029	121.331	35.509
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.165	0.053	3.096	1.180	0.311	0.041	7.634	1.365
LAPAROSCOPIC REPAIR OF DIRECT INGUINAL HERNIA WITH GRAFT OR PROSTHESIS (17.11)	*	*	*	*	-1.007	0.407	-2.474	0.365
LAPAROSCOPIC REPAIR OF INGUINAL HERNIA WITH GRAFT OR PROSTHESIS, NOT OTHERWISE SPECIFIED (17.13)	*	*	*	*	-0.847	0.324	-2.617	0.429
OTHER INCISION OF SMALL INTESTINE (45.02)	0.412	0.111	3.701	1.510	0.283	0.096	2.937	1.328
OTHER ENDOSCOPY OF SMALL INTESTINE (45.13)	0.440	0.062	7.037	1.552	0.322	0.050	6.461	1.379
ESOPHAGOGASTRODUODENOSCOPY [EGD] WITH CLOSED BIOPSY (45.16)	0.195	0.068	2.870	1.215	0.107	0.051	2.093	1.112
FLEXIBLE SIGMOIDOSCOPY (45.24)	0.208	0.090	2.322	1.231	0.248	0.070	3.545	1.281
LOCAL EXCISION OF LESION OR TISSUE OF SMALL INTESTINE, EXCEPT DUODENUM (45.33)	0.371	0.179	2.069	1.449	*	*	*	*
MULTIPLE SEGMENTAL RESECTION OF SMALL INTESTINE (45.61)	0.880	0.105	8.359	2.410	0.761	0.094	8.091	2.141
OTHER PARTIAL RESECTION OF SMALL INTESTINE (45.62)	0.822	0.032	26.142	2.276	0.584	0.028	21.268	1.794
OPEN AND OTHER CECECTOMY (45.72)	0.608	0.107	5.699	1.836	0.484	0.093	5.183	1.623
OPEN AND OTHER RIGHT HEMICOLECTOMY (45.73)	0.773	0.061	12.624	2.165	0.600	0.053	11.331	1.822

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Bowel Obstruction (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OPEN AND OTHER RESECTION OF TRANSVERSE COLON (45.74)	0.455	0.150	3.028	1.577	0.425	0.133	3.199	1.529
OPEN AND OTHER LEFT HEMICOLECTOMY (45.75)	0.808	0.114	7.061	2.243	0.601	0.102	5.910	1.823
OPEN AND OTHER SIGMOIDECTOMY (45.76)	0.485	0.076	6.392	1.624	0.314	0.064	4.917	1.369
OTHER AND UNSPECIFIED PARTIAL EXCISION OF LARGE INTESTINE (45.79)	1.021	0.106	9.604	2.776	0.719	0.098	7.349	2.052
LARGE-TO-LARGE INTESTINAL ANASTOMOSIS (45.94)	0.313	0.146	2.136	1.367	0.246	0.124	1.985	1.278
EXTERIORIZATION OF SMALL INTESTINE (46.01)	0.736	0.146	5.034	2.087	0.609	0.129	4.710	1.839
EXTERIORIZATION OF LARGE INTESTINE (46.03)	0.585	0.136	4.316	1.795	0.450	0.108	4.161	1.569
COLOSTOMY, NOT OTHERWISE SPECIFIED (46.10)	0.624	0.077	8.127	1.866	0.395	0.066	5.952	1.484
ILEOSTOMY, NOT OTHERWISE SPECIFIED (46.20)	0.902	0.086	10.464	2.466	0.798	0.077	10.322	2.221
OTHER ENTEROSTOMY (46.39)	1.148	0.122	9.385	3.152	0.891	0.112	7.934	2.437
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM (46.73)	0.810	0.066	12.191	2.247	0.660	0.061	10.876	1.935
SUTURE OF LACERATION OF LARGE INTESTINE (46.75)	0.722	0.158	4.576	2.059	0.442	0.148	2.979	1.556
OTHER REPAIR OF INTESTINE (46.79)	0.641	0.125	5.128	1.898	0.361	0.117	3.086	1.435
DILATION OF INTESTINE (46.85)	*	*	*	*	0.162	0.052	3.103	1.176
CHOLECYSTECTOMY (51.22)	0.512	0.106	4.801	1.668	0.496	0.093	5.347	1.642
OTHER AND OPEN REPAIR OF INDIRECT INGUINAL HERNIA WITH GRAFT OR PROSTHESIS (53.04)	*	*	*	*	-0.212	0.098	-2.175	0.809
EXPLORATORY LAPAROTOMY (54.11)	0.820	0.071	11.560	2.270	0.536	0.064	8.348	1.709
OTHER LYSIS OF PERITONEAL ADHESIONS (54.59)	0.530	0.027	19.540	1.699	0.342	0.027	12.699	1.408

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Chronic Obstructive Pulmonary Disease (COPD)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age75To79	0.394	0.032	12.349	1.483	0.433	0.018	24.394	1.543
Age80To84	0.513	0.032	15.827	1.670	0.604	0.018	33.597	1.829
SexFemale	-0.158	0.019	-8.409	0.854	-0.275	0.010	-26.659	0.760
AdmitSourceXferSkilledNursing	0.216	0.050	4.362	1.242	0.529	0.026	20.346	1.697
Age85To89	0.507	0.035	14.479	1.661	0.742	0.019	38.988	2.100
AdmitSourceXferNonHospital	0.251	0.095	2.638	1.285	0.376	0.051	7.400	1.457
AdmitSourceXferHospital	0.334	0.048	6.941	1.397	0.294	0.029	10.269	1.342
Age90AndOver	0.449	0.041	10.921	1.567	0.916	0.022	42.582	2.500
Age70To74	0.312	0.032	9.803	1.366	0.286	0.018	15.994	1.331
PrimaryFacilityPresentOnAdmissionKnownPercent	0.324	0.094	3.446	1.382	*	*	*	*
SEPSIS (Multiple)	1.342	0.084	15.891	3.826	0.808	0.066	12.268	2.242
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE (041.12)	*	*	*	*	0.197	0.060	3.273	1.218
PSEUDOMONAS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE (041.7)	*	*	*	*	0.173	0.056	3.081	1.189
CARDIOMYOPATHY (Multiple)	0.299	0.038	7.824	1.348	0.115	0.023	5.063	1.121
CANDIDIASIS OF MOUTH (112.0)	0.143	0.072	1.977	1.154	0.248	0.039	6.336	1.281
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	*	*	*	*	0.776	0.062	12.607	2.172
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.618	0.055	11.284	1.856	1.093	0.028	39.193	2.983
MALNUTRITION (Multiple)	0.555	0.034	16.572	1.742	0.545	0.021	25.774	1.725
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.727	0.064	11.350	2.068	0.687	0.040	17.006	1.988
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.245	0.030	8.124	1.278	0.192	0.017	11.244	1.211
ACIDOSIS (276.2)	0.729	0.032	22.489	2.074	0.464	0.022	21.636	1.591
ALKALOSIS (276.3)	*	*	*	*	0.184	0.044	4.226	1.203
DEHYDRATION (Multiple)	0.116	0.036	3.200	1.123	0.142	0.020	7.112	1.152
HYPERPOTASSEMIA (276.7)	0.431	0.036	11.804	1.539	0.369	0.022	16.775	1.447
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	*	*	*	*	0.128	0.024	5.288	1.137
ANEMIA, UNSPECIFIED (285.9)	0.094	0.026	3.558	1.098	0.189	0.014	13.313	1.208
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.339	0.045	7.574	1.403	0.245	0.026	9.397	1.278
SENILE DEMENTIA, UNCOMPLICATED (290.0)	0.312	0.138	2.257	1.367	0.364	0.071	5.139	1.438
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*	*	*	*	0.439	0.087	5.028	1.551
ANXIETY STATE, UNSPECIFIED (300.00)	*	*	*	*	0.093	0.013	6.960	1.098
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.165	0.032	5.120	1.179
ENCEPHALOPATHY (Multiple)	0.406	0.050	8.143	1.502	0.398	0.032	12.649	1.489
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	*	*	*	*	0.205	0.076	2.695	1.228
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	1.141	0.060	18.872	3.130	0.743	0.043	17.457	2.102
INTERMEDIATE CORONARY SYNDROME (411.1)	0.408	0.140	2.920	1.504	0.212	0.082	2.578	1.236
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.141	0.046	3.093	1.151	0.130	0.025	5.172	1.139

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Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ACUTE COR PULMONALE (415.0)	0.749	0.164	4.557	2.115	0.656	0.099	6.646	1.927
PULMONARY HYPERTENSION (Multiple)	0.243	0.026	9.389	1.275	0.215	0.015	14.616	1.240
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (427.0)	*	*	*	*	0.308	0.064	4.790	1.360
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.174	0.082	2.119	1.190	*	*	*	*
ATRIAL FIBRILLATION (427.31)	0.356	0.020	17.351	1.428	0.283	0.011	25.040	1.327
ATRIAL FLUTTER (427.32)	0.393	0.056	7.064	1.482	0.206	0.034	6.037	1.228
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.253	0.039	6.550	1.288	0.156	0.022	6.957	1.169
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.210	0.020	10.440	1.234	0.268	0.011	24.445	1.308
HEART FAILURE, UNSPECIFIED (428.9)	*	*	*	*	0.317	0.122	2.607	1.374
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	*	*	*	*	0.084	0.034	2.487	1.088
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*	*	*	*	0.046	0.018	2.602	1.047
HYPOTENSION, UNSP OR NEC (Multiple)	0.497	0.047	10.490	1.644	0.325	0.030	11.017	1.384
BACTERIAL PNEUMONIA (Multiple)	0.355	0.022	16.409	1.426	0.132	0.012	10.780	1.142
OBSTRUCTIVE CHRONIC BRONCHITIS, WITHOUT EXACERBATION (491.20)	-0.521	0.169	-3.081	0.594	-0.277	0.078	-3.582	0.758
OBSTRUCTIVE CHRONIC BRONCHITIS, WITH (ACUTE) EXACERBATION (491.21)	-0.117	0.047	-2.509	0.890	*	*	*	*
OBSTRUCTIVE CHRONIC BRONCHITIS, WITH ACUTE BRONCHITIS (491.22)	-0.522	0.048	-10.975	0.593	-0.400	0.014	-27.790	0.670
EMPHYSEMATOUS BLEB (492.0)	0.521	0.104	5.014	1.684	0.383	0.063	6.117	1.466
CHRONIC OBSTRUCTIVE ASTHMA, UNSPECIFIED (493.20)	*	*	*	*	-0.339	0.055	-6.213	0.712
CHRONIC OBSTRUCTIVE ASTHMA, WITH STATUS ASTHMATICUS (493.21)	*	*	*	*	-0.328	0.113	-2.901	0.720
CHRONIC OBSTRUCTIVE ASTHMA, WITH (ACUTE) EXACERBATION (493.22)	-0.313	0.049	-6.369	0.731	-0.413	0.017	-24.001	0.662
BRONCHIECTASIS WITHOUT ACUTE EXACERBATION (494.0)	-0.341	0.084	-4.070	0.711	-0.200	0.043	-4.642	0.818
BRONCHIECTASIS WITH ACUTE EXACERBATION (494.1)	-0.219	0.084	-2.606	0.803	-0.346	0.046	-7.482	0.708
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.922	0.063	14.712	2.515	0.628	0.032	19.882	1.874
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	1.124	0.069	16.236	3.078	0.732	0.049	15.017	2.079
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.464	0.047	9.848	1.590	0.489	0.027	18.053	1.630
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.262	0.042	6.204	1.300	0.335	0.022	14.861	1.398
ACUTE RESPIRATORY FAILURE (518.81)	1.033	0.027	38.484	2.809	0.501	0.018	28.427	1.651
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.723	0.025	28.862	2.060	0.481	0.015	31.732	1.617
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.400	0.108	3.696	1.491	0.456	0.061	7.527	1.579
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.732	0.094	7.778	2.078	0.625	0.058	10.699	1.869
ACUTE RENAL FAILURE (Multiple)	0.456	0.026	17.380	1.578	0.199	0.016	12.652	1.220

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Chronic Obstructive Pulmonary Disease (COPD) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.170	0.054	3.171	1.185	0.212	0.030	7.010	1.236
END STAGE RENAL DISEASE (585.6)	0.982	0.060	16.457	2.670	0.724	0.074	9.718	2.062
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.145	0.032	4.493	1.156	0.144	0.018	8.208	1.155
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*	*	*	*	0.093	0.032	2.875	1.097
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*	*	*	*	0.144	0.019	7.492	1.155
DECUBITIS ULCER (Multiple)	0.586	0.052	11.224	1.797	0.835	0.029	28.995	2.305
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.367	0.093	3.940	1.443	0.548	0.049	11.170	1.731
OTHER CONVULSIONS (780.39)	0.435	0.134	3.243	1.546	0.222	0.084	2.654	1.248
OTHER MALAISE AND FATIGUE (780.79)	*	*	*	*	0.163	0.026	6.235	1.177
EDEMA (782.3)	*	*	*	*	0.161	0.032	5.080	1.174
LOSS OF WEIGHT (783.21)	*	*	*	*	0.116	0.039	2.936	1.122
ADULT FAILURE TO THRIVE (783.7)	0.366	0.056	6.533	1.442	0.602	0.032	18.979	1.826
TACHYCARDIA, UNSPECIFIED (785.0)	*	*	*	*	0.158	0.035	4.473	1.171
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	*	*	*	*	0.179	0.049	3.645	1.196
DYSPHAGIA (Multiple)	*	*	*	*	0.239	0.025	9.506	1.270
DEBILITY, UNSPECIFIED (799.3)	*	*	*	*	0.130	0.023	5.556	1.139
CACHEXIA (799.4)	0.529	0.048	11.074	1.698	0.509	0.030	16.837	1.664
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*	*	*	*	0.222	0.026	8.564	1.249
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.140	0.011	12.351	1.150
DO NOT RESUSCITATE STATUS (V49.86)	0.767	0.024	32.597	2.154	0.702	0.014	50.694	2.017
LONG-TERM (CURRENT) USE OF STEROIDS (V58.65)	*	*	*	*	0.142	0.018	7.740	1.153
Palliative Care Risk Ragrdless of POA (V66.7)	3.849	0.024	158.874	46.955	2.869	0.022	133.438	17.620
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.157	0.029	5.482	1.170

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Colorectal Surgeries

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.286	0.035	8.174	1.331	0.367	0.031	11.776	1.443
Age80To84	0.776	0.035	22.374	2.173	0.966	0.031	31.453	2.626
Age85To89	0.966	0.037	26.313	2.628	1.261	0.032	39.241	3.530
SexFemale	-0.189	0.021	-9.173	0.828	-0.222	0.018	-12.471	0.801
AdmitSourceXferSkilledNursing	0.231	0.058	3.979	1.260	0.433	0.050	8.723	1.541
Age90AndOver	1.118	0.043	25.753	3.060	1.564	0.037	42.278	4.776
AdmitSourceXferHospital	0.118	0.040	2.968	1.125	0.137	0.036	3.830	1.147
Age75To79	0.518	0.034	15.036	1.678	0.657	0.030	21.520	1.929
PrimaryFacilityPresentOnAdmissionKnownPercent	1.748	0.158	11.029	5.746	1.542	0.133	11.616	4.674
SEPSIS (Multiple)	0.636	0.032	19.595	1.889	0.550	0.030	18.646	1.732
CARDIOMYOPATHY (Multiple)	0.230	0.047	4.943	1.259	0.235	0.041	5.738	1.265
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	*	*	*	*	0.671	0.112	5.984	1.956
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*	*	*	*	0.187	0.086	2.185	1.206
GLUCOCORTICOID DEFICIENCY (255.41)	0.580	0.096	6.057	1.785	0.566	0.089	6.380	1.762
MALNUTRITION (Multiple)	*	*	*	*	0.148	0.024	6.254	1.160
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM (273.8)	*	*	*	*	0.150	0.057	2.623	1.162
HYPOCALCEMIA (275.41)	0.152	0.068	2.246	1.165	0.174	0.061	2.839	1.190
ACIDOSIS (276.2)	0.607	0.032	19.027	1.835	0.552	0.030	18.453	1.737
DEHYDRATION (Multiple)	0.183	0.036	5.154	1.201	0.164	0.032	5.217	1.179
HYPERPOTASSEMIA (276.7)	0.403	0.050	8.076	1.497	0.328	0.046	7.109	1.388
BODY MASS INDEX 40 AND OVER (Multiple)	0.206	0.043	4.764	1.229	0.170	0.039	4.403	1.185
DEFIBRINATION SYNDROME (286.6)	1.159	0.119	9.770	3.188	1.268	0.122	10.387	3.555
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.661	0.081	8.186	1.936	0.617	0.077	7.983	1.853
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.332	0.047	7.026	1.394	0.427	0.042	10.231	1.532
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED (303.90)	0.334	0.123	2.712	1.397	0.271	0.110	2.465	1.312
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, CONTINUOUS (303.91)	0.484	0.177	2.736	1.623	0.423	0.161	2.634	1.527
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.283	0.054	5.284	1.328
PARALYSIS AGITANS (332.0)	*	*	*	*	0.233	0.063	3.678	1.263
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.199	0.072	2.768	1.221	0.231	0.062	3.734	1.260
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.147	0.046	3.170	1.159
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	*	*	*	*	0.254	0.106	2.389	1.289
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.359	0.099	3.633	1.431	0.335	0.092	3.626	1.398
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.093	0.035	2.638	1.098	0.132	0.031	4.300	1.142
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	*	*	*	*	0.064	0.022	2.857	1.066
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.345	0.057	6.098	1.412	0.281	0.050	5.656	1.325
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.108	0.040	2.703	1.114

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Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ATRIAL FIBRILLATION (427.31)	0.271	0.023	11.557	1.311	0.293	0.020	14.433	1.340
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.306	0.027	11.279	1.358	0.312	0.024	13.057	1.366
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*	*	*	*	0.237	0.083	2.842	1.267
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.238	0.083	2.882	1.269	0.310	0.070	4.412	1.363
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.511	0.120	4.255	1.667	0.469	0.108	4.354	1.598
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.214	0.040	5.356	1.238	0.254	0.034	7.391	1.289
BACTERIAL PNEUMONIA (Multiple)	0.291	0.048	6.006	1.338	0.314	0.044	7.119	1.369
CHRONIC BRONCHITIS (Multiple)	0.664	0.056	11.841	1.943	0.752	0.050	15.184	2.120
OTHER EMPHYSEMA (492.8)	0.355	0.084	4.205	1.425	0.316	0.074	4.252	1.371
ASTHMA WITH ACUTE EXACERBATION (Multiple)	0.757	0.133	5.686	2.132	0.566	0.126	4.476	1.761
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.347	0.026	13.170	1.414	0.378	0.023	16.589	1.460
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.381	0.087	4.389	1.464	0.318	0.077	4.128	1.374
ACUTE RESPIRATORY FAILURE (518.81)	0.548	0.045	12.281	1.730	0.468	0.043	10.790	1.596
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.489	0.081	6.056	1.631	0.496	0.076	6.508	1.642
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS (540.0)	0.310	0.102	3.051	1.364	0.327	0.091	3.595	1.387
ULCERATIVE COLITIS, UNSPECIFIED (556.9)	0.292	0.074	3.955	1.339	0.253	0.068	3.701	1.288
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.732	0.034	21.379	2.078	0.687	0.032	21.415	1.988
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE (557.1)	0.497	0.092	5.417	1.644	0.432	0.086	5.037	1.540
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.618	0.038	16.469	1.855	0.599	0.035	17.274	1.820
VOLVULUS (560.2)	0.143	0.042	3.373	1.154	0.205	0.036	5.647	1.227
FECAL IMPACTION (560.32)	0.344	0.078	4.394	1.411	0.313	0.070	4.463	1.368
INTESTINAL OR PERITONEAL ADHESIONS WITH OBSTRUCTION (POSTOPERATIVE) (POSTINFECTION) (560.81)	0.192	0.057	3.353	1.212	0.139	0.051	2.708	1.149
OTHER SPECIFIED INTESTINAL OBSTRUCTION (560.89)	0.116	0.042	2.732	1.123	*	*	*	*
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.274	0.040	6.809	1.315	0.258	0.035	7.364	1.295
DIVERTICULOSIS OF COLON WITH HEMORRHAGE (562.12)	0.461	0.063	7.269	1.586	0.337	0.056	6.046	1.401
OTHER SPECIFIED PERITONITIS (567.89)	0.290	0.059	4.889	1.336	0.333	0.055	6.036	1.395
UNSPECIFIED PERITONITIS (567.9)	0.157	0.040	3.927	1.169	0.238	0.036	6.561	1.268
OTHER SPECIFIED DISORDERS OF PERITONEUM (568.89)	0.126	0.060	2.119	1.135	0.223	0.053	4.233	1.250
HEMORRHAGE OF RECTUM AND ANUS (569.3)	*	*	*	*	0.172	0.082	2.092	1.188
PERFORATION OF INTESTINE (569.83)	0.594	0.031	18.996	1.811	0.628	0.029	21.909	1.874
ANGIODYSPLASIA OF INTESTINE WITH HEMORRHAGE (569.85)	*	*	*	*	0.282	0.136	2.076	1.326
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.897	0.093	9.607	2.451	0.904	0.096	9.463	2.469

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Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.934	0.140	6.657	2.546	0.916	0.128	7.171	2.499
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.847	0.078	10.789	2.334	0.932	0.068	13.718	2.540
ACUTE PANCREATITIS (577.0)	0.440	0.137	3.213	1.552	0.323	0.130	2.489	1.381
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.254	0.060	4.204	1.290	0.228	0.052	4.408	1.256
ACUTE RENAL FAILURE (Multiple)	0.245	0.028	8.866	1.277	0.247	0.025	9.968	1.280
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.186	0.036	5.158	1.204	0.174	0.031	5.572	1.190
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.354	0.062	5.734	1.425	0.480	0.053	9.075	1.617
END STAGE RENAL DISEASE (585.6)	1.176	0.053	22.358	3.241	1.022	0.104	9.823	2.778
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.303	0.037	8.144	1.353	0.291	0.032	8.996	1.337
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*	*	*	*	0.068	0.029	2.333	1.070
DECUBITIS ULCER (Multiple)	*	*	*	*	0.290	0.050	5.768	1.337
PRESSURE ULCER, STAGE III (707.23)	0.232	0.116	2.008	1.262	*	*	*	*
PRESSURE ULCER, STAGE IV (707.24)	*	*	*	*	0.206	0.092	2.246	1.229
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.511	0.136	3.771	1.668	0.480	0.122	3.922	1.616
ADULT FAILURE TO THRIVE (783.7)	*	*	*	*	0.283	0.071	3.987	1.327
SEPTIC SHOCK (785.52)	0.554	0.039	14.238	1.740	0.556	0.037	15.181	1.744
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.177	0.086	2.063	1.194	0.196	0.080	2.461	1.216
OTHER ASCITES (789.59)	0.280	0.047	5.915	1.323	0.318	0.043	7.366	1.374
CACHEXIA (799.4)	0.257	0.080	3.205	1.293	0.488	0.069	7.099	1.629
Palliative Care Risk Ragrdless of POA (V66.7)	2.988	0.030	99.365	19.837	3.640	0.034	107.757	38.110
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.242	0.060	3.999	1.273	0.331	0.052	6.350	1.392
Colon Resection and Anostomosis - Low Mortality (Multiple)	-0.788	0.054	-14.565	0.455	-0.908	0.032	-28.508	0.404
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE (17.42)	-0.482	0.122	-3.934	0.617	-0.456	0.096	-4.733	0.634
Other Colon Procedures - High Mortality (Multiple)	0.376	0.105	3.577	1.457	*	*	*	*
Resection or Removal of Small Intestine (Multiple)	0.640	0.037	17.468	1.897	0.594	0.034	17.558	1.811
Colon Resection and Anostomosis - High Mortality (Multiple)	0.693	0.048	14.570	2.000	0.404	0.028	14.411	1.498
Colon Resection and Anostomosis - Moderate Mortality (Multiple)	0.251	0.040	6.207	1.285	*	*	*	*
OTHER SMALL-TO-LARGE INTESTINAL ANASTOMOSIS (45.93)	-0.169	0.038	-4.446	0.845	-0.146	0.032	-4.502	0.864
LARGE-TO-LARGE INTESTINAL ANASTOMOSIS (45.94)	*	*	*	*	-0.624	0.161	-3.865	0.536
Rectal Resection and Anostomosis (Multiple)	-0.371	0.060	-6.220	0.690	-0.592	0.039	-15.061	0.553
Exteriorization of Small Intestine (Multiple)	*	*	*	*	0.141	0.057	2.460	1.151
Stoma - Low Mortality (Multiple)	-0.673	0.085	-7.940	0.510	-0.855	0.062	-13.712	0.425
Ileostomies (Multiple)	0.134	0.052	2.602	1.143	0.185	0.048	3.855	1.203
Other Enterostomies (Multiple)	0.435	0.102	4.259	1.546	0.486	0.096	5.089	1.626
Other Colon Procedures - Low Mortality (Multiple)	*	*	*	*	-0.278	0.094	-2.952	0.757

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Colorectal Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM (46.73)	0.721	0.086	8.361	2.057	0.537	0.081	6.597	1.710
Other Rectal Procedures (Multiple)	-1.407	0.116	-12.162	0.245	-0.976	0.068	-14.287	0.377
Anal-Rectal Procedures (Multiple)	-1.271	0.106	-12.030	0.281	-0.765	0.059	-12.892	0.466
OTHER LAPAROTOMY (54.19)	0.461	0.078	5.929	1.585	0.403	0.071	5.676	1.496

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Coronary Artery Bypass Graft (CABG) Surgery

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.143	0.036	3.906	1.153	0.117	0.032	3.590	1.124
Age70To74	0.367	0.046	7.984	1.443	0.385	0.040	9.584	1.469
Age75To79	0.670	0.046	14.558	1.954	0.659	0.040	16.286	1.933
Age80To84	0.946	0.050	19.061	2.575	0.983	0.043	22.666	2.672
Age85To89	1.251	0.063	19.762	3.493	1.272	0.056	22.786	3.568
Age90AndOver	1.465	0.144	10.158	4.326	1.516	0.127	11.966	4.556
PrimaryFacilityPresentOnAdmissionKnownPercent	0.744	0.270	2.756	2.104	0.880	0.240	3.662	2.411
SexFemale	0.403	0.032	12.793	1.497	0.332	0.028	11.954	1.394
CARDIOMYOPATHY (Multiple)	0.141	0.062	2.286	1.151	0.117	0.055	2.131	1.125
MALNUTRITION (Multiple)	0.461	0.076	6.079	1.586	0.513	0.067	7.609	1.670
BODY MASS INDEX 40 AND OVER (Multiple)	0.362	0.054	6.653	1.437	0.427	0.047	9.109	1.532
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.619	0.191	3.238	1.857	0.735	0.160	4.583	2.086
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	0.716	0.177	4.039	2.045	*	*	*	*
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.713	0.151	4.713	2.040
ANOXIC BRAIN DAMAGE (348.1)	*	*	*	*	0.441	0.224	1.973	1.555
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.463	0.125	3.714	1.589	0.378	0.114	3.298	1.459
ANTERIOR/LATERAL WALL AMI (Multiple)	0.549	0.057	9.584	1.731	0.516	0.052	9.858	1.676
INFERIOR WALL AMI (Multiple)	0.490	0.078	6.274	1.632	0.432	0.072	5.991	1.540
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.290	0.036	8.168	1.336	0.246	0.031	7.855	1.279
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	*	*	*	*	0.218	0.104	2.095	1.243
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.198	0.099	1.998	1.219	*	*	*	*
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.728	0.080	9.066	2.070	0.591	0.075	7.852	1.805
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF BYPASS GRAFT (414.05)	*	*	*	*	0.528	0.236	2.235	1.695
PULMONARY HYPERTENSION (Multiple)	0.301	0.055	5.487	1.351	0.286	0.049	5.851	1.331
ADHESIVE PERICARDITIS (423.1)	0.441	0.152	2.910	1.554	*	*	*	*
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.214	0.094	2.272	1.239	*	*	*	*
ATRIAL FIBRILLATION (427.31)	0.115	0.040	2.913	1.122	0.180	0.034	5.288	1.198
CARDIAC ARREST (427.5)	0.374	0.125	2.980	1.453	0.312	0.120	2.598	1.366
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.205	0.035	5.892	1.227	0.219	0.031	7.096	1.245
HEART FAILURE, UNSPECIFIED (428.9)	0.612	0.293	2.089	1.843	*	*	*	*
ATHEROSCLEROSIS OF AORTA (440.0)	0.223	0.078	2.858	1.250	0.160	0.070	2.284	1.174
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.420	0.119	3.520	1.522	0.303	0.110	2.750	1.354
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.548	0.095	5.774	1.731	0.504	0.086	5.860	1.656

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Coronary Artery Bypass Graft (CABG) Surgery (continued)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	**Coefficient**	**Standard Error**	**Z-Stat**	**Odds Ratio**	**Coefficient**	**Standard Error**	**Z-Stat**	**Odds Ratio**
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION (440.21)	*	*	*	*	0.310	0.127	2.444	1.363
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.297	0.097	3.064	1.346	0.203	0.087	2.339	1.225
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.231	0.044	5.204	1.260	0.237	0.039	6.083	1.267
CHRONIC BRONCHITIS (Multiple)	0.475	0.087	5.444	1.607	0.500	0.076	6.545	1.648
OTHER EMPHYSEMA (492.8)	0.377	0.119	3.167	1.458	0.384	0.104	3.697	1.468
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.209	0.042	5.034	1.232	0.241	0.036	6.675	1.272
ACUTE RESPIRATORY FAILURE (518.81)	*	*	*	*	0.150	0.064	2.328	1.161
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.220	0.175	6.962	3.387	1.194	0.167	7.159	3.299
ACUTE RENAL FAILURE (Multiple)	0.240	0.055	4.336	1.271	0.169	0.050	3.352	1.185
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.122	0.049	2.500	1.129	0.152	0.042	3.603	1.165
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.539	0.089	6.063	1.714	0.548	0.079	6.934	1.730
END STAGE RENAL DISEASE (585.6)	1.528	0.065	23.443	4.611	1.486	0.059	25.335	4.418
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.168	0.056	2.991	1.182	0.223	0.048	4.613	1.250
CARDIOGENIC SHOCK (785.51)	0.458	0.060	7.648	1.581	0.422	0.058	7.282	1.524
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.449	0.107	4.210	1.567	0.546	0.089	6.112	1.726
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	0.243	0.064	3.795	1.275	0.289	0.058	4.961	1.336
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY (36.11)	0.092	0.039	2.351	1.097	0.078	0.035	2.266	1.082
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.586	0.043	-13.590	0.557	-0.532	0.039	-13.641	0.587
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.16)	-0.588	0.113	-5.193	0.555	-0.561	0.099	-5.670	0.570
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH (37.33)	0.291	0.110	2.636	1.337	0.270	0.095	2.850	1.310
IMPLANT OF PULSATION BALLOON (37.61)	1.661	0.035	47.452	5.263	1.438	0.032	45.090	4.214
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE (37.68)	2.959	0.128	23.166	19.274	2.744	0.125	21.957	15.547

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Coronary Interventional Procedures

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.089	0.023	3.864	1.093	0.068	0.018	3.749	1.071
AdmitSourceXferSkilledNursing	0.478	0.082	5.851	1.613	0.521	0.065	8.040	1.684
Age70To74	0.412	0.030	13.533	1.510	0.374	0.024	15.336	1.453
Age75To79	0.677	0.030	22.204	1.967	0.640	0.024	26.197	1.896
Age80To84	0.888	0.031	28.590	2.430	0.867	0.025	34.662	2.379
Age85To89	1.201	0.033	36.746	3.324	1.225	0.026	46.588	3.403
Age90AndOver	1.516	0.040	38.080	4.554	1.614	0.032	50.893	5.025
PrimaryFacilityPresentOnAdmissionKnownPercent	0.821	0.155	5.298	2.272	0.856	0.123	6.961	2.354
SexFemale	0.242	0.018	13.248	1.274	0.134	0.014	9.237	1.143
CARDIOMYOPATHY (Multiple)	*	*	*	*	0.142	0.027	5.202	1.152
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.051	0.020	2.562	1.053	0.073	0.016	4.623	1.076
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED (250.01)	*	*	*	*	0.376	0.148	2.540	1.456
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	*	*	*	*	0.096	0.038	2.553	1.101
MALNUTRITION (Multiple)	0.262	0.051	5.130	1.300	0.654	0.039	16.834	1.923
ACIDOSIS (276.2)	0.955	0.031	31.081	2.598	0.847	0.027	31.218	2.332
DEHYDRATION (Multiple)	0.170	0.060	2.805	1.185	0.187	0.047	4.002	1.206
HYPERPOTASSEMIA (276.7)	0.416	0.043	9.730	1.516	0.353	0.035	10.016	1.424
BODY MASS INDEX 40 AND OVER (Multiple)	0.148	0.043	3.461	1.160	0.100	0.034	2.963	1.106
TOBACCO USE DISORDER (305.1)	*	*	*	*	0.049	0.023	2.118	1.050
ALZHEIMER'S DISEASE (331.0)	0.308	0.074	4.178	1.360	0.551	0.055	9.939	1.735
PARALYSIS AGITANS (332.0)	0.208	0.082	2.545	1.232	0.209	0.063	3.300	1.233
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.394	0.090	4.396	1.483	0.369	0.070	5.274	1.446
ANTERIOR/LATERAL WALL AMI (Multiple)	1.458	0.026	55.520	4.296	1.330	0.021	64.586	3.782
INFERIOR WALL AMI (Multiple)	1.080	0.030	36.243	2.943	0.914	0.024	37.946	2.495
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.405	0.026	15.615	1.500	0.409	0.019	21.447	1.505
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.285	0.090	3.143	1.329	0.328	0.068	4.849	1.388
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.146	0.040	3.680	1.158	0.069	0.031	2.220	1.072
DISSECTION OF CORONARY ARTERY (414.12)	0.377	0.121	3.119	1.457	0.426	0.099	4.307	1.531
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY (414.2)	0.180	0.022	7.996	1.197	0.189	0.018	10.469	1.207
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.155	0.026	5.941	1.167
AORTIC VALVE DISORDERS (424.1)	0.197	0.036	5.400	1.218	0.222	0.028	8.016	1.248
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.190	0.052	3.617	1.209	0.190	0.046	4.101	1.209
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.157	0.051	3.086	1.170	*	*	*	*
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	*	*	*	*	0.099	0.031	3.180	1.104
ATRIAL FIBRILLATION (427.31)	0.106	0.022	4.943	1.112	0.176	0.017	10.537	1.193

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Coronary Interventional Procedures (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
VENTRICULAR FIBRILLATION (427.41)	0.891	0.119	7.464	2.439	0.803	0.109	7.384	2.233
CARDIAC ARREST (427.5)	1.270	0.035	36.625	3.561	1.131	0.032	34.853	3.100
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.097	0.020	4.857	1.102	0.299	0.016	18.844	1.348
HEART FAILURE, UNSPECIFIED (428.9)	0.685	0.156	4.393	1.983	0.690	0.131	5.267	1.994
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.471	0.086	5.447	1.601	0.502	0.068	7.361	1.651
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.411	0.065	6.286	1.509	0.322	0.052	6.155	1.380
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION (440.21)	0.259	0.122	2.126	1.295	*	*	*	*
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.287	0.028	10.196	1.333	0.244	0.022	11.098	1.276
HYPOTENSION, UNSP OR NEC (Multiple)	0.300	0.043	6.941	1.350	0.348	0.034	10.135	1.416
BACTERIAL PNEUMONIA (Multiple)	0.255	0.038	6.627	1.291	0.281	0.030	9.289	1.324
CHRONIC BRONCHITIS (Multiple)	0.183	0.048	3.803	1.200	0.417	0.035	12.068	1.517
OTHER EMPHYSEMA (492.8)	0.274	0.087	3.136	1.315	0.241	0.069	3.478	1.273
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.223	0.026	8.716	1.250	0.292	0.020	14.525	1.339
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.215	0.068	3.156	1.240	0.387	0.052	7.471	1.473
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.740	0.068	10.851	2.096	0.716	0.053	13.563	2.046
ACUTE RESPIRATORY FAILURE (518.81)	0.683	0.027	25.220	1.981	0.563	0.023	24.191	1.757
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.467	0.082	5.708	1.594	0.461	0.069	6.644	1.585
ACUTE RENAL FAILURE (Multiple)	0.386	0.025	15.183	1.471	0.337	0.021	16.050	1.401
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*	*	*	*	0.126	0.023	5.386	1.134
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.416	0.049	8.565	1.516	0.464	0.038	12.159	1.590
END STAGE RENAL DISEASE (585.6)	0.975	0.088	11.092	2.652	1.041	0.069	15.159	2.832
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.272	0.030	9.047	1.312	0.288	0.024	11.983	1.333
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*	*	*	*	0.113	0.046	2.450	1.120
RHEUMATOID ARTHRITIS (714.0)	*	*	*	*	0.192	0.048	4.035	1.212
CARDIOGENIC SHOCK (785.51)	0.901	0.027	33.273	2.462	0.828	0.024	34.069	2.288
SEPTIC SHOCK (785.52)	1.034	0.073	14.220	2.812	0.889	0.066	13.389	2.433
PROCEDURE ON SINGLE VESSEL (00.40)	*	*	*	*	-0.048	0.018	-2.601	0.953
INSERTION OF ONE VASCULAR STENT (00.45)	-0.470	0.030	-15.812	0.625	-0.344	0.027	-12.868	0.709
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.383	0.032	-11.849	0.682	-0.234	0.026	-8.867	0.791
INSERTION OF THREE VASCULAR STENTS (00.47)	-0.238	0.040	-5.897	0.788	-0.162	0.033	-4.955	0.851
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	-0.479	0.181	-2.643	0.620	-0.526	0.150	-3.502	0.591
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S) (36.06)	-0.100	0.038	-2.640	0.904	-0.097	0.033	-2.978	0.907
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S) (36.07)	-0.655	0.036	-18.167	0.520	-0.604	0.031	-19.313	0.546

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Coronary Interventional Procedures (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
IMPLANT OF PULSATION BALLOON (37.61)	1.837	0.024	75.204	6.279	1.563	0.022	70.914	4.774
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE (37.68)	1.914	0.052	37.052	6.777	1.559	0.047	33.353	4.752
HYPOTHERMIA (CENTRAL) (LOCAL) (99.81)	1.476	0.084	17.685	4.376	1.416	0.081	17.565	4.119

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Cranial Neurosurgery

(formerly Neurosurgery)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age85To89	0.395	0.067	5.917	1.485	0.728	0.052	13.887	2.071
Age90AndOver	0.438	0.097	4.501	1.549	0.979	0.074	13.268	2.663
Age70To74	0.115	0.051	2.248	1.122	0.143	0.041	3.460	1.153
Age75To79	0.303	0.052	5.852	1.354	0.385	0.042	9.233	1.469
PrimaryFacilityPresentOnAdmissionKnownPercent	0.949	0.295	3.212	2.583	0.489	0.224	2.183	1.631
AdmitSourceXferNonHospital	*	*	*	*	0.264	0.082	3.206	1.302
Age80To84	0.307	0.057	5.370	1.359	0.522	0.045	11.527	1.686
AdmitSourceXferSkilledNursing	*	*	*	*	0.348	0.111	3.121	1.416
SexFemale	-0.112	0.036	-3.106	0.894	-0.184	0.028	-6.464	0.832
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	*	*	*	*	0.389	0.138	2.823	1.476
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.287	0.114	2.519	1.332	0.504	0.082	6.147	1.655
MALIGNANT NEOPLASM OF FRONTAL LOBE (191.1)	*	*	*	*	0.430	0.085	5.068	1.538
MALIGNANT NEOPLASM OF PARIETAL LOBE (191.3)	*	*	*	*	0.266	0.112	2.382	1.305
MALIGNANT NEOPLASM OF OTHER PARTS OF BRAIN (191.8)	*	*	*	*	0.506	0.160	3.154	1.659
MALIGNANT NEOPLASM OF BRAIN, UNSPECIFIED (191.9)	*	*	*	*	0.583	0.126	4.622	1.791
MALIGNANT NEOPLASM OF LIVER, SPECIFIED AS SECONDARY (197.7)	*	*	*	*	0.363	0.124	2.939	1.438
SECONDARY MALIGNANT NEOPLASM OF BRAIN AND SPINAL CORD (198.3)	*	*	*	*	0.211	0.058	3.645	1.235
SECONDARY MALIGNANT NEOPLASM OF OTHER PARTS OF NERVOUS SYSTEM (198.4)	*	*	*	*	0.739	0.155	4.777	2.094
SECONDARY MALIGNANT NEOPLASM OF BONE AND BONE MARROW (198.5)	*	*	*	*	0.452	0.098	4.601	1.572
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.632	0.174	3.643	1.882	0.617	0.130	4.730	1.854
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.098	0.041	2.362	1.103	0.161	0.033	4.888	1.175
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	*	*	*	*	0.177	0.087	2.028	1.194
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	*	*	*	*	0.313	0.095	3.283	1.367
MALNUTRITION (Multiple)	*	*	*	*	0.156	0.060	2.594	1.169
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.500	0.094	5.295	1.649	0.537	0.082	6.567	1.710
ACIDOSIS (276.2)	0.487	0.096	5.067	1.628	0.396	0.084	4.684	1.485
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.462	0.143	3.228	1.588	0.429	0.126	3.415	1.535
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.527	0.073	7.180	1.694	0.423	0.061	6.923	1.526
COMMUNICATING HYDROCEPHALUS (331.3)	0.674	0.157	4.301	1.962	0.544	0.121	4.477	1.722
OBSTRUCTIVE HYDROCEPHALUS (331.4)	0.647	0.057	11.429	1.909	0.543	0.048	11.388	1.722

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Cranial Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
FLACCID HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.00)	*	*	*	*	0.399	0.135	2.949	1.491
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.132	0.044	3.044	1.141
COMPRESSION OF BRAIN (348.4)	0.132	0.048	2.733	1.142	0.117	0.040	2.923	1.124
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.255	0.060	4.247	1.290	0.230	0.048	4.849	1.259
ATRIAL FIBRILLATION (427.31)	0.264	0.043	6.186	1.302	0.300	0.034	8.749	1.350
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.326	0.052	6.222	1.385	0.321	0.042	7.592	1.378
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.531	0.188	2.814	1.700	*	*	*	*
SUBARACHNOID HEMORRHAGE (430)	0.908	0.060	15.263	2.478	0.640	0.051	12.616	1.897
INTRACEREBRAL HEMORRHAGE (431)	0.569	0.054	10.517	1.766	0.437	0.046	9.457	1.548
UNSPECIFIED INTRACRANIAL HEMORRHAGE (432.9)	0.691	0.129	5.363	1.996	0.556	0.112	4.974	1.744
INFARCTION OF A CEREBRAL ARTERY (Multiple)	0.801	0.087	9.246	2.227	0.656	0.076	8.577	1.927
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION (434.01)	0.626	0.103	6.084	1.870	0.591	0.088	6.692	1.805
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	0.293	0.088	3.334	1.341	0.202	0.076	2.652	1.224
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.655	0.070	9.296	1.925	0.549	0.062	8.903	1.732
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.482	0.149	3.240	1.619	*	*	*	*
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.314	0.079	3.968	1.369	0.284	0.063	4.514	1.328
HYPOTENSION, UNSP OR NEC (Multiple)	0.494	0.113	4.374	1.639	0.329	0.101	3.275	1.390
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.174	0.055	3.182	1.190	0.258	0.042	6.135	1.294
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	*	*	*	*	0.202	0.091	2.224	1.224
ACUTE RESPIRATORY FAILURE (518.81)	1.118	0.048	23.487	3.060	0.885	0.044	20.309	2.423
ACUTE RENAL FAILURE (Multiple)	0.405	0.070	5.748	1.500	0.274	0.060	4.564	1.315
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*	*	*	*	0.152	0.062	2.460	1.164
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.537	0.150	3.584	1.711	0.478	0.123	3.889	1.613
END STAGE RENAL DISEASE (585.6)	1.222	0.121	10.090	3.393	1.115	0.106	10.551	3.050
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.322	0.074	4.357	1.380	0.317	0.059	5.377	1.373
COMA (780.01)	1.086	0.078	13.878	2.963	1.096	0.073	14.994	2.991
ALTERED MENTAL STATUS (780.97)	*	*	*	*	0.215	0.094	2.270	1.239
CARDIAC PACEMAKER IN SITU (V45.01)	0.197	0.078	2.532	1.218	0.175	0.062	2.850	1.192
Palliative Care Risk Ragrdless of POA (V66.7)	4.271	0.044	98.257	71.588	3.926	0.043	92.136	50.719
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.559	0.115	4.847	1.748
INFUSION OF VASOPRESSOR AGENT (00.17)	1.269	0.101	12.517	3.558	1.036	0.094	11.071	2.817
PROCEDURE ON SINGLE VESSEL (00.40)	-0.177	0.086	-2.058	0.838	*	*	*	*
PERCUTANEOUS ANGIOPLASTY OF INTRACRANIAL VESSEL(S) (00.62)	0.676	0.177	3.824	1.967	0.424	0.150	2.817	1.528
INTRACRANIAL PRESSURE MONITORING (01.10)	0.661	0.108	6.117	1.936	0.523	0.099	5.271	1.687

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Cranial Neurosurgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OPEN BIOPSY OF BRAIN (01.14)	-0.324	0.131	-2.479	0.724	0.257	0.083	3.087	1.293
OTHER CRANIOTOMY (01.24)	0.628	0.074	8.449	1.873	0.406	0.061	6.697	1.501
OTHER CRANIECTOMY (01.25)	0.829	0.096	8.615	2.291	0.621	0.082	7.543	1.861
PLACEMENT OF INTRACEREBRAL CATHETER(S) VIA BURR HOLE(S) (01.28)	0.759	0.169	4.490	2.135	0.618	0.140	4.423	1.856
INCISION OF CEREBRAL MENINGES (01.31)	0.592	0.056	10.600	1.807	0.337	0.044	7.685	1.401
OTHER INCISION OF BRAIN (01.39)	0.886	0.068	13.070	2.426	0.711	0.057	12.543	2.037
EXCISION OF LESION OR TISSUE OF CEREBRAL MENINGES (01.51)	*	*	*	*	-0.166	0.072	-2.308	0.847
OTHER EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BRAIN (01.59)	-0.228	0.058	-3.891	0.796	*	*	*	*
OTHER CRANIAL OSTEOPLASTY (02.06)	-0.247	0.121	-2.047	0.781	-0.262	0.094	-2.807	0.769
SIMPLE SUTURE OF DURA MATER OF BRAIN (02.11)	0.614	0.271	2.268	1.849	*	*	*	*
OTHER REPAIR OF CEREBRAL MENINGES (02.12)	0.229	0.076	3.026	1.257	*	*	*	*
INTRACRANIAL VENTRICULAR SHUNT OR ANASTOMOSIS (02.22)	1.131	0.105	10.738	3.097	0.980	0.087	11.238	2.664
VENTRICULAR SHUNT TO CIRCULATORY SYSTEM (02.32)	*	*	*	*	-1.314	0.654	-2.010	0.269
VENTRICULAR SHUNT TO ABDOMINAL CAVITY AND ORGANS (02.34)	-1.373	0.101	-13.538	0.253	-0.822	0.067	-12.182	0.440
VENTRICULAR SHUNT TO EXTRACRANIAL SITE NEC (02.39)	0.659	0.269	2.452	1.932	0.625	0.230	2.717	1.868
REPLACEMENT OF VENTRICULAR SHUNT (02.42)	-0.527	0.170	-3.102	0.590	-0.330	0.122	-2.692	0.719
IMPLANTATION OR REPLACEMENT OF INTRACRANIAL NEUROSTIMULATOR LEAD(S) (02.93)	-2.067	0.543	-3.805	0.127	-1.547	0.300	-5.154	0.213
EXCISION OF ACOUSTIC NEUROMA (04.01)	*	*	*	*	-0.634	0.318	-1.996	0.530
DECOMPRESSION OF TRIGEMINAL NERVE ROOT (04.41)	-3.380	1.001	-3.377	0.034	-2.881	0.582	-4.949	0.056
ENDOVASCULAR (TOTAL) EMBOLIZATION OR OCCLUSION OF HEAD AND NECK VESSELS (39.72)	0.231	0.082	2.814	1.260	*	*	*	*
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S) (39.74)	0.678	0.106	6.393	1.970	0.427	0.073	5.865	1.533
OTHER ENDOVASCULAR PROCEDURE ON OTHER VESSELS (39.79)	0.569	0.197	2.893	1.767	0.652	0.162	4.023	1.919

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Diabetic Emergencies

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.313	0.103	3.025	1.367	0.235	0.064	3.648	1.265
AdmitSourceXferNonHospital	0.523	0.178	2.941	1.687	0.355	0.108	3.302	1.426
AdmitSourceXferSkilledNursing	0.272	0.094	2.904	1.313	0.518	0.050	10.410	1.679
Age70To74	0.433	0.073	5.905	1.541	0.493	0.044	11.268	1.637
Age75To79	0.564	0.074	7.618	1.758	0.600	0.044	13.537	1.823
Age80To84	0.693	0.076	9.057	1.999	0.845	0.044	18.981	2.327
Age85To89	0.793	0.082	9.720	2.210	1.017	0.047	21.689	2.765
Age90AndOver	0.834	0.096	8.733	2.303	1.369	0.051	26.675	3.933
PrimaryFacilityPresentOnAdmissionKnownPercent	1.050	0.306	3.434	2.856	*	*	*	*
SexFemale	-0.206	0.045	-4.576	0.814	-0.173	0.026	-6.730	0.841
CARDIOMYOPATHY (Multiple)	0.515	0.085	6.070	1.674	0.303	0.052	5.838	1.353
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED (153.9)	*	*	*	*	1.067	0.234	4.559	2.906
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.633	0.263	2.401	1.882	1.024	0.138	7.396	2.785
MALIGNANT NEOPLASM OF BREAST (FEMALE), UNSPECIFIED (174.9)	*	*	*	*	0.475	0.231	2.059	1.609
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	*	*	*	*	0.757	0.165	4.587	2.132
MULTIPLE MYELOMA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (203.00)	*	*	*	*	0.443	0.168	2.630	1.557
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	0.992	0.240	4.137	2.698	0.474	0.166	2.855	1.607
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.10)	0.658	0.217	3.031	1.931	0.436	0.160	2.719	1.547
DIABETES WITH HYPEROSMOLARITY, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.22)	-0.485	0.100	-4.865	0.616	-0.289	0.058	-5.020	0.749
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.30)	1.096	0.138	7.946	2.992	0.859	0.103	8.321	2.360
DIABETES WITH OTHER COMA, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.32)	0.689	0.177	3.887	1.992	0.596	0.135	4.426	1.816
DIABETES WITH OTHER COMA, TYPE I [JUVENILE TYPE], UNCONTROLLED (250.33)	0.850	0.294	2.896	2.340	0.782	0.232	3.376	2.187
DIABETES WITH OTHER SPECIFIED MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.80)	-0.549	0.060	-9.117	0.577	*	*	*	*
DIABETES WITH OTHER SPECIFIED MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.82)	-0.514	0.076	-6.719	0.598	-0.146	0.036	-4.089	0.864
DIABETES WITH OTHER SPECIFIED MANIFESTATIONS, TYPE I [JUVENILE TYPE], UNCONTROLLED (250.83)	-0.595	0.254	-2.346	0.552	*	*	*	*
GLUCOCORTICOID DEFICIENCY (255.41)	0.649	0.251	2.589	1.913	0.675	0.143	4.717	1.964
MALNUTRITION (Multiple)	0.334	0.071	4.729	1.396	0.428	0.042	10.126	1.534
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.234	0.088	2.657	1.263	0.316	0.056	5.583	1.371
ACIDOSIS (276.2)	0.366	0.084	4.327	1.442	0.160	0.056	2.850	1.173

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Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
MIXED ACID-BASE BALANCE DISORDER (276.4)	1.112	0.202	5.492	3.039	0.814	0.159	5.130	2.257
HYPERPOTASSEMIA (276.7)	*	*	*	*	0.108	0.041	2.618	1.114
BODY MASS INDEX 40 AND OVER (Multiple)	0.298	0.085	3.498	1.347	0.123	0.049	2.521	1.131
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.558	0.227	2.462	1.747	*	*	*	*
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.821	0.248	3.317	2.273	0.600	0.172	3.477	1.821
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	*	*	*	*	0.227	0.057	4.003	1.254
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*	*	*	*	0.219	0.055	3.987	1.244
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	*	*	*	*	0.466	0.148	3.137	1.593
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*	*	*	*	0.366	0.169	2.169	1.442
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.111	0.037	3.023	1.117
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.312	0.125	2.504	1.367	0.283	0.084	3.356	1.327
INTERMEDIATE CORONARY SYNDROME (411.1)	0.821	0.340	2.415	2.273	*	*	*	*
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.436	0.088	4.951	1.546	0.319	0.052	6.137	1.376
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.806	0.340	2.368	2.239	0.725	0.225	3.216	2.064
PULMONARY HYPERTENSION (Multiple)	0.261	0.087	2.998	1.298	0.166	0.051	3.220	1.180
AORTIC VALVE DISORDERS (424.1)	*	*	*	*	0.170	0.066	2.561	1.185
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	*	*	*	*	0.356	0.112	3.188	1.427
ATRIAL FIBRILLATION (427.31)	0.227	0.051	4.423	1.255	0.221	0.029	7.595	1.248
CARDIAC ARREST (427.5)	3.491	0.159	22.007	32.822	2.665	0.149	17.849	14.374
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.280	0.050	5.553	1.323	0.330	0.029	11.529	1.391
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*	*	*	*	0.367	0.079	4.648	1.444
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	*	*	*	*	0.327	0.129	2.538	1.387
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.632	0.234	2.706	1.881	0.566	0.164	3.452	1.761
CEREBRAL ATHEROSCLEROSIS (437.0)	*	*	*	*	0.295	0.094	3.136	1.343
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE (440.24)	0.616	0.127	4.838	1.852	0.242	0.078	3.107	1.274
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	*	*	*	*	0.481	0.205	2.347	1.618
HYPOTENSION, UNSP OR NEC (Multiple)	0.519	0.090	5.777	1.680	0.302	0.058	5.216	1.353
BACTERIAL PNEUMONIA (Multiple)	0.452	0.083	5.440	1.572	0.417	0.050	8.265	1.518
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	*	*	*	*	0.145	0.035	4.150	1.156
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.535	0.126	4.233	1.707	0.565	0.088	6.407	1.759
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.410	0.141	2.897	1.506	0.513	0.077	6.668	1.670

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Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.636	0.198	3.214	1.889	0.526	0.113	4.641	1.692
ACUTE RESPIRATORY FAILURE (518.81)	1.066	0.087	12.250	2.904	0.688	0.068	10.139	1.989
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.548	0.194	2.824	1.730	0.762	0.121	6.309	2.143
PARALYTIC ILEUS (560.1)	0.620	0.280	2.216	1.859	*	*	*	*
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.369	0.162	2.272	1.446	0.392	0.100	3.917	1.480
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.774	0.169	4.578	2.169	0.457	0.121	3.774	1.580
ACUTE RENAL FAILURE (Multiple)	0.211	0.050	4.202	1.235	0.154	0.029	5.337	1.166
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.236	0.089	2.654	1.266	0.255	0.049	5.177	1.291
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	0.524	0.236	2.224	1.689	0.664	0.129	5.144	1.943
END STAGE RENAL DISEASE (585.6)	1.085	0.079	13.745	2.960	1.064	0.047	22.571	2.899
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.216	0.063	3.417	1.241	0.178	0.036	4.960	1.195
RENAL FAILURE, UNSPECIFIED (586)	1.764	0.312	5.649	5.838	0.946	0.255	3.707	2.576
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*	*	*	*	0.106	0.033	3.167	1.111
DECUBITIS ULCER (Multiple)	0.178	0.073	2.440	1.195	0.584	0.038	15.243	1.793
ULCER OF LOWER LIMB, UNSPECIFIED (707.10)	0.397	0.186	2.137	1.488	0.444	0.103	4.293	1.559
ULCER OF HEEL AND MIDFOOT (707.14)	0.202	0.098	2.062	1.224	0.185	0.054	3.457	1.203
ULCER OF OTHER PART OF LOWER LIMB (707.19)	0.495	0.159	3.108	1.641	0.401	0.092	4.374	1.493
RHABDOMYOLYSIS (728.88)	0.380	0.145	2.622	1.462	*	*	*	*
ALTERED MENTAL STATUS (780.97)	0.269	0.108	2.496	1.309	0.200	0.062	3.209	1.221
ADULT FAILURE TO THRIVE (783.7)	0.378	0.109	3.473	1.459	0.698	0.062	11.331	2.010
GANGRENE (785.4)	0.599	0.094	6.389	1.821	0.173	0.058	2.962	1.189
SHOCK, UNSPECIFIED (785.50)	0.869	0.267	3.255	2.385	0.649	0.226	2.868	1.913
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.491	0.203	2.421	1.633	0.561	0.150	3.736	1.753
DYSPHAGIA (Multiple)	*	*	*	*	0.264	0.056	4.708	1.302
OTHER ASCITES (789.59)	1.249	0.155	8.060	3.485	1.035	0.102	10.115	2.816
ABNORMAL COAGULATION PROFILE (790.92)	*	*	*	*	0.217	0.082	2.657	1.242
HYPOXEMIA (799.02)	*	*	*	*	0.225	0.088	2.539	1.252
CACHEXIA (799.4)	0.471	0.152	3.090	1.602	0.540	0.098	5.516	1.716
SEPSIS (995.91)	0.910	0.152	5.979	2.485	0.446	0.113	3.960	1.562
SEVERE SEPSIS (995.92)	1.473	0.166	8.858	4.363	0.931	0.141	6.602	2.537
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*	*	*	*	0.465	0.143	3.252	1.592
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.180	0.072	2.501	1.197
DO NOT RESUSCITATE STATUS (V49.86)	0.910	0.059	15.466	2.485	0.750	0.036	20.908	2.118
Palliative Care Risk Ragrdless of POA (V66.7)	3.450	0.061	56.613	31.516	2.767	0.054	51.670	15.910
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.213	0.088	2.407	1.237
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	1.299	0.212	6.142	3.665	0.782	0.173	4.530	2.185

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Diabetic Emergencies (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
THORACENTESIS (34.91)	0.423	0.189	2.233	1.526	*	*	*	*
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	1.440	0.214	6.711	4.219	0.953	0.181	5.272	2.594
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.921	0.127	7.248	2.512	0.504	0.096	5.225	1.655
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	1.521	0.230	6.624	4.575	0.982	0.180	5.465	2.670

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Esophageal/Stomach Surgeries

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	*	*	*	*	0.148	0.046	3.256	1.160
AdmitSourceXferSkilledNursing	*	*	*	*	0.070	0.024	2.990	1.073
Age70To74	0.224	0.040	5.657	1.251	0.283	0.026	10.812	1.327
Age90AndOver	0.917	0.040	22.922	2.503	1.212	0.026	47.507	3.361
SexFemale	-0.151	0.020	-7.475	0.860	-0.253	0.013	-19.986	0.776
Age80To84	0.569	0.038	15.128	1.767	0.717	0.024	29.391	2.048
Age85To89	0.704	0.038	18.505	2.023	0.937	0.024	38.330	2.553
Age75To79	0.385	0.038	10.039	1.470	0.501	0.025	20.023	1.650
PrimaryFacilityPresentOnAdmissionKnownPercent	0.879	0.165	5.331	2.408	0.673	0.093	7.200	1.959
AdmitSourceXferHospital	0.119	0.036	3.336	1.126	0.061	0.023	2.611	1.063
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	*	*	*	*	0.134	0.044	3.054	1.143
SEPSIS (Multiple)	0.283	0.032	8.758	1.327	0.125	0.021	5.915	1.133
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA (038.12)	0.351	0.140	2.514	1.421	*	*	*	*
CARDIOMYOPATHY (Multiple)	0.262	0.043	6.028	1.299	0.218	0.028	7.688	1.244
CANDIDIASIS OF THE ESOPHAGUS (112.84)	0.211	0.092	2.300	1.235	0.319	0.053	6.009	1.376
MALIGNANT NEOPLASM OF MIDDLE THIRD OF ESOPHAGUS (150.4)	*	*	*	*	0.429	0.160	2.683	1.536
MALIGNANT NEOPLASM OF LOWER THIRD OF ESOPHAGUS (150.5)	*	*	*	*	0.190	0.087	2.176	1.209
MALIGNANT NEOPLASM OF OTHER SPECIFIED PART OF ESOPHAGUS (150.8)	*	*	*	*	0.631	0.151	4.172	1.879
MALIGNANT NEOPLASM OF ESOPHAGUS, UNSPECIFIED (150.9)	0.234	0.100	2.338	1.263	0.490	0.062	7.924	1.633
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.726	0.086	8.496	2.067	0.945	0.054	17.540	2.573
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	0.158	0.076	2.075	1.172	0.142	0.047	3.049	1.153
OTHER DISORDERS OF NEUROHYPOPHYSIS (253.6)	0.346	0.126	2.741	1.414	*	*	*	*
GLUCOCORTICOID DEFICIENCY (255.41)	0.587	0.108	5.430	1.799	0.348	0.082	4.256	1.416
MALNUTRITION (Multiple)	0.203	0.023	8.758	1.226	0.224	0.014	15.430	1.251
OTHER DISORDERS OF PLASMA PROTEIN METABOLISM (273.8)	*	*	*	*	0.111	0.041	2.695	1.118
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*	*	*	*	0.053	0.020	2.672	1.055
ACIDOSIS (276.2)	0.433	0.032	13.419	1.541	0.281	0.023	12.080	1.324
HYPERPOTASSEMIA (276.7)	0.178	0.041	4.360	1.195	0.081	0.028	2.912	1.084
BODY MASS INDEX 40 AND OVER (Multiple)	0.141	0.056	2.518	1.151	*	*	*	*
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.384	0.162	2.371	1.469	0.495	0.113	4.385	1.640
ANEMIA IN NEOPLASTIC DISEASE (285.22)	*	*	*	*	0.389	0.073	5.327	1.476
DEFIBRINATION SYNDROME (286.6)	1.487	0.130	11.466	4.423	1.067	0.120	8.867	2.908
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.455	0.075	6.053	1.577	0.405	0.056	7.283	1.500
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.100	0.041	2.457	1.105	0.132	0.026	5.048	1.141
OTHER AND UNSPECIFIED ALCOHOL DEPENDENCE, UNSPECIFIED (303.90)	0.312	0.090	3.477	1.366	0.165	0.063	2.610	1.179

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Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.055	0.019	2.887	1.056
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	*	*	*	*	0.248	0.072	3.445	1.282
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.290	0.105	2.762	1.336	*	*	*	*
ANTERIOR/LATERAL WALL AMI (Multiple)	0.835	0.173	4.830	2.304	0.803	0.130	6.152	2.232
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	*	*	*	*	0.234	0.043	5.429	1.264
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	*	*	*	*	0.053	0.020	2.614	1.055
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.169	0.052	3.233	1.184	0.122	0.034	3.605	1.130
PULMONARY HYPERTENSION (Multiple)	0.184	0.041	4.453	1.202	0.168	0.027	6.226	1.182
AORTIC VALVE DISORDERS (424.1)	*	*	*	*	0.076	0.032	2.402	1.079
ATRIAL FIBRILLATION (427.31)	0.195	0.022	8.790	1.216	0.193	0.014	14.000	1.213
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.260	0.025	10.507	1.297	0.286	0.016	18.498	1.331
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.270	0.068	3.964	1.309	0.250	0.046	5.430	1.285
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	*	*	*	*	0.098	0.048	2.025	1.103
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*	*	*	*	0.137	0.023	5.858	1.147
HYPOTENSION, UNSP OR NEC (Multiple)	0.163	0.043	3.821	1.177	0.110	0.028	3.941	1.116
BACTERIAL PNEUMONIA (Multiple)	0.271	0.033	8.117	1.311	0.234	0.021	11.049	1.263
CHRONIC BRONCHITIS (Multiple)	0.208	0.048	4.325	1.231	0.252	0.030	8.378	1.287
OTHER EMPHYSEMA (492.8)	*	*	*	*	0.186	0.056	3.324	1.205
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.157	0.027	5.908	1.171	0.181	0.017	10.812	1.199
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.416	0.074	5.609	1.516	0.384	0.049	7.859	1.468
ACUTE RESPIRATORY FAILURE (518.81)	0.591	0.034	17.318	1.806	0.424	0.024	17.428	1.528
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.510	0.062	8.200	1.666	0.484	0.043	11.357	1.623
ACUTE GASTRIC ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (531.10)	0.454	0.111	4.097	1.575	0.232	0.096	2.421	1.261
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (531.50)	0.420	0.060	7.030	1.522	0.338	0.052	6.558	1.401
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.00)	0.708	0.076	9.269	2.029	0.459	0.058	7.978	1.583
ACUTE DUODENAL ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.10)	0.436	0.109	4.011	1.547	0.244	0.094	2.592	1.277
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.40)	0.576	0.040	14.248	1.778	0.413	0.028	14.822	1.511
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.50)	0.348	0.061	5.692	1.416	0.233	0.053	4.425	1.263
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE AND PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.60)	0.714	0.115	6.222	2.043	0.763	0.098	7.827	2.145

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Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DUODENAL ULCER, UNSPECIFIED AS ACUTE OR CHRONIC, WITHOUT HEMORRHAGE OR PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.90)	*	*	*	*	0.112	0.043	2.625	1.119
OTHER SPECIFIED DISORDERS OF STOMACH AND DUODENUM (537.89)	*	*	*	*	0.108	0.049	2.191	1.114
DIAPHRAGMATIC HERNIA WITH OBSTRUCTION (552.3)	0.708	0.109	6.468	2.029	0.432	0.094	4.574	1.540
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	1.056	0.153	6.886	2.874	1.009	0.134	7.550	2.744
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE (557.1)	0.406	0.202	2.011	1.501	0.365	0.148	2.463	1.441
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.975	0.118	8.287	2.650	0.701	0.096	7.334	2.015
PARALYTIC ILEUS (560.1)	0.281	0.088	3.176	1.324	*	*	*	*
OTHER SPECIFIED INTESTINAL OBSTRUCTION (560.89)	*	*	*	*	0.312	0.108	2.894	1.366
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	*	*	*	*	0.287	0.073	3.918	1.332
OTHER SUPPURATIVE PERITONITIS (567.29)	*	*	*	*	0.354	0.090	3.925	1.424
OTHER SPECIFIED PERITONITIS (567.89)	*	*	*	*	0.297	0.108	2.756	1.346
UNSPECIFIED PERITONITIS (567.9)	*	*	*	*	0.192	0.048	3.964	1.212
PERFORATION OF INTESTINE (569.83)	0.489	0.127	3.848	1.631	0.451	0.111	4.073	1.570
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.778	0.105	7.427	2.177	0.520	0.092	5.679	1.681
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.565	0.096	5.905	1.760	0.680	0.068	9.969	1.973
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.470	0.069	6.806	1.600	0.526	0.048	10.911	1.691
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.254	0.060	4.271	1.290	*	*	*	*
ACUTE RENAL FAILURE (Multiple)	0.144	0.024	5.994	1.155	0.105	0.016	6.642	1.111
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	*	*	*	*	0.087	0.021	4.034	1.090
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.223	0.052	4.298	1.250	0.337	0.033	10.136	1.401
END STAGE RENAL DISEASE (585.6)	0.914	0.051	18.029	2.494	0.720	0.072	10.066	2.055
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.181	0.033	5.457	1.198	0.185	0.021	8.807	1.203
DECUBITIS ULCER (Multiple)	0.119	0.034	3.448	1.126	0.182	0.021	8.759	1.199
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.283	0.130	2.176	1.327	0.222	0.086	2.599	1.249
ADULT FAILURE TO THRIVE (783.7)	*	*	*	*	0.120	0.019	6.373	1.128
SEPTIC SHOCK (785.52)	0.535	0.046	11.643	1.707	0.381	0.035	10.863	1.463
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.640	0.048	13.441	1.897	0.526	0.037	14.245	1.692
DYSPHAGIA (Multiple)	*	*	*	*	0.030	0.015	2.012	1.031
OTHER ASCITES (789.59)	0.590	0.057	10.286	1.803	0.744	0.044	16.855	2.104
Palliative Care Risk Ragrdless of POA (V66.7)	2.332	0.024	97.167	10.294	2.267	0.020	113.032	9.654
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.162	0.039	4.204	1.176	0.168	0.023	7.226	1.183

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Esophageal/Stomach Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE (17.42)	*	*	*	*	-0.560	0.155	-3.607	0.571
Esophagus Resection and Anastamosis (Multiple)	1.530	0.094	16.278	4.620	0.561	0.085	6.621	1.753
Reflux (Multiple)	*	*	*	*	-0.608	0.071	-8.565	0.544
Other Esophageal Procedures - Low Mortality (Multiple)	*	*	*	*	0.325	0.030	10.955	1.384
Other Esophageal Procedures - High Mortality (Multiple)	1.548	0.137	11.318	4.704	0.930	0.114	8.145	2.534
Other Stomach Procedures - Moderate Mortality (Multiple)	1.093	0.070	15.693	2.982	0.729	0.052	13.900	2.073
Gastric Resection and Anastamosis - Low Mortality (Multiple)	1.143	0.103	11.132	3.135	0.452	0.083	5.423	1.571
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG] (43.11)	0.690	0.039	17.839	1.994	1.219	0.022	54.569	3.385
Gastric Resection and Anastamosis - High Mortality (Multiple)	1.371	0.047	29.254	3.938	0.966	0.031	31.113	2.626
Pylorus - High Mortality (Multiple)	1.205	0.119	10.123	3.336	0.686	0.099	6.907	1.985
PERCUTANEOUS [ENDOSCOPIC] GASTROJEJUNOSTOMY (44.32)	0.807	0.141	5.724	2.241	0.923	0.093	9.935	2.516
Other Stomach Procedures - High Mortality (Multiple)	1.474	0.054	27.384	4.365	0.951	0.042	22.743	2.588
ENDOSCOPIC CONTROL OF GASTRIC OR DUODENAL BLEEDING (44.43)	0.162	0.041	3.964	1.176	*	*	*	*
Other Stomach Procedures - Low Mortality (Multiple)	0.959	0.109	8.784	2.610	0.486	0.083	5.888	1.626
Resection or Removal of Small Intestine (Multiple)	1.028	0.104	9.885	2.797	0.769	0.093	8.252	2.159
Other Enterostomies (Multiple)	0.514	0.049	10.428	1.673	0.223	0.041	5.389	1.249
OTHER LAPAROTOMY (54.19)	0.467	0.138	3.393	1.595	0.420	0.120	3.518	1.522

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Gastrointestinal Bleed

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.383	0.041	9.390	1.467	0.384	0.026	14.577	1.469
Age80To84	0.635	0.038	16.477	1.887	0.752	0.024	30.655	2.121
Age90AndOver	0.696	0.041	17.062	2.006	1.171	0.025	46.555	3.226
Age75To79	0.536	0.039	13.628	1.709	0.565	0.025	22.350	1.760
PrimaryFacilityPresentOnAdmissionKnownPercent	1.185	0.147	8.064	3.270	0.392	0.073	5.343	1.480
SexFemale	-0.157	0.020	-8.002	0.855	-0.152	0.012	-12.793	0.859
Age85To89	0.685	0.039	17.561	1.984	0.911	0.025	36.988	2.486
AdmitSourceXferNonHospital	*	*	*	*	0.155	0.046	3.336	1.168
AdmitSourceXferSkilledNursing	*	*	*	*	0.368	0.022	16.634	1.445
AdmitSourceXferHospital	0.191	0.036	5.291	1.211	0.209	0.023	8.945	1.232
CARDIOMYOPATHY (Multiple)	0.294	0.039	7.504	1.341	0.165	0.025	6.522	1.180
CANDIDIASIS OF THE ESOPHAGUS (112.84)	0.282	0.094	2.989	1.325	0.507	0.052	9.714	1.660
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*	*	*	*	0.165	0.049	3.394	1.179
MALNUTRITION (Multiple)	0.554	0.029	19.110	1.740	0.566	0.019	29.855	1.761
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.426	0.044	9.706	1.531	0.554	0.029	19.361	1.741
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.255	0.034	7.374	1.290	0.277	0.021	12.958	1.319
ACIDOSIS (276.2)	0.679	0.032	20.878	1.971	0.398	0.024	16.802	1.489
DEHYDRATION (Multiple)	0.071	0.031	2.277	1.074	0.068	0.019	3.563	1.071
HYPERPOTASSEMIA (276.7)	0.193	0.035	5.491	1.213	0.183	0.023	7.982	1.201
BODY MASS INDEX 40 AND OVER (Multiple)	0.188	0.048	3.923	1.207	0.114	0.031	3.692	1.120
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.626	0.126	4.967	1.871	0.554	0.087	6.350	1.739
ANEMIA, UNSPECIFIED (285.9)	*	*	*	*	0.099	0.018	5.596	1.104
ACQUIRED COAGULATION FACTOR DEFICIENCY (286.7)	0.781	0.104	7.479	2.184	0.553	0.077	7.215	1.738
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.620	0.055	11.279	1.859	0.397	0.040	9.983	1.488
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.276	0.035	7.946	1.317	0.278	0.022	12.471	1.320
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.289	0.062	4.624	1.335
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.322	0.136	2.358	1.380	0.442	0.076	5.854	1.555
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.245	0.026	9.637	1.278
ENCEPHALOPATHY (Multiple)	0.485	0.042	11.416	1.624	0.442	0.029	15.046	1.557
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.208	0.081	2.569	1.231	0.151	0.052	2.904	1.163
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.463	0.051	9.062	1.589	0.363	0.036	10.166	1.437
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.187	0.043	4.386	1.205	0.174	0.026	6.558	1.190
PULMONARY HYPERTENSION (Multiple)	0.195	0.035	5.597	1.215	0.125	0.022	5.721	1.133
AORTIC VALVE DISORDERS (424.1)	0.084	0.040	2.089	1.088	*	*	*	*
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.315	0.081	3.905	1.370	0.200	0.054	3.731	1.221
ATRIAL FIBRILLATION (427.31)	0.164	0.021	7.988	1.179	0.203	0.012	16.422	1.225

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Gastrointestinal Bleed (continued)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.262	0.022	11.714	1.299	0.303	0.013	22.549	1.354
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.394	0.060	6.581	1.482	0.314	0.040	7.781	1.368
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.516	0.088	5.853	1.675	0.355	0.061	5.798	1.425
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*	*	*	*	0.092	0.039	2.382	1.096
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.126	0.063	2.011	1.135	0.114	0.039	2.958	1.121
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*	*	*	*	0.082	0.020	4.179	1.086
ESOPHAGEAL VARICES WITH BLEEDING (456.0)	0.444	0.120	3.714	1.560	0.230	0.090	2.568	1.259
HYPOTENSION, UNSP OR NEC (Multiple)	0.182	0.032	5.669	1.199	0.213	0.020	10.689	1.238
BACTERIAL PNEUMONIA (Multiple)	0.631	0.038	16.441	1.879	0.528	0.025	20.890	1.696
CHRONIC BRONCHITIS (Multiple)	0.289	0.056	5.189	1.335	0.374	0.035	10.828	1.454
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.230	0.024	9.543	1.259	0.249	0.015	16.768	1.283
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.708	0.059	11.965	2.029	0.567	0.042	13.581	1.763
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.528	0.049	10.846	1.695	0.542	0.032	17.015	1.720
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.564	0.069	8.162	1.757	0.426	0.045	9.515	1.531
ACUTE RESPIRATORY FAILURE (518.81)	1.134	0.043	26.485	3.107	0.715	0.034	20.710	2.045
OTHER ESOPHAGITIS (530.19)	*	*	*	*	0.115	0.036	3.235	1.122
ULCER OF ESOPHAGUS WITHOUT BLEEDING (530.20)	*	*	*	*	0.115	0.050	2.293	1.121
GASTROESOPHAGEAL LACERATION-HEMORRHAGE SYNDROME (530.7)	*	*	*	*	-0.205	0.046	-4.487	0.814
ESOPHAGEAL HEMORRHAGE (530.82)	0.481	0.095	5.086	1.618	0.222	0.065	3.425	1.248
CHRONIC OR UNSPECIFIED GASTRIC ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (531.40)	-0.128	0.041	-3.110	0.880	-0.073	0.024	-2.967	0.930
ACUTE DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.00)	0.468	0.073	6.378	1.597	0.303	0.052	5.845	1.354
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE, WITHOUT MENTION OF OBSTRUCTION (532.40)	0.307	0.038	8.076	1.359	0.242	0.024	9.979	1.274
CHRONIC OR UNSPECIFIED DUODENAL ULCER WITH HEMORRHAGE AND PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.60)	1.152	0.129	8.954	3.164	0.857	0.108	7.939	2.356
DUODENAL ULCER, UNSPECIFIED AS ACUTE OR CHRONIC, WITHOUT HEMORRHAGE OR PERFORATION, WITHOUT MENTION OF OBSTRUCTION (532.90)	*	*	*	*	0.085	0.038	2.268	1.089
OTHER SPECIFIED GASTRITIS, WITH HEMORRHAGE (535.41)	-0.166	0.074	-2.247	0.847	*	*	*	*
ANGIODYSPLASIA OF STOMACH AND DUODENUM WITH HEMORRHAGE (537.83)	-0.661	0.060	-10.978	0.516	-0.248	0.033	-7.421	0.781
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.806	0.079	10.250	2.238	0.347	0.057	6.068	1.415
PARALYTIC ILEUS (560.1)	0.683	0.087	7.855	1.980	0.430	0.061	7.016	1.537

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Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DIVERTICULOSIS OF SMALL INTESTINE WITH HEMORRHAGE (562.02)	0.485	0.178	2.722	1.624	*	*	*	*
DIVERTICULOSIS OF COLON WITH HEMORRHAGE (562.12)	-0.359	0.039	-9.289	0.698	-0.450	0.022	-20.438	0.638
DIVERTICULITIS OF COLON WITH HEMORRHAGE (562.13)	-0.308	0.076	-4.083	0.735	-0.454	0.047	-9.734	0.635
HEMORRHAGE OF RECTUM AND ANUS (569.3)	-0.183	0.053	-3.461	0.832	*	*	*	*
ULCER OF ANUS AND RECTUM (569.41)	*	*	*	*	0.226	0.066	3.438	1.254
ANGIODYSPLASIA OF INTESTINE WITH HEMORRHAGE (569.85)	-0.378	0.066	-5.718	0.685	-0.226	0.038	-6.000	0.798
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.392	0.072	5.431	1.480	0.558	0.048	11.511	1.747
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.298	0.054	5.523	1.348	0.417	0.036	11.581	1.517
PORTAL HYPERTENSION (572.3)	*	*	*	*	0.092	0.043	2.129	1.096
HEMATEMESIS (578.0)	0.244	0.045	5.389	1.277	0.248	0.027	9.200	1.282
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.164	0.026	6.323	1.179	0.151	0.015	10.331	1.163
ACUTE RENAL FAILURE (Multiple)	0.344	0.023	15.094	1.410	0.237	0.014	16.529	1.267
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.208	0.042	4.924	1.232	0.272	0.026	10.385	1.312
END STAGE RENAL DISEASE (585.6)	0.799	0.081	9.835	2.224	0.944	0.052	18.001	2.569
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.196	0.030	6.594	1.216	0.210	0.018	11.667	1.233
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*	*	*	*	0.126	0.018	7.135	1.134
DECUBITIS ULCER (Multiple)	0.341	0.040	8.483	1.406	0.637	0.024	27.023	1.891
TACHYCARDIA, UNSPECIFIED (785.0)	0.254	0.074	3.454	1.290	0.188	0.048	3.924	1.207
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.696	0.034	20.648	2.007	0.500	0.025	19.994	1.649
DYSPHAGIA (Multiple)	*	*	*	*	0.340	0.025	13.511	1.404
OTHER ASCITES (789.59)	0.690	0.055	12.457	1.993	0.802	0.037	21.702	2.229
HYPOXEMIA (799.02)	*	*	*	*	0.148	0.042	3.509	1.159
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.215	0.028	7.802	1.240
DO NOT RESUSCITATE STATUS (V49.86)	0.424	0.025	16.989	1.527	0.612	0.015	41.134	1.845
Palliative Care Risk Ragrdless of POA (V66.7)	3.522	0.025	141.234	33.858	2.832	0.022	129.010	16.972
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.139	0.056	2.472	1.149	0.309	0.034	8.970	1.362
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF ESOPHAGUS (42.33)	*	*	*	*	-0.116	0.052	-2.256	0.890
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OR TISSUE OF STOMACH (43.41)	-0.258	0.105	-2.451	0.772	-0.368	0.061	-6.022	0.692
OTHER GASTROSCOPY (44.13)	0.688	0.159	4.335	1.990	*	*	*	*
SUTURE OF DUODENAL ULCER SITE (44.42)	1.163	0.085	13.646	3.198	0.724	0.074	9.792	2.062
ENDOSCOPIC CONTROL OF GASTRIC OR DUODENAL BLEEDING (44.43)	0.152	0.033	4.628	1.164	-0.190	0.022	-8.816	0.827
TRANSCATHETER EMBOLIZATION FOR GASTRIC OR DUODENAL BLEEDING (44.44)	0.746	0.077	9.708	2.109	0.363	0.064	5.647	1.438
OTHER ENDOSCOPY OF SMALL INTESTINE (45.13)	-0.084	0.024	-3.512	0.920	-0.243	0.015	-16.397	0.784

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Gastrointestinal Bleed (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ESOPHAGOGASTRODUODENOSCOPY [EGD] WITH CLOSED BIOPSY (45.16)	-0.484	0.027	-17.885	0.616	-0.422	0.016	-26.902	0.656
COLONOSCOPY (45.23)	-0.454	0.034	-13.466	0.635	-0.409	0.020	-20.998	0.664
ENDOSCOPIC EXCISION OR DESTRUCTION OF LESION OF DUODENUM (45.30)	*	*	*	*	-0.280	0.085	-3.307	0.755
ENDOSCOPIC POLYPECTOMY OF LARGE INTESTINE (45.42)	-0.859	0.059	-14.588	0.424	-0.536	0.029	-18.497	0.585
ENDOSCOPIC EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF LARGE INTESTINE (45.43)	-0.207	0.071	-2.926	0.813	-0.289	0.041	-6.976	0.749
OPEN AND OTHER RIGHT HEMICOLECTOMY (45.73)	1.871	0.104	18.081	6.493	1.151	0.089	12.934	3.162
OPEN AND OTHER LEFT HEMICOLECTOMY (45.75)	1.850	0.120	15.476	6.360	1.190	0.104	11.456	3.288
OPEN AND OTHER SIGMOIDECTOMY (45.76)	1.770	0.131	13.508	5.874	1.206	0.110	10.928	3.341
OPEN TOTAL INTRA-ABDOMINAL COLECTOMY (45.82)	2.454	0.123	19.941	11.638	1.685	0.108	15.575	5.392
OTHER SMALL-TO-LARGE INTESTINAL ANASTOMOSIS (45.93)	0.577	0.150	3.856	1.780	0.470	0.127	3.694	1.599
RIGID PROCTOSIGMOIDOSCOPY (48.23)	0.368	0.142	2.595	1.445	*	*	*	*

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Heart Attack (Stent Treatment Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	*	*	*	*	0.081	0.033	2.471	1.085
AdmitSourceXferSkilledNursing	*	*	*	*	0.279	0.029	9.633	1.321
Age90AndOver	0.985	0.023	42.479	2.678	1.235	0.019	64.801	3.439
Age70To74	0.379	0.021	17.704	1.461	0.374	0.018	20.772	1.454
Age85To89	0.927	0.022	42.955	2.528	1.025	0.018	57.133	2.788
PrimaryFacilityPresentOnAdmissionKnownPercent	1.158	0.104	11.104	3.183	0.935	0.084	11.101	2.547
Age80To84	0.788	0.021	37.604	2.198	0.803	0.018	45.756	2.232
AdmitSourceXferHospital	0.074	0.015	4.968	1.076	0.053	0.012	4.318	1.055
Age75To79	0.637	0.021	30.380	1.890	0.633	0.018	35.998	1.884
SexFemale	*	*	*	*	-0.091	0.010	-9.516	0.913
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.525	0.068	7.741	1.690	0.837	0.054	15.545	2.309
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.056	0.013	4.397	1.057	0.069	0.010	6.661	1.071
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED (250.01)	*	*	*	*	0.357	0.104	3.422	1.429
MALNUTRITION (Multiple)	*	*	*	*	0.233	0.023	10.239	1.262
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.177	0.044	4.073	1.194	0.346	0.037	9.357	1.413
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	*	*	*	*	0.123	0.018	6.745	1.131
ACIDOSIS (276.2)	0.784	0.019	40.530	2.190	0.616	0.018	35.124	1.851
DEHYDRATION (Multiple)	*	*	*	*	0.045	0.022	2.046	1.046
HYPERPOTASSEMIA (276.7)	0.418	0.023	17.947	1.519	0.363	0.020	18.177	1.438
BODY MASS INDEX 40 AND OVER (Multiple)	0.096	0.028	3.432	1.101	0.088	0.024	3.747	1.092
OBESITY HYPOVENTILATION SYNDROME (278.03)	*	*	*	*	0.165	0.080	2.077	1.180
ANEMIA, UNSPECIFIED (285.9)	*	*	*	*	0.036	0.013	2.687	1.037
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*	*	*	*	0.262	0.026	10.080	1.299
ANOXIC BRAIN DAMAGE (348.1)	1.364	0.037	36.500	3.911	1.290	0.036	35.481	3.634
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.122	0.024	5.112	1.130
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.095	0.043	2.198	1.100	0.160	0.034	4.666	1.173
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.219	0.049	4.459	1.245	0.175	0.047	3.752	1.191
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.194	0.039	4.949	1.215	0.099	0.033	3.002	1.104
ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE (410.01)	1.214	0.033	36.322	3.368	1.023	0.030	34.344	2.782
ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE (410.11)	0.982	0.021	45.811	2.670	0.829	0.019	44.502	2.291
ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE (410.21)	0.926	0.041	22.756	2.525	0.750	0.036	20.905	2.117

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Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE (410.31)	0.940	0.049	19.237	2.561	0.742	0.044	16.970	2.101
ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE (410.41)	0.784	0.021	37.220	2.189	0.577	0.018	31.398	1.781
ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE (410.51)	0.942	0.052	18.262	2.564	0.776	0.045	17.091	2.173
ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE (410.61)	1.099	0.079	13.896	3.003	0.900	0.072	12.517	2.459
ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE (410.81)	1.023	0.070	14.551	2.782	0.825	0.063	13.103	2.283
ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE (410.91)	1.346	0.022	62.253	3.843	1.069	0.020	54.489	2.913
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.088	0.018	4.886	1.092	0.092	0.014	6.349	1.096
DISSECTION OF CORONARY ARTERY (414.12)	0.338	0.120	2.814	1.402	0.367	0.104	3.539	1.444
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY (414.2)	0.043	0.019	2.276	1.044	0.046	0.016	2.929	1.047
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.537	0.064	8.346	1.711	0.348	0.056	6.161	1.416
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.422	0.060	7.056	1.526	0.295	0.052	5.610	1.342
AORTIC VALVE DISORDERS (424.1)	0.127	0.020	6.331	1.135	0.175	0.016	11.000	1.192
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.237	0.039	6.046	1.267	0.199	0.035	5.640	1.220
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.128	0.031	4.095	1.136	0.053	0.026	2.042	1.055
ATRIAL FIBRILLATION (427.31)	0.044	0.013	3.454	1.045	0.096	0.010	9.260	1.101
CARDIAC ARREST (427.5)	1.508	0.025	59.686	4.516	1.311	0.024	54.073	3.711
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.037	0.012	3.042	1.038	0.217	0.010	21.765	1.242
LEFT HEART FAILURE (428.1)	*	*	*	*	0.357	0.108	3.309	1.430
HEART FAILURE, UNSPECIFIED (428.9)	0.635	0.100	6.356	1.887	0.547	0.088	6.191	1.728
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.312	0.065	4.798	1.366	0.457	0.055	8.374	1.579
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.185	0.046	3.992	1.203	0.260	0.038	6.947	1.297
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.431	0.044	9.871	1.539	0.350	0.037	9.569	1.419
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.190	0.017	11.005	1.210	0.190	0.014	13.543	1.209
HYPOTENSION, UNSP OR NEC (Multiple)	0.457	0.023	19.776	1.580	0.416	0.020	21.155	1.515
BACTERIAL PNEUMONIA (Multiple)	0.239	0.019	12.496	1.270	0.213	0.016	13.424	1.238
CHRONIC BRONCHITIS (Multiple)	*	*	*	*	0.050	0.021	2.335	1.051
OTHER EMPHYSEMA (492.8)	*	*	*	*	0.110	0.045	2.425	1.116
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.160	0.016	10.136	1.173	0.195	0.013	14.925	1.215
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.126	0.036	3.517	1.134	0.199	0.030	6.762	1.221

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Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PULMONARY CONGESTION AND HYPOSTASIS (514)	0.387	0.049	7.913	1.472	0.328	0.043	7.614	1.389
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.323	0.043	7.444	1.381	0.309	0.036	8.704	1.361
ACUTE RESPIRATORY FAILURE (518.81)	0.567	0.017	34.135	1.763	0.408	0.015	27.514	1.504
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.339	0.038	8.833	1.403	0.356	0.033	10.804	1.427
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.533	0.041	12.895	1.705	0.537	0.039	13.697	1.711
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.295	0.042	6.961	1.343	0.214	0.036	5.861	1.238
ACUTE RENAL FAILURE (Multiple)	0.376	0.014	26.858	1.457	0.336	0.012	28.329	1.400
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*	*	*	*	0.172	0.021	8.224	1.187
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*	*	*	*	0.169	0.072	2.350	1.184
END STAGE RENAL DISEASE (585.6)	0.846	0.048	17.432	2.329	0.894	0.048	18.578	2.444
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.226	0.017	13.046	1.253	0.247	0.014	17.296	1.280
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.120	0.036	3.370	1.128	0.151	0.029	5.274	1.163
DECUBITIS ULCER (Multiple)	*	*	*	*	0.309	0.031	10.007	1.362
OTHER CONVULSIONS (780.39)	0.406	0.073	5.553	1.500	0.396	0.063	6.287	1.486
ADULT FAILURE TO THRIVE (783.7)	0.207	0.050	4.097	1.229	0.506	0.040	12.534	1.658
CARDIOGENIC SHOCK (785.51)	1.147	0.018	61.837	3.147	0.974	0.017	55.831	2.649
CACHEXIA (799.4)	0.277	0.055	5.058	1.319	0.389	0.045	8.583	1.475
SEPSIS (995.91)	0.411	0.057	7.179	1.508	0.335	0.050	6.702	1.398
RENAL DIALYSIS (Multiple)	*	*	*	*	0.149	0.036	4.164	1.161
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.146	0.026	5.718	1.157
DO NOT RESUSCITATE STATUS (V49.86)	0.641	0.016	39.661	1.898	0.678	0.013	50.504	1.970
Palliative Care Risk Ragrdless of POA (V66.7)	2.987	0.019	156.570	19.829	2.893	0.020	143.154	18.051
PROCEDURE ON SINGLE VESSEL (00.40)	*	*	*	*	-0.053	0.022	-2.455	0.948
INSERTION OF ONE VASCULAR STENT (00.45)	-0.459	0.034	-13.694	0.632	-0.338	0.032	-10.724	0.713
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.373	0.037	-10.184	0.688	-0.232	0.032	-7.358	0.793
INSERTION OF THREE VASCULAR STENTS (00.47)	-0.283	0.047	-6.057	0.753	-0.163	0.039	-4.144	0.850
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	-0.144	0.028	-5.151	0.866	-0.147	0.029	-5.032	0.863
MITRAL VALVE REPLACEMENT (Multiple)	0.821	0.088	9.309	2.274	0.659	0.085	7.796	1.933
INSERTION OF NON-DRUG-ELUTING CORONARY ARTERY STENT(S) (36.06)	-0.221	0.043	-5.140	0.802	-0.251	0.038	-6.536	0.778
INSERTION OF DRUG-ELUTING CORONARY ARTERY STENT(S) (36.07)	-0.697	0.041	-17.139	0.498	-0.677	0.037	-18.473	0.508
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY (36.11)	*	*	*	*	-0.214	0.055	-3.860	0.808
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES (36.12)	-0.171	0.045	-3.797	0.843	-0.367	0.047	-7.774	0.693
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES (36.13)	-0.258	0.048	-5.394	0.773	-0.438	0.049	-8.999	0.645

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Heart Attack (Stent Treatment Available) (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES (36.14)	-0.340	0.066	-5.130	0.712	-0.515	0.064	-8.109	0.598
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.654	0.038	-17.392	0.520	-0.660	0.042	-15.584	0.517
DOUBLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.16)	-0.650	0.153	-4.258	0.522	-0.691	0.140	-4.941	0.501
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH (37.33)	0.377	0.125	3.020	1.458	0.282	0.113	2.493	1.326
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, ENDOVASCULAR APPROACH (37.34)	-0.944	0.200	-4.730	0.389	-0.791	0.154	-5.139	0.453
IMPLANT OF PULSATION BALLOON (37.61)	1.440	0.020	70.335	4.222	1.252	0.019	65.847	3.499
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE (37.68)	2.035	0.048	42.406	7.652	1.700	0.045	37.853	5.472

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Heart Attack (Stent Treatment Not Available)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	-0.238	0.090	-2.643	0.788	*	*	*	*
AdmitSourceXferNonHospital	*	*	*	*	0.389	0.106	3.664	1.475
AdmitSourceXferSkilledNursing	*	*	*	*	0.230	0.049	4.663	1.259
Age70To74	0.480	0.091	5.255	1.617	0.539	0.073	7.392	1.714
Age75To79	0.612	0.086	7.081	1.843	0.710	0.069	10.283	2.033
Age80To84	0.682	0.083	8.260	1.978	0.844	0.066	12.829	2.326
Age85To89	0.754	0.080	9.364	2.124	1.007	0.064	15.710	2.738
Age90AndOver	0.823	0.079	10.379	2.277	1.180	0.063	18.658	3.253
SexFemale	-0.228	0.031	-7.283	0.796	-0.270	0.024	-11.030	0.764
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.479	0.158	3.028	1.614	0.870	0.123	7.073	2.387
MALNUTRITION (Multiple)	*	*	*	*	0.226	0.052	4.366	1.253
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.270	0.093	2.908	1.310	0.686	0.075	9.174	1.986
ACIDOSIS (276.2)	0.536	0.065	8.303	1.709	0.323	0.058	5.627	1.382
DEHYDRATION (Multiple)	*	*	*	*	0.110	0.041	2.689	1.117
HYPERPOTASSEMIA (276.7)	0.518	0.058	9.010	1.679	0.521	0.048	10.729	1.683
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.246	0.110	2.241	1.279
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.195	0.047	4.105	1.215
ANOXIC BRAIN DAMAGE (348.1)	1.505	0.169	8.888	4.503	1.551	0.174	8.939	4.716
ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE (410.01)	1.584	0.144	10.999	4.872	1.218	0.132	9.223	3.380
ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE (410.11)	0.994	0.088	11.305	2.702	0.937	0.074	12.623	2.552
ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE (410.21)	1.003	0.183	5.468	2.725	0.723	0.161	4.477	2.060
ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE (410.31)	1.275	0.263	4.845	3.578	0.624	0.249	2.503	1.866
ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE (410.41)	1.121	0.097	11.596	3.068	0.874	0.085	10.335	2.397
ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE (410.51)	1.232	0.200	6.167	3.427	1.072	0.175	6.133	2.922
ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE (410.61)	*	*	*	*	0.679	0.321	2.119	1.972
ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE (410.81)	1.027	0.158	6.501	2.793	1.001	0.129	7.773	2.722
ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE (410.91)	1.630	0.040	40.641	5.106	1.320	0.035	37.888	3.744
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.488	0.148	3.286	1.628	0.363	0.125	2.899	1.438
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.560	0.186	3.015	1.751	0.442	0.163	2.719	1.556
ATRIAL FIBRILLATION (427.31)	0.082	0.033	2.497	1.086	0.119	0.026	4.650	1.127
VENTRICULAR FIBRILLATION (427.41)	0.979	0.210	4.659	2.662	0.807	0.206	3.924	2.241

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Heart Attack (Stent Treatment Not Available) (continued)

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CARDIAC ARREST (427.5)	3.005	0.109	27.475	20.190	2.607	0.114	22.818	13.559
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	*	*	*	*	0.171	0.025	6.891	1.186
HEART FAILURE, UNSPECIFIED (428.9)	0.692	0.225	3.073	1.998	*	*	*	*
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.332	0.137	2.419	1.394	0.483	0.114	4.254	1.622
HYPOTENSION, UNSP OR NEC (Multiple)	0.697	0.054	12.881	2.008	0.490	0.047	10.400	1.632
BACTERIAL PNEUMONIA (Multiple)	0.400	0.039	10.168	1.492	0.348	0.032	10.885	1.416
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	*	*	*	*	0.126	0.033	3.794	1.134
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.428	0.100	4.301	1.535	0.573	0.085	6.710	1.773
UNSPECIFIED PLEURAL EFFUSION (511.9)	*	*	*	*	0.250	0.073	3.450	1.284
PULMONARY CONGESTION AND HYPOSTASIS (514)	*	*	*	*	0.271	0.121	2.239	1.311
ACUTE RESPIRATORY FAILURE (518.81)	0.811	0.046	17.605	2.251	0.537	0.040	13.257	1.711
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.732	0.165	4.439	2.080	0.357	0.145	2.458	1.429
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.589	0.090	6.503	1.802	0.448	0.078	5.755	1.564
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.738	0.148	4.991	2.092	0.661	0.142	4.660	1.937
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.442	0.094	4.700	1.556	*	*	*	*
ACUTE RENAL FAILURE (Multiple)	0.505	0.036	14.206	1.657	0.429	0.029	14.842	1.536
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*	*	*	*	0.353	0.151	2.338	1.423
END STAGE RENAL DISEASE (585.6)	0.702	0.094	7.435	2.018	0.714	0.077	9.233	2.042
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.165	0.043	3.853	1.180	0.137	0.034	4.006	1.147
RENAL FAILURE, UNSPECIFIED (586)	0.825	0.210	3.921	2.283	0.811	0.186	4.349	2.250
DECUBITIS ULCER (Multiple)	*	*	*	*	0.476	0.061	7.809	1.610
ADULT FAILURE TO THRIVE (783.7)	*	*	*	*	0.362	0.079	4.598	1.436
CARDIOGENIC SHOCK (785.51)	1.970	0.075	26.291	7.169	1.720	0.077	22.448	5.584
DYSPHAGIA (Multiple)	*	*	*	*	0.145	0.063	2.296	1.156
HYPOXEMIA (799.02)	0.161	0.066	2.439	1.175	0.155	0.053	2.899	1.167
CACHEXIA (799.4)	0.322	0.125	2.574	1.380	0.359	0.102	3.504	1.432
SEPSIS (995.91)	0.767	0.118	6.484	2.153	0.564	0.106	5.315	1.757
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.123	0.060	2.060	1.131
DO NOT RESUSCITATE STATUS (V49.86)	0.497	0.034	14.688	1.644	0.512	0.027	18.993	1.669
Palliative Care Risk Ragrdless of POA (V66.7)	2.212	0.046	47.550	9.134	2.228	0.048	46.128	9.283

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Heart Failure

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	0.201	0.044	4.623	1.223	0.244	0.028	8.828	1.276
Age70To74	0.227	0.024	9.570	1.254	0.252	0.015	17.168	1.287
AdmitSourceXferHospital	0.264	0.022	12.095	1.302	0.195	0.014	13.448	1.215
AdmitSourceXferSkilledNursing	0.339	0.021	15.997	1.404	0.534	0.013	40.092	1.706
Age80To84	0.593	0.022	27.367	1.809	0.650	0.013	48.487	1.915
Age85To89	0.704	0.022	32.676	2.021	0.829	0.013	62.405	2.292
Age90AndOver	0.807	0.022	36.876	2.242	1.090	0.013	81.045	2.974
Age75To79	0.408	0.023	18.071	1.503	0.436	0.014	31.166	1.546
PrimaryFacilityPresentOnAdmissionKnownPercent	0.375	0.057	6.594	1.455	*	*	*	*
SexFemale	-0.171	0.010	-16.324	0.843	-0.181	0.006	-28.502	0.834
MYELODYSPLASTIC SYNDROME, UNSPECIFIED (238.75)	*	*	*	*	0.305	0.029	10.398	1.356
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	*	*	*	*	0.080	0.022	3.730	1.084
MALNUTRITION (Multiple)	0.416	0.019	22.297	1.516	0.494	0.012	40.677	1.639
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.395	0.033	12.101	1.484	0.486	0.022	22.014	1.625
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.310	0.015	20.250	1.364	0.305	0.010	31.732	1.357
ACIDOSIS (276.2)	0.501	0.020	25.276	1.651	0.335	0.014	23.474	1.398
DEHYDRATION (Multiple)	0.468	0.025	18.846	1.597	0.379	0.016	22.966	1.460
HYPERPOTASSEMIA (276.7)	0.501	0.017	29.426	1.651	0.446	0.011	39.528	1.562
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED (276.9)	0.150	0.066	2.290	1.162	0.118	0.042	2.822	1.125
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.123	0.021	5.864	1.131	0.148	0.013	11.338	1.159
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.243	0.038	6.386	1.276
DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE (293.0)	0.211	0.057	3.728	1.235	0.318	0.038	8.447	1.375
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.376	0.076	4.972	1.456	0.412	0.047	8.816	1.510
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.288	0.017	16.749	1.333
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	*	*	*	*	0.131	0.024	5.547	1.140
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.158	0.030	5.285	1.172	0.192	0.018	10.430	1.211
MULTIPLE INVOLVEMENT OF MITRAL AND AORTIC VALVES (396.8)	*	*	*	*	0.133	0.041	3.283	1.143
RHEUMATIC HEART FAILURE (CONGESTIVE) (398.91)	-0.533	0.124	-4.282	0.587	-0.319	0.084	-3.796	0.727
HYPERTENSIVE HEART DISEASE, MALIGNANT, WITH HEART FAILURE (402.01)	-0.940	0.164	-5.745	0.391	-0.936	0.093	-10.056	0.392
HYPERTENSIVE HEART DISEASE, BENIGN, WITH HEART FAILURE (402.11)	*	*	*	*	-0.246	0.101	-2.438	0.782
HYPERTENSIVE HEART DISEASE, UNSPECIFIED, WITH HEART FAILURE (402.91)	*	*	*	*	-0.309	0.025	-12.227	0.734
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.164	0.048	3.443	1.178	0.106	0.042	2.520	1.112
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, MALIGNANT, WITH HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED (404.01)	-0.967	0.103	-9.360	0.380	-0.734	0.057	-12.959	0.480

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Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIE (404.91)	0.182	0.020	9.368	1.200	*	*	*	*
ANTERIOR/LATERAL WALL AMI (Multiple)	1.429	0.059	24.207	4.174	0.933	0.047	19.738	2.543
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.424	0.026	16.601	1.529	0.361	0.018	20.349	1.435
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, SUBSEQUENT EPISODE OF CARE (410.72)	0.283	0.049	5.768	1.327	0.413	0.031	13.471	1.511
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.137	0.062	2.205	1.146	*	*	*	*
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.057	0.014	4.006	1.059	0.059	0.009	6.727	1.061
PULMONARY HYPERTENSION (Multiple)	0.027	0.012	2.247	1.027	0.052	0.007	7.239	1.054
AORTIC VALVE DISORDERS (424.1)	0.161	0.016	10.403	1.175	0.195	0.010	20.593	1.216
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.112	0.028	4.048	1.119	0.072	0.018	4.094	1.075
ATRIAL FIBRILLATION (427.31)	0.126	0.010	12.436	1.135	0.114	0.006	18.474	1.121
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	-0.288	0.023	-12.585	0.750	-0.145	0.014	-10.027	0.865
LEFT HEART FAILURE (428.1)	-0.226	0.108	-2.084	0.798	*	*	*	*
UNSPECIFIED SYSTOLIC HEART FAILURE (428.20)	-0.353	0.056	-6.338	0.702	-0.199	0.035	-5.696	0.820
ACUTE SYSTOLIC HEART FAILURE (428.21)	-0.744	0.026	-29.089	0.475	-0.458	0.016	-29.105	0.632
CHRONIC SYSTOLIC HEART FAILURE (428.22)	-0.562	0.052	-10.729	0.570	-0.228	0.031	-7.298	0.796
ACUTE ON CHRONIC SYSTOLIC HEART FAILURE (428.23)	-0.719	0.015	-48.421	0.487	-0.363	0.009	-39.326	0.696
UNSPECIFIED DIASTOLIC HEART FAILURE (428.30)	-0.670	0.042	-15.774	0.512	-0.454	0.025	-18.045	0.635
ACUTE DIASTOLIC HEART FAILURE (428.31)	-1.074	0.026	-40.676	0.341	-0.709	0.015	-46.172	0.492
CHRONIC DIASTOLIC HEART FAILURE (428.32)	-0.701	0.054	-13.090	0.496	-0.424	0.032	-13.402	0.655
ACUTE ON CHRONIC DIASTOLIC HEART FAILURE (428.33)	-0.928	0.015	-61.502	0.395	-0.587	0.009	-63.104	0.556
UNSPECIFIED COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.40)	-0.331	0.095	-3.474	0.719	-0.181	0.060	-3.028	0.834
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.41)	-0.876	0.049	-17.811	0.417	-0.578	0.030	-19.343	0.561
CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.42)	-0.758	0.097	-7.839	0.468	-0.224	0.054	-4.117	0.799
ACUTE ON CHRONIC COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (428.43)	-0.811	0.019	-43.211	0.444	-0.443	0.012	-38.328	0.642
HEART FAILURE, UNSPECIFIED (428.9)	0.518	0.106	4.896	1.679	0.262	0.078	3.335	1.299
CARDIOVASCULAR DISEASE, UNSPECIFIED (429.2)	*	*	*	*	0.178	0.064	2.798	1.195
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*	*	*	*	0.113	0.027	4.265	1.120
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.032	0.016	1.980	1.033	0.055	0.010	5.556	1.056
HYPOTENSION, UNSP OR NEC (Multiple)	0.545	0.021	26.259	1.725	0.511	0.014	36.614	1.667
BACTERIAL PNEUMONIA (Multiple)	0.467	0.012	37.791	1.595	0.286	0.008	35.706	1.331

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Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED (485)	0.543	0.126	4.319	1.720	0.250	0.083	3.011	1.285
CHRONIC BRONCHITIS (Multiple)	*	*	*	*	0.093	0.010	9.438	1.097
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.128	0.012	10.330	1.137	0.180	0.008	23.254	1.198
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.689	0.037	18.536	1.992	0.559	0.027	20.686	1.749
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.165	0.017	9.485	1.180	0.187	0.011	17.082	1.205
PULMONARY CONGESTION AND HYPOSTASIS (514)	0.129	0.051	2.532	1.138	0.085	0.033	2.550	1.088
ACUTE RESPIRATORY FAILURE (518.81)	0.462	0.013	35.154	1.587	0.245	0.009	27.527	1.277
CHRONIC RESPIRATORY FAILURE (518.83)	*	*	*	*	0.175	0.020	8.927	1.192
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.555	0.017	32.045	1.742	0.496	0.012	42.258	1.642
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.231	0.043	5.434	1.260	0.245	0.027	9.050	1.278
ACUTE RENAL FAILURE (Multiple)	0.448	0.011	39.400	1.565	0.343	0.007	48.113	1.409
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.048	0.017	2.813	1.049	0.223	0.010	21.972	1.249
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*	*	*	*	0.211	0.043	4.936	1.235
END STAGE RENAL DISEASE (585.6)	0.933	0.050	18.606	2.541	0.822	0.040	20.294	2.275
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.215	0.013	16.268	1.240	0.209	0.008	25.568	1.232
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.091	0.029	3.075	1.095	0.144	0.017	8.349	1.154
DECUBITIS ULCER (Multiple)	0.475	0.022	21.497	1.607	0.686	0.014	49.320	1.986
ULCER OF LOWER LIMB, UNSPECIFIED (707.10)	0.280	0.049	5.705	1.324	0.356	0.030	11.891	1.428
ULCER OF OTHER PART OF FOOT (707.15)	0.233	0.052	4.434	1.262	0.331	0.031	10.560	1.393
ULCER OF OTHER PART OF LOWER LIMB (707.19)	0.271	0.056	4.835	1.311	0.315	0.034	9.136	1.370
ADULT FAILURE TO THRIVE (783.7)	0.416	0.028	15.024	1.516	0.668	0.018	36.325	1.950
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	0.119	0.051	2.328	1.126	0.081	0.031	2.644	1.084
DYSPHAGIA (Multiple)	0.117	0.026	4.600	1.124	0.358	0.016	22.628	1.430
OTHER ASCITES (789.59)	0.434	0.032	13.424	1.543	0.372	0.021	17.657	1.451
CACHEXIA (799.4)	0.514	0.034	14.977	1.673	0.555	0.024	23.547	1.742
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.122	0.011	11.383	1.129
DO NOT RESUSCITATE STATUS (V49.86)	0.871	0.012	73.411	2.389	0.720	0.008	94.214	2.055
Palliative Care Risk Ragrdless of POA (V66.7)	3.155	0.013	248.326	23.454	2.471	0.011	217.720	11.831
INSERTION OF ONE VASCULAR STENT (00.45)	-0.614	0.079	-7.783	0.541	-0.390	0.077	-5.083	0.677
INSERTION OF TWO VASCULAR STENTS (00.46)	-0.440	0.116	-3.802	0.644	-0.354	0.099	-3.561	0.702
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	*	*	*	*	-0.195	0.065	-3.004	0.823
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	*	*	*	*	-0.491	0.084	-5.877	0.612
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/ DEFIBRILLATOR, TOTAL SYSTEM [AICD] (37.94)	-1.798	0.131	-13.692	0.166	-1.221	0.073	-16.767	0.295

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Heart Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	3.175	0.020	163.206	23.917	2.127	0.018	120.584	8.392
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.907	0.033	88.642	18.293	1.899	0.030	63.081	6.682

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Pancreatitis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.287	0.073	3.936	1.332	0.250	0.058	4.290	1.284
AdmitSourceXferNonHospital	*	*	*	*	0.364	0.133	2.731	1.438
AdmitSourceXferSkilledNursing	*	*	*	*	0.494	0.095	5.192	1.639
Age70To74	0.237	0.075	3.159	1.268	0.219	0.058	3.764	1.244
Age75To79	0.526	0.074	7.088	1.693	0.425	0.058	7.255	1.529
Age80To84	0.629	0.076	8.237	1.875	0.709	0.058	12.176	2.033
Age85To89	0.843	0.078	10.735	2.323	0.899	0.060	14.879	2.457
Age90AndOver	0.897	0.086	10.439	2.453	1.231	0.064	19.343	3.424
PrimaryFacilityPresentOnAdmissionKnownPercent	1.496	0.290	5.154	4.462	0.612	0.189	3.232	1.844
SexFemale	-0.245	0.045	-5.472	0.783	-0.209	0.034	-6.070	0.812
SEPSIS (Multiple)	1.028	0.170	6.056	2.796	0.891	0.144	6.194	2.438
CARDIOMYOPATHY (Multiple)	0.465	0.104	4.478	1.592	0.240	0.085	2.827	1.271
MALNUTRITION (Multiple)	0.340	0.065	5.202	1.404	0.512	0.051	10.013	1.669
HYPOCALCEMIA (275.41)	0.908	0.111	8.182	2.480	0.761	0.095	7.978	2.141
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*	*	*	*	0.445	0.097	4.601	1.561
ACIDOSIS (276.2)	1.179	0.064	18.311	3.250	0.820	0.055	14.822	2.271
HYPERPOTASSEMIA (276.7)	0.353	0.092	3.849	1.424	0.315	0.074	4.263	1.371
BODY MASS INDEX 40 AND OVER (Multiple)	0.222	0.100	2.218	1.248	0.159	0.080	1.993	1.172
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.703	0.283	2.487	2.021	0.535	0.247	2.167	1.708
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.193	0.088	2.176	1.212	*	*	*	*
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*	*	*	*	0.569	0.280	2.033	1.767
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.317	0.085	3.721	1.373
PARALYSIS AGITANS (332.0)	0.425	0.174	2.449	1.529	0.392	0.129	3.047	1.481
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.392	0.083	4.724	1.480
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.780	0.182	4.285	2.181	0.489	0.161	3.040	1.631
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	*	*	*	*	0.116	0.052	2.210	1.123
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.454	0.115	3.950	1.575	0.378	0.089	4.262	1.459
PULMONARY HYPERTENSION (Multiple)	0.293	0.102	2.887	1.341	0.244	0.078	3.123	1.277
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.469	0.200	2.342	1.599	0.368	0.166	2.217	1.445
ATRIAL FIBRILLATION (427.31)	0.283	0.053	5.375	1.327	0.297	0.040	7.444	1.346
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.121	0.059	2.040	1.128	0.250	0.044	5.661	1.283
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	*	*	*	*	0.199	0.066	3.011	1.220
HYPOTENSION, UNSP OR NEC (Multiple)	0.337	0.110	3.059	1.401	0.288	0.089	3.230	1.334
BACTERIAL PNEUMONIA (Multiple)	0.410	0.096	4.271	1.506	0.384	0.075	5.118	1.468
CHRONIC BRONCHITIS (Multiple)	*	*	*	*	0.416	0.111	3.737	1.516
OTHER EMPHYSEMA (492.8)	*	*	*	*	0.313	0.150	2.094	1.368
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.238	0.061	3.907	1.268	0.295	0.045	6.504	1.344

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Pancreatitis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.514	0.202	2.541	1.672	0.515	0.163	3.154	1.673
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.210	0.098	2.143	1.233	0.374	0.075	4.993	1.453
ACUTE RESPIRATORY FAILURE (518.81)	1.093	0.108	10.086	2.983	0.777	0.098	7.947	2.174
PARALYTIC ILEUS (560.1)	0.395	0.102	3.884	1.484	0.281	0.083	3.380	1.324
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.893	0.187	4.773	2.442	0.692	0.158	4.390	1.997
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.380	0.144	9.566	3.976	1.018	0.131	7.799	2.768
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	*	*	*	*	0.502	0.139	3.615	1.652
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	*	*	*	*	0.463	0.101	4.575	1.588
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.00)	0.385	0.118	3.273	1.470	0.192	0.092	2.081	1.211
CALCULUS OF GALLBLADDER WITHOUT MENTION OF CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.20)	0.151	0.065	2.323	1.163	*	*	*	*
CALCULUS OF BILE DUCT WITH OTHER CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.40)	0.562	0.238	2.365	1.755	*	*	*	*
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION (574.60)	0.506	0.227	2.225	1.658	0.391	0.175	2.238	1.479
ACUTE CHOLECYSTITIS (575.0)	0.738	0.190	3.885	2.092	0.446	0.163	2.728	1.561
CHOLANGITIS (576.1)	0.419	0.116	3.618	1.520	*	*	*	*
ACUTE PANCREATITIS (577.0)	0.298	0.141	2.107	1.347	*	*	*	*
CHRONIC PANCREATITIS (577.1)	-0.450	0.088	-5.134	0.638	-0.267	0.059	-4.546	0.766
CYST AND PSEUDOCYST OF PANCREAS (577.2)	*	*	*	*	0.138	0.058	2.353	1.147
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.579	0.187	3.099	1.785	0.572	0.152	3.775	1.772
ACUTE RENAL FAILURE (Multiple)	0.694	0.050	13.861	2.003	0.623	0.040	15.734	1.864
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.263	0.106	2.483	1.301	0.301	0.083	3.605	1.351
END STAGE RENAL DISEASE (585.6)	0.689	0.118	5.847	1.991	0.806	0.089	9.036	2.238
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	*	*	*	*	0.126	0.057	2.201	1.135
DECUBITIS ULCER (Multiple)	*	*	*	*	0.468	0.106	4.428	1.597
DYSPHAGIA (Multiple)	*	*	*	*	0.294	0.094	3.128	1.342
OTHER ASCITES (789.59)	1.026	0.083	12.421	2.790	0.911	0.069	13.227	2.487
SEVERE SEPSIS (995.92)	0.616	0.232	2.657	1.852	0.560	0.209	2.677	1.750
DO NOT RESUSCITATE STATUS (V49.86)	0.783	0.065	11.986	2.187	0.812	0.050	16.266	2.252
Palliative Care Risk Ragrdless of POA (V66.7)	4.267	0.066	64.132	71.331	3.897	0.066	58.727	49.267
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.243	0.103	2.362	1.275
LAPAROSCOPIC CHOLECYSTECTOMY (51.23)	-1.176	0.105	-11.234	0.308	-0.878	0.073	-12.090	0.416

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Pneumonia

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferNonHospital	0.187	0.044	4.203	1.205	0.205	0.030	6.736	1.228
Age85To89	0.710	0.022	32.636	2.034	0.820	0.015	54.041	2.270
SexFemale	-0.129	0.010	-12.316	0.879	-0.247	0.007	-34.565	0.781
AdmitSourceXferSkilledNursing	0.195	0.020	9.518	1.215	0.351	0.014	25.185	1.421
PrimaryFacilityPresentOnAdmissionKnownPercent	0.182	0.047	3.892	1.200	-0.170	0.028	-6.114	0.844
AdmitSourceXferHospital	0.325	0.025	12.858	1.384	0.293	0.018	16.232	1.341
Age70To74	0.342	0.023	14.603	1.407	0.356	0.016	21.888	1.428
Age75To79	0.482	0.022	21.522	1.620	0.511	0.016	32.750	1.667
Age80To84	0.605	0.022	27.743	1.832	0.670	0.015	44.125	1.955
Age90AndOver	0.854	0.022	38.854	2.350	1.085	0.015	71.032	2.960
SEPSIS (Multiple)	0.552	0.074	7.466	1.737	0.320	0.059	5.446	1.377
CARDIOMYOPATHY (Multiple)	0.202	0.023	8.801	1.224	0.082	0.017	4.907	1.086
CANDIDIASIS OF MOUTH (112.0)	*	*	*	*	0.202	0.030	6.625	1.224
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.845	0.028	30.091	2.327	1.205	0.019	62.983	3.337
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE I [JUVENILE TYPE], NOT STATED AS UNCONTROLLED (250.01)	*	*	*	*	0.243	0.089	2.730	1.275
MALNUTRITION (Multiple)	0.381	0.016	23.285	1.464	0.472	0.012	39.197	1.603
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.681	0.026	26.575	1.976	0.915	0.018	49.441	2.496
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.059	0.016	3.633	1.060	0.038	0.011	3.352	1.038
ACIDOSIS (276.2)	0.672	0.020	33.094	1.958	0.444	0.016	27.518	1.559
DEHYDRATION (Multiple)	0.063	0.016	3.957	1.065	0.119	0.011	11.177	1.127
HYPERPOTASSEMIA (276.7)	0.434	0.022	19.886	1.544	0.404	0.016	25.215	1.498
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED (276.9)	0.194	0.058	3.327	1.214	0.169	0.041	4.106	1.184
ANEMIA, UNSPECIFIED (285.9)	*	*	*	*	0.089	0.009	9.791	1.093
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.123	0.023	5.412	1.131	0.096	0.016	6.026	1.101
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.315	0.036	8.630	1.370
VASCULAR DEMENTIA, UNCOMPLICATED (290.40)	*	*	*	*	0.102	0.038	2.675	1.107
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	*	*	*	*	0.164	0.046	3.551	1.179
DEMENTIA, UNSPECIFIED, WITHOUT BEHAVIORAL DISTURBANCE (294.20)	*	*	*	*	0.234	0.010	23.866	1.263
DEMENTIA, UNSPECIFIED, WITH BEHAVIORAL DISTURBANCE (294.21)	*	*	*	*	0.302	0.038	7.990	1.353
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.275	0.069	3.984	1.316	0.398	0.045	8.809	1.489
UNSPECIFIED PSYCHOSIS (298.9)	*	*	*	*	0.181	0.034	5.282	1.199
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.272	0.015	17.973	1.313
DEMENTIA WITH LEWY BODIES (331.82)	*	*	*	*	0.166	0.038	4.420	1.180
PARALYSIS AGITANS (332.0)	*	*	*	*	0.090	0.022	4.155	1.094
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.051	0.014	3.713	1.052

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Pneumonia (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.683	0.033	20.773	1.979	0.505	0.026	19.367	1.658
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.132	0.026	5.013	1.142	0.070	0.019	3.737	1.073
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.055	0.012	4.417	1.056
AORTIC VALVE DISORDERS (424.1)	0.050	0.024	2.061	1.051	0.068	0.017	4.044	1.070
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.280	0.046	6.083	1.323	0.176	0.034	5.211	1.193
ATRIAL FIBRILLATION (427.31)	0.209	0.011	18.865	1.232	0.183	0.008	23.910	1.200
ATRIAL FLUTTER (427.32)	0.164	0.034	4.788	1.179	0.117	0.025	4.720	1.124
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.277	0.011	24.962	1.319	0.279	0.008	35.939	1.322
ACUTE SYSTOLIC HEART FAILURE (Multiple)	*	*	*	*	0.206	0.020	10.448	1.228
HEART FAILURE, UNSPECIFIED (428.9)	0.579	0.110	5.242	1.784	0.411	0.083	4.978	1.509
CARDIOVASCULAR DISEASE, UNSPECIFIED (429.2)	0.395	0.094	4.208	1.484	0.281	0.065	4.301	1.325
HYPOTENSION, UNSP OR NEC (Multiple)	0.307	0.023	13.294	1.360	0.245	0.017	14.682	1.278
PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] (481)	-0.426	0.054	-7.923	0.653	-0.442	0.037	-11.869	0.643
PNEUMONIA DUE TO PSEUDOMONAS (482.1)	*	*	*	*	0.123	0.026	4.833	1.131
PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] (482.2)	-0.623	0.106	-5.867	0.536	-0.655	0.075	-8.689	0.519
PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS (482.30)	-0.713	0.124	-5.771	0.490	-0.433	0.077	-5.636	0.649
METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS (482.42)	0.123	0.031	4.006	1.131	0.216	0.022	9.907	1.241
PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] (482.82)	-0.242	0.092	-2.634	0.785	*	*	*	*
PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA (482.83)	-0.284	0.030	-9.506	0.753	-0.054	0.020	-2.738	0.947
LEGIONNAIRES' DISEASE (482.84)	*	*	*	*	-0.332	0.103	-3.222	0.718
BACTERIAL PNEUMONIA, UNSPECIFIED (482.9)	-0.260	0.030	-8.817	0.771	-0.197	0.020	-9.995	0.821
PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE (483.0)	*	*	*	*	-0.163	0.072	-2.247	0.850
BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED (485)	-0.188	0.063	-2.988	0.829	-0.195	0.041	-4.703	0.823
INFLUENZA WITH PNEUMONIA (487.0)	-0.141	0.029	-4.927	0.868	-0.317	0.021	-15.069	0.728
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.125	0.013	9.552	1.133	0.125	0.009	14.054	1.133
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.273	0.018	15.434	1.314	0.311	0.012	25.155	1.365
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.558	0.021	26.537	1.748	0.456	0.015	29.663	1.578
ACUTE RESPIRATORY FAILURE (518.81)	0.895	0.013	70.675	2.448	0.566	0.010	58.847	1.761
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.372	0.054	6.934	1.450	0.197	0.038	5.144	1.218
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.484	0.017	28.552	1.623	0.510	0.012	42.600	1.666
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.515	0.052	9.907	1.674	0.631	0.036	17.413	1.880

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Pneumonia (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.499	0.048	10.470	1.647	0.412	0.037	11.249	1.510
ACUTE RENAL FAILURE (Multiple)	0.305	0.013	23.332	1.357	0.170	0.010	17.963	1.185
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*	*	*	*	0.143	0.019	7.522	1.154
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*	*	*	*	0.358	0.060	5.991	1.430
END STAGE RENAL DISEASE (585.6)	0.431	0.029	14.980	1.538	0.616	0.020	30.857	1.852
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.188	0.016	11.542	1.207	0.181	0.011	15.935	1.199
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.149	0.030	4.915	1.161	0.116	0.020	5.720	1.123
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.061	0.016	3.902	1.063	0.151	0.010	14.351	1.163
DECUBITIS ULCER (Multiple)	0.283	0.022	12.856	1.328	0.557	0.016	35.273	1.746
PRESSURE ULCER, STAGE III (707.23)	*	*	*	*	0.105	0.036	2.923	1.111
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	*	*	*	*	0.151	0.042	3.608	1.163
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.236	0.045	5.253	1.267	0.312	0.031	10.166	1.366
OTHER CONVULSIONS (780.39)	0.216	0.072	3.011	1.241	0.215	0.049	4.405	1.240
ALTERED MENTAL STATUS (780.97)	0.271	0.032	8.338	1.311	0.374	0.021	17.445	1.453
ADULT FAILURE TO THRIVE (783.7)	0.222	0.027	8.342	1.248	0.568	0.018	31.590	1.764
SEPTIC SHOCK (785.52)	0.848	0.084	10.036	2.336	0.757	0.078	9.686	2.133
OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (786.09)	0.408	0.056	7.353	1.504	0.361	0.038	9.629	1.435
DYSPHAGIA (Multiple)	*	*	*	*	0.149	0.014	10.557	1.161
CACHEXIA (799.4)	0.481	0.030	15.981	1.617	0.557	0.023	24.653	1.746
SEPSIS (995.91)	0.551	0.077	7.179	1.735	0.499	0.060	8.365	1.647
SEVERE SEPSIS (995.92)	1.007	0.086	11.691	2.738	0.806	0.073	11.073	2.239
GASTROSTOMY STATUS (V44.1)	0.298	0.037	8.053	1.347	0.343	0.025	13.533	1.410
DO NOT RESUSCITATE STATUS (V49.86)	0.793	0.012	65.850	2.211	0.695	0.009	80.480	2.003
Palliative Care Risk Ragrdless of POA (V66.7)	3.330	0.014	232.990	27.950	2.927	0.014	203.116	18.672
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.140	0.020	7.086	1.151
TRANSFUSION OF PACKED CELLS (99.04)	1.119	0.020	55.191	3.061	0.732	0.016	44.365	2.080

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Pulmonary Embolism

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age90AndOver	0.463	0.059	7.888	1.588	0.895	0.044	20.429	2.447
AdmitSourceXferSkilledNursing	0.156	0.069	2.253	1.169	0.389	0.050	7.797	1.476
Age75To79	0.236	0.051	4.628	1.266	0.337	0.040	8.523	1.400
Age85To89	0.421	0.053	7.979	1.524	0.674	0.040	16.651	1.962
Age70To74	0.114	0.052	2.198	1.121	0.156	0.041	3.840	1.169
Age80To84	0.316	0.051	6.226	1.372	0.466	0.039	11.840	1.593
PrimaryFacilityPresentOnAdmissionKnownPercent	1.163	0.202	5.761	3.200	0.724	0.139	5.208	2.063
SexFemale	*	*	*	*	-0.134	0.022	-6.069	0.874
AdmitSourceXferHospital	0.390	0.051	7.623	1.477	0.345	0.041	8.450	1.412
SEPSIS (Multiple)	0.660	0.133	4.966	1.935	0.497	0.114	4.349	1.643
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	*	*	*	*	0.702	0.126	5.574	2.018
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.567	0.081	7.025	1.764	1.085	0.055	19.569	2.958
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.479	0.146	3.274	1.614	0.605	0.107	5.657	1.831
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.138	0.035	3.999	1.148	0.099	0.026	3.757	1.104
MALNUTRITION (Multiple)	0.218	0.053	4.114	1.244	0.363	0.041	8.922	1.438
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*	*	*	*	0.562	0.075	7.480	1.754
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.163	0.055	2.939	1.177	0.340	0.040	8.447	1.405
ACIDOSIS (276.2)	0.894	0.050	17.899	2.444	0.679	0.044	15.585	1.973
MIXED ACID-BASE BALANCE DISORDER (276.4)	0.352	0.156	2.261	1.421	0.333	0.138	2.415	1.395
DEHYDRATION (Multiple)	0.191	0.055	3.495	1.210	0.250	0.042	5.961	1.284
HYPERPOTASSEMIA (276.7)	0.586	0.064	9.161	1.797	0.459	0.053	8.595	1.582
ANEMIA IN NEOPLASTIC DISEASE (285.22)	*	*	*	*	0.666	0.112	5.930	1.947
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.589	0.163	3.620	1.803	0.439	0.136	3.236	1.550
OTHER SECONDARY THROMBOCYTOPENIA (287.49)	0.315	0.159	1.978	1.371	0.408	0.119	3.424	1.504
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	*	*	*	*	0.212	0.052	4.107	1.236
ANOXIC BRAIN DAMAGE (348.1)	1.233	0.118	10.408	3.432	1.231	0.112	10.991	3.425
ENCEPHALOPATHY (Multiple)	0.157	0.070	2.256	1.170	0.243	0.055	4.444	1.276
ANTERIOR/LATERAL WALL AMI (Multiple)	1.708	0.164	10.423	5.516	1.292	0.151	8.580	3.639
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.343	0.079	4.314	1.409	0.239	0.067	3.562	1.269
INTERMEDIATE CORONARY SYNDROME (411.1)	0.652	0.196	3.332	1.920	0.394	0.164	2.403	1.483
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.209	0.077	2.712	1.233	0.241	0.058	4.189	1.273
IATROGENIC PULMONARY EMBOLISM AND INFARCTION (415.11)	-0.677	0.122	-5.536	0.508	-0.810	0.098	-8.248	0.445
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.479	0.130	3.695	1.615	0.272	0.105	2.587	1.312
ATRIAL FIBRILLATION (427.31)	0.236	0.033	7.065	1.267	0.261	0.025	10.419	1.298

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Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CARDIAC ARREST (427.5)	2.748	0.072	38.332	15.605	2.463	0.069	35.826	11.735
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.121	0.057	2.144	1.129	*	*	*	*
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.293	0.033	8.870	1.341	0.346	0.025	13.876	1.413
HEART FAILURE, UNSPECIFIED (428.9)	1.033	0.229	4.508	2.808	0.805	0.197	4.084	2.237
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.882	0.188	4.697	2.415	0.637	0.164	3.893	1.891
CEREBRAL ATHEROSCLEROSIS (437.0)	*	*	*	*	0.338	0.118	2.859	1.402
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.139	0.063	2.203	1.149	0.157	0.046	3.390	1.171
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	*	*	*	*	0.108	0.039	2.751	1.114
HYPOTENSION, UNSP OR NEC (Multiple)	0.700	0.051	13.717	2.015	0.494	0.042	11.630	1.638
BACTERIAL PNEUMONIA (Multiple)	0.358	0.038	9.339	1.430	0.349	0.029	12.046	1.418
CHRONIC BRONCHITIS (Multiple)	*	*	*	*	0.312	0.040	7.765	1.366
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.136	0.039	3.509	1.146	0.220	0.029	7.503	1.246
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.269	0.101	2.660	1.309	0.350	0.082	4.272	1.420
UNSPECIFIED PLEURAL EFFUSION (511.9)	*	*	*	*	0.131	0.042	3.099	1.140
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.667	0.072	9.302	1.949	0.612	0.055	11.106	1.845
ACUTE RESPIRATORY FAILURE (518.81)	0.648	0.035	18.663	1.911	0.472	0.028	16.908	1.603
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.468	0.063	7.419	1.596	0.497	0.050	9.997	1.643
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.735	0.268	2.739	2.086	*	*	*	*
PARALYTIC ILEUS (560.1)	0.581	0.185	3.138	1.787	0.423	0.156	2.712	1.526
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	*	*	*	*	0.492	0.222	2.220	1.636
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	*	*	*	*	0.371	0.130	2.842	1.449
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.721	0.118	6.091	2.056	0.712	0.094	7.584	2.039
ACUTE RENAL FAILURE (Multiple)	0.458	0.037	12.467	1.581	0.268	0.030	9.062	1.307
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*	*	*	*	0.150	0.075	2.004	1.161
END STAGE RENAL DISEASE (585.6)	0.756	0.100	7.549	2.129	0.810	0.080	10.128	2.248
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.187	0.051	3.687	1.206	0.137	0.039	3.487	1.147
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.271	0.087	3.101	1.311	*	*	*	*
CELLULITIS AND ABSCESS OF LEG, EXCEPT FOOT (682.6)	*	*	*	*	0.249	0.096	2.585	1.283
DECUBITIS ULCER (Multiple)	*	*	*	*	0.383	0.057	6.667	1.466
PRESSURE ULCER, STAGE III (707.23)	0.374	0.163	2.294	1.454	0.354	0.126	2.800	1.424
COMA (780.01)	1.769	0.259	6.840	5.867	1.668	0.249	6.689	5.301
OTHER CONVULSIONS (780.39)	0.426	0.168	2.531	1.531	*	*	*	*
ALTERED MENTAL STATUS (780.97)	*	*	*	*	0.242	0.106	2.282	1.274

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Pulmonary Embolism (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
ADULT FAILURE TO THRIVE (783.7)	*	*	*	*	0.446	0.068	6.512	1.562
SHOCK, UNSPECIFIED (785.50)	1.470	0.102	14.355	4.347	1.119	0.096	11.658	3.062
CARDIOGENIC SHOCK (785.51)	1.365	0.085	16.101	3.915	1.140	0.080	14.329	3.127
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.989	0.121	8.190	2.688	0.721	0.112	6.464	2.056
SWELLING, MASS, OR LUMP IN CHEST (786.6)	*	*	*	*	0.263	0.087	3.024	1.301
DYSPHAGIA (Multiple)	*	*	*	*	0.201	0.052	3.853	1.222
OTHER ASCITES (789.59)	1.009	0.117	8.636	2.743	1.309	0.092	14.223	3.704
CACHEXIA (799.4)	0.621	0.103	6.018	1.862	0.595	0.082	7.208	1.812
SEVERE SEPSIS (995.92)	0.927	0.183	5.072	2.527	0.882	0.166	5.316	2.415
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*	*	*	*	0.315	0.080	3.922	1.370
GASTROSTOMY STATUS (V44.1)	0.348	0.153	2.266	1.416	0.321	0.118	2.722	1.378
DEPENDENCE ON RESPIRATOR, STATUS (V46.11)	1.320	0.213	6.199	3.745	1.224	0.193	6.355	3.401
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	*	*	*	*	0.095	0.044	2.176	1.100
DO NOT RESUSCITATE STATUS (V49.86)	0.665	0.038	17.540	1.944	0.696	0.029	24.175	2.005
Palliative Care Risk Ragrdless of POA (V66.7)	3.230	0.044	74.247	25.271	2.855	0.042	67.113	17.373
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	*	*	*	*	0.314	0.075	4.161	1.368
TEMPORARY TRACHEOSTOMY (31.1)	-0.833	0.234	-3.565	0.435	-0.748	0.209	-3.577	0.473
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	0.981	0.099	9.937	2.668	0.546	0.086	6.309	1.726
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	0.881	0.142	6.201	2.414	0.703	0.122	5.761	2.019
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	1.296	0.187	6.916	3.654	1.080	0.169	6.391	2.943
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.522	0.125	4.176	1.685	0.390	0.109	3.595	1.477
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	1.609	0.163	9.865	5.000	1.025	0.151	6.789	2.787

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Respiratory Failure

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.355	0.018	19.659	1.426	0.274	0.016	17.192	1.315
AdmitSourceXferSkilledNursing	0.113	0.022	5.085	1.120	0.340	0.018	18.438	1.405
Age75To79	0.458	0.017	26.413	1.581	0.504	0.014	34.918	1.655
Age90AndOver	0.869	0.021	41.227	2.385	1.049	0.018	58.609	2.854
AdmitSourceXferNonHospital	0.284	0.038	7.359	1.328	0.294	0.033	8.822	1.341
Age80To84	0.608	0.018	34.116	1.836	0.676	0.015	45.378	1.966
Age85To89	0.693	0.019	36.446	1.999	0.813	0.016	50.925	2.254
Age70To74	0.279	0.017	16.118	1.322	0.310	0.014	21.630	1.364
SexFemale	-0.173	0.011	-16.293	0.842	-0.204	0.009	-23.046	0.816
PrimaryFacilityPresentOnAdmissionKnownPercent	1.316	0.078	16.881	3.728	1.013	0.062	16.361	2.753
SEPSIS (Multiple)	0.575	0.038	15.112	1.777	0.493	0.030	16.247	1.637
SARCOIDOSIS (135)	0.296	0.078	3.785	1.344	0.206	0.066	3.121	1.229
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	0.280	0.072	3.886	1.323	0.639	0.058	10.941	1.895
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.841	0.032	26.704	2.319	0.995	0.027	36.468	2.705
MALIGNANT NEOPLASM OF BREAST (FEMALE), UNSPECIFIED (174.9)	0.265	0.093	2.851	1.303	0.294	0.078	3.766	1.342
MALIGNANT NEOPLASM OF PROSTATE (185)	0.221	0.068	3.229	1.247	0.137	0.059	2.307	1.147
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.418	0.072	5.784	1.519	0.371	0.063	5.889	1.449
MULTIPLE MYELOMA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (203.00)	0.296	0.078	3.809	1.345	0.272	0.068	3.977	1.312
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.10)	*	*	*	*	0.145	0.061	2.387	1.156
MALNUTRITION (Multiple)	0.123	0.017	7.171	1.131	0.260	0.014	18.015	1.298
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.137	0.025	5.464	1.147	0.301	0.022	13.951	1.351
ACIDOSIS (276.2)	0.314	0.014	22.942	1.368	0.234	0.012	19.716	1.263
MIXED ACID-BASE BALANCE DISORDER (276.4)	0.274	0.031	8.829	1.315	0.235	0.027	8.797	1.265
HYPERPOTASSEMIA (276.7)	0.225	0.018	12.803	1.252	0.252	0.015	16.716	1.287
ELECTROLYTE AND FLUID DISORDERS NOT ELSEWHERE CLASSIFIED (276.9)	*	*	*	*	0.111	0.051	2.173	1.117
ANEMIA IN NEOPLASTIC DISEASE (285.22)	*	*	*	*	0.264	0.075	3.534	1.302
ANEMIA, UNSPECIFIED (285.9)	*	*	*	*	0.038	0.012	3.205	1.038
DEFIBRINATION SYNDROME (286.6)	1.481	0.124	11.956	4.399	1.280	0.122	10.499	3.598
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.771	0.056	13.709	2.162	0.614	0.052	11.713	1.848
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.082	0.022	3.714	1.086	0.109	0.019	5.787	1.116
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.144	0.065	2.208	1.155
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*	*	*	*	0.308	0.072	4.265	1.360
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.134	0.025	5.264	1.143
ANOXIC BRAIN DAMAGE (348.1)	1.720	0.026	65.324	5.582	1.558	0.026	60.028	4.748
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	*	*	*	*	0.099	0.045	2.185	1.104

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Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	*	*	*	*	0.096	0.037	2.598	1.100
ANTERIOR/LATERAL WALL AMI (Multiple)	1.282	0.056	23.086	3.603	1.056	0.054	19.713	2.876
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.278	0.022	12.530	1.321	0.234	0.020	11.734	1.263
INTERMEDIATE CORONARY SYNDROME (411.1)	*	*	*	*	0.204	0.069	2.948	1.227
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.082	0.017	4.951	1.086	0.075	0.014	5.351	1.078
ACUTE COR PULMONALE (415.0)	0.300	0.088	3.406	1.349	0.395	0.070	5.630	1.484
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.595	0.038	15.716	1.813	0.476	0.034	13.913	1.610
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.041	0.012	3.492	1.042
ATRIAL FIBRILLATION (427.31)	0.199	0.011	18.043	1.221	0.238	0.009	25.607	1.269
VENTRICULAR FIBRILLATION (427.41)	0.843	0.058	14.640	2.322	0.784	0.057	13.757	2.191
CARDIAC ARREST (427.5)	1.702	0.023	75.252	5.485	1.490	0.022	66.968	4.436
HEART FAILURE, UNSPECIFIED (428.9)	0.398	0.109	3.662	1.488	0.312	0.094	3.304	1.367
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.939	0.047	19.908	2.558	0.811	0.045	18.184	2.250
HYPOTENSION, UNSP OR NEC (Multiple)	0.506	0.020	25.948	1.658	0.415	0.017	23.901	1.514
BACTERIAL PNEUMONIA (Multiple)	0.296	0.011	26.020	1.344	0.244	0.010	25.397	1.276
OTHER EMPHYSEMA (492.8)	0.238	0.040	5.940	1.268	0.181	0.034	5.292	1.199
ASTHMA (Multiple)	0.060	0.028	2.162	1.062	*	*	*	*
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.430	0.014	31.779	1.537	0.396	0.012	34.110	1.485
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.256	0.018	14.075	1.292	0.285	0.016	17.627	1.330
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.116	0.023	5.013	1.124	0.188	0.020	9.493	1.207
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.526	0.020	25.618	1.692	0.545	0.017	31.698	1.724
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	-0.552	0.011	-49.048	0.576	-0.195	0.009	-21.346	0.823
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.918	0.105	8.781	2.505	0.801	0.098	8.207	2.227
PARALYTIC ILEUS (560.1)	0.154	0.069	2.244	1.167	0.166	0.061	2.722	1.180
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	1.052	0.099	10.624	2.865	0.738	0.094	7.809	2.092
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.589	0.045	12.991	1.802	0.537	0.044	12.232	1.711
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.437	0.053	8.245	1.548	0.394	0.046	8.481	1.482
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.607	0.039	15.440	1.834	0.504	0.036	14.009	1.656
ACUTE RENAL FAILURE (Multiple)	0.292	0.012	23.447	1.339	0.216	0.011	19.931	1.241
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	*	*	*	*	0.109	0.023	4.685	1.115
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	*	*	*	*	0.213	0.081	2.630	1.238
END STAGE RENAL DISEASE (585.6)	0.348	0.025	14.150	1.416	0.325	0.042	7.710	1.384
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.163	0.017	9.616	1.177	0.158	0.015	10.851	1.171

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Respiratory Failure (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
RENAL FAILURE, UNSPECIFIED (586)	1.318	0.113	11.675	3.736	1.205	0.104	11.522	3.335
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*	*	*	*	0.082	0.031	2.635	1.085
DECUBITIS ULCER (Multiple)	*	*	*	*	0.317	0.020	16.081	1.373
COMA (780.01)	1.242	0.044	27.943	3.463	1.144	0.044	26.009	3.138
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.133	0.042	3.132	1.142	0.181	0.036	4.967	1.198
ALTERED MENTAL STATUS (780.97)	0.099	0.032	3.136	1.105	0.155	0.027	5.781	1.168
ADULT FAILURE TO THRIVE (783.7)	0.303	0.033	9.165	1.354	0.541	0.028	19.178	1.717
SHOCK, UNSPECIFIED (785.50)	1.051	0.038	27.838	2.861	0.845	0.036	23.320	2.328
CARDIOGENIC SHOCK (785.51)	1.118	0.032	35.276	3.059	0.959	0.031	31.186	2.608
SEPTIC SHOCK (785.52)	0.716	0.072	9.884	2.047	0.686	0.054	12.607	1.985
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.851	0.044	19.111	2.341	0.661	0.042	15.620	1.936
OTHER ASCITES (789.59)	0.502	0.054	9.310	1.652	0.544	0.048	11.310	1.724
ABNORMAL COAGULATION PROFILE (790.92)	0.153	0.033	4.706	1.166	0.101	0.028	3.602	1.106
CACHEXIA (799.4)	0.369	0.031	12.007	1.446	0.428	0.026	16.431	1.534
SEVERE SEPSIS (995.92)	0.155	0.067	2.319	1.167	*	*	*	*
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*	*	*	*	0.092	0.029	3.173	1.096
GASTROSTOMY STATUS (V44.1)	*	*	*	*	0.090	0.030	3.021	1.095
DEPENDENCE ON RESPIRATOR, STATUS (V46.11)	0.319	0.034	9.467	1.376	0.135	0.030	4.468	1.145
DO NOT RESUSCITATE STATUS (V49.86)	0.830	0.013	65.334	2.293	0.874	0.011	80.356	2.396
Palliative Care Risk Ragrdless of POA (V66.7)	3.142	0.014	221.293	23.154	2.947	0.015	197.479	19.044
TEMPORARY TRACHEOSTOMY (31.1)	-1.048	0.039	-27.032	0.351	-0.870	0.033	-26.522	0.419
OTHER PERMANENT TRACHEOSTOMY (31.29)	-0.791	0.105	-7.543	0.453	-0.682	0.088	-7.723	0.505
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	0.634	0.022	28.688	1.886	0.422	0.020	21.213	1.525
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	0.980	0.036	27.155	2.664	0.693	0.034	20.552	2.000
THORACENTESIS (34.91)	-0.304	0.032	-9.468	0.738	-0.195	0.027	-7.213	0.823
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	0.455	0.041	11.103	1.576	0.310	0.038	8.255	1.364
ENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (96.6)	0.245	0.025	9.757	1.277	0.134	0.023	5.913	1.143
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	0.842	0.051	16.567	2.322	0.648	0.047	13.727	1.912

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Sepsis

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferSkilledNursing	0.074	0.009	8.319	1.077	0.248	0.008	32.287	1.281
AdmitSourceXferHospital	0.145	0.010	13.772	1.156	0.139	0.010	14.473	1.149
Age70To74	0.265	0.010	26.947	1.304	0.297	0.009	34.025	1.345
Age75To79	0.411	0.010	42.534	1.509	0.465	0.008	54.420	1.592
Age80To84	0.564	0.010	59.056	1.758	0.662	0.008	78.627	1.938
SexFemale	0.033	0.005	6.094	1.033	-0.031	0.005	-6.764	0.969
Age85To89	0.693	0.010	71.439	2.000	0.847	0.008	99.211	2.332
Age90AndOver	0.876	0.010	86.666	2.400	1.117	0.009	125.978	3.054
PrimaryFacilityPresentOnAdmissionKnownPercent	1.103	0.046	24.132	3.013	0.734	0.037	19.955	2.083
AdmitSourceXferNonHospital	0.139	0.019	7.170	1.149	0.206	0.017	12.119	1.228
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.216	0.011	19.764	1.241	0.204	0.010	21.341	1.226
STREPTOCOCCAL SEPTICEMIA (038.0)	-0.236	0.025	-9.447	0.790	-0.294	0.021	-13.908	0.745
STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED (038.10)	0.294	0.046	6.425	1.342	0.228	0.039	5.861	1.256
METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA (038.11)	0.435	0.026	16.519	1.545	0.262	0.023	11.436	1.300
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA (038.12)	0.506	0.025	20.517	1.659	0.387	0.021	18.087	1.473
PNEUMOCOCCAL SEPTICEMIA (038.2)	-0.128	0.036	-3.571	0.880	-0.341	0.032	-10.823	0.711
SEPTICEMIA DUE TO ANAEROBES (038.3)	0.218	0.033	6.682	1.244	*	*	*	*
SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED (038.40)	0.419	0.029	14.333	1.520	0.175	0.026	6.769	1.191
SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] (038.41)	-0.345	0.071	-4.854	0.708	-0.499	0.062	-8.023	0.607
SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI] (038.42)	-0.821	0.023	-35.219	0.440	-0.788	0.020	-40.302	0.455
SEPTICEMIA DUE TO PSEUDOMONAS (038.43)	*	*	*	*	-0.130	0.028	-4.625	0.878
SEPTICEMIA DUE TO SERRATIA (038.44)	*	*	*	*	-0.226	0.074	-3.052	0.798
OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS (038.49)	-0.384	0.024	-15.727	0.681	-0.438	0.021	-21.112	0.645
OTHER SPECIFIED SEPTICEMIAS (038.8)	0.260	0.030	8.723	1.298	0.095	0.026	3.678	1.100
UNSPECIFIED SEPTICEMIA (038.9)	0.307	0.019	15.931	1.359	0.113	0.017	6.818	1.120
CARDIOMYOPATHY (Multiple)	0.107	0.011	9.642	1.113	0.112	0.010	11.242	1.118
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED (153.9)	0.461	0.051	9.032	1.586	0.526	0.046	11.518	1.692
MALIGNANT NEOPLASM OF UPPER LOBE, BRONCHUS OR LUNG (162.3)	0.422	0.052	8.178	1.525	0.570	0.045	12.550	1.768
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.849	0.022	39.437	2.338	0.951	0.019	48.910	2.589
MALIGNANT NEOPLASM OF BREAST (FEMALE), UNSPECIFIED (174.9)	0.168	0.046	3.639	1.183	0.105	0.041	2.549	1.111
MALIGNANT NEOPLASM OF PROSTATE (185)	0.085	0.030	2.878	1.089	0.076	0.025	2.988	1.079
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	0.507	0.027	19.017	1.661	0.498	0.024	20.975	1.645
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	*	*	*	*	0.017	0.005	3.280	1.017

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Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
DIABETES WITH KETOACIDOSIS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.12)	0.125	0.036	3.514	1.134	*	*	*	*
DIABETES WITH KETOACIDOSIS, TYPE I [JUVENILE TYPE], UNCONTROLLED (250.13)	0.345	0.047	7.311	1.412	0.281	0.043	6.477	1.325
MALNUTRITION (Multiple)	*	*	*	*	0.186	0.006	30.098	1.204
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*	*	*	*	0.327	0.008	40.849	1.387
ACIDOSIS (276.2)	0.486	0.006	77.022	1.626	0.369	0.006	63.824	1.446
MIXED ACID-BASE BALANCE DISORDER (276.4)	0.575	0.019	30.251	1.777	0.466	0.018	25.452	1.593
HYPERPOTASSEMIA (276.7)	0.322	0.009	37.106	1.379	0.332	0.008	42.106	1.394
ANEMIA IN NEOPLASTIC DISEASE (285.22)	0.174	0.041	4.269	1.190	0.428	0.034	12.458	1.535
DEFIBRINATION SYNDROME (286.6)	1.213	0.025	49.058	3.362	1.119	0.024	45.831	3.062
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.640	0.020	32.780	1.897	0.576	0.019	31.066	1.780
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.072	0.009	7.678	1.074	0.073	0.008	8.761	1.076
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.096	0.025	3.828	1.100
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	0.226	0.034	6.585	1.254	0.358	0.029	12.392	1.430
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.101	0.009	11.150	1.106
GRAND MAL STATUS (345.3)	0.234	0.059	3.949	1.263	*	*	*	*
ANOXIC BRAIN DAMAGE (348.1)	0.738	0.024	30.473	2.092	0.694	0.024	29.566	2.001
ANTERIOR/LATERAL WALL AMI (Multiple)	1.179	0.029	40.551	3.250	1.061	0.028	37.614	2.890
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.236	0.010	22.470	1.266	0.244	0.010	25.420	1.276
INTERMEDIATE CORONARY SYNDROME (411.1)	0.369	0.051	7.227	1.446	0.284	0.046	6.136	1.329
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.068	0.009	7.727	1.070	0.059	0.008	7.721	1.061
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	*	*	*	*	0.063	0.012	5.222	1.065
OTHER PULMONARY EMBOLISM AND INFARCTION (415.19)	0.451	0.025	18.119	1.570	0.397	0.023	17.421	1.488
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS (421.0)	0.609	0.030	20.536	1.839	0.572	0.026	21.733	1.772
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.195	0.034	5.694	1.215	0.127	0.031	4.090	1.136
PAROXYSMAL VENTRICULAR TACHYCARDIA (427.1)	0.083	0.021	3.997	1.086	0.059	0.019	3.176	1.061
ATRIAL FIBRILLATION (427.31)	0.165	0.006	29.233	1.180	0.180	0.005	36.545	1.198
VENTRICULAR FIBRILLATION (427.41)	0.841	0.057	14.730	2.318	0.786	0.056	14.009	2.196
CARDIAC ARREST (427.5)	2.027	0.021	94.528	7.589	1.881	0.022	86.144	6.558
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.089	0.006	15.159	1.093	0.138	0.005	26.741	1.147
HEART FAILURE, UNSPECIFIED (428.9)	0.320	0.064	5.034	1.377	0.216	0.058	3.745	1.241
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.671	0.025	26.841	1.955	0.718	0.023	31.372	2.051
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.105	0.035	3.004	1.111	0.101	0.030	3.313	1.106
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE (440.24)	0.356	0.034	10.415	1.427	0.347	0.030	11.658	1.414

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Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.054	0.010	5.472	1.055	0.074	0.008	8.735	1.077
ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY (453.40)	0.098	0.034	2.855	1.103	0.181	0.030	5.984	1.199
HYPOTENSION, UNSP OR NEC (Multiple)	0.253	0.012	20.812	1.287	0.223	0.010	21.334	1.250
BACTERIAL PNEUMONIA (Multiple)	0.088	0.006	15.101	1.092	0.107	0.005	21.088	1.113
OTHER EMPHYSEMA (492.8)	0.125	0.025	5.068	1.133	0.072	0.022	3.310	1.075
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.170	0.007	24.550	1.185	0.172	0.006	28.527	1.188
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.075	0.008	9.440	1.078	0.253	0.007	35.978	1.288
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.096	0.012	7.885	1.100	0.129	0.011	11.895	1.138
PULMONARY CONGESTION AND HYPOSTASIS (514)	0.108	0.037	2.898	1.114	0.098	0.034	2.898	1.103
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.365	0.016	22.047	1.440	0.347	0.015	23.597	1.414
ACUTE RESPIRATORY FAILURE (518.81)	0.820	0.006	130.411	2.270	0.670	0.006	117.249	1.955
OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED (518.82)	0.374	0.033	11.312	1.454	0.300	0.029	10.284	1.350
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.354	0.010	34.481	1.425	0.369	0.009	40.703	1.447
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	1.127	0.026	44.094	3.088	0.947	0.025	38.096	2.578
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.973	0.021	46.599	2.645	0.841	0.020	41.725	2.318
PARALYTIC ILEUS (560.1)	0.236	0.020	11.813	1.266	0.147	0.018	8.018	1.159
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.842	0.024	35.730	2.320	0.655	0.022	29.168	1.926
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	0.694	0.016	44.720	2.003	0.670	0.015	44.270	1.954
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.521	0.020	26.192	1.684	0.586	0.018	32.656	1.797
ACUTE CHOLECYSTITIS (575.0)	0.120	0.030	3.954	1.127	*	*	*	*
ACUTE PANCREATITIS (577.0)	0.171	0.023	7.382	1.187	*	*	*	*
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.465	0.016	28.621	1.592	0.438	0.015	29.215	1.550
ACUTE RENAL FAILURE (Multiple)	0.198	0.006	34.239	1.219	0.182	0.005	36.025	1.200
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.094	0.014	6.972	1.099	0.166	0.012	14.237	1.181
CHRONIC KIDNEY DISEASE, STAGE V (585.5)	0.431	0.039	11.076	1.539	0.505	0.035	14.469	1.657
END STAGE RENAL DISEASE (585.6)	0.826	0.014	56.952	2.285	0.881	0.013	66.774	2.413
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.156	0.008	19.074	1.169	0.159	0.007	22.237	1.173
RENAL FAILURE, UNSPECIFIED (586)	1.359	0.055	24.900	3.894	1.217	0.051	23.783	3.378
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	0.069	0.019	3.606	1.072	0.084	0.016	5.195	1.088
DECUBITIS ULCER (Multiple)	0.115	0.008	13.459	1.122	0.321	0.008	40.721	1.379
ULCER OF OTHER PART OF LOWER LIMB (707.19)	0.145	0.032	4.497	1.156	0.182	0.028	6.563	1.200
PRESSURE ULCER, STAGE III (707.23)	*	*	*	*	0.094	0.014	6.519	1.099
PRESSURE ULCER, STAGE IV (707.24)	0.087	0.017	5.222	1.091	0.082	0.014	5.743	1.085

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Sepsis (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
SYSTEMIC LUPUS ERYTHEMATOSUS (710.0)	0.151	0.038	3.948	1.163	0.121	0.034	3.578	1.129
RHEUMATOID ARTHRITIS (714.0)	0.032	0.015	2.146	1.033	*	*	*	*
COMA (780.01)	1.134	0.034	33.592	3.109	1.069	0.034	31.249	2.913
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	*	*	*	*	0.043	0.021	2.056	1.043
OTHER CONVULSIONS (780.39)	0.085	0.028	3.033	1.089	0.096	0.025	3.869	1.101
ALTERED MENTAL STATUS (780.97)	0.242	0.017	14.294	1.274	0.292	0.015	19.972	1.339
ADULT FAILURE TO THRIVE (783.7)	0.209	0.013	15.812	1.232	0.448	0.011	39.172	1.566
GANGRENE (785.4)	0.438	0.025	17.477	1.549	0.461	0.022	20.939	1.586
SHOCK, UNSPECIFIED (785.50)	0.890	0.033	26.603	2.434	0.736	0.032	22.983	2.087
CARDIOGENIC SHOCK (785.51)	0.657	0.020	33.138	1.929	0.613	0.020	31.114	1.846
SEPTIC SHOCK (785.52)	0.912	0.006	139.238	2.488	0.741	0.006	123.774	2.099
OTHER SHOCK WITHOUT MENTION OF TRAUMA (785.59)	0.084	0.022	3.752	1.088	0.063	0.021	2.988	1.065
HEMOPTYSIS, UNSPECIFIED (786.30)	0.291	0.061	4.755	1.338	0.139	0.056	2.464	1.149
OTHER ASCITES (789.59)	0.751	0.017	44.003	2.118	0.802	0.016	50.405	2.230
ABNORMAL COAGULATION PROFILE (790.92)	0.152	0.015	10.023	1.164	0.147	0.014	10.908	1.158
CACHEXIA (799.4)	0.443	0.015	28.729	1.557	0.479	0.014	34.418	1.615
SEVERE SEPSIS (995.92)	0.468	0.006	71.735	1.597	0.293	0.006	52.218	1.340
PERSONAL HISTORY OF MALIGNANT NEOPLASM OF BRONCHUS AND LUNG (V10.11)	*	*	*	*	0.065	0.023	2.878	1.067
GASTROSTOMY STATUS (V44.1)	*	*	*	*	0.036	0.012	3.019	1.037
RENAL DIALYSIS (Multiple)	0.044	0.019	2.283	1.045	0.047	0.017	2.696	1.048
DEPENDENCE ON RESPIRATOR, STATUS (V46.11)	0.292	0.018	15.946	1.339	0.163	0.017	9.456	1.177
DO NOT RESUSCITATE STATUS (V49.86)	0.741	0.006	119.921	2.099	0.783	0.005	143.777	2.189
Palliative Care Risk Ragrdless of POA (V66.7)	2.700	0.007	365.599	14.887	2.751	0.008	344.532	15.653
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.111	0.014	7.714	1.117	0.202	0.013	15.871	1.223
TEMPORARY TRACHEOSTOMY (31.1)	-0.991	0.024	-41.192	0.371	-1.017	0.022	-45.766	0.362
CLOSED [ENDOSCOPIC] BIOPSY OF BRONCHUS (33.24)	0.443	0.014	30.976	1.557	0.330	0.013	24.641	1.392
INSERTION OF INTERCOSTAL CATHETER FOR DRAINAGE (34.04)	0.648	0.021	30.200	1.911	0.461	0.020	22.544	1.585
THORACENTESIS (34.91)	-0.216	0.017	-12.757	0.806	-0.156	0.015	-10.356	0.855
INSERTION OF OTHER (NASO-)GASTRIC TUBE (96.07)	0.560	0.022	25.905	1.751	0.474	0.021	22.907	1.606
PARENTERAL INFUSION OF CONCENTRATED NUTRITIONAL SUBSTANCES (99.15)	0.376	0.018	21.409	1.457	0.290	0.016	17.625	1.336

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Small Intestine Surgeries

	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.112	0.052	2.157	1.119	*	*	*	*
AdmitSourceXferSkilledNursing	0.453	0.079	5.755	1.573	0.510	0.067	7.643	1.666
Age80To84	0.671	0.052	12.885	1.956	0.839	0.046	18.264	2.315
Age85To89	0.897	0.054	16.686	2.453	1.154	0.047	24.457	3.172
SexFemale	-0.113	0.030	-3.759	0.893	-0.128	0.026	-4.911	0.880
Age70To74	0.307	0.053	5.794	1.360	0.326	0.047	6.894	1.386
Age75To79	0.474	0.052	9.023	1.606	0.588	0.046	12.693	1.800
Age90AndOver	1.088	0.060	18.183	2.968	1.480	0.052	28.600	4.394
PrimaryFacilityPresentOnAdmissionKnownPercent	1.972	0.226	8.731	7.187	1.759	0.190	9.239	5.808
INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE (008.45)	0.395	0.101	3.903	1.484	0.255	0.093	2.749	1.290
SEPSIS (Multiple)	0.434	0.049	8.901	1.543	0.472	0.043	10.915	1.603
CARDIOMYOPATHY (Multiple)	0.250	0.070	3.596	1.285	0.281	0.061	4.638	1.324
MALIGNANT NEOPLASM OF COLON, UNSPECIFIED (153.9)	*	*	*	*	0.343	0.134	2.551	1.409
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	*	*	*	*	0.504	0.173	2.910	1.656
GLUCOCORTICOID DEFICIENCY (255.41)	0.398	0.153	2.606	1.489	0.377	0.141	2.675	1.458
MALNUTRITION (Multiple)	*	*	*	*	0.107	0.032	3.384	1.113
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	*	*	*	*	0.150	0.065	2.301	1.161
ACIDOSIS (276.2)	0.630	0.044	14.396	1.877	0.557	0.040	13.852	1.746
HYPERPOTASSEMIA (276.7)	0.163	0.072	2.273	1.177	*	*	*	*
DEFIBRINATION SYNDROME (286.6)	1.172	0.191	6.131	3.227	1.206	0.193	6.261	3.342
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.716	0.120	5.968	2.047	0.723	0.112	6.437	2.062
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.145	0.070	2.063	1.156	*	*	*	*
ENCEPHALOPATHY (Multiple)	*	*	*	*	0.169	0.066	2.567	1.184
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.508	0.174	2.925	1.661	0.489	0.154	3.168	1.630
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.249	0.051	4.865	1.283	0.257	0.044	5.792	1.293
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.121	0.038	3.177	1.128	0.179	0.032	5.520	1.197
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.121	0.060	1.998	1.128
ATRIAL FIBRILLATION (427.31)	0.298	0.034	8.893	1.347	0.339	0.029	11.646	1.403
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.234	0.039	5.936	1.264	0.261	0.034	7.588	1.299
NARROWING OF CEREBRAL ARTERY (Multiple)	*	*	*	*	0.253	0.102	2.486	1.288
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.375	0.171	2.190	1.455	*	*	*	*
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.258	0.057	4.528	1.295	0.244	0.050	4.855	1.276
HYPOTENSION, UNSP OR NEC (Multiple)	*	*	*	*	0.166	0.073	2.260	1.180
BACTERIAL PNEUMONIA (Multiple)	0.195	0.067	2.894	1.215	0.200	0.060	3.362	1.222
CHRONIC BRONCHITIS (Multiple)	0.505	0.096	5.294	1.658	0.492	0.084	5.860	1.635
OTHER EMPHYSEMA (492.8)	*	*	*	*	0.235	0.108	2.183	1.265

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Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.376	0.039	9.759	1.457	0.375	0.034	11.107	1.455
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.499	0.119	4.180	1.647	0.513	0.104	4.931	1.671
ACUTE RESPIRATORY FAILURE (518.81)	0.465	0.067	6.980	1.593	0.488	0.062	7.878	1.629
ACUTE AND CHRONIC RESPIRATORY FAILURE (518.84)	0.523	0.128	4.102	1.688	0.512	0.115	4.464	1.669
INCISIONAL HERNIA WITH OBSTRUCTION (552.21)	0.246	0.091	2.709	1.279	*	*	*	*
OTHER VENTRAL HERNIA WITH OBSTRUCTION (552.29)	0.459	0.195	2.354	1.582	*	*	*	*
ULCERATIVE COLITIS, UNSPECIFIED (556.9)	0.414	0.160	2.596	1.513	*	*	*	*
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.471	0.039	12.172	1.601	0.452	0.035	12.995	1.572
CHRONIC VASCULAR INSUFFICIENCY OF INTESTINE (557.1)	0.487	0.106	4.590	1.627	0.470	0.097	4.840	1.599
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	0.406	0.046	8.831	1.500	0.404	0.041	9.799	1.498
UNSPECIFIED INTESTINAL OBSTRUCTION (560.9)	0.112	0.044	2.535	1.118	*	*	*	*
UNSPECIFIED PERITONITIS (567.9)	*	*	*	*	0.155	0.056	2.778	1.168
OTHER SPECIFIED DISORDERS OF PERITONEUM (568.89)	0.343	0.101	3.398	1.409	0.349	0.092	3.813	1.418
PERFORATION OF INTESTINE (569.83)	0.366	0.045	8.107	1.442	0.391	0.042	9.438	1.479
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.229	0.142	8.641	3.417	1.151	0.145	7.925	3.161
ALCOHOLIC CIRRHOSIS OF LIVER (571.2)	0.674	0.192	3.506	1.962	1.079	0.162	6.661	2.942
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.699	0.119	5.852	2.012	0.961	0.103	9.327	2.614
ACUTE PANCREATITIS (577.0)	0.448	0.140	3.208	1.566	0.303	0.128	2.361	1.354
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.276	0.113	2.441	1.317	0.240	0.100	2.408	1.271
ACUTE RENAL FAILURE (Multiple)	0.190	0.037	5.117	1.210	0.212	0.033	6.450	1.236
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.136	0.053	2.554	1.145	0.165	0.046	3.588	1.179
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.499	0.090	5.528	1.647	0.526	0.080	6.573	1.692
END STAGE RENAL DISEASE (585.6)	0.715	0.170	4.206	2.044	0.773	0.160	4.843	2.166
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.253	0.054	4.664	1.288	0.282	0.047	6.014	1.326
DECUBITIS ULCER (Multiple)	*	*	*	*	0.250	0.067	3.708	1.284
PRESSURE ULCER, STAGE IV (707.24)	0.418	0.202	2.072	1.519	*	*	*	*
OTHER CONVULSIONS (780.39)	0.467	0.232	2.008	1.595	*	*	*	*
ADULT FAILURE TO THRIVE (783.7)	*	*	*	*	0.337	0.074	4.545	1.401
SEPTIC SHOCK (785.52)	0.681	0.062	11.042	1.976	0.517	0.058	8.973	1.676
DYSPHAGIA (Multiple)	*	*	*	*	0.116	0.058	2.023	1.123
OTHER ASCITES (789.59)	0.135	0.054	2.473	1.144	*	*	*	*
CACHEXIA (799.4)	0.289	0.092	3.135	1.335	0.243	0.080	3.047	1.276
RENAL DIALYSIS (Multiple)	*	*	*	*	0.279	0.119	2.353	1.322
Palliative Care Risk Ragrdless of POA (V66.7)	2.972	0.042	71.422	19.536	3.460	0.046	75.372	31.820

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Small Intestine Surgeries (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.206	0.070	2.926	1.229	0.364	0.059	6.146	1.440
Other Stomach Procedures - Moderate Mortality (Multiple)	1.069	0.250	4.267	2.911	0.730	0.243	3.000	2.075
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG] (43.11)	-0.238	0.109	-2.182	0.788	-0.275	0.096	-2.859	0.759
Gastric Resection and Anastamosis - High Mortality (Multiple)	0.486	0.074	6.533	1.626	0.546	0.067	8.149	1.727
Other Stomach Procedures - High Mortality (Multiple)	0.652	0.255	2.558	1.919	0.648	0.226	2.866	1.911
Other Colon Procedures - High Mortality (Multiple)	0.471	0.121	3.897	1.602	0.410	0.113	3.619	1.507
Incisions of Small Intestine (Multiple)	0.229	0.102	2.232	1.257	*	*	*	*
Resection or Removal of Small Intestine (Multiple)	0.560	0.049	11.407	1.751	0.294	0.040	7.456	1.342
Colon Resection and Anostomosis - High Mortality (Multiple)	0.774	0.097	7.990	2.168	0.721	0.091	7.952	2.056
Colon Resection and Anostomosis - Moderate Mortality (Multiple)	0.227	0.059	3.869	1.255	0.189	0.053	3.543	1.208
SMALL-TO-SMALL INTESTINAL ANASTOMOSIS (45.91)	0.499	0.164	3.037	1.648	*	*	*	*
Rectal Resection and Anostomosis (Multiple)	*	*	*	*	-0.456	0.156	-2.921	0.634
Exteriorization of Small Intestine (Multiple)	0.395	0.088	4.511	1.485	0.349	0.077	4.527	1.418
Stoma - High Mortality (Multiple)	0.636	0.062	10.182	1.889	0.755	0.057	13.255	2.127
Ileostomies (Multiple)	0.642	0.107	6.010	1.900	0.676	0.098	6.909	1.966
Other Enterostomies (Multiple)	0.695	0.067	10.402	2.005	0.851	0.058	14.612	2.342
PERCUTANEOUS [ENDOSCOPIC] JEJUNOSTOMY [PEJ] (46.32)	-1.154	0.107	-10.780	0.316	-0.514	0.074	-6.944	0.598
CLOSURE OF STOMA OF SMALL INTESTINE (46.51)	-0.593	0.075	-7.907	0.553	-0.674	0.062	-10.818	0.510
Other Colon Procedures - Low Mortality (Multiple)	0.486	0.159	3.060	1.626	*	*	*	*
Other Repair of Small Intestine (Multiple)	0.442	0.185	2.387	1.557	*	*	*	*
SUTURE OF LACERATION OF SMALL INTESTINE, EXCEPT DUODENUM (46.73)	0.747	0.064	11.604	2.110	0.608	0.059	10.357	1.836
OTHER LAPAROTOMY (54.19)	0.439	0.110	3.994	1.552	0.381	0.101	3.757	1.464

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Stroke

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age90AndOver	0.492	0.027	18.521	1.635	1.274	0.020	64.035	3.577
Age85To89	0.451	0.025	17.975	1.570	0.911	0.019	47.168	2.486
PrimaryFacilityPresentOnAdmissionKnownPercent	0.710	0.090	7.858	2.035	*	*	*	*
SexFemale	-0.164	0.013	-12.172	0.849	-0.146	0.010	-14.653	0.864
AdmitSourceXferSkilledNursing	-0.219	0.036	-6.050	0.803	0.401	0.024	16.562	1.493
Age80To84	0.421	0.025	17.140	1.523	0.688	0.019	35.817	1.989
AdmitSourceXferHospital	-0.069	0.019	-3.561	0.933	-0.040	0.015	-2.566	0.961
AdmitSourceXferNonHospital	*	*	*	*	0.132	0.036	3.706	1.142
Age70To74	0.166	0.026	6.431	1.180	0.229	0.021	11.103	1.258
Age75To79	0.338	0.025	13.548	1.402	0.462	0.020	23.374	1.587
SEPSIS (Multiple)	0.579	0.054	10.626	1.784	0.499	0.046	10.745	1.647
CARDIOMYOPATHY (Multiple)	0.191	0.030	6.315	1.211	0.095	0.023	4.176	1.100
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.564	0.083	6.766	1.758	1.147	0.057	20.070	3.150
OTHER MALIGNANT LYMPHOMAS, UNSPECIFIED SITE, EXTRANODAL AND SOLID ORGAN SITES (202.80)	*	*	*	*	0.301	0.079	3.813	1.352
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.090	0.015	6.059	1.094	0.090	0.011	8.291	1.094
MALNUTRITION (Multiple)	*	*	*	*	0.279	0.021	13.003	1.321
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.349	0.034	10.104	1.417	0.509	0.027	18.741	1.663
ACIDOSIS (276.2)	0.473	0.035	13.371	1.605	0.337	0.030	11.425	1.401
DEHYDRATION (Multiple)	*	*	*	*	0.122	0.020	6.106	1.129
HYPERPOTASSEMIA (276.7)	0.139	0.044	3.151	1.149	0.184	0.032	5.655	1.202
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	0.560	0.076	7.415	1.751	0.402	0.065	6.169	1.494
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.133	0.033	3.993	1.142	0.134	0.025	5.373	1.143
SENILE DEMENTIA, UNCOMPLICATED (290.0)	*	*	*	*	0.132	0.059	2.244	1.142
OTHER PERSISTENT MENTAL DISORDERS DUE TO CONDITIONS CLASSIFIED ELSEWHERE (294.8)	*	*	*	*	0.404	0.069	5.883	1.498
ALZHEIMER'S DISEASE (331.0)	*	*	*	*	0.212	0.021	10.207	1.237
OBSTRUCTIVE HYDROCEPHALUS (331.4)	0.709	0.033	21.183	2.031	0.627	0.031	20.388	1.871
PARALYSIS AGITANS (332.0)	*	*	*	*	0.116	0.033	3.502	1.122
FLACCID HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.00)	0.925	0.045	20.664	2.523	1.100	0.036	30.845	3.004
OTHER SPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.80)	0.437	0.068	6.403	1.548	0.526	0.052	10.205	1.691
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.90)	0.340	0.014	23.779	1.404	0.465	0.011	43.470	1.592
UNSPECIFIED HEMIPLEGIA AFFECTING DOMINANT SIDE (342.91)	0.217	0.041	5.337	1.242	0.366	0.030	12.297	1.441
UNSPECIFIED HEMIPLEGIA AFFECTING NONDOMINANT SIDE (342.92)	0.173	0.042	4.135	1.189	0.229	0.031	7.287	1.257
ENCEPHALOPATHY (Multiple)	0.042	0.019	2.229	1.043	0.205	0.014	14.163	1.228
COMPRESSION OF BRAIN (348.4)	1.124	0.032	35.106	3.078	0.893	0.030	29.738	2.443
CEREBRAL EDEMA (348.5)	0.376	0.021	17.668	1.457	0.240	0.018	12.930	1.271

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Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	*	*	*	*	0.275	0.067	4.096	1.317
ANTERIOR/LATERAL WALL AMI (Multiple)	1.462	0.080	18.241	4.315	1.136	0.070	16.162	3.113
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.606	0.036	16.842	1.834	0.602	0.028	21.386	1.826
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.114	0.022	5.287	1.121	0.085	0.015	5.553	1.089
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.043	0.016	2.644	1.044	*	*	*	*
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.095	0.036	2.607	1.099	0.117	0.027	4.408	1.124
ATRIAL FIBRILLATION (427.31)	0.402	0.014	28.677	1.495	0.362	0.010	35.279	1.436
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.218	0.017	13.095	1.243	0.271	0.012	22.421	1.312
CARDIOVASCULAR DISEASE, UNSPECIFIED (429.2)	0.434	0.142	3.044	1.543	0.342	0.100	3.410	1.408
SUBARACHNOID HEMORRHAGE (430)	0.809	0.042	19.105	2.246	0.657	0.036	18.362	1.929
INTRACEREBRAL HEMORRHAGE (431)	0.493	0.023	21.111	1.637	0.372	0.018	20.152	1.451
UNSPECIFIED INTRACRANIAL HEMORRHAGE (432.9)	0.797	0.045	17.619	2.218	0.650	0.038	17.341	1.915
OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION (433.01)	0.575	0.076	7.589	1.777	0.429	0.065	6.605	1.536
CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION (434.01)	0.085	0.043	1.979	1.088	0.117	0.033	3.556	1.124
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	-0.225	0.026	-8.701	0.798	-0.121	0.020	-6.176	0.886
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	-0.236	0.022	-10.577	0.790	-0.100	0.017	-5.856	0.905
LATE EFFECT OF CEREBROVASCULAR DISEASE, APHASIA (438.11)	*	*	*	*	0.156	0.041	3.773	1.169
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	*	*	*	*	0.266	0.027	9.937	1.305
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.088	0.026	3.441	1.092	0.123	0.018	6.702	1.131
HYPOTENSION, UNSP OR NEC (Multiple)	0.315	0.042	7.508	1.370	0.188	0.034	5.586	1.207
BACTERIAL PNEUMONIA (Multiple)	0.373	0.031	12.132	1.452	0.458	0.024	19.419	1.580
CHRONIC BRONCHITIS (Multiple)	*	*	*	*	0.131	0.041	3.190	1.140
OTHER EMPHYSEMA (492.8)	0.212	0.070	3.017	1.236	0.156	0.053	2.925	1.169
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.207	0.020	10.558	1.230	0.225	0.014	15.604	1.252
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.592	0.028	21.342	1.807	0.645	0.023	27.853	1.907
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.254	0.049	5.164	1.289	0.280	0.038	7.314	1.323
ACUTE RESPIRATORY FAILURE (518.81)	1.972	0.020	100.878	7.186	1.432	0.018	79.795	4.189
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.521	0.073	7.134	1.684	0.525	0.057	9.168	1.691
ACUTE RENAL FAILURE (Multiple)	0.198	0.020	9.667	1.218	0.147	0.015	9.546	1.159
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.147	0.043	3.385	1.158	0.241	0.031	7.865	1.273
END STAGE RENAL DISEASE (585.6)	0.862	0.043	20.006	2.369	0.789	0.066	12.019	2.202

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Stroke (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.185	0.024	7.658	1.203	0.157	0.018	8.924	1.170
UNSPECIFIED DISORDER OF KIDNEY AND URETER (593.9)	*	*	*	*	0.082	0.034	2.385	1.086
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	*	*	*	*	0.031	0.014	2.324	1.032
DECUBITIS ULCER (Multiple)	0.153	0.040	3.852	1.165	0.507	0.028	18.079	1.660
COMA (780.01)	1.902	0.035	54.116	6.702	2.006	0.036	55.793	7.431
OTHER ALTERATION OF CONSCIOUSNESS (780.09)	0.277	0.048	5.763	1.319	0.398	0.037	10.625	1.489
ALTERED MENTAL STATUS (780.97)	0.162	0.040	4.090	1.176	0.330	0.028	11.626	1.390
NEUROLOGIC NEGLECT SYNDROME (781.8)	*	*	*	*	0.077	0.032	2.427	1.080
DYSPHAGIA (Multiple)	*	*	*	*	0.123	0.012	10.581	1.131
HYPOXEMIA (799.02)	0.182	0.052	3.490	1.199	*	*	*	*
HEART VALVE REPLACED BY OTHER MEANS (V43.3)	0.116	0.044	2.608	1.122	*	*	*	*
CARDIAC PACEMAKER IN SITU (V45.01)	0.075	0.025	3.027	1.078	0.070	0.018	3.954	1.073
STATUS POST ADMINISTRATION OF TPA (RTPA) IN A DIFFERENT FACILITY WITHIN THE LAST 24 HOURS PRIOR TO ADMISSION TO CURRENT FACILITY (V45.88)	0.282	0.040	7.135	1.326	0.104	0.032	3.242	1.109
DO NOT RESUSCITATE STATUS (V49.86)	0.582	0.016	36.492	1.789	0.789	0.012	67.330	2.200
Palliative Care Risk Ragrdless of POA (V66.7)	3.633	0.015	242.142	37.843	3.463	0.015	228.258	31.924
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.202	0.051	3.940	1.223	0.305	0.038	8.106	1.357
INSERTION OF ONE VASCULAR STENT (00.45)	0.201	0.081	2.469	1.222	*	*	*	*
CLIPPING OF ANEURYSM (39.51)	-0.399	0.105	-3.803	0.671	-0.441	0.098	-4.480	0.644
ENDOVASCULAR (TOTAL) EMBOLIZATION OR OCCLUSION OF HEAD AND NECK VESSELS (39.72)	-0.247	0.085	-2.906	0.781	-0.351	0.079	-4.430	0.704
ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S) (39.74)	0.564	0.042	13.359	1.757	0.264	0.036	7.327	1.302
ENDOVASCULAR EMBOLIZATION OR OCCLUSION OF VESSEL(S) OF HEAD OR NECK USING BARE COILS (39.75)	-0.508	0.091	-5.606	0.601	-0.581	0.084	-6.894	0.559

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Valve Surgery

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.180	0.037	4.856	1.197	0.164	0.034	4.831	1.178
AdmitSourceXferNonHospital	0.320	0.106	3.028	1.377	0.281	0.098	2.866	1.324
AdmitSourceXferSkilledNursing	*	*	*	*	0.408	0.160	2.549	1.504
Age70To74	0.283	0.042	6.679	1.327	0.278	0.038	7.208	1.320
Age75To79	0.522	0.041	12.818	1.685	0.507	0.037	13.696	1.660
Age80To84	0.709	0.042	17.016	2.031	0.706	0.038	18.715	2.026
Age85To89	0.920	0.047	19.523	2.510	0.940	0.042	22.274	2.559
Age90AndOver	1.186	0.064	18.456	3.273	1.226	0.056	21.962	3.409
PrimaryFacilityPresentOnAdmissionKnownPercent	0.998	0.231	4.323	2.712	1.156	0.210	5.512	3.176
SexFemale	0.374	0.024	15.379	1.453	0.325	0.022	14.980	1.384
MALNUTRITION (Multiple)	0.513	0.053	9.744	1.671	0.569	0.047	11.985	1.766
BODY MASS INDEX 40 AND OVER (Multiple)	0.349	0.045	7.828	1.418	0.351	0.040	8.786	1.420
MITRAL VALVE STENOSIS AND AORTIC VALVE STENOSIS (396.0)	0.271	0.077	3.499	1.311	0.193	0.072	2.690	1.213
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.369	0.126	2.922	1.446	0.399	0.117	3.420	1.491
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.508	0.080	6.331	1.663	0.408	0.075	5.459	1.505
ANTERIOR/LATERAL WALL AMI (Multiple)	0.263	0.113	2.323	1.300	0.284	0.108	2.644	1.329
INFERIOR WALL AMI (Multiple)	0.446	0.138	3.231	1.562	0.465	0.133	3.495	1.593
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.152	0.048	3.166	1.164	0.127	0.045	2.853	1.136
CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT (414.02)	0.286	0.069	4.135	1.331	0.269	0.064	4.226	1.309
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF BYPASS GRAFT (414.05)	0.670	0.216	3.105	1.954	0.618	0.201	3.076	1.854
PULMONARY HYPERTENSION (Multiple)	*	*	*	*	0.054	0.025	2.153	1.056
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS (421.0)	0.680	0.069	9.888	1.973	0.637	0.064	9.885	1.891
ADHESIVE PERICARDITIS (423.1)	0.538	0.089	6.071	1.713	0.478	0.083	5.755	1.613
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.286	0.107	2.683	1.332	0.232	0.099	2.345	1.261
ATRIAL FIBRILLATION (427.31)	*	*	*	*	0.059	0.023	2.593	1.061
VENTRICULAR FIBRILLATION (427.41)	0.585	0.198	2.950	1.794	0.525	0.188	2.789	1.690
CARDIAC ARREST (427.5)	1.209	0.152	7.980	3.349	1.154	0.144	8.043	3.171
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.108	0.051	2.124	1.114	*	*	*	*
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.286	0.090	3.161	1.331	*	*	*	*
CHRONIC BRONCHITIS (Multiple)	0.365	0.082	4.469	1.440	0.402	0.073	5.499	1.495
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.094	0.033	2.885	1.099	0.145	0.029	5.058	1.156
ACUTE AND SUBACUTE NECROSIS OF LIVER (570)	1.189	0.159	7.486	3.284	1.079	0.154	6.996	2.941
HEMORRHAGE OF GASTROINTESTINAL TRACT, UNSPECIFIED (578.9)	0.707	0.146	4.833	2.027	0.636	0.136	4.694	1.889
ACUTE RENAL FAILURE (Multiple)	0.264	0.047	5.670	1.302	0.285	0.042	6.714	1.330
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.212	0.035	6.032	1.236	0.233	0.031	7.487	1.263
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.685	0.060	11.355	1.983	0.633	0.055	11.524	1.882

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Valve Surgery (continued)

Factor List (ICD 9)	In-Hospital Mortality				In-Hospital + 30-Day Mortality			
	Coefficient	Standard Error	Z-Stat	Odds Ratio	Coefficient	Standard Error	Z-Stat	Odds Ratio
END STAGE RENAL DISEASE (585.6)	1.064	0.123	8.668	2.899	1.014	0.114	8.911	2.757
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.104	0.042	2.473	1.110	0.123	0.037	3.287	1.130
MECHANICAL COMPLICATION DUE TO HEART VALVE PROSTHESIS (996.02)	0.424	0.088	4.800	1.527	0.357	0.082	4.377	1.429
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	0.613	0.106	5.766	1.846	0.553	0.100	5.520	1.739
OTHER COMPLICATIONS DUE TO HEART VALVE PROSTHESIS (996.71)	0.293	0.084	3.492	1.340	0.211	0.078	2.707	1.234
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.184	0.070	2.634	1.203	0.278	0.059	4.697	1.320
PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY [PTCA] (00.66)	0.466	0.080	5.807	1.593	0.412	0.074	5.596	1.510
ENDOVASCULAR REPLACEMENT OF AORTIC VALVE (35.05)	0.346	0.076	4.539	1.414	0.412	0.069	5.984	1.510
TRANSAPICAL REPLACEMENT OF AORTIC VALVE (35.06)	0.909	0.086	10.556	2.483	0.933	0.077	12.091	2.542
NON-MITRAL VALVE REPAIR (Multiple)	1.034	0.122	8.440	2.813	0.951	0.114	8.326	2.589
OPEN HEART VALVULOPLASTY OF MITRAL VALVE WITHOUT REPLACEMENT (35.12)	0.275	0.062	4.406	1.317	0.209	0.058	3.628	1.233
OPEN HEART VALVULOPLASTY OF TRICUSPID VALVE WITHOUT REPLACEMENT (35.14)	-0.605	0.132	-4.583	0.546	-0.558	0.123	-4.540	0.572
OPEN AND OTHER REPLACEMENT OF AORTIC VALVE WITH TISSUE GRAFT (35.21)	0.447	0.068	6.632	1.564	0.412	0.062	6.657	1.511
AORTIC AND MITRAL VALVE REPLACEMENT (Multiple)	-0.775	0.338	-2.295	0.461	-0.805	0.328	-2.453	0.447
OPEN AND OTHER REPLACEMENT OF AORTIC VALVE (35.22)	0.709	0.070	10.065	2.031	0.640	0.065	9.903	1.897
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE WITH TISSUE GRAFT (35.23)	1.731	0.334	5.181	5.646	1.672	0.325	5.151	5.325
Mitral Valve Only Replacement (Multiple)	-0.815	0.343	-2.380	0.442	-0.874	0.332	-2.632	0.417
OPEN AND OTHER REPLACEMENT OF MITRAL VALVE (35.24)	1.829	0.333	5.494	6.230	1.765	0.324	5.453	5.842
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT (35.27)	1.332	0.122	10.875	3.788	1.211	0.116	10.426	3.356
OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE (35.28)	0.966	0.155	6.215	2.627	0.894	0.146	6.133	2.446
(AORTO)CORONARY BYPASS OF ONE CORONARY ARTERY (36.11)	0.356	0.036	9.794	1.428	0.325	0.033	9.819	1.384
(AORTO)CORONARY BYPASS OF TWO CORONARY ARTERIES (36.12)	0.498	0.043	11.545	1.645	0.456	0.040	11.544	1.578
(AORTO)CORONARY BYPASS OF THREE CORONARY ARTERIES (36.13)	0.541	0.058	9.347	1.717	0.510	0.053	9.582	1.665
(AORTO)CORONARY BYPASS OF FOUR OR MORE CORONARY ARTERIES (36.14)	0.211	0.104	2.019	1.234	0.220	0.096	2.308	1.247
SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS (36.15)	-0.150	0.036	-4.173	0.861	-0.111	0.033	-3.419	0.895
EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH (37.33)	0.139	0.046	3.045	1.149	0.110	0.043	2.584	1.116
IMPLANT OF PULSATION BALLOON (37.61)	2.202	0.031	71.857	9.041	2.019	0.029	69.024	7.532
INSERTION OF PERCUTANEOUS EXTERNAL HEART ASSIST DEVICE (37.68)	2.838	0.136	20.939	17.089	2.641	0.133	19.888	14.034

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Appendix E. Coefficient Summary Table – Complication Cohorts

Abdominal Aortic Aneurysm Repair

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.614	0.059	10.465	1.847
AdmitSourceXferNonHospital	0.497	0.169	2.944	1.643
Age70To74	0.108	0.037	2.931	1.114
Age75To79	0.311	0.037	8.419	1.365
Age80To84	0.420	0.039	10.817	1.522
Age85To89	0.597	0.044	13.470	1.817
Age90AndOver	0.763	0.065	11.771	2.145
PrimaryFacilityPresentOnAdmissionKnownPercent	1.352	0.164	8.219	3.863
SexFemale	0.196	0.027	7.382	1.217
CARDIOMYOPATHY (Multiple)	0.228	0.064	3.564	1.256
MALNUTRITION (Multiple)	1.129	0.086	13.169	3.092
BODY MASS INDEX 30-39 (Multiple)	0.097	0.039	2.478	1.102
BODY MASS INDEX 40 AND OVER (Multiple)	0.425	0.063	6.717	1.530
OTHER AND UNSPECIFIED COAGULATION DEFECTS (286.9)	1.042	0.226	4.605	2.834
TOBACCO USE DISORDER (305.1)	0.064	0.028	2.251	1.066
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.272	0.045	6.058	1.313
ALZHEIMER'S DISEASE (331.0)	0.565	0.109	5.164	1.760
ENCEPHALOPATHY (Multiple)	0.546	0.197	2.776	1.726
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.326	0.062	5.274	1.386
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	1.077	0.088	12.222	2.936
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.081	0.025	3.252	1.084
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.436	0.056	7.860	1.546
PULMONARY HYPERTENSION (Multiple)	0.254	0.070	3.606	1.289
ATRIAL FIBRILLATION (427.31)	0.101	0.031	3.250	1.107
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.303	0.039	7.857	1.354
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.796	0.202	3.948	2.217
ACUTE DIASTOLIC HEART FAILURE (Multiple)	1.369	0.211	6.473	3.930
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.588	0.142	4.146	1.800
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.283	0.054	5.220	1.327
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.193	0.056	3.440	1.212
INFRA-RENAL ANEURYSM (Multiple)	0.133	0.033	4.033	1.143
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.118	0.031	3.795	1.125
HYPOTENSION, UNSP OR NEC (Multiple)	0.482	0.129	3.748	1.620
CHRONIC BRONCHITIS (Multiple)	0.704	0.084	8.334	2.022
OTHER EMPHYSEMA (492.8)	0.324	0.064	5.103	1.383
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.187	0.026	7.046	1.205
ACUTE VASCULAR INSUFFICIENCY OF INTESTINE (557.0)	0.653	0.219	2.983	1.922
UNSPECIFIED VASCULAR INSUFFICIENCY OF INTESTINE (557.9)	1.843	0.262	7.030	6.314
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.670	0.065	10.255	1.954
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	1.016	0.089	11.475	2.763
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.299	0.067	4.462	1.349

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Abdominal Aortic Aneurysm Repair (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
MECHANICAL COMPLICATION OF OTHER VASCULAR DEVICE, IMPLANT, AND GRAFT (996.1)	0.120	0.054	2.222	1.128
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.242	0.059	4.082	1.273
RESECTION OF AORTA WITH ANASTOMOSIS (38.34)	2.371	0.115	20.644	10.704
RESECTION OF ABDOMINAL AORTA WITH REPLACEMENT (38.44)	2.207	0.032	68.600	9.084
AORTA-RENAL BYPASS (39.24)	0.716	0.167	4.295	2.045
AORTA-ILIAC-FEMORAL BYPASS (39.25)	0.571	0.091	6.259	1.769
OTHER (PERIPHERAL) VASCULAR SHUNT OR BYPASS (39.29)	0.777	0.067	11.664	2.175
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S) (39.50)	0.453	0.033	13.871	1.573

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Appendectomy

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.102	0.051	1.998	1.108
AdmitSourceXferNonHospital	0.276	0.104	2.656	1.318
AdmitSourceXferSkilledNursing	0.42	0.144	2.931	1.523
Age45To64	0.509	0.02	25.96	1.664
Age65To74	0.893	0.027	33.022	2.442
Age75AndOver	1.313	0.03	43.247	3.718
PrimaryFacilityPresentOnAdmissionKnownPercent	0.197	0.044	4.454	1.218
SexFemale	-0.329	0.016	-20.338	0.719
SEPSIS (Multiple)	0.725	0.037	19.808	2.065
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.406	0.04	10.021	1.501
DEHYDRATION (Multiple)	0.305	0.039	7.899	1.356
HYPOPOTASSEMIA (276.8)	0.217	0.038	5.691	1.242
BODY MASS INDEX 40 AND OVER (Multiple)	0.303	0.035	8.731	1.353
ANEMIA, UNSPECIFIED (285.9)	0.232	0.045	5.144	1.262
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.384	0.045	8.486	1.468
NON-MALIGNANT HYPERTENSION (Multiple)	0.068	0.02	3.498	1.071
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.185	0.036	5.163	1.203
MITRAL VALVE DISORDERS (424.0)	0.331	0.085	3.909	1.393
ATRIAL FIBRILLATION (427.31)	0.097	0.041	2.365	1.102
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.519	0.05	10.285	1.68
ASTHMA (Multiple)	0.096	0.036	2.654	1.1
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.482	0.038	12.59	1.619
ACUTE APPENDICITIS WITH GENERALIZED PERITONITIS (540.0)	1.128	0.018	60.974	3.089
ACUTE APPENDICITIS WITH PERITONEAL ABSCESS (540.1)	1.221	0.021	57.507	3.39
OTHER AND UNSPECIFIED DISEASES OF APPENDIX (543.9)	0.272	0.051	5.311	1.312
UMBILICAL HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.1)	0.09	0.046	1.978	1.095
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	0.318	0.039	8.129	1.375
ACUTE RENAL FAILURE (Multiple)	0.73	0.122	5.963	2.076
Mild to Moderate Chronic Kidney Disease (Stages I - III) (Multiple)	0.388	0.064	6.051	1.474
Severe Chronic Kidney Disease (Stages IV-V and ESRD) (Multiple)	2.111	0.083	25.424	8.259
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.33	0.064	5.139	1.391
TACHYCARDIA, UNSPECIFIED (785.0)	0.29	0.082	3.547	1.337
HYPOXEMIA (799.02)	0.249	0.114	2.194	1.283
SEVERE SEPSIS (995.92)	0.775	0.066	11.665	2.171
RENAL DIALYSIS STATUS (V45.11)	2.077	0.174	11.957	7.983
LAPAROSCOPIC SURGICAL PROCEDURE CONVERTED TO OPEN PROCEDURE (V64.41)	0.354	0.031	11.367	1.425
LAPAROSCOPIC APPENDECTOMY (47.01)	1.798	0.162	11.095	6.039
OTHER APPENDECTOMY (47.09)	2.259	0.162	13.904	9.573
DRAINAGE OF APPENDICEAL ABSCESS (47.2)	0.678	0.14	4.827	1.97

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Back and Neck Surgeries (Without Spinal Fusion)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.386	0.055	6.972	1.472
AdmitSourceXferNonHospital	0.448	0.136	3.306	1.566
AdmitSourceXferSkilledNursing	0.270	0.136	1.988	1.310
Age70To74	0.181	0.030	6.118	1.199
Age75To79	0.332	0.030	10.967	1.394
Age80To84	0.444	0.033	13.413	1.558
Age85To89	0.704	0.039	18.112	2.023
Age90AndOver	0.845	0.064	13.204	2.327
PrimaryFacilityPresentOnAdmissionKnownPercent	0.816	0.139	5.891	2.262
SexFemale	-0.159	0.022	-7.092	0.853
CARDIOMYOPATHY (Multiple)	0.275	0.069	3.980	1.316
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.116	0.023	5.017	1.123
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.624	0.081	7.728	1.867
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.398	0.047	8.537	1.488
MALNUTRITION (Multiple)	0.753	0.085	8.847	2.122
DEHYDRATION (Multiple)	0.548	0.087	6.290	1.729
BODY MASS INDEX 30-39 (Multiple)	0.198	0.029	6.753	1.219
BODY MASS INDEX 40 AND OVER (Multiple)	0.354	0.041	8.672	1.425
OBESITY HYPOVENTILATION SYNDROME (278.03)	1.627	0.172	9.448	5.089
CHRONIC ANEMIA (Multiple)	0.416	0.066	6.266	1.516
ANEMIA, UNSPECIFIED (285.9)	0.280	0.041	6.805	1.323
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.354	0.070	5.065	1.424
TOBACCO USE DISORDER (305.1)	0.088	0.039	2.241	1.092
INTRASPINAL ABSCESS (324.1)	0.966	0.067	14.473	2.629
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.290	0.031	9.398	1.337
ALZHEIMER'S DISEASE (331.0)	0.551	0.105	5.250	1.735
PARALYSIS AGITANS (332.0)	0.183	0.069	2.652	1.201
PARAPLEGIA (344.1)	0.598	0.081	7.421	1.819
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER (344.60)	0.237	0.072	3.307	1.268
ENCEPHALOPATHY (Multiple)	0.505	0.106	4.744	1.657
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.563	0.112	5.003	1.756
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.502	0.037	13.456	1.652
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.439	0.118	3.704	1.551
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.227	0.034	6.570	1.254
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.240	0.026	9.367	1.271
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.414	0.073	5.656	1.513
PULMONARY HYPERTENSION (Multiple)	0.574	0.068	8.493	1.775
AORTIC VALVE DISORDERS (424.1)	0.392	0.061	6.422	1.479
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.349	0.084	4.143	1.418
ATRIAL FIBRILLATION (427.31)	0.074	0.031	2.377	1.077
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.227	0.071	3.186	1.255
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.459	0.038	12.083	1.582
NARROWING OF CEREBRAL ARTERY (Multiple)	0.223	0.074	2.996	1.250

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

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.163	0.044	3.707	1.177
CHRONIC BRONCHITIS (Multiple)	0.819	0.105	7.782	2.269
OTHER EMPHYSEMA (492.8)	0.276	0.098	2.807	1.317
ASTHMA (Multiple)	0.079	0.038	2.074	1.082
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.280	0.033	8.499	1.323
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.129	0.049	2.658	1.138
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.385	0.051	7.532	1.470
HYPERPLASIA OF PROSTATE (Multiple)	0.304	0.029	10.595	1.355
CERVICAL SPONDYLOSIS WITH MYELOPATHY (721.1)	0.281	0.045	6.232	1.324
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, CERVICAL REGION (722.71)	0.419	0.084	4.973	1.520
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, LUMBAR REGION (722.73)	0.325	0.077	4.233	1.384
SPINAL STENOSIS OF THORACIC REGION (724.01)	0.315	0.084	3.759	1.371
SPINAL STENOSIS, LUMBAR REGION, WITH NEUROGENIC CLAUDICATION (724.03)	0.088	0.025	3.531	1.092
RETENTION OF URINE, UNSPECIFIED (788.20)	0.133	0.052	2.578	1.142
CLOSED FRACTURE OF SECOND CERVICAL VERTEBRA WITHOUT MENTION OF SPINAL CORD INJURY (805.02)	0.458	0.113	4.058	1.582
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH (V15.82)	0.073	0.024	3.033	1.075
LONG-TERM (CURRENT) USE OF STEROIDS (V58.65)	0.143	0.071	2.025	1.154
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL (03.09)	0.202	0.040	5.041	1.224
REPAIR OF VERTEBRAL FRACTURE (03.53)	0.919	0.099	9.250	2.506
OTHER REPAIR AND PLASTIC OPERATIONS ON SPINAL CORD STRUCTURES (03.59)	0.889	0.030	29.411	2.432
INTERNAL FIXATION OF OTHER BONE WITHOUT FRACTURE REDUCTION (78.59)	-0.170	0.080	-2.114	0.844
EXCISION OF INTERVERTEBRAL DISC (80.51)	0.130	0.036	3.674	1.139
INSERTION OR REPLACEMENT OF INTERSPINOUS PROCESS DEVICE(S) (84.80)	-0.390	0.106	-3.685	0.677
TRANSFUSION OF PACKED CELLS (99.04)	1.209	0.046	26.306	3.349

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Bariatric Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferSkilledNursing	1.13	0.553	2.045	3.097
Age45To64	0.27	0.026	10.555	1.309
Age65To74	0.633	0.043	14.607	1.883
Age75AndOver	0.964	0.194	4.967	2.623
PrimaryFacilityPresentOnAdmissionKnownPercent	-0.325	0.075	-4.324	0.723
SexFemale	-0.19	0.027	-7.093	0.827
CARDIOMYOPATHY (Multiple)	0.362	0.109	3.333	1.436
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.422	0.086	4.915	1.525
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.287	0.117	2.457	1.332
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.208	0.076	2.719	1.231
HYPOPOTASSEMIA (276.8)	0.49	0.14	3.485	1.632
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.216	0.024	8.95	1.242
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.21	0.054	3.914	1.233
PULMONARY HYPERTENSION (Multiple)	0.658	0.098	6.709	1.93
ATRIAL FIBRILLATION (427.31)	0.298	0.072	4.17	1.348
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.371	0.075	4.914	1.449
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.353	0.142	2.483	1.423
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.345	0.072	4.761	1.412
PULMONARY COLLAPSE (518.0)	1.02	0.154	6.644	2.773
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.324	0.13	2.49	1.382
Mild to Moderate Chronic Kidney Disease (Stages I - III) (Multiple)	1.111	0.079	14.036	3.036
Severe Chronic Kidney Disease (Stages IV-V and ESRD) (Multiple)	3.371	0.08	42.175	29.119
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.771	0.085	9.097	2.162
HYPOXEMIA (799.02)	0.697	0.159	4.38	2.007
LAPAROSCOPIC SURGICAL PROCEDURE CONVERTED TO OPEN PROCEDURE (V64.41)	1.76	0.107	16.467	5.812
BODY MASS INDEX 60.0-69.9, ADULT (V85.44)	0.243	0.05	4.859	1.276
BODY MASS INDEX 70 AND OVER, ADULT (V85.45)	0.468	0.085	5.532	1.597
OTHER GASTROSTOMY (43.19)	1.4	0.096	14.575	4.054
PARTIAL GASTRECTOMY WITH ANASTOMOSIS TO JEJUNUM (43.7)	1.045	0.183	5.727	2.845
LAPAROSCOPIC VERTICAL (SLEEVE) GASTRECTOMY (43.82)	0.592	0.105	5.625	1.808
OPEN AND OTHER PARTIAL GASTRECTOMY (43.89)	1.057	0.115	9.205	2.878
HIGH GASTRIC BYPASS (44.31)	0.969	0.258	3.755	2.634
LAPAROSCOPIC GASTROENTEROSTOMY (44.38)	1.027	0.104	9.858	2.793
OTHER GASTROENTEROSTOMY WITHOUT GASTRECTOMY (44.39)	1.3	0.12	10.873	3.669
LAPAROSCOPIC GASTROPLASTY (44.68)	0.783	0.16	4.897	2.188
OTHER REPAIR OF STOMACH (44.69)	1.173	0.1	11.758	3.231
LAPAROSCOPIC GASTRIC RESTRICTIVE PROCEDURE (44.95)	0.385	0.129	2.989	1.47
OTHER PARTIAL RESECTION OF SMALL INTESTINE (45.62)	1.123	0.096	11.677	3.073
SMALL-TO-SMALL INTESTINAL ANASTOMOSIS (45.91)	0.702	0.085	8.269	2.018
OTHER REPAIR OF INTESTINE (46.79)	1.309	0.146	8.999	3.704
LAPAROSCOPIC LYSIS OF PERITONEAL ADHESIONS (54.51)	0.349	0.039	8.977	1.418

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Carotid Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.326	0.040	8.249	1.386
AdmitSourceXferNonHospital	0.370	0.105	3.519	1.448
AdmitSourceXferSkilledNursing	0.425	0.108	3.953	1.530
Age70To74	0.077	0.024	3.259	1.080
Age75To79	0.188	0.024	7.964	1.207
Age80To84	0.326	0.025	13.150	1.386
Age85To89	0.422	0.030	14.258	1.525
Age90AndOver	0.572	0.050	11.377	1.771
PrimaryFacilityPresentOnAdmissionKnownPercent	0.923	0.109	8.502	2.518
CARDIOMYOPATHY (Multiple)	0.268	0.045	5.951	1.308
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.459	0.058	7.849	1.583
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.142	0.063	2.269	1.153
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.196	0.041	4.759	1.217
DISORDERS OF LIPOID METABOLISM (Multiple)	0.065	0.017	3.851	1.067
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.310	0.054	5.801	1.364
DEHYDRATION (Multiple)	0.438	0.066	6.679	1.550
HYPERPOTASSEMIA (276.7)	0.310	0.075	4.139	1.363
HYPOPOTASSEMIA (276.8)	0.337	0.052	6.452	1.401
BODY MASS INDEX 40 AND OVER (Multiple)	0.234	0.042	5.564	1.264
CHRONIC ANEMIA (Multiple)	0.360	0.052	6.980	1.434
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.331	0.058	5.718	1.393
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.277	0.030	9.189	1.319
ALZHEIMER'S DISEASE (331.0)	0.390	0.084	4.674	1.477
UNSPECIFIED HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (342.90)	0.357	0.045	7.985	1.429
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.158	0.067	2.370	1.171
ENCEPHALOPATHY (Multiple)	0.524	0.070	7.525	1.688
DISEASES OF TRICUSPID VALVE (397.0)	0.164	0.063	2.600	1.178
MALIGNANT ESSENTIAL HYPERTENSION (401.0)	0.460	0.065	7.106	1.584
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.260	0.074	3.495	1.297
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.483	0.064	7.593	1.620
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.058	0.021	2.772	1.060
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.160	0.018	9.059	1.174
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.255	0.040	6.346	1.291
PULMONARY HYPERTENSION (Multiple)	0.460	0.044	10.558	1.584
MITRAL VALVE DISORDERS (424.0)	0.134	0.045	2.982	1.143
AORTIC VALVE DISORDERS (424.1)	0.279	0.036	7.642	1.322
SINOATRIAL NODE DYSFUNCTION (427.81)	0.369	0.078	4.737	1.446
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.384	0.025	15.531	1.468
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.855	0.132	6.468	2.352
ACUTE DIASTOLIC HEART FAILURE (Multiple)	1.059	0.112	9.476	2.884
INFARCTION OF A CEREBRAL ARTERY (Multiple)	0.458	0.028	16.582	1.580
CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION (434.11)	0.457	0.076	6.026	1.579
UNSPECIFIED CEREBRAL ARTERY OCCLUSION WITH CEREBRAL INFARCTION (434.91)	0.427	0.048	8.858	1.533

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Carotid Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
UNSPECIFIED TRANSIENT CEREBRAL ISCHEMIA (435.9)	0.208	0.075	2.776	1.232
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.158	0.067	2.345	1.171
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.174	0.053	3.294	1.190
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.189	0.019	9.745	1.208
STRICTURE OF ARTERY (447.1)	0.269	0.067	4.014	1.309
HYPOTENSION, UNSP OR NEC (Multiple)	0.179	0.074	2.418	1.196
CHRONIC BRONCHITIS (Multiple)	0.72	0.063	11.4	2.053
OTHER EMPHYSEMA (492.8)	0.348	0.058	5.997	1.416
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.172	0.02	8.582	1.188
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.327	0.078	4.207	1.387
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.614	0.027	22.42	1.848
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.844	0.052	16.11	2.326
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.437	0.028	15.32	1.547
FACIAL WEAKNESS (781.94)	0.113	0.047	2.392	1.12
APHASIA (784.3)	0.354	0.04	8.809	1.424
DYSPHAGIA (Multiple)	0.837	0.042	19.87	2.31
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.294	0.05	5.819	1.342
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.348	0.116	2.988	1.416
PROCEDURE ON SINGLE VESSEL (00.40)	-0.09	0.021	-4.272	0.914
INSERTION OF TWO VASCULAR STENTS (00.46)	0.558	0.069	8.068	1.748
PERCUTANEOUS ANGIOPLASTY OF EXTRACRANIAL VESSEL(S) (00.61)	1.26	0.104	12.1	3.524
ENDARTERECTOMY OF OTHER VESSELS OF HEAD AND NECK (38.12)	1.339	0.105	12.7	3.816

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Defibrillator Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.062	0.030	2.076	1.064
Age75To79	0.143	0.030	4.788	1.154
Age80To84	0.121	0.032	3.776	1.129
Age85To89	0.154	0.040	3.863	1.167
Age90AndOver	0.235	0.076	3.104	1.265
PrimaryFacilityPresentOnAdmissionKnownPercent	0.752	0.166	4.522	2.120
SexFemale	0.133	0.022	6.028	1.142
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.42)	0.293	0.120	2.438	1.340
DIAB W UNSPECIFIED MANIFESTATIONS (Multiple)	0.197	0.078	2.504	1.217
MALNUTRITION (Multiple)	0.442	0.062	7.168	1.555
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.250	0.044	5.643	1.285
BODY MASS INDEX 40 AND OVER (Multiple)	0.147	0.045	3.291	1.159
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.720	0.140	5.137	2.055
OTHER SECONDARY THROMBOCYTOPENIA (287.49)	0.483	0.154	3.128	1.621
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.100	0.047	2.120	1.105
HYPERTENSIVE CHRONIC KIDNEY DISEASE, MALIGNANT, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED (403.00)	0.421	0.158	2.668	1.523
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.114	0.046	2.452	1.120
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.325	0.063	5.167	1.384
INFERIOR WALL AMI (Multiple)	0.512	0.192	2.658	1.668
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.103	0.044	2.346	1.109
PULMONARY HYPERTENSION (Multiple)	0.083	0.030	2.746	1.087
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.411	0.109	3.781	1.508
AORTIC VALVE DISORDERS (424.1)	0.099	0.047	2.102	1.104
TRICUSPID VALVE DISORDERS, SPECIFIED AS NONRHEUMATIC (424.2)	0.310	0.125	2.488	1.364
ATRIOVENTRICULAR BLOCK, COMPLETE (426.0)	0.121	0.038	3.210	1.128
ATRIAL FIBRILLATION (427.31)	0.079	0.020	3.870	1.082
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.321	0.024	13.358	1.378
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.364	0.080	4.557	1.439
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.441	0.040	11.113	1.555
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES, UNSPECIFIED (440.20)	0.301	0.092	3.289	1.352
CHRONIC BRONCHITIS (Multiple)	0.318	0.050	6.392	1.374
OTHER EMPHYSEMA (492.8)	0.216	0.094	2.294	1.241
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.090	0.026	3.382	1.094
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.358	0.058	6.113	1.430
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.322	0.159	2.028	1.379
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.263	0.088	2.981	1.301
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.462	0.048	9.606	1.587
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.617	0.059	10.405	1.853
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.292	0.049	5.981	1.339
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	1.007	0.055	18.363	2.738
PROCEDURE ON TWO VESSELS (00.41)	0.824	0.230	3.588	2.279
IMPLANTATION OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR, TOTAL SYSTEM [CRT-D] (00.51)	1.004	0.167	6.022	2.729

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Defibrillator Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
IMPLANTATION OR REPLACEMENT OF TRANSVENOUS LEAD [ELECTRODE] INTO LEFT VENTRICULAR CORONARY VENOUS SYSTEM (00.52)	1.014	0.136	7.452	2.757
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION DEFIBRILLATOR PULSE GENERATOR ONLY [CRT-D] (00.54)	0.641	0.210	3.055	1.899
RIGHT HEART CARDIAC CATHETERIZATION (37.21)	0.457	0.064	7.081	1.579
LEFT HEART CARDIAC CATHETERIZATION (37.22)	0.279	0.040	7.059	1.322
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION (37.23)	0.383	0.052	7.387	1.466
IMPLANT OF PULSATION BALLOON (37.61)	0.628	0.134	4.698	1.874
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM (37.74)	0.796	0.067	11.862	2.216
IMPLANTATION OR REPLACEMENT OF AUTOMATIC CARDIOVERTER/ DEFIBRILLATOR, TOTAL SYSTEM [AICD] (37.94)	1.003	0.167	6	2.725
IMPLANTATION OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR LEAD(S) ONLY (37.95)	0.755	0.214	3.53	2.127
REPLACEMENT OF AUTOMATIC CARDIOVERTER/DEFIBRILLATOR LEAD(S) ONLY (37.97)	1.638	0.135	12.16	5.143
HEMODIALYSIS (39.95)	0.443	0.055	8.058	1.557
ANGIOCARDIOGRAPHY OF RIGHT HEART STRUCTURES (88.52)	-0.392	0.138	-2.854	0.675
ANGIOCARDIOGRAPHY OF LEFT HEART STRUCTURES (88.53)	-0.209	0.041	-5.058	0.812
NON-INVASIVE MECHANICAL VENTILATION (93.90)	0.811	0.055	14.86	2.25
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	1.583	0.036	43.5	4.871
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.197	0.068	32.2	8.996
TRANSFUSION OF PACKED CELLS (99.04)	0.965	0.043	22.37	2.624
TRANSFUSION OF PLATELETS (99.05)	0.793	0.134	5.928	2.209
TRANSFUSION OF OTHER SERUM (99.07)	0.557	0.079	7.065	1.745

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Gallbladder Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.047	0.022	2.149	1.048
AdmitSourceXferSkilledNursing	0.187	0.044	4.276	1.205
Age70To74	0.165	0.016	10.389	1.180
Age75To79	0.323	0.016	20.054	1.381
Age80To84	0.461	0.017	27.554	1.585
Age85To89	0.600	0.018	32.511	1.822
Age90AndOver	0.707	0.023	30.180	2.027
PrimaryFacilityPresentOnAdmissionKnownPercent	0.497	0.069	7.241	1.644
SexFemale	-0.187	0.011	-16.849	0.829
SEPSIS (Multiple)	0.317	0.019	16.759	1.373
CARDIOMYOPATHY (Multiple)	0.270	0.028	9.658	1.310
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.240	0.034	7.165	1.272
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.106	0.039	2.715	1.112
MALNUTRITION (Multiple)	0.621	0.022	28.860	1.861
HYPEROSMOLALITY AND/OR HYPERNATREMIA (276.0)	0.435	0.056	7.797	1.544
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.109	0.020	5.538	1.116
ACIDOSIS (276.2)	0.368	0.029	12.839	1.445
BODY MASS INDEX 30-39 (Multiple)	0.073	0.016	4.668	1.075
BODY MASS INDEX 40 AND OVER (Multiple)	0.243	0.021	11.696	1.275
OBESITY HYPOVENTILATION SYNDROME (278.03)	1.364	0.081	16.854	3.912
CHRONIC ANEMIA (Multiple)	0.094	0.029	3.300	1.099
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.276	0.020	13.858	1.317
ALZHEIMER'S DISEASE (331.0)	0.144	0.035	4.116	1.155
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.176	0.040	4.343	1.192
ENCEPHALOPATHY (Multiple)	0.131	0.037	3.539	1.140
DISEASES OF TRICUSPID VALVE (397.0)	0.250	0.039	6.429	1.284
NON-MALIGNANT HYPERTENSION WITH CHF (Multiple)	0.265	0.086	3.058	1.303
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.272	0.088	3.081	1.313
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.100	0.017	5.969	1.105
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.101	0.013	7.648	1.106
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.251	0.030	8.321	1.285
PULMONARY HYPERTENSION (Multiple)	0.422	0.027	15.872	1.525
AORTIC VALVE DISORDERS (424.1)	0.169	0.030	5.579	1.184
ATRIAL FIBRILLATION (427.31)	0.079	0.013	5.901	1.082
ATRIAL FLUTTER (427.32)	0.139	0.046	3.034	1.150
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.390	0.016	24.298	1.478
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.273	0.053	5.145	1.313
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.405	0.103	3.916	1.499
NARROWING OF CEREBRAL ARTERY (Multiple)	0.125	0.044	2.862	1.133
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.132	0.023	5.766	1.141
CHRONIC BRONCHITIS (Multiple)	0.574	0.039	14.552	1.775
OTHER EMPHYSEMA (492.8)	0.473	0.049	9.648	1.606
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.192	0.015	12.524	1.212

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Gallbladder Removal Surgery (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.560	0.038	14.757	1.751
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.224	0.052	4.278	1.251
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.243	0.083	2.932	1.275
INCISIONAL HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.21)	0.234	0.054	4.329	1.263
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	0.229	0.017	13.219	1.257
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.120	0.035	3.468	1.128
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITHOUT MENTION OF OBSTRUCTION (574.00)	0.175	0.012	14.525	1.192
CALCULUS OF GALLBLADDER WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION (574.01)	0.258	0.031	8.453	1.295
CALCULUS OF BILE DUCT WITH ACUTE CHOLECYSTITIS, WITH OBSTRUCTION (574.31)	0.095	0.046	2.045	1.099
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION (574.60)	0.214	0.026	8.379	1.238
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE CHOLECYSTITIS WITH OBSTRUCTION (574.61)	0.137	0.033	4.158	1.147
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITHOUT MENTION OF OBSTRUCTION (574.80)	0.177	0.034	5.149	1.194
CALCULUS OF GALLBLADDER AND BILE DUCT, WITH ACUTE AND CHRONIC CHOLECYSTITIS WITH OBSTRUCTION (574.81)	0.141	0.042	3.333	1.152
ACUTE CHOLECYSTITIS (575.0)	0.259	0.017	15.3	1.295
ACUTE AND CHRONIC CHOLECYSTITIS (575.12)	0.253	0.031	8.078	1.287
HYDROPS OF GALLBLADDER (575.3)	0.063	0.029	2.172	1.066
PERFORATION OF GALLBLADDER (575.4)	0.418	0.034	12.276	1.519
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.443	0.018	24.282	1.558
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.575	0.037	15.508	1.776
END STAGE RENAL DISEASE (585.6)	0.2	0.086	2.326	1.222
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.363	0.02	18.137	1.438
HYPERPLASIA OF PROSTATE (Multiple)	0.062	0.016	3.746	1.064
DECUBITIS ULCER (Multiple)	0.351	0.049	7.196	1.42
SEPTIC SHOCK (785.52)	0.213	0.046	4.656	1.237
OTHER ASCITES (789.59)	0.497	0.038	13.022	1.643
SEVERE SEPSIS (995.92)	0.438	0.036	12.263	1.55
ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY [ERCP] (51.10)	0.269	0.034	7.828	1.308
OTHER PARTIAL CHOLECYSTECTOMY (51.21)	0.993	0.069	14.395	2.699
CHOLECYSTECTOMY (51.22)	0.849	0.013	65.977	2.337
LAPAROSCOPIC PARTIAL CHOLECYSTECTOMY (51.24)	0.232	0.084	2.767	1.261
EXPLORATION OF COMMON BILE DUCT (51.51)	0.311	0.052	5.981	1.365
ENDOSCOPIC INSERTION OF STENT (TUBE) INTO BILE DUCT (51.87)	0.756	0.02	37.88	2.129

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Hip Fracture Treatment

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.096	0.013	7.333	1.101
AdmitSourceXferNonHospital	0.062	0.026	2.416	1.064
Age70To74	0.138	0.018	7.628	1.147
Age75To79	0.299	0.017	17.848	1.348
Age80To84	0.388	0.016	24.215	1.475
Age85To89	0.485	0.016	30.551	1.625
Age90AndOver	0.625	0.016	39.032	1.869
PrimaryFacilityPresentOnAdmissionKnownPercent	1.087	0.051	21.248	2.965
SexFemale	-0.299	0.007	-40.770	0.741
SEPSIS (Multiple)	0.564	0.053	10.686	1.758
CARDIOMYOPATHY (Multiple)	0.186	0.018	10.408	1.204
MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED (162.9)	0.148	0.042	3.511	1.160
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.030	0.009	3.527	1.031
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.226	0.026	8.531	1.254
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.170	0.022	7.842	1.186
MALNUTRITION (Multiple)	0.311	0.014	21.881	1.365
ACIDOSIS (276.2)	0.444	0.028	15.559	1.559
DEHYDRATION (Multiple)	0.134	0.014	9.628	1.144
HYPERPOTASSEMIA (276.7)	0.102	0.020	5.186	1.107
BODY MASS INDEX 30-39 (Multiple)	0.187	0.018	10.322	1.205
BODY MASS INDEX 40 AND OVER (Multiple)	0.379	0.028	13.465	1.461
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	0.039	0.017	2.214	1.039
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.039	0.015	2.667	1.040
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITH BEHAVIORAL DISTURBANCE (294.11)	0.125	0.037	3.396	1.133
DYSTHYMIC DISORDER (300.4)	0.102	0.032	3.180	1.108
TOBACCO USE DISORDER (305.1)	0.088	0.013	6.746	1.092
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.057	0.009	6.151	1.059
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.238	0.020	12.152	1.269
ENCEPHALOPATHY (Multiple)	0.081	0.026	3.130	1.084
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE STENOSIS (396.2)	0.253	0.039	6.455	1.287
MITRAL VALVE INSUFFICIENCY AND AORTIC VALVE INSUFFICIENCY (396.3)	0.110	0.034	3.180	1.116
DISEASES OF TRICUSPID VALVE (397.0)	0.128	0.021	6.057	1.136
MALIGNANT ESSENTIAL HYPERTENSION (401.0)	0.152	0.033	4.613	1.164
NON-MALIGNANT HYPERTENSION WITH CHF (Multiple)	0.242	0.052	4.644	1.274
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.056	0.018	3.085	1.058
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.283	0.027	10.478	1.327
NON-MALIG HYPERTEN & REN WITH CHF (Multiple)	0.295	0.054	5.449	1.343
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.277	0.042	6.567	1.319
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.124	0.012	10.700	1.132
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.139	0.008	16.607	1.150
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.190	0.020	9.758	1.209
PULMONARY HYPERTENSION (Multiple)	0.432	0.014	31.458	1.540
MITRAL VALVE DISORDERS (424.0)	0.056	0.018	3.200	1.058

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Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AORTIC VALVE DISORDERS (424.1)	0.184	0.014	12.939	1.202
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.127	0.023	5.464	1.135
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.101	0.024	4.297	1.106
ATRIAL FIBRILLATION (427.31)	0.061	0.008	7.554	1.063
ATRIAL FLUTTER (427.32)	0.102	0.030	3.428	1.108
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.056	0.019	2.996	1.058
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.346	0.009	37.37	1.414
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.339	0.043	7.882	1.403
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.475	0.033	14.232	1.609
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.299	0.067	4.465	1.349
NARROWING OF CEREBRAL ARTERY (Multiple)	0.139	0.023	6.052	1.15
CEREBRAL ATHEROSCLEROSIS (437.0)	0.151	0.033	4.589	1.163
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.125	0.027	4.586	1.133
OTHER LATE EFFECTS OF CEREBROVASCULAR DISEASE (438.89)	0.148	0.026	5.761	1.16
ABDOMINAL ANEURYSM WITHOUT MENTION OF RUPTURE (441.4)	0.175	0.028	6.319	1.191
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.101	0.014	7.457	1.106
HYPOTENSION, UNSP OR NEC (Multiple)	0.139	0.024	5.679	1.149
BACTERIAL PNEUMONIA (Multiple)	0.072	0.024	2.975	1.075
CHRONIC BRONCHITIS (Multiple)	0.513	0.025	20.779	1.67
OTHER EMPHYSEMA (492.8)	0.368	0.028	13.19	1.445
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.13	0.01	13.544	1.139
PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS (507.0)	0.178	0.05	3.529	1.195
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.476	0.034	14.21	1.61
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.296	0.026	11.245	1.344
OTHER DISEASES OF LUNG, NOT ELSEWHERE CLASSIFIED (518.89)	0.146	0.054	2.724	1.157
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.3)	0.221	0.023	9.787	1.248
PARALYTIC ILEUS (560.1)	0.526	0.086	6.127	1.693
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.262	0.034	7.83	1.3
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.432	0.019	23.038	1.541
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.497	0.025	20.112	1.644
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.408	0.02	20.875	1.504
PRESSURE ULCER, STAGE II (707.22)	0.141	0.036	3.945	1.151
RHABDOMYOLYSIS (728.88)	0.124	0.028	4.408	1.132
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.179	0.044	4.081	1.196
DYSPHAGIA (Multiple)	0.441	0.018	23.954	1.554
OTHER ASCITES (789.59)	0.545	0.066	8.26	1.725
ABNORMAL COAGULATION PROFILE (790.92)	0.046	0.022	2.046	1.047
HYPOXEMIA (799.02)	0.162	0.023	6.936	1.176
DEBILITY, UNSPECIFIED (799.3)	0.091	0.02	4.489	1.096
CACHEXIA (799.4)	0.13	0.028	4.622	1.138
CLOSED FRACTURE OF SURGICAL NECK OF HUMERUS (812.01)	0.342	0.04	8.533	1.408
CLOSED FRACTURE OF UNSPECIFIED INTRACAPSULAR SECTION OF NECK OF FEMUR (820.00)	0.103	0.039	2.623	1.108
CLOSED FRACTURE OF MIDCERVICAL SECTION OF FEMUR (820.02)	0.069	0.024	2.845	1.071
CLOSED FRACTURE OF INTERTROCHANTERIC SECTION OF FEMUR (820.21)	0.237	0.01	24.83	1.267

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Hip Fracture Treatment (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
CLOSED FRACTURE OF SUBTROCHANTERIC SECTION OF FEMUR (820.22)	0.334	0.015	22.734	1.396
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH (V15.82)	0.046	0.009	5.122	1.047
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.285	0.018	16.205	1.329
Palliative Care Risk Ragrdless of POA (V66.7)	1.791	0.023	79.372	5.997
PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG] (43.11)	1.579	0.048	32.692	4.851
CLOSED REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION (79.15)	0.112	0.012	9.067	1.118
OPEN REDUCTION OF FRACTURE OF FEMUR WITH INTERNAL FIXATION (79.35)	0.104	0.012	8.543	1.109
TOTAL HIP REPLACEMENT (81.51)	0.429	0.02	21.421	1.536
PARTIAL HIP REPLACEMENT (81.52)	0.469	0.012	38.995	1.599
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	3.718	0.045	82.058	41.185
TRANSFUSION OF PACKED CELLS (99.04)	0.39	0.007	54.588	1.477
TRANSFUSION OF OTHER SERUM (99.07)	0.207	0.019	10.984	1.23

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Hip Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.682	0.109	6.276	1.978
AdmitSourceXferNonHospital	0.863	0.157	5.485	2.370
AdmitSourceXferSkilledNursing	0.518	0.109	4.765	1.678
Age70To74	0.173	0.018	9.575	1.189
Age75To79	0.374	0.019	20.100	1.454
Age80To84	0.605	0.020	30.405	1.832
Age85To89	0.794	0.024	32.961	2.212
Age90AndOver	1.095	0.038	28.433	2.990
PrimaryFacilityPresentOnAdmissionKnownPercent	1.232	0.074	16.640	3.428
SexFemale	-0.178	0.014	-12.814	0.837
CARDIOMYOPATHY (Multiple)	0.271	0.044	6.167	1.312
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.218	0.016	13.953	1.243
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.686	0.072	9.455	1.985
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.226	0.064	3.534	1.254
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.284	0.045	6.242	1.328
DISORDERS OF LIPOID METABOLISM (Multiple)	0.034	0.013	2.640	1.034
DEHYDRATION (Multiple)	1.011	0.071	14.253	2.750
HYPERPOTASSEMIA (276.7)	0.711	0.064	11.092	2.037
HYPOPOTASSEMIA (276.8)	0.283	0.055	5.173	1.327
BODY MASS INDEX 30-39 (Multiple)	0.091	0.018	5.082	1.095
BODY MASS INDEX 40 AND OVER (Multiple)	0.517	0.024	21.721	1.677
CHRONIC ANEMIA (Multiple)	0.254	0.040	6.366	1.290
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.472	0.045	10.584	1.603
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	0.614	0.082	7.456	1.849
TOBACCO USE DISORDER (305.1)	0.204	0.027	7.654	1.226
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.234	0.020	11.612	1.264
DISEASES OF TRICUSPID VALVE (397.0)	0.379	0.059	6.427	1.461
NON-MALIGNANT HYPERTENSION (Multiple)	0.210	0.016	13.451	1.233
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.692	0.072	9.562	1.998
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.832	0.036	22.761	2.297
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	1.181	0.100	11.797	3.257
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.245	0.024	9.981	1.277
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.251	0.017	14.626	1.286
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.411	0.051	8.101	1.508
PULMONARY HYPERTENSION (Multiple)	0.639	0.040	15.810	1.895
AORTIC VALVE DISORDERS (424.1)	0.286	0.037	7.661	1.330
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.245	0.055	4.467	1.277
ATRIAL FIBRILLATION (427.31)	0.141	0.019	7.541	1.152
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.491	0.028	17.434	1.634
CHRONIC DIASTOLIC HEART FAILURE (Multiple)	0.129	0.049	2.620	1.137
NARROWING OF CEREBRAL ARTERY (Multiple)	0.158	0.051	3.096	1.171
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.179	0.032	5.526	1.196

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Hip Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
HYPOTENSION, UNSP OR NEC (Multiple)	0.347	0.070	4.961	1.415
CHRONIC BRONCHITIS (Multiple)	0.677	0.077	8.834	1.968
OTHER EMPHYSEMA (492.8)	0.359	0.064	5.598	1.431
ASTHMA (Multiple)	0.124	0.022	5.526	1.132
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.311	0.022	14.430	1.365
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.288	0.039	7.452	1.334
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.310	0.041	7.605	1.363
HYPERPLASIA OF PROSTATE (Multiple)	0.205	0.021	9.873	1.227
OSTEOARTHROSIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE (715.90)	0.203	0.05	4.06	1.225
OSTEOARTHROSIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, PELVIC REGION AND THIGH (715.95)	0.118	0.017	6.752	1.125
UNSPECIFIED INTRAPELVIC PROTRUSION OF ACETABULUM, PELVIC REGION AND THIGH (718.65)	0.279	0.085	3.277	1.322
ASEPTIC NECROSIS OF HEAD AND NECK OF FEMUR (733.42)	0.257	0.025	10.269	1.294
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH (V15.82)	0.106	0.015	7.082	1.112
BODY MASS INDEX LESS THAN 19, ADULT (V85.0)	0.356	0.134	2.658	1.428
Bi-lateral Hip Replacement (81.51)	0.56	0.088	6.34	1.75

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Pacemaker Procedures

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.052	0.027	1.948	1.054
Age75To79	0.134	0.025	5.289	1.143
Age80To84	0.219	0.025	8.867	1.245
Age85To89	0.322	0.025	12.993	1.380
Age90AndOver	0.344	0.027	12.851	1.411
SexFemale	0.154	0.013	12.200	1.167
SEPSIS (Multiple)	0.530	0.057	9.257	1.699
CARDIOMYOPATHY (Multiple)	0.098	0.023	4.302	1.103
CHRONIC LYMPHOID LEUKEMIA, WITHOUT MENTION OF HAVING ACHIEVED REMISSION (204.1)	0.239	0.093	2.567	1.270
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.164	0.046	3.566	1.179
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.085	0.034	2.519	1.088
MALNUTRITION (Multiple)	0.561	0.035	15.979	1.752
OBESITY HYPOVENTILATION SYNDROME (278.03)	0.636	0.084	7.584	1.888
CHRONIC ANEMIA (Multiple)	0.121	0.029	4.184	1.129
ANEMIA OF OTHER CHRONIC DISEASE (285.29)	0.104	0.034	3.033	1.109
ANEMIA, UNSPECIFIED (285.9)	0.068	0.019	3.510	1.070
ALZHEIMER'S DISEASE (331)	0.211	0.037	5.760	1.236
ENCEPHALOPATHY (Multiple)	0.280	0.041	6.845	1.323
MITRAL VALVE STENOSIS AND AORTIC VALVE STENOSIS (396)	0.303	0.110	2.768	1.354
MALIGNANT ESSENTIAL HYPERTENSION (401)	0.220	0.051	4.277	1.246
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.320	0.042	7.652	1.377
ANTERIOR/LATERAL WALL AMI (Multiple)	0.611	0.110	5.571	1.841
INFERIOR WALL AMI (Multiple)	0.772	0.133	5.803	2.165
ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE (410.71)	0.332	0.034	9.768	1.394
CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY (414.2)	0.144	0.062	2.311	1.154
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.159	0.025	6.321	1.172
PULMONARY HYPERTENSION (Multiple)	0.201	0.020	10.167	1.223
ACUTE AND SUBACUTE BACTERIAL ENDOCARDITIS (421)	0.425	0.071	6.010	1.530
UNSPECIFIED DISEASE OF PERICARDIUM (423.9)	0.194	0.065	2.978	1.214
ATRIAL FLUTTER (427.32)	0.141	0.022	6.456	1.151
CONGESTIVE HEART FAILURE, UNSPECIFIED (428)	0.230	0.016	14.779	1.259
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.325	0.029	11.040	1.383
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.283	0.024	11.581	1.327
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.355	0.041	8.740	1.426
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION (440.21)	0.281	0.114	2.458	1.324
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.081	0.023	3.526	1.084
BACTERIAL PNEUMONIA (Multiple)	0.104	0.034	3.050	1.110
CHRONIC BRONCHITIS (Multiple)	0.314	0.037	8.491	1.369
OTHER EMPHYSEMA (492.8)	0.184	0.064	2.860	1.201
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.086	0.018	4.738	1.089
UNSPECIFIED PLEURAL EFFUSION (511.9)	0.420	0.038	11.099	1.522
POSTINFLAMMATORY PULMONARY FIBROSIS (515)	0.170	0.052	3.258	1.185
CHRONIC KIDNEY DISEASE, STAGE II (MILD) (585.2)	0.188	0.054	3.500	1.207

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Pacemaker Procedures (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.418	0.018	22.721	1.519
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.488	0.030	16.179	1.630
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.306	0.020	15.291	1.359
ADULT FAILURE TO THRIVE (783.7)	0.378	0.069	5.499	1.459
BACTEREMIA (790.7)	0.213	0.069	3.079	1.237
INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT (996.61)	0.395	0.059	6.686	1.484
PROCEDURE ON SINGLE VESSEL (0.4)	1.065	0.094	11.39	2.9
IMPLANTATION OF CARDIAC RESYNCHRONIZATION PACEMAKER WITHOUT MENTION OF DEFIBRILLATION, TOTAL SYSTEM [CRT-P] (0.5)	1.619	0.041	39.66	5.047
IMPLANTATION OR REPLACEMENT OF CARDIAC RESYNCHRONIZATION PACEMAKER PULSE GENERATOR ONLY [CRT-P] (0.53)	1.028	0.154	6.658	2.795
RIGHT HEART CARDIAC CATHETERIZATION (37.21)	0.633	0.081	7.792	1.884
LEFT HEART CARDIAC CATHETERIZATION (37.22)	0.332	0.026	12.65	1.394
COMBINED RIGHT AND LEFT HEART CARDIAC CATHETERIZATION (37.23)	0.518	0.054	9.68	1.679
INITIAL INSERTION OF LEAD [ELECTRODE], NOT OTHERWISE SPECIFIED (37.7)	0.955	0.115	8.298	2.598
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO VENTRICLE (37.71)	0.867	0.089	9.777	2.38
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODES] INTO ATRIUM AND VENTRICLE (37.72)	1.282	0.117	10.95	3.604
INITIAL INSERTION OF TRANSVENOUS LEAD [ELECTRODE] INTO ATRIUM (37.73)	0.825	0.106	7.816	2.282
INSERTION OR REPLACEMENT OF EPICARDIAL LEAD [ELECTRODE] INTO EPICARDIUM (37.74)	1.843	0.063	29.35	6.314
REVISION OF LEAD [ELECTRODE] (37.75)	2.683	0.027	98.11	14.624
REPLACEMENT OF TRANSVENOUS ATRIAL AND/OR VENTRICULAR LEAD(S) [ELECTRODE(S)] (37.76)	1.36	0.042	32.21	3.894
REMOVAL OF LEAD(S) [ELECTRODE] WITHOUT REPLACEMENT (37.77)	1.043	0.059	17.59	2.838
INSERTION OF TEMPORARY TRANSVENOUS PACEMAKER SYSTEM (37.78)	0.396	0.02	19.52	1.485
REVISION OR RELOCATION OF CARDIAC DEVICE POCKET (37.79)	0.485	0.038	12.78	1.624
INSERTION OF PERMANENT PACEMAKER, INITIAL OR REPLACEMENT, TYPE OF DEVICE NOT SPECIFIED (37.8)	0.855	0.118	7.252	2.352
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE (37.81)	0.677	0.091	7.456	1.968
INITIAL INSERTION OF SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE (37.82)	0.705	0.093	7.571	2.023
INITIAL INSERTION OF DUAL-CHAMBER DEVICE (37.83)	0.331	0.118	2.819	1.393
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, NOT SPECIFIED AS RATE-RESPONSIVE (37.85)	0.658	0.092	7.132	1.931
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH SINGLE-CHAMBER DEVICE, RATE-RESPONSIVE (37.86)	0.66	0.123	5.382	1.935
REPLACEMENT OF ANY TYPE OF PACEMAKER DEVICE WITH DUAL-CHAMBER DEVICE (37.87)	0.684	0.046	15.02	1.982
REVISION OR REMOVAL OF PACEMAKER DEVICE (37.89)	0.11	0.054	2.021	1.116
NON-INVASIVE MECHANICAL VENTILATION (93.9)	1.262	0.037	33.81	3.533
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HOURS (96.71)	2.096	0.033	64.4	8.136
CONTINUOUS INVASIVE MECHANICAL VENTILATION FOR 96 CONSECUTIVE HOURS OR MORE (96.72)	2.667	0.072	36.99	14.399
TRANSFUSION OF PACKED CELLS (99.04)	0.905	0.027	33.56	2.473
TRANSFUSION OF PLATELETS (99.05)	0.475	0.082	5.822	1.608
TRANSFUSION OF OTHER SERUM (99.07)	0.418	0.046	9.026	1.519

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Peripheral Vascular Bypass

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.475	0.061	7.773	1.608
AdmitSourceXferNonHospital	0.629	0.141	4.460	1.876
Age70To74	0.130	0.033	3.903	1.139
Age75To79	0.298	0.034	8.657	1.347
Age80To84	0.395	0.037	10.585	1.484
Age85To89	0.518	0.044	11.845	1.679
Age90AndOver	0.553	0.060	9.156	1.738
PrimaryFacilityPresentOnAdmissionKnownPercent	1.150	0.155	7.405	3.158
SexFemale	0.115	0.024	4.836	1.122
CARDIOMYOPATHY (Multiple)	0.224	0.056	4.022	1.251
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.297	0.085	3.505	1.345
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.141	0.061	2.321	1.152
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.110	0.033	3.278	1.116
MALNUTRITION (Multiple)	0.557	0.057	9.754	1.746
DEHYDRATION (Multiple)	0.333	0.099	3.359	1.395
BODY MASS INDEX 30-39 (Multiple)	0.137	0.042	3.255	1.147
BODY MASS INDEX 40 AND OVER (Multiple)	0.275	0.067	4.101	1.317
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.285	0.074	3.836	1.330
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.169	0.051	3.320	1.184
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.201	0.056	3.560	1.222
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.334	0.055	6.082	1.396
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.162	0.030	5.363	1.176
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.188	0.026	7.196	1.206
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.450	0.047	9.611	1.568
PULMONARY HYPERTENSION (Multiple)	0.365	0.058	6.292	1.440
MITRAL VALVE DISORDERS (424.0)	0.319	0.065	4.888	1.376
AORTIC VALVE DISORDERS (424.1)	0.289	0.058	4.945	1.336
ATRIAL FIBRILLATION (427.31)	0.074	0.030	2.488	1.077
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.334	0.032	10.582	1.396
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.800	0.154	5.211	2.225
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.985	0.159	6.185	2.679
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	1.077	0.249	4.330	2.935
ATHEROSCLEROSIS OF RENAL ARTERY (440.1)	0.286	0.079	3.638	1.332
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN (440.22)	0.201	0.033	6.095	1.223
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH ULCERATION (440.23)	0.299	0.032	9.245	1.348
ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH GANGRENE (440.24)	0.535	0.033	16.093	1.708
OTHER ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES (440.29)	0.215	0.087	2.473	1.240
ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT OF THE EXTREMITIES (440.32)	0.332	0.134	2.466	1.393
INFRA-RENAL ANEURYSM (Multiple)	0.205	0.054	3.817	1.228
ARTERIAL EMBOLISM AND THROMBOSIS OF LOWER EXTREMITY (444.22)	0.338	0.037	9.093	1.403

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Peripheral Vascular Bypass (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
CHRONIC BRONCHITIS (Multiple)	0.680	0.095	7.145	1.973
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.118	0.027	4.438	1.125
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.570	0.060	9.538	1.769
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.698	0.081	8.653	2.009
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.370	0.062	5.927	1.447
CELLULITIS AND ABSCESS OF TOE, UNSPECIFIED (681.10)	0.159	0.070	2.281	1.172
CELLULITIS AND ABSCESS OF LEG, EXCEPT FOOT (682.6)	0.368	0.056	6.586	1.445
CELLULITIS AND ABSCESS OF FOOT, EXCEPT TOES (682.7)	0.236	0.047	5.048	1.267
DECUBITIS ULCER (Multiple)	0.242	0.066	3.657	1.273
ACUTE OSTEOMYELITIS, ANKLE AND FOOT (730.07)	0.252	0.099	2.549	1.286
GANGRENE (785.4)	0.286	0.068	4.19	1.332
DEPENDENCE ON SUPPLEMENTAL OXYGEN (V46.2)	0.253	0.074	3.416	1.287
PROCEDURE ON SINGLE VESSEL (00.40)	0.171	0.03	5.806	1.187
PROCEDURE ON TWO VESSELS (00.41)	0.31	0.04	7.675	1.363
PROCEDURE ON THREE VESSELS (00.42)	0.341	0.067	5.105	1.407
PROCEDURE ON FOUR OR MORE VESSELS (00.43)	0.328	0.1	3.302	1.389
ANGIOPLASTY OF OTHER NON-CORONARY VESSEL(S) (39.50)	0.202	0.038	5.38	1.224

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Prostate Removal Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
Age70To74	0.054	0.034	1.613	1.056
Age75To79	0.234	0.048	4.920	1.264
Age80To84	0.438	0.076	5.787	1.549
Age85To89	0.542	0.112	4.847	1.719
Age90AndOver	0.538	0.218	2.473	1.713
PrimaryFacilityPresentOnAdmissionKnownPercent	0.895	0.172	5.200	2.449
CARDIOMYOPATHY (Multiple)	0.396	0.132	3.005	1.486
MALNUTRITION (Multiple)	1.984	0.186	10.653	7.275
DISORDERS OF LIPOID METABOLISM (Multiple)	0.133	0.031	4.312	1.143
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.572	0.150	3.812	1.773
DEHYDRATION (Multiple)	0.940	0.193	4.876	2.560
HYPERPOTASSEMIA (276.7)	0.644	0.164	3.916	1.904
HYPOPOTASSEMIA (276.8)	0.658	0.158	4.155	1.931
BODY MASS INDEX 30-39 (Multiple)	0.252	0.050	5.078	1.287
BODY MASS INDEX 40 AND OVER (Multiple)	0.492	0.090	5.441	1.636
ANEMIA, UNSPECIFIED (285.9)	0.364	0.082	4.462	1.439
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.665	0.129	5.163	1.944
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	0.745	0.283	2.629	2.106
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.267	0.055	4.870	1.307
NON-MALIGNANT HYPERTENSION (Multiple)	0.200	0.033	6.012	1.221
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.672	0.238	2.824	1.958
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.393	0.121	3.251	1.482
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.570	0.225	2.537	1.769
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.242	0.065	3.704	1.274
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.207	0.045	4.561	1.230
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.897	0.150	5.980	2.452
MITRAL VALVE DISORDERS (424.0)	0.415	0.132	3.131	1.514
AORTIC VALVE DISORDERS (424.1)	0.347	0.134	2.599	1.415
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.561	0.090	6.225	1.752
CHRONIC BRONCHITIS (Multiple)	1.114	0.219	5.093	3.046
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.399	0.062	6.403	1.491
PERITONEAL ADHESIONS (POSTOPERATIVE) (POSTINFECTION) (568.0)	0.593	0.057	10.407	1.810
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.815	0.131	6.231	2.259
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.842	0.210	4.016	2.322
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.637	0.127	5.031	1.891
BLADDER NECK OBSTRUCTION (596.0)	0.173	0.074	2.347	1.189
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.370	0.098	3.796	1.448
HYPERPLASIA OF PROSTATE (Multiple)	0.100	0.041	2.428	1.105
NODULAR PROSTATE WITH URINARY OBSTRUCTION (600.11)	0.742	0.252	2.948	2.100
LAPAROSCOPIC ROBOTIC ASSISTED PROCEDURE (17.42)	-0.448	0.034	-13.062	0.639
OTHER AND UNSPECIFIED ROBOTIC ASSISTED PROCEDURE (17.49)	-0.395	0.101	-3.902	0.674
SUPRAPUBIC PROSTATECTOMY (60.3)	0.512	0.057	9.027	1.669
LOCAL EXCISION OF LESION OF PROSTATE (60.61)	-0.951	0.202	-4.700	0.387
OTHER PROSTATECTOMY (60.69)	0.138	0.051	2.721	1.148

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Spinal Fusion

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.515	0.052	9.838	1.673
AdmitSourceXferNonHospital	0.288	0.130	2.208	1.334
AdmitSourceXferSkilledNursing	0.348	0.114	3.040	1.416
Age70To74	0.145	0.016	8.762	1.156
Age75To79	0.292	0.018	16.233	1.339
Age80To84	0.423	0.022	18.933	1.527
Age85To89	0.490	0.035	14.144	1.632
Age90AndOver	0.747	0.078	9.623	2.111
PrimaryFacilityPresentOnAdmissionKnownPercent	0.878	0.089	9.833	2.407
SexFemale	-0.237	0.015	-16.157	0.789
CARDIOMYOPATHY (Multiple)	0.323	0.051	6.373	1.382
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.107	0.015	6.995	1.112
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.679	0.052	13.049	1.971
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.168	0.064	2.638	1.183
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.275	0.036	7.673	1.316
MALNUTRITION (Multiple)	1.028	0.058	17.650	2.796
DEHYDRATION (Multiple)	0.619	0.071	8.680	1.857
HYPOPOTASSEMIA (276.8)	0.361	0.043	8.349	1.435
BODY MASS INDEX 30-39 (Multiple)	0.152	0.019	8.137	1.164
BODY MASS INDEX 40 AND OVER (Multiple)	0.413	0.026	16.085	1.511
OBESITY HYPOVENTILATION SYNDROME (278.03)	1.746	0.116	15.021	5.733
CHRONIC ANEMIA (Multiple)	0.261	0.046	5.631	1.298
ANEMIA, UNSPECIFIED (285.9)	0.181	0.029	6.288	1.199
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.337	0.048	6.998	1.401
TOBACCO USE DISORDER (305.1)	0.115	0.025	4.642	1.121
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.117	0.018	6.314	1.124
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.304	0.020	15.526	1.355
ALZHEIMER'S DISEASE (331.0)	0.352	0.093	3.776	1.423
PARALYSIS AGITANS (332.0)	0.243	0.050	4.899	1.275
QUADRIPLEGIA, UNSPECIFIED (344.00)	0.724	0.070	10.342	2.062
CAUDA EQUINA SYNDROME WITHOUT MENTION OF NEUROGENIC BLADDER (344.60)	0.215	0.068	3.158	1.240
ENCEPHALOPATHY (Multiple)	0.671	0.102	6.581	1.957
DISORDERS OF MENINGES, NOT ELSEWHERE CLASSIFIED (349.2)	0.242	0.072	3.356	1.274
UNSPECIFIED IDIOPATHIC PERIPHERAL NEUROPATHY (356.9)	0.101	0.034	2.985	1.106
NON-MALIGNANT HYPERTENSION (Multiple)	0.103	0.016	6.584	1.108
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.505	0.084	6.040	1.657
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.538	0.041	13.156	1.713
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.522	0.089	5.878	1.685
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.209	0.025	8.443	1.232
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.188	0.018	10.703	1.207
PULMONARY HYPERTENSION (Multiple)	0.664	0.049	13.666	1.943
MITRAL VALVE DISORDERS (424.0)	0.204	0.044	4.614	1.227

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Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AORTIC VALVE DISORDERS (424.1)	0.339	0.046	7.336	1.403
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.199	0.064	3.130	1.220
PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (427.0)	0.358	0.139	2.569	1.430
ATRIAL FIBRILLATION (427.31)	0.126	0.023	5.437	1.134
ATRIAL FLUTTER (427.32)	0.273	0.090	3.025	1.314
OTHER SPECIFIED CARDIAC DYSRHYTHMIAS (427.89)	0.175	0.050	3.533	1.191
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.479	0.028	16.899	1.615
NARROWING OF CEREBRAL ARTERY (Multiple)	0.288	0.052	5.568	1.333
CHRONIC BRONCHITIS (Multiple)	0.634	0.072	8.811	1.885
OTHER EMPHYSEMA (492.8)	0.302	0.066	4.598	1.353
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.247	0.022	11.267	1.281
CIRRHOSIS OF LIVER WITHOUT MENTION OF ALCOHOL (571.5)	0.302	0.122	2.481	1.353
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.344	0.044	7.779	1.411
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.282	0.046	6.134	1.325
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.414	0.04	10.287	1.513
HYPERPLASIA OF PROSTATE (Multiple)	0.282	0.021	13.404	1.326
LUMBOSACRAL SPONDYLOSIS WITHOUT MYELOPATHY (721.3)	0.053	0.018	2.896	1.054
SPONDYLOSIS WITH MYELOPATHY, LUMBAR REGION (721.42)	0.218	0.054	4.023	1.243
DEGENERATION OF LUMBAR OR LUMBOSACRAL INTERVERTEBRAL DISC (722.52)	0.086	0.017	5.133	1.09
INTERVERTEBRAL DISC DISORDER WITH MYELOPATHY, THORACIC REGION (722.72)	0.241	0.085	2.849	1.272
OTHER AND UNSPECIFIED DISC DISORDER OF LUMBAR REGION (722.93)	0.19	0.066	2.896	1.209
SPINAL STENOSIS, LUMBAR REGION, WITHOUT NEUROGENIC CLAUDICATION (724.02)	0.046	0.016	2.852	1.047
OSTEOPOROSIS, UNSPECIFIED (733.00)	0.081	0.025	3.225	1.085
PATHOLOGIC FRACTURE OF VERTEBRAE (733.13)	0.112	0.05	2.245	1.119
KYPHOSIS (ACQUIRED) (POSTURAL) (737.10)	0.174	0.043	4.059	1.19
SCOLIOSIS [AND KYPHOSCOLIOSIS], IDIOPATHIC (737.30)	0.179	0.023	7.909	1.196
OTHER KYPHOSCOLIOSIS AND SCOLIOSIS (737.39)	0.186	0.035	5.28	1.204
SCOLIOSIS ASSOCIATED WITH OTHER CONDITIONS (737.43)	0.251	0.064	3.899	1.286
DYSPHAGIA (Multiple)	0.72	0.052	13.842	2.054
RETENTION OF URINE, UNSPECIFIED (788.20)	0.192	0.044	4.338	1.211
UNSPECIFIED URINARY INCONTINENCE (788.30)	0.135	0.046	2.966	1.145
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH (V15.82)	0.091	0.016	5.797	1.095
LONG-TERM (CURRENT) USE OF STEROIDS (V58.65)	0.107	0.05	2.131	1.113
OTHER EXPLORATION AND DECOMPRESSION OF SPINAL CANAL (03.09)	0.15	0.018	8.176	1.162
REPAIR OF VERTEBRAL FRACTURE (03.53)	0.6	0.067	9.007	1.822
EXCISION OF OTHER BONE FOR GRAFT (77.79)	0.087	0.013	6.583	1.09
SPINAL FUSION, NOT OTHERWISE SPECIFIED (81.00)	0.32	0.096	3.338	1.377
OTHER CERVICAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.02)	-0.154	0.026	-5.932	0.857
OTHER CERVICAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.03)	0.418	0.029	14.462	1.519
DORSAL AND DORSOLUMBAR FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.04)	0.994	0.085	11.694	2.702
DORSAL AND DORSOLUMBAR FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.05)	0.604	0.033	18.15	1.83

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Spinal Fusion (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
LUMBAR AND LUMBOSACRAL FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE (81.06)	0.492	0.022	22.489	1.635
LUMBAR AND LUMBOSACRAL FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE (81.07)	0.302	0.02	15.32	1.353
LUMBAR AND LUMBOSACRAL FUSION OF THE ANTERIOR COLUMN, POSTERIOR TECHNIQUE (81.08)	0.213	0.019	11.192	1.238
FUSION OR REFUSION OF 2-3 VERTEBRAE (81.62)	-0.2	0.035	-5.758	0.818
FUSION OR REFUSION OF 4-8 VERTEBRAE (81.63)	0.146	0.036	4.006	1.157
PERIOPERATIVE AUTOLOGOUS TRANSFUSION OF WHOLE BLOOD OR BLOOD COMPONENTS (99.00)	0.073	0.036	2.01	1.075
TRANSFUSION OF PACKED CELLS (99.04)	0.992	0.019	51.6	2.696

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Total Knee Replacement

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.688	0.092	7.452	1.990
Age70To74	0.156	0.012	13.539	1.169
Age75To79	0.369	0.012	30.575	1.446
Age80To84	0.555	0.014	40.295	1.741
Age85To89	0.707	0.019	37.997	2.027
Age90AndOver	0.881	0.039	22.469	2.414
PrimaryFacilityPresentOnAdmissionKnownPercent	0.643	0.046	13.851	1.903
SexFemale	-0.153	0.010	-15.755	0.858
CARDIOMYOPATHY (Multiple)	0.203	0.032	6.308	1.225
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.00)	0.151	0.010	15.120	1.163
DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED (250.02)	0.682	0.040	17.279	1.977
DIABETES WITH RENAL MANIFESTATIONS, TYPE II OR UNSPECIFIED TYPE, NOT STATED AS UNCONTROLLED (250.40)	0.138	0.039	3.534	1.148
DIAB W NEUROVASCULAR MANIFESTATIONS (Multiple)	0.277	0.027	10.180	1.320
DEHYDRATION (Multiple)	1.202	0.051	23.455	3.325
HYPERPOTASSEMIA (276.7)	0.707	0.044	16.115	2.028
HYPOPOTASSEMIA (276.8)	0.235	0.037	6.359	1.264
BODY MASS INDEX 30-39 (Multiple)	0.094	0.011	8.611	1.098
BODY MASS INDEX 40 AND OVER (Multiple)	0.424	0.014	30.828	1.527
OBESITY HYPOVENTILATION SYNDROME (278.03)	1.832	0.062	29.292	6.245
CHRONIC ANEMIA (Multiple)	0.317	0.027	11.791	1.374
ANEMIA, UNSPECIFIED (285.9)	0.045	0.020	2.261	1.046
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.412	0.032	13.086	1.510
TOBACCO USE DISORDER (305.1)	0.229	0.021	11.051	1.257
DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED (311)	0.207	0.012	16.679	1.231
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.264	0.012	21.238	1.302
ALZHEIMER'S DISEASE (331.0)	0.429	0.062	6.969	1.536
PARALYSIS AGITANS (332.0)	0.268	0.041	6.471	1.307
EPILEPSY, UNSPECIFIED, WITHOUT MENTION OF INTRACTABLE EPILEPSY (345.90)	0.234	0.045	5.243	1.263
UNSPECIFIED IDIOPATHIC PERIPHERAL NEUROPATHY (356.9)	0.116	0.025	4.565	1.123
NON-MALIGNANT HYPERTENSION (Multiple)	0.163	0.011	15.122	1.177
NON-MALIGNANT HYPERTENSION W/O CHF (Multiple)	0.501	0.049	10.136	1.650
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.809	0.025	31.966	2.245
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.878	0.082	10.641	2.405
CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL, NATIVE OR GRAFT (414.00)	0.219	0.018	12.530	1.245
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.246	0.012	21.017	1.279
PULMONARY HYPERTENSION (Multiple)	0.832	0.027	30.634	2.299
MITRAL VALVE DISORDERS (424.0)	0.166	0.027	6.236	1.181
AORTIC VALVE DISORDERS (424.1)	0.281	0.028	10.213	1.324
FIRST DEGREE ATRIOVENTRICULAR BLOCK (426.11)	0.103	0.051	2.007	1.108
OTHER LEFT BUNDLE BRANCH BLOCK (426.3)	0.267	0.043	6.186	1.306
RIGHT BUNDLE BRANCH BLOCK (426.4)	0.225	0.039	5.810	1.252
ATRIAL FIBRILLATION (427.31)	0.140	0.013	10.655	1.150
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.525	0.018	29.386	1.690

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Total Knee Replacement (continued)

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
NARROWING OF CEREBRAL ARTERY (Multiple)	0.229	0.038	6.017	1.257
OTHER/UNSPEC PERIPH VASC DISEASE (Multiple)	0.140	0.025	5.684	1.150
CHRONIC BRONCHITIS (Multiple)	0.673	0.055	12.279	1.961
OTHER EMPHYSEMA (492.8)	0.465	0.049	9.576	1.593
ASTHMA (Multiple)	0.062	0.014	4.277	1.064
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.299	0.016	18.829	1.349
DIAPHRAGMATIC HERNIA WITHOUT MENTION OF OBSTRUCTION OR GANGRENE (553.3)	0.263	0.027	9.825	1.3
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.293	0.027	11.011	1.34
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.284	0.028	10.122	1.329
HYPERPLASIA OF PROSTATE (Multiple)	0.217	0.014	14.986	1.243
OSTEOARTHROSIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, UNSPECIFIED SITE (715.90)	0.155	0.037	4.153	1.167
OSTEOARTHROSIS, UNSPECIFIED WHETHER GENERALIZED OR LOCALIZED, LOWER LEG (715.96)	0.099	0.012	8.325	1.104
OSTEOPOROSIS, UNSPECIFIED (733.00)	0.057	0.018	3.193	1.058
TACHYCARDIA, UNSPECIFIED (785.0)	0.428	0.078	5.462	1.535
PERSONAL HISTORY OF TOBACCO USE, PRESENTING HAZARDS TO HEALTH (V15.82)	0.113	0.01	10.886	1.12
Bi-lateral Knee Replacement (81.54)	0.653	0.02	33.349	1.922

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Transurethral Prostate Resection Surgery

Factor List (ICD 9)	Coefficient	Standard Error	Z-Stat	Odds Ratio
AdmitSourceXferHospital	0.302	0.088	3.439	1.353
Age70To74	0.084	0.048	1.767	1.088
Age75To79	0.178	0.046	3.845	1.195
Age80To84	0.287	0.046	6.176	1.332
Age85To89	0.356	0.049	7.239	1.428
Age90AndOver	0.445	0.059	7.551	1.561
PrimaryFacilityPresentOnAdmissionKnownPercent	0.363	0.170	2.138	1.438
CARDIOMYOPATHY (Multiple)	0.508	0.065	7.849	1.663
MALIGNANT NEOPLASM OF PROSTATE (185)	0.088	0.039	2.278	1.092
MALNUTRITION (Multiple)	0.608	0.071	8.604	1.836
HYPOSMOLALITY AND/OR HYPONATREMIA (276.1)	0.316	0.057	5.549	1.372
DEHYDRATION (Multiple)	0.262	0.066	3.991	1.299
BODY MASS INDEX 40 AND OVER (Multiple)	0.377	0.082	4.590	1.458
CHRONIC ANEMIA (Multiple)	0.297	0.060	4.965	1.345
THROMBOCYTOPENIA, UNSPECIFIED (287.5)	0.323	0.072	4.483	1.382
DEMENTIA IN CONDITIONS CLASSIFIED ELSEWHERE WITHOUT BEHAVIORAL DISTURBANCE (294.10)	0.299	0.082	3.662	1.349
OBSTRUCTIVE SLEEP APNEA (ADULT) (PEDIATRIC) (327.23)	0.150	0.056	2.683	1.162
NON-MALIGNANT RENAL DISEASE W/O FAILURE (Multiple)	0.161	0.061	2.658	1.175
NON-MALIGNANT RENAL DISEASE WITH FAILURE (Multiple)	0.545	0.107	5.087	1.725
CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY VESSEL (414.01)	0.094	0.033	2.862	1.098
CHRONIC ISCHEMIC HEART DISEASE (Multiple)	0.512	0.075	6.858	1.668
MITRAL VALVE DISORDERS (424.0)	0.305	0.083	3.662	1.357
AORTIC VALVE DISORDERS (424.1)	0.412	0.075	5.498	1.511
ATRIAL FLUTTER (427.32)	0.263	0.113	2.328	1.301
CONGESTIVE HEART FAILURE, UNSPECIFIED (428.0)	0.393	0.042	9.400	1.482
ACUTE SYSTOLIC HEART FAILURE (Multiple)	0.653	0.118	5.558	1.922
ACUTE DIASTOLIC HEART FAILURE (Multiple)	0.487	0.131	3.722	1.628
ACUTE COMBINED SYSTOLIC AND DIASTOLIC HEART FAILURE (Multiple)	0.523	0.209	2.502	1.687
LATE EFFECT OF CEREBROVASCULAR DISEASE, HEMIPLEGIA AFFECTING UNSPECIFIED SIDE (438.20)	0.389	0.122	3.200	1.475
CHRONIC BRONCHITIS (Multiple)	0.403	0.095	4.250	1.497
CHRONIC AIRWAY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (496)	0.120	0.041	2.959	1.128
CHRONIC KIDNEY DISEASE, STAGE III (MODERATE) (585.3)	0.429	0.066	6.483	1.536
CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE) (585.4)	0.589	0.088	6.722	1.802
CHRONIC KIDNEY DISEASE, UNSPECIFIED (585.9)	0.347	0.065	5.308	1.415
HYDRONEPHROSIS (591)	0.271	0.043	6.293	1.311
URINARY TRACT INFECTION, SITE NOT SPECIFIED (599.0)	0.083	0.035	2.365	1.087
URINARY OBSTRUCTION, NOT ELSEWHERE CLASSIFIED (599.69)	0.113	0.043	2.644	1.119
TRANSURETHRAL (ULTRASOUND) GUIDED LASER INDUCED PROSTATECTOMY (TULIP) (60.21)	0.081	0.036	2.273	1.085

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Appendix F. Model Fit Statistics

Cohort	In-hospital			In-hospital + 30 days		
	c-stat	Lower CI	Upper CI	c-stat	Lower CI	Upper CI
Abdominal Aortic Aneurysm Repair	0.760	0.754	0.765	Not evaluated at 30 days		
Appendectomy	0.789	0.786	0.792	Not evaluated at 30 days		
Back and Neck Surgeries (without Spinal Fusion)	0.727	0.722	0.731	Not evaluated at 30 days		
Bariatric Surgery	0.695	0.689	0.701	Not evaluated at 30 days		
Bowel Obstruction	0.883	0.880	0.887	0.844	0.841	0.847
Carotid Surgery	0.679	0.675	0.683	Not evaluated at 30 days		
Chronic Obstructive Pulmonary Disease (COPD)	0.854	0.850	0.857	0.769	0.766	0.771
Colorectal Surgeries	0.903	0.900	0.905	0.890	0.888	0.892
Coronary Artery Bypass Graft (CABG) Surgery	0.809	0.803	0.816	0.781	0.775	0.787
Coronary Interventional Procedures (Inpatient)	0.902	0.899	0.904	0.861	0.859	0.864
Cranial Neurosurgery	0.927	0.924	0.931	0.874	0.870	0.878
Defibrillator Procedures	0.726	0.721	0.7300	Not evaluated at 30 days		
Diabetic Emergencies	0.867	0.859	0.874	0.795	0.789	0.800
Esophageal/Stomach Surgeries	0.830	0.826	0.834	0.803	0.801	0.805
Gallbladder Removal Surgery	0.712	0.710	0.715	Not evaluated at 30 days		
Gastrointestinal Bleed	0.879	0.876	0.882	0.814	0.812	0.816
Heart Attack (stent available)	0.892	0.891	0.894	0.859	0.858	0.861
Heart Attack (stent not available)	0.849	0.844	0.854	0.798	0.794	0.803
Heart Failure	0.877	0.875	0.878	0.781	0.780	0.783
Hip Fracture Treatment	0.705	0.704	0.707	Not evaluated at 30 days		
Hip Replacement	0.699	0.696	0.702	Not evaluated at 30 days		
Pacemaker Procedures	0.741	0.738	0.744	Not evaluated at 30 days		
Pancreatitis	0.869	0.862	0.877	0.836	0.830	0.842
Peripheral Vascular Bypass	0.709	0.703	0.714	Not evaluated at 30 days		
Pneumonia	0.843	0.841	0.844	0.792	0.791	0.793
Prostate Removal Surgery	0.685	0.677	0.693	Not evaluated at 30 days		
Pulmonary Embolism	0.881	0.876	0.885	0.840	0.836	0.843
Respiratory Failure	0.887	0.885	0.888	0.841	0.839	0.842
Sepsis	0.884	0.884	0.885	0.856	0.855	0.857
Small Intestine Surgeries	0.869	0.865	0.874	0.862	0.859	0.866
Spinal Fusion	0.737	0.734	0.740	Not evaluated at 30 days		
Stroke	0.922	0.920	0.923	0.871	0.869	0.872
Total Knee Replacement	0.687	0.685	0.689	Not evaluated at 30 days		
Transurethral Prostate Resection Surgery	0.665	0.658	0.672	Not evaluated at 30 days		
Valve Surgery	0.781	0.776	0.786	0.754	0.7489	0.759

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Appendix G. Hospital Ratings Removal Policy

Effective Date: August 16, 2015

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

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

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

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

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

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

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