

Women's Health Excellence Award™ 2014 Methodology

Contents

Introduction	1
Data Source	1
Cohort Definitions and Outcomes	2
Healthgrades Risk-Adjustment Methodology	2
Eligibility for the 2014 Women's Health Excellence Award™	3
Statistical Models and Award Calculations	
Limitations of the Data Analysis	4
Appendix A. Patient Cohorts and Related ICD-9-CM Codes	
Appendix B. Women's Health Complications	9
Appendix C. Top Five Risk Factors by Procedure or Diagnosis	29

Introduction

The Healthgrades Women's Health Excellence Award™ recognizes the best-performing hospitals in women's health, which includes care provided to women for common conditions and procedures treated in the hospital.

To help consumers evaluate and compare hospital performance in women's health, Healthgrades analyzed female patient outcome data for virtually every hospital in the country. A list of award recipients is available on the Internet at www.Healthgrades.com.

The women's health ratings used to determine award recipients were based upon Healthgrades risk-adjustment methodology for 15 procedures/diagnoses described below.

Data Source

Healthgrades used Medicare inpatient data from the MedPAR database (purchased from the Centers for Medicare and Medicaid Services) for years 2010 through 2012.

Cohort Definitions and Outcomes

For each of the 15 patient cohorts, Healthgrades developed a list of specific procedures and diagnoses that define the cohort and a list of cohort-specific exclusions for rare and/or clinically complex diagnoses and procedures that cannot be adequately risk adjusted (*Appendix A*).

For each of these cohorts, only hospitals with at least 30 female cases across three years of data and at least five female cases in the most current year were included.

For eight of the cohorts, the outcome measure is mortality. For seven of the cohorts, the outcome of measure is in-hospital complications. For the cohorts where in-hospital complications are the outcome of study, complications are defined by using clinical and coding experts. A list of in-hospital complications by cohort can be found in *Appendix B*.

Healthgrades analyzed the following 15 procedures/diagnoses (cohorts) for each hospital's female patients:

Mortality-Based Cohorts

- Chronic Obstructive Pulmonary Disease (COPD)
- Coronary Artery Bypass Graft (CABG) Surgery
- Coronary Interventional Procedures (PTCA/Angioplasty, Stent)
- Heart Attack
- Heart Failure
- Pneumonia
- Stroke
- Valve Surgery

Complication-Based Cohorts

- Spinal Fusion
- Back and Neck Surgery (Without Spinal Fusion)
- Carotid Surgery
- Hip Fracture Treatment
- Hip Replacement
- Peripheral Vascular Bypass
- Total Knee Replacement

Healthgrades Risk-Adjustment Methodology

Healthgrades risk-adjustment methodology considers important differences in patient demographic and clinical characteristics. The purpose of risk adjustment is to obtain fair statistical comparisons between disparate populations or groups. Significant differences in demographic and clinical risk factors are found among patients treated in different hospitals. Risk adjustment of the data is needed to make accurate and valid comparisons of clinical outcomes at different hospitals.

This methodology defines risk factors as those clinical and demographic variables that influence patient outcomes in significant and systematic ways. Risk factors may include age, specific procedure performed, and comorbid conditions such as hypertension, chronic renal failure, congestive heart failure, and diabetes. These risk factors are incorporated into multivariate logistic regression models to carry out the risk adjustment.



Eligibility for the 2014 Women's Health Excellence Award™

To receive a rating (z-score) in a cohort, a hospital must have had all of the following:

- A minimum of 30 female discharges over the three years, and at least five female discharges in the most recent year in the cohort.
- For stroke, a hospital must have transferred out less than 10% of stroke patients (female or male) to another acute care hospital over three years (2010–2012).

To be eligible to receive a Women's Health Excellence Award, a hospital must be:

- Rated (have a z-score) in stroke.
- Rated in at least eight of the fifteen cohorts listed above.

Statistical Models and Award Calculations

Healthgrades used the following steps to determine Women's Health Excellence Award recipients:

- 1. For each patient cohort, unique, female-only statistical models were developed using logistic regression. For most mortality cohorts, separate models were created for in-hospital mortality and in-hospital +30-day mortality.
- Comorbid diagnoses (e.g., hypertension, chronic renal failure, anemia, diabetes), demographic
 characteristics (e.g., age), and specific procedures were classified as possible risk factors.
 Some diagnosis codes were merged together (e.g., primary and secondary pulmonary
 hypertension) to minimize the impact of coding differences.

Healthgrades used logistic regression to determine which of these factors were correlated and to what extent with mortality or complications. Those conditions or demographics with statistically significant odds ratios stayed in the model as final risk factors.

Potential risk factors with odds ratios less than one were removed from the model except in a few cases. See *Appendix C* for a list of the top five risk factors for each procedure or diagnosis. The top five risk factors are procedures/diagnoses that are the most highly correlated with the outcome. They are not necessarily those with the highest volume.

The statistical models were checked for validity and finalized. All of the models were highly significant. These cohort specific models were then used to estimate the probability of death or complication for each patient in the cohort.

- 3. Patients were aggregated for each hospital to obtain the predicted outcome for each hospital.
- 4. For each hospital, cohort, and outcome, the observed and predicted numbers were summed and a z-score was calculated. Thus, the complication-based cohorts had a single z-score but most mortality-based cohorts had two z-scores (in-hospital and in-hospital +30 days).
- 5. The overall performance score for each hospital was calculated using volume-weighted z-scores averaged across all complications, in-hospital mortality, and 30-day mortality based cohorts. Volume weights represent the proportion of patients within a given cohort and outcome measure. The proportion is calculated as the ratio of patients in a cohort and outcome measure over total patients across all cohorts and outcome measures. The patients used for in-hospital mortality and 30-day mortality are treated as independent for the volume weighting calculation.

As each mortality cohort is composed of two outcomes measures, in-hospital mortality and 30-day mortality, and complication cohorts have only one outcome measure, the individual influence of mortality and complication outcomes on the overall performance score is 2 to 1.



Within the mortality cohorts a higher emphasis is placed on 30-day mortality (0.6) compared to in-hospital mortality (0.4) because the 30-day mortality outcome measure is considered a more significant quality indicator and this quality measure will impact hospital reimbursements in the near future.

The final contribution of each cohort to the overall score will vary based on the mix of cohorts at any given hospital.

- 6. Hospitals were then listed in descending order by their overall performance score.
- The top 10% of hospitals were designated the 2014 Women's Health Excellence Award™ recipients.

Limitations of the Data Analysis

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

- Cases may have been coded incorrectly or incompletely by the hospital.
- Healthgrades conditions and procedures models can only account for risk factors that are coded into the billing data. Therefore, 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.
- Although Healthgrades has taken steps to carefully compile these data, no techniques are infallible; therefore, some information may be missing, outdated or incorrect.
- A portion of the 2010 MedPAR inpatient data file contains only the first nine diagnoses and the
 first six procedure codes for an inpatient stay. For some patients, this may not be
 representative of the full list of codes submitted. Starting with the final release of the 2010
 MedPAR file, all code positions were included. Where these fields were populated,
 Healthgrades has used them to define inclusion and exclusion criteria, complications, and risk
 factors.

Please note that a high z-score or rating or a particular hospital is not a recommendation or endorsement by Health Grades, Inc. of a particular hospital; it means that the data associated with a particular hospital has met the foregoing qualifications. Only individual patients can decide whether a particular hospital is suited for their unique needs.

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



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

Excluded from each cohort were patients who have had any organ transplant or a complication thereof.

Back and Neck Surgery (Without Spinal Fusion)

Inclusions

"Procedure and Diagnosis Related Group Combination: Procedure (First Listed): 80.51 , 03.09 , 03.53 , 84.59 , 84.62 , 84.63 , 84.64 , 84.65 , 84.80 , 84.82 , 80.50 , 80.59 , 84.61 , 84.84 , 84.60 AND One of the following DRGs: 3,28,29,30,490,491

Exclusions

Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 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): 198.5, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V54.01, V54.09

Diagnosis (First listed): 996.42, 996.43, 996.47, 996.49, 996.78

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

Carotid Surgery

Inclusions

Procedure (First listed): 00.61, 00.63, 38.12, 39.74

Exclusions

Procedure (Any position): 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

Diagnosis (Any position): 430, 431, 432.1, 432.9, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Chronic Obstructive Pulmonary Disease (COPD)

Inclusions

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

Exclusions

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

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



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): 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

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

Coronary Interventional Procedures

Inclusions

Procedure (First listed): 00.66, 36.07, 36.09

Procedure (First listed and only when occurs with 00.66,36.06,36.07,36.09): 37.61

Exclusions

Procedure (Any position): 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 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

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): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63

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, 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): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.95, 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, 414.06, 414.07, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11



Hip Fracture Treatment

Inclusions

Diagnosis and Diagnosis Related Group Combination: Diagnosis (First Listed): 820.8, 820.20, 820.03, 820.21, 820.02, 820.22, 820.00, 820.09 AND One of the following DRGs: 3, 4, 469, 470, 535, 536, 480, 481, 482

Exclusions

Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 78.65, 78.66, 78.67, 80.05, 80.06, 81.51, 81.53, 81.54, 81.55

Diagnosis (Any position): 733.15, 733.42, 733.82, 800.61, 800.62, 800.63, 800.64, 800.65, 800.66, 800.69, 820.01, 820.10, 820.11, 820.12, 820.13, 820.19, 820.30, 820.31, 820.32, 820.9, 821.00, 821.01, 821.10, 821.11, 821.20, 821.21, 821.22, 821.23, 821.29, 821.30, 821.31, 821.32, 821.33, 821.39, 996.40, 996.41, 996.42, 996.43, 996.44, 996.45, 996.46, 996.47, 996.49, 996.78, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9

Hip Replacement

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First Listed): 81.51, 00.85, 00.86, 00.87 AND One of the following DRGs: 3, 461, 462, 469, 470

Exclusions

Procedure (Any position): 00.70, 00.71, 00.72, 00.73, 00.80, 00.81, 00.82, 00.83, 00.84, 37.51, 37.52, 37.53, 37.54, 78.65, 78.67, 80.05, 80.06, 81.53, 81.54, 81.55

Diagnosis (Any position): 733.14, 820.00, 820.02, 820.03, 820.09, 820.20, 820.21, 820.22, 820.8, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V15.5, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V58.43, V58.49

Diagnosis (First listed): 996.41, 996.43

Peripheral Vascular Bypass

Inclusions

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

Procedure (First listed): 39.29

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Exclusions

Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63, 39.25, 39.49

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): 37.51, 37.52, 37.53, 37.54, 37.62, 37.63

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, 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



Spinal Fusion

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First Listed): 81.00, 81.01, 81.02, 81.03, 81.04, 81.05, 81.06, 81.07, 81.08, 81.61 AND One of the following DRGs: 3, 28, 29, 30, 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, 473

Exclusions

Procedure (Any position): 37.51, 37.52, 37.53, 37.54, 78.69, 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

Diagnosis (Any position): 198.5, 996.45, 996.46, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V45.4 Diagnosis (First listed): 996.41, 996.42, 996.43

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

Stroke

Inclusions

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

Exclusions

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

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, 432.1, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, V42.0, V42.1, V42.4, V42.6, V42.7, V42.81, V42.82, V42.83, V42.84, V42.89, V42.9, V43.21, V46.11

Total Knee Replacement

Inclusions

Procedure and Diagnosis Related Group Combination: Procedure (First Listed): 81.54 AND One of the following DRGs: 3, 461, 462, 469, 470

Exclusions

Procedure (Any position): 00.74, 00.75, 00.76, 00.80, 00.81, 00.82, 00.83, 00.84, 37.51, 37.52, 37.53, 37.54, 78.65, 78.67, 80.05, 80.06, 81.51, 81.52, 81.53

Procedure (Other than first listed): 81.55

Diagnosis (First listed): 996.43

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

Valve Surgery

Inclusions

Procedure (Any position): 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): 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

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



Appendix B. Women's Health Complications

Back and Neck Surgery (Without Spinal Fusion) - Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

038.0	STREPTOCOCCAL SEPTICEMIA
038.10	STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED
038.11	METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA
038.19 038.2	OTHER STAPHYLOCOCCAL SEPTICEMIA 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
038.9 286.6	UNSPECIFIED SEPTICEMIA DEFIBRINATION SYNDROME
280.0 292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.12	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
410.61 410.71	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
410.81	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INTIAL EPISODE OF CARE 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
433.01 433.11	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF WELTEBIAL ARTERY WITH CEREBRAL 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 PNEUMONIA DUE TO ADENOVIRUS
480.0 480.1	PNEUMONIA DUE TO ADENOVIROS 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]
482.30 482.31	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS DNEUMONIA DUE TO STREPTOCOCCUS, CROUD A
	PINELING INTO THE THAT IREPTAIN THAT IS A SHOP A



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 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS 482.42 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA PNEUMONIA DUE TO ANAEROBES 482 81 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA 482.83 482.84 LEGIONNAIRES' DISEASE PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA 482 89 BACTERIAL PNEUMONIA, UNSPECIFIED 482.9 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE 483.0 PNEUMONIA DUE TO CHLAMYDIA 483.1 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM 483.8 PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE 484.1 PNEUMONIA IN WHOOPING COUGH 484.3 484.6 PNEUMONIA IN ASPERGILLOSIS 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES PNEUMONIA, ORGANISM UNSPECIFIED 486 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS 507.0 512.1 IATROGENIC PNEUMOTHORAX PULMONARY CONGESTION AND HYPOSTASIS 514 518.7 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI] ACUTE RESPIRATORY FAILURE 518.81 584.5 ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS 584.8 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY ACUTE KIDNEY FAILURE, UNSPECIFIED 584.9 707.0 PRESSURE ULCER PRESSURE ULCER, UNSPECIFIED SITE 707.00 707.01 PRESSURE ULCER, ELBOW 707.02 PRESSURE ULCER, UPPER BACK 707.03 PRESSURE ULCER, LOWER BACK 707.04 PRESSURE ULCER, HIP PRESSURE ULCER, BUTTOCK 707.05 707.06 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 OTHER SHOCK WITHOUT MENTION OF TRAUMA 785.59 799.1 RESPIRATORY ARREST INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY 867.0 995.91 995.92 SEVERE SEPSIS INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER 996.64 997.02 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 DIGESTIVE SYSTEM COMPLICATION 997.4 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS 997.5 URINARY COMPLICATIONS 998.0 POSTOPERATIVE SHOCK POSTOPERATIVE SHOCK, UNSPECIFIED 998.00 998.01 POSTOPERATIVE SHOCK, CARDIOGENIC POSTOPERATIVE SHOCK, SEPTIC 998 02 998.09 POSTOPERATIVE SHOCK, OTHER 998.11 HEMORRHAGE COMPLICATING A PROCEDURE 998.30 DISRUPTION OF WOUND, UNSPECIFIED DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND 998.31 998.32 DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND 998 59 OTHER POSTOPERATIVE INFECTION 999.31 OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER

BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER

ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS



999.32

Back and Neck Surgery (Without Spinal Fusion) - Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

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	
120 21	ACLITE DIACTOLIC HEADT FAILLIDE	

- 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
511.9	UNSPECIFIED PLEURAL EFFUSION
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

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

560.1 PARALYTIC ILEUS

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

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

996.40	UNSPECIFIED MECHANICAL COMPLICATION OF INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996.49	OTHER MECHANICAL COMPLICATION OF OTHER INTERNAL ORTHOPEDIC DEVICE, IMPLANT, AND GRAFT
996 78	OTHER COMPLICATIONS DUE TO OTHER INTERNAL ORTHOPEDIC DEVICE IMPLANT AND GRAFT

Carotid Surgery – Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. 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 DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE 293.0 348.1 ANOXIC BRAIN DAMAGE 410.01 ACUTE MYOCARDIAL INFARCTION, OF ANTEROLATERAL WALL, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE 410.11 410.21 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE 410.51 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE 410.61 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE 410.71 410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE 410.91 IATROGENIC PULMONARY EMBOLISM AND INFARCTION 415.11 SEPTIC PULMONARY EMBOLISM 415.12 OTHER PULMONARY EMBOLISM AND INFARCTION 415.19 CARDIAC TAMPONADE 423.3 VENTRICULAR FIBRILLATION 427.41 427.5 CARDIAC ARREST CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION 434.01 SEPTIC ARTERIAL EMBOLISM 449 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY 453.40 453.41 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY 453.42 453.82 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 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS 480.3 480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] 481 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE 482.0 482.1 PNEUMONIA DUE TO PSEUDOMONAS 482.2 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] 482.30 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B 482 32 PNEUMONIA DUE TO OTHER STREPTOCOCCUS 482.39 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED 482 40 482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS 482.42 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA PNEUMONIA DUE TO ANAEROBES 482.81 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA 482.83 482.84 LEGIONNAIRES' DISEASE PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA 482.89 BACTERIAL PNEUMONIA, UNSPECIFIED 482.9 PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE 483.0 483.1 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 PNEUMONIA, ORGANISM UNSPECIFIED 486 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS 507.0 512.1 IATROGENIC PNEUMOTHORAX 514 PULMONARY CONGESTION AND HYPOSTASIS 518.7 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI] 518.81 ACUTE RESPIRATORY FAILURE ACUTE AND CHRONIC RESPIRATORY FAILURE 518.84 780.01 COMA SHOCK, UNSPECIFIED 785.50 785.51 CARDIOGENIC SHOCK 785.52 SEPTIC SHOCK 785.59 OTHER SHOCK WITHOUT MENTION OF TRAUMA INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY 867.0



SEPSIS

INJURY TO HYPOGLOSSAL NERVE

INJURY TO OTHER SPECIFIED NERVE(S)

951.7

957.1

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

Carotid Surgery – Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

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

410.31 410.41	ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE 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 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

560.1 PARALYTIC ILEUS

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

Hip Fracture Treatment – Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

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 OTHER SHOCK WITHOUT MENTION OF TRAUMA 785.59 INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY 867.0 INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER 996.64 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE 997.02 OTHER NERVOUS SYSTEM COMPLICATIONS 997.09 997.1 CARDIAC COMPLICATIONS 997.3 RESPIRATORY COMPLICATIONS VENTILATOR ASSOCIATED PNEUMONIA 997.31 POSTPROCEDURAL ASPIRATION PNEUMONIA 997.32 997.39 OTHER RESPIRATORY COMPLICATIONS 997.4 DIGESTIVE SYSTEM COMPLICATION 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS 997.5 URINARY COMPLICATIONS 998.0 POSTOPERATIVE SHOCK POSTOPERATIVE SHOCK, UNSPECIFIED 998.00 998.01 POSTOPERATIVE SHOCK, CARDIOGENIC POSTOPERATIVE SHOCK, SEPTIC 998.02 998.09 POSTOPERATIVE SHOCK, OTHER 998.11 HEMORRHAGE COMPLICATING A PROCEDURE ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE 998.2 998.30 DISRUPTION OF WOUND, UNSPECIFIED DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND 998.31 DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND 998.32 998 59 OTHER POSTOPERATIVE INFECTION OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER 999.31 BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER 999.32 ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS 999.34 999.39 INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Hip Fracture Treatment – Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

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

ACUTE SYSTOLIC HEART FAILURE

ACUTE DIASTOLIC HEART FAILURE

ACUTE ON CHRONIC SYSTOLIC HEART FAILURE

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



428.21 428.23

428 31

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

with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIRATORY COMPLICATIONS

Must occi	ur with 997.3 RESPIRATORY COMPLICATIONS or 997.39 OTHER RESPIR
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
482.41 482.42	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
	OTHER STAPHYLOCOCCUS PNEUMONIA
482.49 482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ANAEROBES PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] 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
511.9	UNSPECIFIED PLEURAL EFFUSION
518.81	ACUTE RESPIRATORY FAILURE
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
799.1	RESPIRATORY ARREST

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

PARALYTIC ILEUS

Must occur with 997.5 URINARY COMPLICATIONS

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

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



038.8 OTHER SPECIFIED SEPTICEMIAS 038.9 UNSPECIFIED SEPTICEMIA 785.52 SEPTIC SHOCK 995.91 SEPSIS 995.92 SEVERE SEPSIS

Must not occur with v42.4 Bone Replaced by Transplant or v43.64 HIP Joint Replaced by Other Means or v43.65 knee Joint Replaced by Other Means or v45.4 arthrodesis status or v54.01 encounter for Removal of Internal Fixation Device or v54.02 encounter for Lengthening/Adjustment of Growth Rod or v54.09 other aftercare involving internal fixation device

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS

Hip Replacement – Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

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



480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS 480.2 PNEUMONIA DUE TO PARAINFLUENZA VIRUS 480.3 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS 480.8 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] 481 482.0 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE PNEUMONIA DUE TO PSEUDOMONAS 482.1 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] 482.2 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS 482.30 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B 482 32 PNEUMONIA DUE TO OTHER STREPTOCOCCUS 482.39 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED 482.40 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS 482.41 METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS 482 42 OTHER STAPHYLOCOCCUS PNEUMONIA 482.49 PNEUMONIA DUE TO ANAEROBES 482.81 482.82 PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI] PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA 482.83 482.84 LEGIONNAIRES' DISEASE PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA 482.89 482.9 BACTERIAL PNEUMONIA, UNSPECIFIED PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE 483.0 483.1 PNEUMONIA DUE TO CHLAMYDIA PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM 483.8 484.1 PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE PNEUMONIA IN WHOOPING COUGH 484 3 484.6 PNEUMONIA IN ASPERGILLOSIS 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES 485 BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED PNEUMONIA, ORGANISM UNSPECIFIED 486 507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS 512.1 IATROGENIC PNEUMOTHORAX PULMONARY CONGESTION AND HYPOSTASIS 514 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI] 518.7 518.81 ACUTE RESPIRATORY FAILURE ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS 584.5 ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY 584.8 584.9 ACUTE KIDNEY FAILURE, UNSPECIFIED 707.0 PRESSURE ULCER 707.00 PRESSURE ULCER, UNSPECIFIED SITE 707.01 PRESSURE ULCER, ELBOW 707.02 PRESSURE ULCER, UPPER BACK 707.03 PRESSURE ULCER, LOWER BACK 707.04 PRESSURE ULCER, HIP 707.05 PRESSURE ULCER, BUTTOCK 707.06 PRESSURE ULCER, ANKLE 707.07 PRESSURE ULCER, HEEL 707.09 PRESSURE ULCER, OTHER SITE 785.50 SHOCK, UNSPECIFIED 785.51 CARDIOGENIC SHOCK 785.52 SEPTIC SHOCK 785.59 OTHER SHOCK WITHOUT MENTION OF TRAUMA 799.1 RESPIRATORY ARREST INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY 867.0 995.91 **SEPSIS** SEVERE SEPSIS 995.92 996.42 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 CARDIAC COMPLICATIONS 997.1 997.3 RESPIRATORY COMPLICATIONS VENTILATOR ASSOCIATED PNEUMONIA 997.31 997.32 POSTPROCEDURAL ASPIRATION PNEUMONIA 997 39 OTHER RESPIRATORY COMPLICATIONS



DIGESTIVE SYSTEM COMPLICATION OTHER DIGESTIVE SYSTEM COMPLICATIONS

URINARY COMPLICATIONS

997.4

997.49

998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999 8	OTHER AND LINSPECIFIED INFLISION AND TRANSFLISION REACTION

Hip Replacement – Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE	
434.11	CEREBRAL EMBOLISM WITH CEREBRAL INFARCTION

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

511.9	UNSPECIFIED PLEURAL EFFUSION
518 84	ACLITE AND CHRONIC RESPIRATORY FAILURE

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

560.1 PARALYTIC ILEUS

434.91

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

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

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



Peripheral Vascular Bypass - Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

	The of the state o
286.6	DEFIBRINATION SYNDROME
292.12	DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS
292.81	DRUG INDUCED DELIRIUM
293.0	DELIRIUM DUE TO CONDITIONS CLASSIFIED ELSEWHERE
348.1	ANOXIC BRAIN DAMAGE
415.11	
415.12	
415.19	
423.3	CARDIAC TAMPONADE
427.41	
427.5	CARDIAC ARREST
431	INTRACEREBRAL HEMORRHAGE OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.01 433.11	
433.11	
433.31	OCCLUSION AND STENOSIS OF WENTEBRAL ARTERY WITH CEREBRAL INFARCTION OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF WIGHTING AND BICATERIAL TREGEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
434.11	
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
514 510 7	PULMONARY CONGESTION AND HYPOSTASIS TRANSFLISION DELATED ACLITE LUNC IN HIDV ITDALII
518.7 518.84	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI] ACUTE AND CHRONIC RESPIRATORY FAILURE
780.01	
785.50	
785.51	·
785.52	
785.59	
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	
996.74	•
997.00	
997.01	CENTRAL NERVOUS SYSTEM COMPLICATION
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	
997.1	CARDIAC COMPLICATIONS
997.2	PERIPHERAL VASCULAR COMPLICATIONS DESCRIPTION COMPLICATIONS
997.3 997.31	RESPIRATORY COMPLICATIONS VENTILATOR ASSOCIATED PNEUMONIA
997.31	
997.32	
997.39	DIGESTIVE SYSTEM COMPLICATIONS
997.49	
997.5	URINARY COMPLICATIONS
007.01	

COMPLICATIONS AFFECTING OTHER SPECIFIED BODY SYSTEMS, HYPERTENSION



POSTOPERATIVE SHOCK

997.91

998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999 39	INFECTION FOLLOWING OTHER INFLISION IN JECTION TRANSFLISION OR VACCINATION

Peripheral Vascular Bypass - Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

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
	ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE
	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
	ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE
	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE
	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA
	PAROXYSMAL VENTRICULAR TACHYCARDIA
	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
	410.11 410.21 410.31 410.41 410.51 410.61 410.71 410.81 410.91 427.0 427.1 427.31 427.32 428.0 428.1 428.21 428.23 428.31 428.33 428.41 428.43

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 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS 507.0 ACUTE RESPIRATORY FAILURE 518 81
- Must occur with 997.4 DIGESTIVE SYSTEM COMPLICATION or 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS

560.1 PARALYTIC ILEUS

Must occur with 997.5 URINARY COMPLICATIONS

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

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

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

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE 008 45 038.0 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 SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] 038.41 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI] 038.42 SEPTICEMIA DUE TO PSEUDOMONAS 038.43 SEPTICEMIA DUE TO SERRATIA 038.44 OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS 038 49 OTHER SPECIFIED SEPTICEMIAS 038.8 038.9 **UNSPECIFIED SEPTICEMIA** 995.92 SEVERE SEPSIS

Spinal Fusion – Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

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 ACUTE MYOCARDIAL INFARCTION, OF OTHER ANTERIOR WALL, INITIAL EPISODE OF CARE 410.11 410.21 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE 410.31 ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE 410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE 410.51 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE 410.61 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE 410.71 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE 410.81 ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE 410.91 IATROGENIC PULMONARY EMBOLISM AND INFARCTION 415.11 SEPTIC PULMONARY EMBOLISM 415.12 OTHER PULMONARY EMBOLISM AND INFARCTION 415.19 CARDIAC TAMPONADE 423.3 **VENTRICULAR FIBRILLATION** 427.41 427.5 CARDIAC ARREST INTRACEREBRAL HEMORRHAGE 431 OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION 433.01 OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION 433.11 OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION 433.21 433.31 OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION 433.81 433.91 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 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY 453.41 453.42 ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES 453.82 480.0 PNEUMONIA DUE TO ADENOVIRUS 480.1 PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS PNEUMONIA DUE TO PARAINFLUENZA VIRUS 480.2 PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS 480.3 PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED 480.8 PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] 481 PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE 482.0 PNEUMONIA DUE TO PSEUDOMONAS 482.1 PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] 482.2 PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS 482 30 482.31 PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B 482.32 482.39 PNEUMONIA DUE TO OTHER STREPTOCOCCUS 482 40 PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED 482.41 METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS 482.42 482.49 OTHER STAPHYLOCOCCUS PNEUMONIA PNEUMONIA DUE TO ANAEROBES 482 81 482.82 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 PNEUMONIA DUE TO CHLAMYDIA 483.1 PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM 483.8 PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE 484.1 484.3 PNEUMONIA IN WHOOPING COUGH 484.6 PNEUMONIA IN ASPERGILLOSIS 484.7 PNEUMONIA IN OTHER SYSTEMIC MYCOSES PNEUMONIA, ORGANISM UNSPECIFIED 486 507.0 PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS IATROGENIC PNEUMOTHORAX 512.1 PULMONARY CONGESTION AND HYPOSTASIS 514 518.7 TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI] 518.81 ACUTE RESPIRATORY FAILURE



PRESSURE ULCER

584.5 584.8

584 9

707.0

ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS

ACUTE KIDNEY FAILURE, UNSPECIFIED

ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY

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 INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY 867.0 995.91 **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 CARDIAC COMPLICATIONS 997.1 997.3 RESPIRATORY COMPLICATIONS VENTILATOR ASSOCIATED PNEUMONIA 997.31 997.32 POSTPROCEDURAL ASPIRATION PNEUMONIA OTHER RESPIRATORY COMPLICATIONS 997.39 997.4 DIGESTIVE SYSTEM COMPLICATION 997.49 OTHER DIGESTIVE SYSTEM COMPLICATIONS 997.5 **URINARY COMPLICATIONS** 998.0 POSTOPERATIVE SHOCK POSTOPERATIVE SHOCK, UNSPECIFIED 998.00 POSTOPERATIVE SHOCK, CARDIOGENIC 998.01 998.02 POSTOPERATIVE SHOCK, SEPTIC 998.09 POSTOPERATIVE SHOCK, OTHER 998.11 HEMORRHAGE COMPLICATING A PROCEDURE DISRUPTION OF WOUND, UNSPECIFIED 998.30 DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND 998.31 DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND 998.32 OTHER POSTOPERATIVE INFECTION 998.59 OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER 999.31 BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER 999.32 999.34 ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS 999.39 INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION

Spinal Fusion – Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

Must occur with 997.02 IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE

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

Must occur with 997.1 CARDIAC COMPLICATIONS

- 427 N PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA 427.1 PAROXYSMAL VENTRICULAR TACHYCARDIA 427.31 ATRIAL FIBRILLATION 427.32 ATRIAL FLUTTER CONGESTIVE HEART FAILURE, UNSPECIFIED 428.0 428.1 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

511.9 UNSPECIFIED PLEURAL EFFUSION

518.84 ACUTE AND CHRONIC RESPIRATORY FAILURE

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

560.1 PARALYTIC ILEUS

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION

008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

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

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

Total Knee Replacement – Independent Complications

Independent complications are conditions that are clearly hospital-acquired or by the coding definition are defined as postoperative. These conditions were not counted as complications if the POA indicator was "Yes" or "Clinically Undetermined."

038.0 STREPTOCOCCAL SEPTICEMIA STAPHYLOCOCCAL SEPTICEMIA, UNSPECIFIED 038.10 METHICILLIN SUSCEPTIBLE STAPHYLOCOCCUS AUREUS SEPTICEMIA 038.11 METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA 038.12 038 19 OTHER STAPHYLOCOCCAL SEPTICEMIA PNEUMOCOCCAL SEPTICEMIA 038.2 038.3 SEPTICEMIA DUE TO ANAEROBES 038.40 SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISM, UNSPECIFIED SEPTICEMIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE] 038.41 038.42 SEPTICEMIA DUE TO ESCHERICHIA COLI [E. COLI] SEPTICEMIA DUE TO PSEUDOMONAS 038.43 038.44 SEPTICEMIA DUE TO SERRATIA OTHER SEPTICEMIA DUE TO GRAM-NEGATIVE ORGANISMS 038.49 038.8 OTHER SPECIFIED SEPTICEMIAS UNSPECIFIED SEPTICEMIA 038.9 286.6 **DEFIBRINATION SYNDROME** DRUG INDUCED PSYCHOTIC DISORDER WITH HALLUCINATIONS 292.12 292.81 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 ACUTE MYOCARDIAL INFARCTION, OF INFEROLATERAL WALL, INITIAL EPISODE OF CARE 410.21 410.31 ACUTE MYOCARDIAL INFARCTION, OF INFEROPOSTERIOR WALL, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, OF OTHER INFERIOR WALL, INITIAL EPISODE OF CARE 410.41 ACUTE MYOCARDIAL INFARCTION, OF OTHER LATERAL WALL, INITIAL EPISODE OF CARE 410.51 ACUTE MYOCARDIAL INFARCTION, TRUE POSTERIOR WALL INFARCTION, INITIAL EPISODE OF CARE 410.61 ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE 410.71 410.81 ACUTE MYOCARDIAL INFARCTION, OF OTHER SPECIFIED SITES, INITIAL EPISODE OF CARE ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED SITE, INITIAL EPISODE OF CARE 410.91 IATROGENIC PULMONARY EMBOLISM AND INFARCTION 415.11 415.12 SEPTIC PULMONARY EMBOLISM 415.19 OTHER PULMONARY EMBOLISM AND INFARCTION CARDIAC TAMPONADE 423.3 427 41 VENTRICULAR FIBRILLATION



CARDIAC ARREST

ACUTE DIASTOLIC HEART FAILURE

427.5

428.33	ACUTE ON CHRONIC DIASTOLIC HEART FAILURE
431	INTRACEREBRAL HEMORRHAGE
433.01	OCCLUSION AND STENOSIS OF BASILAR ARTERY WITH CEREBRAL INFARCTION
433.11	OCCLUSION AND STENOSIS OF CAROTID ARTERY WITH CEREBRAL INFARCTION
433.21	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY WITH CEREBRAL INFARCTION
433.31	OCCLUSION AND STENOSIS OF MULTIPLE AND BILATERAL PRECEREBRAL ARTERIES WITH CEREBRAL INFARCTION
433.81	OCCLUSION AND STENOSIS OF OTHER SPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
433.91	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY WITH CEREBRAL INFARCTION
434.01	CEREBRAL THROMBOSIS WITH CEREBRAL INFARCTION
449	SEPTIC ARTERIAL EMBOLISM
453.40	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED DEEP VESSELS OF LOWER EXTREMITY
453.41	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF PROXIMAL LOWER EXTREMITY
453.42	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VESSELS OF DISTAL LOWER EXTREMITY
453.82	ACUTE VENOUS EMBOLISM AND THROMBOSIS OF DEEP VEINS OF UPPER EXTREMITIES
480.0	PNEUMONIA DUE TO ADENOVIRUS
480.1	PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS
480.2	PNEUMONIA DUE TO PARAINFLUENZA VIRUS
480.3	PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS
480.8	PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED
481	PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA]
482.0	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE
482.1	PNEUMONIA DUE TO PSEUDOMONAS
482.2	PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE [H. INFLUENZAE]
482.30	PNEUMONIA DUE TO UNSPECIFIED STREPTOCOCCUS
482.31	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP A
482.32	PNEUMONIA DUE TO STREPTOCOCCUS, GROUP B
482.39	PNEUMONIA DUE TO OTHER STREPTOCOCCUS
482.40	PNEUMONIA DUE TO STAPHYLOCOCCUS, UNSPECIFIED
482.41	METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.42	METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS
482.49	OTHER STAPHYLOCOCCUS PNEUMONIA
482.81	PNEUMONIA DUE TO ANAEROBES
482.82	PNEUMONIA DUE TO ESCHERICHIA COLI [E. COLI]
482.83	PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA
482.84	LEGIONNAIRES' DISEASE
482.89	PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA
482.9	BACTERIAL PNEUMONIA, UNSPECIFIED
483.0	PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE
483.1	PNEUMONIA DUE TO CHLAMYDIA
483.8	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM
484.1	PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE
484.3	PNEUMONIA IN WHOOPING COUGH
484.6	PNEUMONIA IN ASPERGILLOSIS
484.7	PNEUMONIA IN OTHER SYSTEMIC MYCOSES
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED
486	PNEUMONIA, ORGANISM UNSPECIFIED
507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
512.1	iatrogenic pneumothorax
514	PULMONARY CONGESTION AND HYPOSTASIS
518.7	TRANSFUSION RELATED ACUTE LUNG INJURY [TRALI]
518.81	ACUTE RESPIRATORY FAILURE
584.5	ACUTE KIDNEY FAILURE WITH LESION OF TUBULAR NECROSIS
584.8	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
584.9	ACUTE KIDNEY FAILURE, UNSPECIFIED
707.0	PRESSURE ULCER
707.00	PRESSURE ULCER, UNSPECIFIED SITE
707.01	PRESSURE ULCER, ELBOW
707.02	PRESSURE ULCER, UPPER BACK
707.03	PRESSURE ULCER, LOWER BACK
707.04	PRESSURE ULCER, HIP
707.05	PRESSURE ULCER, BUTTOCK
707.06	PRESSURE ULCER, ANKLE
707.07	PRESSURE ULCER, HEEL
707.09 785.50	PRESSURE ULCER, OTHER SITE SHOCK, UNSPECIFIED
785.50 785.51	CARDIOGENIC SHOCK
785.51 785.52	SEPTIC SHOCK
785.59	OTHER SHOCK WITHOUT MENTION OF TRAUMA
799.1	RESPIRATORY ARREST
047.1	IN LIDNY TO DIA ADDED AND LIDETLIDA WITHOUT MENTION OF ODEN WOLKD INTO CAVITY

INJURY TO BLADDER AND URETHRA WITHOUT MENTION OF OPEN WOUND INTO CAVITY



995.91	SEPSIS
995.92	SEVERE SEPSIS
996.42	DISLOCATION OF PROSTHETIC JOINT
996.44	PERI-PROSTHETIC FRACTURE AROUND PROSTHETIC JOINT
996.64	INFECTION AND INFLAMMATORY REACTION DUE TO INDWELLING URINARY CATHETER
997.02	IATROGENIC CEREBROVASCULAR INFARCTION OR HEMORRHAGE
997.09	OTHER NERVOUS SYSTEM COMPLICATIONS
997.1	CARDIAC COMPLICATIONS
997.3	RESPIRATORY COMPLICATIONS
997.31	VENTILATOR ASSOCIATED PNEUMONIA
997.32	POSTPROCEDURAL ASPIRATION PNEUMONIA
997.39	OTHER RESPIRATORY COMPLICATIONS
997.4	DIGESTIVE SYSTEM COMPLICATION
997.49	OTHER DIGESTIVE SYSTEM COMPLICATIONS
997.5	URINARY COMPLICATIONS
998.0	POSTOPERATIVE SHOCK
998.00	POSTOPERATIVE SHOCK, UNSPECIFIED
998.01	POSTOPERATIVE SHOCK, CARDIOGENIC
998.02	POSTOPERATIVE SHOCK, SEPTIC
998.09	POSTOPERATIVE SHOCK, OTHER
998.11	HEMORRHAGE COMPLICATING A PROCEDURE
998.2	ACCIDENTAL PUNCTURE OR LACERATION DURING A PROCEDURE
998.30	DISRUPTION OF WOUND, UNSPECIFIED
998.31	DISRUPTION OF INTERNAL OPERATION (SURGICAL) WOUND
998.32	DISRUPTION OF EXTERNAL OPERATION (SURGICAL) WOUND
998.59	OTHER POSTOPERATIVE INFECTION
999.31	OTHER AND UNSPECIFIED INFECTION DUE TO CENTRAL VENOUS CATHETER
999.32	BLOODSTREAM INFECTION DUE TO CENTRAL VENOUS CATHETER
999.34	ACUTE INFECTION FOLLOWING TRANSFUSION, INFUSION, OR INJECTION OF BLOOD AND BLOOD PRODUCTS
999.39	INFECTION FOLLOWING OTHER INFUSION, INJECTION, TRANSFUSION, OR VACCINATION
999.8	OTHER AND UNSPECIFIED INFUSION AND TRANSFUSION REACTION

Total Knee Replacement – Dependent Complications

Dependent complications are conditions that must either have the POA indicator set to "No," or if the POA indicator is set to "Unknown" or is missing, there must also be the listed 900 postoperative complication code present in the patient record.

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

511.9	UNSPECIFIED PLEURAL EFFUSION
518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE

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

560.1 PARALYTIC ILEUS

Must occur with 997.5 URINARY COMPLICATIONS

593.9 UNSPECIFIED DISORDER OF KIDNEY AND URETER

Must occur with 998.59 OTHER POSTOPERATIVE INFECTION



008.45 INTESTINAL INFECTION DUE TO CLOSTRIDIUM DIFFICILE

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

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

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

996.77 OTHER COMPLICATIONS DUE TO INTERNAL JOINT PROSTHESIS



Appendix C. Top Five Risk Factors by Procedure or Diagnosis

Spinal Fusion	
Proc 81.04	DORSAL AND DORSOLUMBAR FUSION OF THE ANTERIOR COLUMN, ANTERIOR TECHNIQUE
Diag 260, 261, 262, 263.0, 263.1, 263.2, 263.8, 263.9	MALNUTRITION
Diag 348.30, 348.31, 348.39, 349.82	ENCEPHALOPATHY
Diag 344.00	QUADRIPLEGIA, UNSPECIFIED
Proc 81.05	DORSAL AND DORSOLUMBAR FUSION OF THE POSTERIOR COLUMN, POSTERIOR TECHNIQUE
Back and Neck Surgery (Without Spinal Fusion)	
Proc 99.04	TRANSFUSION OF PACKED CELLS
Diag 260, 261, 262, 263.0, 263.1, 263.2, 263.8, 263.9	MALNUTRITION
Proc 03.53	REPAIR OF VERTEBRAL FRACTURE
Diag 324.1	INTRASPINAL ABSCESS
Diag 348.30, 348.31, 348.39, 349.82	ENCEPHALOPATHY
Carotid Surgery	
Proc 39.74	ENDOVASCULAR REMOVAL OF OBSTRUCTION FROM HEAD AND NECK VESSEL(S)
Diag 428.31, 428.33	ACUTE DIASTOLIC HEART FAILURE
Diag 428.21, 428.23	ACUTE SYSTOLIC HEART FAILURE
Diag 585.4	CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)
Diag 491.0, 491.1, 491.20, 491.21, 491.22, 491.8, 491.9	CHRONIC BRONCHITIS
Chronic Obstructive Pulmonary Disease (COPD)	
Diag 038.0, 038.10, 038.11, 038.19, 038.2, 038.3, 038.40, 038.41 038.42, 038.43, 038.44, 038.49, 038.8, 038.9	I, SEPSIS
Diag 507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
Diag 518.81	ACUTE RESPIRATORY FAILURE
Diag 410.71	ACUTE MYOCARDIAL INFARCTION, SUBENDOCARDIAL INFARCTION, INITIAL EPISODE OF CARE
Diag 518.84	ACUTE AND CHRONIC RESPIRATORY FAILURE
Coronary Artery Bypass Graft (CABG) Surgery	
Proc 37.61	IMPLANT OF PULSATION BALLOON
Diag 585.6	END STAGE RENAL DISEASE
Diag 427.5	CARDIAC ARREST
Proc 37.33	EXCISION OR DESTRUCTION OF OTHER LESION OR TISSUE OF HEART, OPEN APPROACH
Diag 585.4	CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)
Coronary Interventional Procedures (Angioplasty/Ster	nt)
Proc 37.61	IMPLANT OF PULSATION BALLOON
Diag 410.01, 410.11, 410.21, 410.51, 410.61, 410.81, 410.91	ANTERIOR/LATERAL WALL AMI
Diag 585.6	END STAGE RENAL DISEASE
Diag 410.31, 410.41	INFERIOR WALL AMI
Diag 427.5	CARDIAC ARREST
	·



Heart Attack	
Diag 348.1	ANOXIC BRAIN DAMAGE
Proc 37.61	IMPLANT OF PULSATION BALLOON
Diag 427.5	CARDIAC ARREST
Diag 410.01, 410.11, 410.21, 410.51, 410.61, 410.81, 410.91	ANTERIOR/LATERAL WALL AMI
Diag 585.6	END STAGE RENAL DISEASE
Heart Failure	
Diag 410.01, 410.11, 410.21, 410.51, 410.61, 410.81, 410.91	ANTERIOR/LATERAL WALL AMI
Diag 507.0	PNEUMONITIS DUE TO INHALATION OF FOOD OR VOMITUS
Diag 585.6	END STAGE RENAL DISEASE
Diag 518.81	ACUTE RESPIRATORY FAILURE
Proc 36.15	SINGLE INTERNAL MAMMARY-CORONARY ARTERY BYPASS
Hip Fracture Treatment	
Proc 43.11	PERCUTANEOUS [ENDOSCOPIC] GASTROSTOMY [PEG]
Diag 428.21, 428.23	ACUTE SYSTOLIC HEART FAILURE
Diag 038.0, 038.10, 038.11, 038.19, 038.2, 038.3, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9	SEPSIS
Diag 428.31, 428.33	ACUTE DIASTOLIC HEART FAILURE
Diag 276.2	ACIDOSIS
Hip Replacement	
Diag 276.50, 276.51, 276.52	DEHYDRATION
Diag 250.02	DIABETES MELLITUS WITHOUT MENTION OF COMPLICATION, TYPE II OR UNSPECIFIED TYPE, UNCONTROLLED
Diag 403.10, 403.90	NON-MALIGNANT RENAL DISEASE W/O FAILURE
Diag 416.0, 416.1, 416.8, 416.9	PULMONARY HYPERTENSION
Diag 428.30, 428.32	CHRONIC DIASTOLIC HEART FAILURE
Peripheral Vascular Bypass	
Diag 428.21, 428.23	ACUTE SYSTOLIC HEART FAILURE
Diag 260, 261, 262, 263.0, 263.1, 263.2, 263.8, 263.9	MALNUTRITION
Diag 444.0	EMBOLISM AND THROMBOSIS OF ABDOMINAL AORTA
Diag 585.4	CHRONIC KIDNEY DISEASE, STAGE IV (SEVERE)
Diag 428.31, 428.33	ACUTE DIASTOLIC HEART FAILURE
Pneumonia	
Diag 518.81	ACUTE RESPIRATORY FAILURE
Diag 162.9	MALIGNANT NEOPLASM OF BRONCHUS AND LUNG, UNSPECIFIED
Diag 995.92	SEVERE SEPSIS
Diag 518.82	OTHER PULMONARY INSUFFICIENCY, NOT ELSEWHERE CLASSIFIED
Proc 99.04	TRANSFUSION OF PACKED CELLS
Stroke	·
Diag 780.01	COMA
Diag 518.81	ACUTE RESPIRATORY FAILURE
Diag 348.4	COMPRESSION OF BRAIN
Diag 410.01, 410.11, 410.21, 410.51, 410.61, 410.81, 410.91	ANTERIOR/LATERAL WALL AMI
Diag 038.12	METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS SEPTICEMIA



Healthgrades Women's Health Excellence Award™ 2014 Methodology - 31 Appendix C. Top Five Risk Factors by Procedure or Diagnosis

Total Knee Replacement		
Diag 276.50, 276.51, 276.52	DEHYDRATION	
Diag 403.10, 403.90	NON-MALIGNANT RENAL DISEASE W/O FAILURE	
Diag 416.0, 416.1, 416.8, 416.9	PULMONARY HYPERTENSION	
Diag 276.7	HYPERPOTASSEMIA	
Diag 428.30, 428.32	CHRONIC DIASTOLIC HEART FAILURE	
Valve Surgery		
Proc 37.61	IMPLANT OF PULSATION BALLOON	
Diag 585.6	END STAGE RENAL DISEASE	
Diag 427.5	CARDIAC ARREST	
Proc 35.27	OPEN AND OTHER REPLACEMENT OF TRICUSPID VALVE WITH TISSUE GRAFT	
Diag 996.61	INFECTION AND INFLAMMATORY REACTION DUE TO CARDIAC DEVICE, IMPLANT, AND GRAFT	

