

## ACO #36 Risk-Standardized Acute Admission Rates for Patients With Diabetes

### Measure Information Form (MIF)

#### Data Source

- Medicare inpatient claims
- Medicare outpatient claims
- Medicare beneficiary enrollment data
- Accountable Care Organization (ACO) assignment file

#### Measure Set ID

- ACO #36

#### Version Number and Effective Date

- Version 2.0, effective 12/31/2015

#### CMS Approval Date

- 12/31/15

#### NQF ID

- N/A; measure is under review at the National Quality Forum (NQF) for endorsement.

#### Date Endorsed

- N/A

#### Care Setting

- Hospital

#### Unit of Measurement

- Accountable Care Organization (ACO)

#### Measurement Duration

- Calendar Year

#### Measurement Period

- Calendar Year

#### Measure Type

- Outcome

#### Measure Scoring

- Risk-standardized readmission rate (RSRR)

### **Payer Source**

- Medicare fee-for-service (FFS)

### **Improvement Notation**

- Lower RSAAR scores indicate better quality.

### **Measure Steward**

- Centers for Medicare & Medicaid Services (CMS)

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- This quality measure was developed for CMS by Yale New Haven Hospital Health Services Corporation Center for Outcomes Research and Evaluation (CORE) in 2014.

### **Measure Description**

- Rate of risk-standardized acute, unplanned hospital admissions among Medicare fee-for-service (FFS) beneficiaries 65 years and older with diabetes who are assigned to the Accountable Care Organization (ACO).

### **Rationale**

The goal of this measure is to evaluate and to improve the quality of care for patients with diabetes cared for by ACOs. These patients account for a significant proportion of Medicare beneficiaries and they experience high morbidity and costs associated with their disease. These patients need efficient, coordinated, and patient-centered care management. They also benefit from provider support and infrastructure that facilitate effective chronic disease management. This measure is focused on hospital admissions for acute illness as the outcome because these admissions are often sentinel events associated with high morbidity as well as physical and emotional stress; they also result in high costs for both the patient and the ACO. Research shows that effective health care can lower the risk of admission for these vulnerable groups of patients.

This measure is intended to incentivize ACOs to provide high-quality, coordinated care that focuses on the whole patient. ACOs were conceptualized and created to achieve the goals of improved care, improved population health, and lower cost. Consistent with this mission, we envision that the measure will incentivize providers participating in ACOs to collaborate to provide the best system of clinical care and to partner with health and non-health related organizations in their communities, as appropriate, to improve the health of their patient population.

### **Clinical Recommendation Statement**

Research shows that effective health care can lower the risk of admission for patients with diabetes [1-7]. For example, specific system-based interventions such as seeing a physician involved in a pay-for-performance program for diabetes care or participation in group outpatient visits with a diabetes nurse educator have been associated with lower all-cause hospitalization rates among these patients [8]. It is our vision that these measures will illuminate variation in hospital admission rates and incentivize ACOs to develop efficient and coordinated chronic disease management strategies that anticipate and respond to patients' needs and preferences. This vision is consistent with ACOs' commitment to deliver patient-centered care that fulfills the goals of the Department of Health and Human Services' National Quality Strategy – improving population health, providing better care, and lowering healthcare costs [9].

### **References**

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### Release Notes / Summary of Changes

- This MIF includes only ICD-10 and HCC version 22 codes.

### Technical Specifications

- Target Population  
ACO-assigned or aligned Medicare beneficiaries with diabetes

### Denominator

- Denominator Statement

The target population is ambulatory Medicare FFS beneficiaries aged 65 years and older assigned to the ACO with a diagnosis of diabetes.

- Denominator Details

The targeted patient population is Medicare FFS beneficiaries aged 65 years and older assigned to the ACO during the measurement period with a diagnosis of diabetes. To be included in the cohort, beneficiaries must have one inpatient or two outpatient diabetes diagnosis codes in any position within one year prior to the measurement period. We allowed for prior year claims to define the cohort since there is no specified optimal frequency of follow-up visits among ambulatory, stable patients (i.e., patients without a change in their symptoms may never be hospitalized and may only be seen annually). To be included in the cohort, patients must be enrolled full-time in both Part A and B during the year prior to the measurement period. We excluded patients who were not enrolled full-time in Part A during the measurement period.

Diabetes is defined using the International Classification of Diseases, Tenth Revision, (ICD-10) diagnosis codes identified in Medicare Part A inpatient and outpatient and Part B Carrier claims data (See Appendix Table 1). Patients excluded from the cohort are identified with a Medicare Denominator File.

- Denominator Exceptions and Exclusions Details

The measure excludes:

1. Beneficiaries that do not have 12 months continuous enrollment in Medicare Part A and B during the year prior to the measurement year.

*Rationale:* This data is needed to attribute chronic conditions to beneficiaries.

2. Beneficiaries that do not have 12 months continuous enrollment in Medicare Part A during the measurement year. Beneficiaries who become deceased during the measurement period are excluded if they do not have continuous enrollment in Medicare Part A until death (i.e. the 12 month requirement is relaxed for these beneficiaries). Beneficiaries with continuous enrollment until death are excluded after the time of death.

*Rationale:* We exclude these patients to ensure full data availability for outcome assessment (Part A during the measurement year). Beneficiaries with continuous enrollment who become deceased during the year are included only for the time they are alive.

## Numerator

- Numerator Statement

The outcome measured for each beneficiary is the number of acute unplanned admissions per 100 person-years at risk for admission. Persons are considered at risk for admission if they are alive, enrolled in FFS Medicare, and not currently admitted to an acute care hospital.

- Numerator Details

### *Outcome Definition*

The outcome for this measure is the number of acute unplanned admissions per 100 person-years at risk for admission. The outcome includes inpatient admissions to an acute care hospital for any cause during the measurement year, unless an admission is identified as “planned.”

### *Identification of Planned Admissions*

The measure outcome includes only unplanned admissions. Although clinical experts agree that proper care in the ambulatory setting should reduce hospital admissions, variation in planned admissions (such as for elective surgery) does not typically reflect quality differences. We based the planned admission algorithm on CMS’s Planned Readmission Algorithm Version 3.0, which CMS originally created to identify planned readmissions for the hospital-wide readmission measure. In brief, the algorithm identifies a short list of always planned admissions (i.e., those where the principal discharge diagnosis is major organ transplant, obstetrical delivery, or maintenance chemotherapy; See Appendix Table PA1 and PA2) as well as those admissions with a potentially planned procedure (e.g., total hip replacement or cholecystectomy; See Appendix Table PA3) AND a non-acute principal discharge diagnosis code (See Appendix Table PA4 for acute diagnoses). Admissions that include potentially planned procedures that might represent complications of ambulatory care, such as cardiac catheterization, are not considered planned. To adapt the algorithm for this measures, we removed from the potentially planned procedure list two procedures, cardiac catheterization and amputation, because the need for these procedures might reflect progression of clinical conditions that potentially could have been managed in the ambulatory setting to avoid admissions for these procedures.

### *Outcome Attribution*

The outcome is attributed to the Accountable Care Organization (ACO) to which the beneficiary is assigned in the Shared Savings Program or aligned in the Pioneer ACO Model.

### Stratification or Risk Adjustment

- Stratification: Not applicable. This measure is not stratified.
- Risk Adjustment:

We use a two-level hierarchical negative binomial model to estimate risk-standardized acute, unplanned admissions per 100 person-years at risk for admission. This approach accounts for the clustering of patients within ACOs and variation in sample size.

Our approach to risk adjustment is tailored to and appropriate for a publicly reported outcome measure, as articulated in the American Heart Association (AHA) Scientific Statement, “Standards for Statistical Models Used for Public Reporting of Health Outcomes” [1-2]. The risk-standardization model includes age and 22 clinical variables. We define clinical variables using condition categories (CCs), which are clinically meaningful groupings of ICD-10 diagnosis codes.

### Model Variables

The risk-adjustment variables are:

1. Age
2. High risk cardiovascular (CV) factors (CC 86, 87, 106, 107)
3. Low risk CV factors (CC 88, 89, 98, 108, 109)
4. Arrhythmia (CC 96, 97)
5. Advanced cancer (CC 8, 9, 10, 11, 13)
6. Dementia (CC 51, 52, 53)
7. Heart failure (CC 80)
8. Dialysis (CC 134)
9. Disability/frailty (CC 21, 70, 71, 72, 103, 119, 157, 158, 159, 160, 161, 169, 189, 190)
10. Gastrointestinal and genitourinary disorders (CC 31, 32, 33, 35, 36, 142, 188)
11. Hematologic diseases (CC 46, 48)
12. Infectious and immune disorders (CC 1, 3, 4, 5, 6, 47, 90)
13. Kidney disease (CC 132, 135-140, 141)
14. Liver disease (CC 27, 28, 29, 30)
15. Neurological disease (CC 50, 64, 68, 74, 76, 77, 78, 79, 80, 99, 100, 101, 102, 104, 105, 167)
16. Psychiatric Illness/Substance abuse (CC 54, 55, 56, 57, 58, 59, 60, 61, 62, 63)
17. Pulmonary disease (CC 110, 111, 112, 113, 117, 118)
18. Other advanced organ failure (CC 82, 84)
19. Diabetes severity index (number of complications associated with diabetes based on ICD-10 codes; ranges from zero to seven; adapted from Young et al. [3]) (See Appendix Table 2)
20. Iron deficiency anemia (CC 49)
21. Major organ transplant (CC 186)
22. Other organ transplant (CC 187)

### Citations

1. Krumholz HM, Brindis RG, Brush JE, et al. Standards for Statistical Models Used for Public Reporting of Health Outcomes: An American Heart Association Scientific Statement From the Quality of Care and Outcomes Research Interdisciplinary Writing Group: Cosponsored by the Council on Epidemiology and Prevention and the Stroke Council Endorsed by the American College of Cardiology Foundation. *Circulation*. 2006; 113 (3): 456-462.
2. Normand S-LT, Shahian DM. Statistical and Clinical Aspects of Hospital Outcomes Profiling. *Stat Sci*. 2007; 22 (2): 206-226.
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## Sampling

- This is not based on a sample or survey.

## Calculation Algorithm

The RSAAR for each ACO is calculated as the number of “predicted” to the number of “expected” admissions per 100 person-years, multiplied by the national rate of admissions among all ACO beneficiaries with diabetes – i.e., all eligible ACO beneficiaries with diabetes are used in the measure score calculation, and a score is generated for each ACO.

1. Two-level hierarchical statistical models, accounting for clustering of patients within ACOs and patient level characteristics, are estimated. The measure uses a negative binomial model since our outcome is a count of the number of admissions. The first level of the model adjusts for patient factors. The relationship between patient risk factors and the outcome of admission is determined based on the overall sample of patients within ACOs. The second level of the model estimates a random-intercept term that reflects the ACO’s contribution to admission risk, based on its actual admission rate, the performance of other providers with similar case mix, and its sample size. The ACO-specific random intercept is used in the numerator calculation to derive an ACO-specific number of “predicted” admissions per person-year.
2. The expected number of admissions is calculated based on the ACO’s case mix and national average intercept.
3. The predicted number of admissions is calculated based on the ACO’s case mix and the estimated ACO-specific intercept term.
4. The measure score is the ratio of predicted admissions over the expected admissions multiplied by the crude national admission rate among all ACO patients. The predicted to expected ratio of admissions is analogous to an observed/expected ratio, but the numerator accounts for clustering and sample-size variation.
5. We multiply the ratio for each ACO by a constant, the crude national rate of acute, unplanned admissions per 100 person-years at risk for hospitalization, for ease of interpretation (RSAAR).

Appendix Tables

**Table 1. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Cohort Codes**

ICD-10-CM Code	ICD-10-CM Descriptor
E0836	Diabetes due to underlying condition w diabetic cataract
E0842	Diabetes due to underlying condition w diabetic polyneuropathy
E0936	Drug/chem diabetes mellitus w diabetic cataract
E0942	Drug/chem diabetes w neurological comp w diabetic polyneuropathy
E1010	Type 1 diabetes mellitus with ketoacidosis without coma
E1011	Type 1 diabetes mellitus with ketoacidosis with coma
E1021	Type 1 diabetes mellitus with diabetic nephropathy
E1029	Type 1 diabetes mellitus w oth diabetic kidney complication
E10311	Type 1 diabetes w unsp diabetic retinopathy w macular edema
E10319	Type 1 diabetes w unsp diabetic rtnop w/o macular edema
E1036	Type 1 diabetes mellitus with diabetic cataract
E1039	Type 1 diabetes w oth diabetic ophthalmic complication
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unsp
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy
E1051	Type 1 diabetes w diabetic peripheral angiopath w/o gangrene
E10618	Type 1 diabetes mellitus with other diabetic arthropathy
E10620	Type 1 diabetes mellitus with diabetic dermatitis
E10621	Type 1 diabetes mellitus with foot ulcer
E10622	Type 1 diabetes mellitus with other skin ulcer
E10628	Type 1 diabetes mellitus with other skin complications
E10630	Type 1 diabetes mellitus with periodontal disease
E10638	Type 1 diabetes mellitus with other oral complications
E10641	Type 1 diabetes mellitus with hypoglycemia with coma
E10649	Type 1 diabetes mellitus with hypoglycemia without coma
E1065	Type 1 diabetes mellitus with hyperglycemia
E1069	Type 1 diabetes mellitus with other specified complication
E108	Type 1 diabetes mellitus with unspecified complications
E109	Type 1 diabetes mellitus without complications
E1100	Type 2 diabetes w hyprosm w/o nonket hyprgly-hypros coma
E1100	Type 2 diab w hyprosm w/o nonket hyprgly-hypros coma (NKHHC)
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma
E1121	Type 2 diabetes mellitus with diabetic nephropathy
E1129	Type 2 diabetes mellitus w oth diabetic kidney complication
E11311	Type 2 diabetes w unsp diabetic retinopathy w macular edema
E11319	Type 2 diabetes w unsp diabetic rtnop w/o macular edema
E11319	Type 2 diabetes w unspecified diabetic retinopathy w/o macular edema
E11329	Type 2 diabetic w mild nonproliferative diabetic retinopathy w/o macular edema
E11329	Type 2 diabetes w mild nonproliferative diabetic retinopathy w/o macular edema
E11339	Type 2 diabetes w moderate nonproliferative diabetic retinopathy w/o macular edema
E11349	Type 2 diabetes w severe nonproliferative diabetic retinopathy w/o macular edema
E11359	Type 2 diabetes w proliferative diabetic retinopathy w/o macular edema
E1136	Type 2 diabetes mellitus with diabetic cataract

(continued)

**Table 1. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Cohort Codes (continued)**

ICD-10-CM Code	ICD-10-CM Descriptor
E1139	Type 2 diabetes w oth diabetic ophthalmic complication
E1140	Type 2 diabetes mellitus with diabetic neuropathy, unsp
E1142	Type 2 diabetes mellitus with diabetic polyneuropathy
E1151	Type 2 diabetes w diabetic peripheral angiopath w/o gangrene
E11618	Type 2 diabetes mellitus with other diabetic arthropathy
E11620	Type 2 diabetes mellitus with diabetic dermatitis
E11621	Type 2 diabetes mellitus with foot ulcer
E11622	Type 2 diabetes mellitus with other skin ulcer
E11628	Type 2 diabetes mellitus with other skin complications
E11630	Type 2 diabetes mellitus with periodontal disease
E11638	Type 2 diabetes mellitus with other oral complications
E11641	Type 2 diabetes mellitus with hypoglycemia with coma
E11649	Type 2 diabetes mellitus with hypoglycemia without coma
E1165	Type 2 diabetes mellitus with hyperglycemia
E1169	Type 2 diabetes mellitus with other specified complication
E118	Type 2 diabetes mellitus with unspecified complications
E119	Type 2 diabetes mellitus without complications
E1310	Oth diabetes mellitus with ketoacidosis without coma
E1336	Other specified diabetes mellitus with diabetic cataract
E1342	Other diabetes mellitus with diabetic polyneuropathy

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment**

ICD-10-CM Code	Description
<b>ICD-10-CM Code</b>	<b>Retinopathy</b>
E11311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema
E11319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema
E11321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
E11329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema
E11331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
E11339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
E11341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
E11349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
E11351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema
E11359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema
E1136	Type 2 diabetes mellitus with diabetic cataract
E1139	Type 2 diabetes mellitus with other diabetic ophthalmic complication
E13311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema
E13319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema
E13321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
E13329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema

(continued)



**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
E13331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
E13339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
E13341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
E13349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
E13351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema
E13359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema
E1336	Other specified diabetes mellitus with diabetic cataract
E1339	Other specified diabetes mellitus with other diabetic ophthalmic complication
E10311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema
E10319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema
E10321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
E10329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema
E10331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
E10339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
E10341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
E10349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
E10351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema
E10359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema
E1036	Type 1 diabetes mellitus with diabetic cataract
E1039	Type 1 diabetes mellitus with other diabetic ophthalmic complication
H33001	Unspecified retinal detachment with retinal break, right eye
H33002	Unspecified retinal detachment with retinal break, left eye
H33003	Unspecified retinal detachment with retinal break, bilateral
H33009	Unspecified retinal detachment with retinal break, unspecified eye
H33011	Retinal detachment with single break, right eye
H33012	Retinal detachment with single break, left eye
H33013	Retinal detachment with single break, bilateral
H33019	Retinal detachment with single break, unspecified eye
H33021	Retinal detachment with multiple breaks, right eye
H33022	Retinal detachment with multiple breaks, left eye
H33023	Retinal detachment with multiple breaks, bilateral
H33029	Retinal detachment with multiple breaks, unspecified eye
H33031	Retinal detachment with giant retinal tear, right eye
H33032	Retinal detachment with giant retinal tear, left eye
H33033	Retinal detachment with giant retinal tear, bilateral
H33039	Retinal detachment with giant retinal tear, unspecified eye
H33041	Retinal detachment with retinal dialysis, right eye
H33042	Retinal detachment with retinal dialysis, left eye
H33043	Retinal detachment with retinal dialysis, bilateral
H33049	Retinal detachment with retinal dialysis, unspecified eye

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
H33051	Total retinal detachment, right eye
H33052	Total retinal detachment, left eye
H33053	Total retinal detachment, bilateral
H33059	Total retinal detachment, unspecified eye
H338	Other retinal detachments
H33101	Unspecified retinoschisis, right eye
H33102	Unspecified retinoschisis, left eye
H33103	Unspecified retinoschisis, bilateral
H33109	Unspecified retinoschisis, unspecified eye
H33199	Other retinoschisis and retinal cysts, unspecified eye
H33111	Cyst of ora serrata, right eye
H33112	Cyst of ora serrata, left eye
H33113	Cyst of ora serrata, bilateral
H33119	Cyst of ora serrata, unspecified eye
H33191	Other retinoschisis and retinal cysts, right eye
H33192	Other retinoschisis and retinal cysts, left eye
H33193	Other retinoschisis and retinal cysts, bilateral
H3320	Serous retinal detachment, unspecified eye
H3321	Serous retinal detachment, right eye
H3322	Serous retinal detachment, left eye
H3323	Serous retinal detachment, bilateral
H33301	Unspecified retinal break, right eye
H33302	Unspecified retinal break, left eye
H33303	Unspecified retinal break, bilateral
H33309	Unspecified retinal break, unspecified eye
H33321	Round hole, right eye
H33322	Round hole, left eye
H33323	Round hole, bilateral
H33329	Round hole, unspecified eye
H33311	Horseshoe tear of retina without detachment, right eye
H33312	Horseshoe tear of retina without detachment, left eye
H33313	Horseshoe tear of retina without detachment, bilateral
H33319	Horseshoe tear of retina without detachment, unspecified eye
H33331	Multiple defects of retina without detachment, right eye
H33332	Multiple defects of retina without detachment, left eye
H33333	Multiple defects of retina without detachment, bilateral
H33339	Multiple defects of retina without detachment, unspecified eye
H3340	Traction detachment of retina, unspecified eye
H3341	Traction detachment of retina, right eye
H3342	Traction detachment of retina, left eye
H3343	Traction detachment of retina, bilateral
E08311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
E08319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema
E08331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema
E08339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema
E08341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema
E08349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema
E09311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema
E09319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema
E09331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
E09339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
E09341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
E09349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
E08351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema
E08359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema
E09351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema
E09359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema
H3500	Unspecified background retinopathy
H35031	Hypertensive retinopathy, right eye
H35032	Hypertensive retinopathy, left eye
H35033	Hypertensive retinopathy, bilateral
H35039	Hypertensive retinopathy, unspecified eye
H35021	Exudative retinopathy, right eye
H35022	Exudative retinopathy, left eye
H35023	Exudative retinopathy, bilateral
H35029	Exudative retinopathy, unspecified eye
H35011	Changes in retinal vascular appearance, right eye
H35012	Changes in retinal vascular appearance, left eye
H35013	Changes in retinal vascular appearance, bilateral
H35019	Changes in retinal vascular appearance, unspecified eye
H35041	Retinal micro-aneurysms, unspecified, right eye
H35042	Retinal micro-aneurysms, unspecified, left eye

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
H35043	Retinal micro-aneurysms, unspecified, bilateral
H35049	Retinal micro-aneurysms, unspecified, unspecified eye
H35071	Retinal telangiectasis, right eye
H35072	Retinal telangiectasis, left eye
H35073	Retinal telangiectasis, bilateral
H35079	Retinal telangiectasis, unspecified eye
H35051	Retinal neovascularization, unspecified, right eye
H35052	Retinal neovascularization, unspecified, left eye
H35053	Retinal neovascularization, unspecified, bilateral
H35059	Retinal neovascularization, unspecified, unspecified eye
H3509	Other intraretinal microvascular abnormalities
H35061	Retinal vasculitis, right eye
H35062	Retinal vasculitis, left eye
H35063	Retinal vasculitis, bilateral
H35069	Retinal vasculitis, unspecified eye
H35351	Cystoid macular degeneration, right eye
H35352	Cystoid macular degeneration, left eye
H35353	Cystoid macular degeneration, bilateral
H35359	Cystoid macular degeneration, unspecified eye
H3560	Retinal hemorrhage, unspecified eye
H3561	Retinal hemorrhage, right eye
H3562	Retinal hemorrhage, left eye
H3563	Retinal hemorrhage, bilateral
H3589	Other specified retinal disorders
H3581	Retinal edema
H540	Blindness, both eyes
H5410	Blindness, one eye, low vision other eye, unspecified eyes
H5411	Blindness, right eye, low vision left eye
H5412	Blindness, left eye, low vision right eye
H542	Low vision, both eyes
H543	Unqualified visual loss, both eyes
H548	Legal blindness, as defined in USA
H5440	Blindness, one eye, unspecified eye
H5441	Blindness, right eye, normal vision left eye
H5442	Blindness, left eye, normal vision right eye
H5450	Low vision, one eye, unspecified eye
H5451	Low vision, right eye, normal vision left eye
H5452	Low vision, left eye, normal vision right eye
H5460	Unqualified visual loss, one eye, unspecified
H5461	Unqualified visual loss, right eye, normal vision left eye
H5462	Unqualified visual loss, left eye, normal vision right eye
H547	Unspecified visual loss
H4310	Vitreous hemorrhage, unspecified eye
H4311	Vitreous hemorrhage, right eye
H4312	Vitreous hemorrhage, left eye

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
H4313	Vitreous hemorrhage, bilateral
<b>ICD-10-CM Code</b>	<b>Nephropathy</b>
E1121	Type 2 diabetes mellitus with diabetic nephropathy
E1122	Type 2 diabetes mellitus with diabetic chronic kidney disease
E1129	Type 2 diabetes mellitus with other diabetic kidney complication
E1321	Other specified diabetes mellitus with diabetic nephropathy
E1322	Other specified diabetes mellitus with diabetic chronic kidney disease
E1329	Other specified diabetes mellitus with other diabetic kidney complication
E0821	Diabetes mellitus due to underlying condition with diabetic nephropathy
E0822	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease
E0829	Diabetes mellitus due to underlying condition with other diabetic kidney complication
E0921	Drug or chemical induced diabetes mellitus with diabetic nephropathy
E0922	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease
E0929	Drug or chemical induced diabetes mellitus with other diabetic kidney complication
E1021	Type 1 diabetes mellitus with diabetic nephropathy
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease
E1029	Type 1 diabetes mellitus with other diabetic kidney complication
N000	Acute nephritic syndrome with minor glomerular abnormality
N001	Acute nephritic syndrome with focal and segmental glomerular lesions
N002	Acute nephritic syndrome with diffuse membranous glomerulonephritis
N003	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
N004	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis
N005	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis
N006	Acute nephritic syndrome with dense deposit disease
N007	Acute nephritic syndrome with diffuse crescentic glomerulonephritis
N010	Rapidly progressive nephritic syndrome with minor glomerular abnormality
N011	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions
N012	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis
N013	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
N014	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis
N015	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis
N016	Rapidly progressive nephritic syndrome with dense deposit disease
N017	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis
N018	Rapidly progressive nephritic syndrome with other morphologic changes
N019	Rapidly progressive nephritic syndrome with unspecified morphologic changes
N08	Glomerular disorders in diseases classified elsewhere
N008	Acute nephritic syndrome with other morphologic changes
N009	Acute nephritic syndrome with unspecified morphologic changes
N044	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis
N041	Nephrotic syndrome with focal and segmental glomerular lesions
N042	Nephrotic syndrome with diffuse membranous glomerulonephritis
N043	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis
N045	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis
N046	Nephrotic syndrome with dense deposit disease
N040	Nephrotic syndrome with minor glomerular abnormality

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
N047	Nephrotic syndrome with diffuse crescentic glomerulonephritis
N048	Nephrotic syndrome with other morphologic changes
N049	Nephrotic syndrome with unspecified morphologic changes
N032	Chronic nephritic syndrome with diffuse membranous glomerulonephritis
N031	Chronic nephritic syndrome with focal and segmental glomerular lesions
N033	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
N034	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis
N035	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis
N036	Chronic nephritic syndrome with dense deposit disease
N037	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis
N038	Chronic nephritic syndrome with other morphologic changes
N030	Chronic nephritic syndrome with minor glomerular abnormality
N039	Chronic nephritic syndrome with unspecified morphologic changes
N059	Unspecified nephritic syndrome with unspecified morphologic changes
N052	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis
N053	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
N054	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis
N055	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis
N171	Acute kidney failure with acute cortical necrosis
N172	Acute kidney failure with medullary necrosis
M3214	Glomerular disease in systemic lupus erythematosus
M3215	Tubulo-interstitial nephropathy in systemic lupus erythematosus
M3504	Sicca syndrome with tubulo-interstitial nephropathy
N050	Unspecified nephritic syndrome with minor glomerular abnormality
N051	Unspecified nephritic syndrome with focal and segmental glomerular lesions
N056	Unspecified nephritic syndrome with dense deposit disease
N057	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis
N058	Unspecified nephritic syndrome with other morphologic changes
N181	Chronic kidney disease, stage 1
N182	Chronic kidney disease, stage 2 (mild)
N183	Chronic kidney disease, stage 3 (moderate)
N184	Chronic kidney disease, stage 4 (severe)
N185	Chronic kidney disease, stage 5
N186	End stage renal disease
N189	Chronic kidney disease, unspecified
N19	Unspecified kidney failure
N289	Disorder of kidney and ureter, unspecified
N29	Other disorders of kidney and ureter in diseases classified elsewhere
<b>ICD-10-CM</b>	<b>Neuropathy</b>
E1140	Type 2 diabetes mellitus with diabetic neuropathy, unspecified
E1141	Type 2 diabetes mellitus with diabetic mononeuropathy
E1142	Type 2 diabetes mellitus with diabetic polyneuropathy
E1143	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy
E1144	Type 2 diabetes mellitus with diabetic amyotrophy
E1149	Type 2 diabetes mellitus with other diabetic neurological complication

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
E11610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy
E1340	Other specified diabetes mellitus with diabetic neuropathy, unspecified
E1341	Other specified diabetes mellitus with diabetic mononeuropathy
E1342	Other specified diabetes mellitus with diabetic polyneuropathy
E1343	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy
E1344	Other specified diabetes mellitus with diabetic amyotrophy
E1349	Other specified diabetes mellitus with other diabetic neurological complication
E13610	Other specified diabetes mellitus with diabetic neuropathic arthropathy
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unspecified
E1041	Type 1 diabetes mellitus with diabetic mononeuropathy
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy
E1043	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy
E1044	Type 1 diabetes mellitus with diabetic amyotrophy
E1049	Type 1 diabetes mellitus with other diabetic neurological complication
E10610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy
E1165	Type 2 diabetes mellitus with hyperglycemia
E1065	Type 1 diabetes mellitus with hyperglycemia
G9009	Other idiopathic peripheral autonomic neuropathy
G9001	Carotid sinus syncope
G990	Autonomic neuropathy in diseases classified elsewhere
G5600	Carpal tunnel syndrome, unspecified upper limb
G5601	Carpal tunnel syndrome, right upper limb
G5602	Carpal tunnel syndrome, left upper limb
G5610	Other lesions of median nerve, unspecified upper limb
G5611	Other lesions of median nerve, right upper limb
G5612	Other lesions of median nerve, left upper limb
G5620	Lesion of ulnar nerve, unspecified upper limb
G5621	Lesion of ulnar nerve, right upper limb
G5622	Lesion of ulnar nerve, left upper limb
G5630	Lesion of radial nerve, unspecified upper limb
G5631	Lesion of radial nerve, right upper limb
G5632	Lesion of radial nerve, left upper limb
G5640	Causalgia of unspecified upper limb
G5641	Causalgia of right upper limb
G5642	Causalgia of left upper limb
G587	Mononeuritis multiplex
G5680	Other specified mononeuropathies of unspecified upper limb
G5681	Other specified mononeuropathies of right upper limb
G5682	Other specified mononeuropathies of left upper limb
G580	Intercostal neuropathy
G5690	Unspecified mononeuropathy of unspecified upper limb
G5691	Unspecified mononeuropathy of right upper limb
G5692	Unspecified mononeuropathy of left upper limb
G5700	Lesion of sciatic nerve, unspecified lower limb
G5701	Lesion of sciatic nerve, right lower limb

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
G5702	Lesion of sciatic nerve, left lower limb
G5710	Meralgia paresthetica, unspecified lower limb
G5711	Meralgia paresthetica, right lower limb
G5712	Meralgia paresthetica, left lower limb
G5720	Lesion of femoral nerve, unspecified lower limb
G5721	Lesion of femoral nerve, right lower limb
G5722	Lesion of femoral nerve, left lower limb
G5730	Lesion of lateral popliteal nerve, unspecified lower limb
G5731	Lesion of lateral popliteal nerve, right lower limb
G5732	Lesion of lateral popliteal nerve, left lower limb
G5740	Lesion of medial popliteal nerve, unspecified lower limb
G5741	Lesion of medial popliteal nerve, right lower limb
G5742	Lesion of medial popliteal nerve, left lower limb
G5750	Tarsal tunnel syndrome, unspecified lower limb
G5751	Tarsal tunnel syndrome, right lower limb
G5752	Tarsal tunnel syndrome, left lower limb
G5760	Lesion of plantar nerve, unspecified lower limb
G5761	Lesion of plantar nerve, right lower limb
G5762	Lesion of plantar nerve, left lower limb
G5770	Causalgia of unspecified lower limb
G5771	Causalgia of right lower limb
G5772	Causalgia of left lower limb
G5780	Other specified mononeuropathies of unspecified lower limb
G5781	Other specified mononeuropathies of right lower limb
G5782	Other specified mononeuropathies of left lower limb
G5790	Unspecified mononeuropathy of unspecified lower limb
G5791	Unspecified mononeuropathy of right lower limb
G5792	Unspecified mononeuropathy of left lower limb
E0841	Diabetes mellitus due to underlying condition with diabetic mononeuropathy
E0941	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy
G588	Other specified mononeuropathies
G589	Mononeuropathy, unspecified
G59	Mononeuropathy in diseases classified elsewhere
G609	Hereditary and idiopathic neuropathy, unspecified
E0840	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified
E0842	Diabetes mellitus due to underlying condition with diabetic polyneuropathy
E0940	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified
E0942	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy
G733	Myasthenic syndromes in other diseases classified elsewhere
I951	Orthostatic hypotension
I950	Idiopathic hypotension
I9589	Other hypotension

(continued)



**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I953	Hypotension of hemodialysis
I952	Hypotension due to drugs
I9581	Postprocedural hypotension
I959	Hypotension, unspecified
E0843	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy
E0943	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy
K3184	Gastroparesis
K591	Functional diarrhea
N310	Uninhibited neuropathic bladder, not elsewhere classified
N311	Reflex neuropathic bladder, not elsewhere classified
N319	Neuromuscular dysfunction of bladder, unspecified
A5216	Charcot's arthropathy (tabetic)
E08610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy
E09610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy
M1460	Charcot's joint, unspecified site
M14611	Charcot's joint, right shoulder
M14612	Charcot's joint, left shoulder
M14619	Charcot's joint, unspecified shoulder
M14621	Charcot's joint, right elbow
M14622	Charcot's joint, left elbow
M14629	Charcot's joint, unspecified elbow
M14631	Charcot's joint, right wrist
M14632	Charcot's joint, left wrist
M14639	Charcot's joint, unspecified wrist
M14641	Charcot's joint, right hand
M14642	Charcot's joint, left hand
M14649	Charcot's joint, unspecified hand
M14651	Charcot's joint, right hip
M14652	Charcot's joint, left hip
M14659	Charcot's joint, unspecified hip
M14661	Charcot's joint, right knee
M14662	Charcot's joint, left knee
M14669	Charcot's joint, unspecified knee
M14671	Charcot's joint, right ankle and foot
M14672	Charcot's joint, left ankle and foot
M14679	Charcot's joint, unspecified ankle and foot
M1468	Charcot's joint, vertebrae
M1469	Charcot's joint, multiple sites
S0410XA	Injury of oculomotor nerve, unspecified side, initial encounter
S0411XA	Injury of oculomotor nerve, right side, initial encounter
S0412XA	Injury of oculomotor nerve, left side, initial encounter
S0420XA	Injury of trochlear nerve, unspecified side, initial encounter
S0421XA	Injury of trochlear nerve, right side, initial encounter
S0422XA	Injury of trochlear nerve, left side, initial encounter

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
S0440XA	Injury of abducent nerve, unspecified side, initial encounter
S0441XA	Injury of abducent nerve, right side, initial encounter
S0442XA	Injury of abducent nerve, left side, initial encounter
<b>ICD-10-CM Code</b>	<b>Cerebrovascular</b>
I610	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical
I611	Nontraumatic intracerebral hemorrhage in hemisphere, cortical
I612	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified
I613	Nontraumatic intracerebral hemorrhage in brain stem
I614	Nontraumatic intracerebral hemorrhage in cerebellum
I615	Nontraumatic intracerebral hemorrhage, intraventricular
I616	Nontraumatic intracerebral hemorrhage, multiple localized
I618	Other nontraumatic intracerebral hemorrhage
I619	Nontraumatic intracerebral hemorrhage, unspecified
I651	Occlusion and stenosis of basilar artery
I6302	Cerebral infarction due to thrombosis of basilar artery
I6312	Cerebral infarction due to embolism of basilar artery
I6322	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries
I6521	Occlusion and stenosis of right carotid artery
I6522	Occlusion and stenosis of left carotid artery
I6523	Occlusion and stenosis of bilateral carotid arteries
I6529	Occlusion and stenosis of unspecified carotid artery
I63031	Cerebral infarction due to thrombosis of right carotid artery
I63032	Cerebral infarction due to thrombosis of left carotid artery
I63039	Cerebral infarction due to thrombosis of unspecified carotid artery
I63131	Cerebral infarction due to embolism of right carotid artery
I63132	Cerebral infarction due to embolism of left carotid artery
I63139	Cerebral infarction due to embolism of unspecified carotid artery
I63231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
I63232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
I63239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries
I6501	Occlusion and stenosis of right vertebral artery
I6502	Occlusion and stenosis of left vertebral artery
I6503	Occlusion and stenosis of bilateral vertebral arteries
I6509	Occlusion and stenosis of unspecified vertebral artery
I63011	Cerebral infarction due to thrombosis of right vertebral artery
I63012	Cerebral infarction due to thrombosis of left vertebral artery
I63019	Cerebral infarction due to thrombosis of unspecified vertebral artery
I63111	Cerebral infarction due to embolism of right vertebral artery
I63112	Cerebral infarction due to embolism of left vertebral artery
I63119	Cerebral infarction due to embolism of unspecified vertebral artery
I63211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries
I63212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries
I63219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries
I658	Occlusion and stenosis of other precerebral arteries
I6359	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I6309	Cerebral infarction due to thrombosis of other precerebral artery
I6319	Cerebral infarction due to embolism of other precerebral artery
I659	Occlusion and stenosis of unspecified precerebral artery
I6300	Cerebral infarction due to thrombosis of unspecified precerebral artery
I6310	Cerebral infarction due to embolism of unspecified precerebral artery
I6320	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
I6329	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries
I6601	Occlusion and stenosis of right middle cerebral artery
I6602	Occlusion and stenosis of left middle cerebral artery
I6603	Occlusion and stenosis of bilateral middle cerebral arteries
I6609	Occlusion and stenosis of unspecified middle cerebral artery
I6611	Occlusion and stenosis of right anterior cerebral artery
I6612	Occlusion and stenosis of left anterior cerebral artery
I6613	Occlusion and stenosis of bilateral anterior cerebral arteries
I6619	Occlusion and stenosis of unspecified anterior cerebral artery
I6621	Occlusion and stenosis of right posterior cerebral artery
I6622	Occlusion and stenosis of left posterior cerebral artery
I6623	Occlusion and stenosis of bilateral posterior cerebral arteries
I6629	Occlusion and stenosis of unspecified posterior cerebral artery
I663	Occlusion and stenosis of cerebellar arteries
I6330	Cerebral infarction due to thrombosis of unspecified cerebral artery
I63311	Cerebral infarction due to thrombosis of right middle cerebral artery
I63312	Cerebral infarction due to thrombosis of left middle cerebral artery
I63319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I63321	Cerebral infarction due to thrombosis of right anterior cerebral artery
I63322	Cerebral infarction due to thrombosis of left anterior cerebral artery
I63329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
I63331	Cerebral infarction due to thrombosis of right posterior cerebral artery
I63332	Cerebral infarction due to thrombosis of left posterior cerebral artery
I63339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
I63341	Cerebral infarction due to thrombosis of right cerebellar artery
I63342	Cerebral infarction due to thrombosis of left cerebellar artery
I63349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
I6339	Cerebral infarction due to thrombosis of other cerebral artery
I669	Occlusion and stenosis of unspecified cerebral artery
I6340	Cerebral infarction due to embolism of unspecified cerebral artery
I63411	Cerebral infarction due to embolism of right middle cerebral artery
I63412	Cerebral infarction due to embolism of left middle cerebral artery
I63419	Cerebral infarction due to embolism of unspecified middle cerebral artery
I63421	Cerebral infarction due to embolism of right anterior cerebral artery
I63422	Cerebral infarction due to embolism of left anterior cerebral artery
I63429	Cerebral infarction due to embolism of unspecified anterior cerebral artery
I63431	Cerebral infarction due to embolism of right posterior cerebral artery
I63432	Cerebral infarction due to embolism of left posterior cerebral artery
I63439	Cerebral infarction due to embolism of unspecified posterior cerebral artery

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I63441	Cerebral infarction due to embolism of right cerebellar artery
I63442	Cerebral infarction due to embolism of left cerebellar artery
I63449	Cerebral infarction due to embolism of unspecified cerebellar artery
I6349	Cerebral infarction due to embolism of other cerebral artery
I668	Occlusion and stenosis of other cerebral arteries
I6350	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery
I63511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery
I63512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery
I63519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery
I63521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery
I63522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery
I63529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery
I63531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
I63532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery
I63539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
I63541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery
I63542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
I63549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
I638	Other cerebral infarction
I639	Cerebral infarction, unspecified
G450	Vertebro-basilar artery syndrome
G458	Other transient cerebral ischemic attacks and related syndromes
G451	Carotid artery syndrome (hemispheric)
G452	Multiple and bilateral precerebral artery syndromes
G460	Middle cerebral artery syndrome
G461	Anterior cerebral artery syndrome
G462	Posterior cerebral artery syndrome
G459	Transient cerebral ischemic attack, unspecified
I67841	Reversible cerebrovascular vasoconstriction syndrome
I67848	Other cerebrovascular vasospasm and vasoconstriction
I6789	Other cerebrovascular disease
I6781	Acute Cerebrovascular insufficiency
<b>ICD-10-CM</b>	<b>Cardiovascular</b>
I2109	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
I220	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
I2101	ST elevation (STEMI) myocardial infarction involving left main coronary artery
I2102	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
I2119	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
I221	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
I2111	ST elevation (STEMI) myocardial infarction involving right coronary artery
I2129	ST elevation (STEMI) myocardial infarction involving other sites
I228	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I214	Non-ST elevation (NSTEMI) myocardial infarction
I222	Subsequent non-ST elevation (NSTEMI) myocardial infarction
I2121	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I213	ST elevation (STEMI) myocardial infarction of unspecified site
I229	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
I241	Dressler's syndrome
I200	Unstable angina
I25110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
I25700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
I25710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
I25720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
I25730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris
I25750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
I25760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
I25790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
I240	Acute coronary thrombosis not resulting in myocardial infarction
I248	Other forms of acute ischemic heart disease
I249	Acute ischemic heart disease, unspecified
I252	Old myocardial infarction
I208	Other forms of angina pectoris
I201	Angina pectoris with documented spasm
I209	Angina pectoris, unspecified
I25111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
I25118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
I25119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris
I25701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm
I25708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
I25709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
I25711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
I25718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
I25719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
I25721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
I25728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
I25729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
I25731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
I25738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I25739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris
I25751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
I25758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
I25759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
I25761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
I25768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
I25769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris
I25791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
I25798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
I25799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
I2510	Atherosclerotic heart disease of native coronary artery without angina pectoris
I25810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
I25811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
I25812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
I253	Aneurysm of heart
I2541	Coronary artery aneurysm
I2542	Coronary artery dissection
I2582	Chronic total occlusion of coronary artery
I2583	Coronary atherosclerosis due to lipid rich plaque
I2584	Coronary atherosclerosis due to calcified coronary lesion
I255	Ischemic cardiomyopathy
I256	Silent myocardial ischemia
I2589	Other forms of chronic ischemic heart disease
I259	Chronic ischemic heart disease, unspecified
I470	Re-entry ventricular arrhythmia
I472	Ventricular tachycardia
I480	Paroxysmal atrial fibrillation
I482	Chronic atrial fibrillation
I4891	Unspecified atrial fibrillation
I483	Typical atrial flutter
I484	Atypical atrial flutter
I4892	Unspecified atrial flutter
I4901	Ventricular fibrillation
I4902	Ventricular flutter
I462	Cardiac arrest due to underlying cardiac condition
I468	Cardiac arrest due to other underlying condition
I469	Cardiac arrest, cause unspecified
I5020	Unspecified systolic (congestive) heart failure
I5030	Unspecified diastolic (congestive) heart failure

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
I509	Heart failure, unspecified
I501	Left ventricular failure
I5021	Acute systolic (congestive) heart failure
I5022	Chronic systolic (congestive) heart failure
I5023	Acute on chronic systolic (congestive) heart failure
I5031	Acute diastolic (congestive) heart failure
I5032	Chronic diastolic (congestive) heart failure
I5033	Acute on chronic diastolic (congestive) heart failure
I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
I700	Atherosclerosis of aorta
I701	Atherosclerosis of renal artery
I7100	Dissection of unspecified site of aorta
I7101	Dissection of thoracic aorta
I7102	Dissection of abdominal aorta
I7103	Dissection of thoracoabdominal aorta
I711	Thoracic aortic aneurysm, ruptured
I712	Thoracic aortic aneurysm, without rupture
I713	Abdominal aortic aneurysm, ruptured
I714	Abdominal aortic aneurysm, without rupture
I718	Aortic aneurysm of unspecified site, ruptured
I715	Thoracoabdominal aortic aneurysm, ruptured
I716	Thoracoabdominal aortic aneurysm, without rupture
I719	Aortic aneurysm of unspecified site, without rupture
I790	Aneurysm of aorta in diseases classified elsewhere
<b>ICD-10-CM</b>	<b>Peripheral Vascular Disease</b>
A480	Gas gangrene
I7092	Chronic total occlusion of artery of the extremities
I708	Atherosclerosis of other arteries
I7090	Unspecified atherosclerosis
I7091	Generalized atherosclerosis
I724	Aneurysm of artery of lower extremity
I739	Peripheral vascular disease, unspecified
E0852	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene
E0952	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene
E1052	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E1152	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E1352	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene
I70361	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg
I70362	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg
I70363	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70368	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity
I70369	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity
I70461	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg
I70462	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg
I70463	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs
I70468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity
I70469	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity
I70561	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg
I70562	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg
I70563	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs
I70568	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity
I70569	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity
I70661	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg
I70662	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg
I70663	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs
I70668	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity
I70669	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity
I70761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg
I70762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg
I70763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs
I70768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity
I70769	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity
I7301	Raynaud's syndrome with gangrene
I96	Gangrene, not elsewhere classified
S91321A	Laceration with foreign body, right foot, initial encounter
S91322A	Laceration with foreign body, left foot, initial encounter
S91329A	Laceration with foreign body, unspecified foot, initial encounter
S91341A	Puncture wound with foreign body, right foot, initial encounter
S91342A	Puncture wound with foreign body, left foot, initial encounter
S91349A	Puncture wound with foreign body, unspecified foot, initial encounter
E1051	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E1059	Type 1 diabetes mellitus with other circulatory complications
E1151	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene
I70201	Unspecified atherosclerosis of native arteries of extremities, right leg

(continued)



**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70202	Unspecified atherosclerosis of native arteries of extremities, left leg
I70203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs
I70208	Unspecified atherosclerosis of native arteries of extremities, other extremity
I70209	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity
I70222	Atherosclerosis of native arteries of extremities with rest pain, left leg
I70223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
I70228	Atherosclerosis of native arteries of extremities with rest pain, other extremity
I70229	Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity
I70231	Atherosclerosis of native arteries of right leg with ulceration of thigh
I70232	Atherosclerosis of native arteries of right leg with ulceration of calf
I70233	Atherosclerosis of native arteries of right leg with ulceration of ankle
I70234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot
I70235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot
I70238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg
I70239	Atherosclerosis of native arteries of right leg with ulceration of unspecified site
I70241	Atherosclerosis of native arteries of left leg with ulceration of thigh
I70242	Atherosclerosis of native arteries of left leg with ulceration of calf
I70243	Atherosclerosis of native arteries of left leg with ulceration of ankle
I70244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot
I70245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot
I70248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg
I70249	Atherosclerosis of native arteries of left leg with ulceration of unspecified site
I7025	Atherosclerosis of native arteries of other extremities with ulceration
I70261	Atherosclerosis of native arteries of extremities with gangrene, right leg
I70262	Atherosclerosis of native arteries of extremities with gangrene, left leg
I70263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs
I70268	Atherosclerosis of native arteries of extremities with gangrene, other extremity
I70269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity
I70291	Other atherosclerosis of native arteries of extremities, right leg
I70292	Other atherosclerosis of native arteries of extremities, left leg
I70293	Other atherosclerosis of native arteries of extremities, bilateral legs
I70298	Other atherosclerosis of native arteries of extremities, other extremity
I70299	Other atherosclerosis of native arteries of extremities, unspecified extremity
I7065	Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration
I7035	Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration
I7075	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration
I70301	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
I70302	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
I70303	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
I70308	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
I70309	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
I70391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
I70392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
I70398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
I70399	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
I70601	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg
I70602	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
I70603	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
I70608	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
I70609	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
I70621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg
I70622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg
I70623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs
I70628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity
I70629	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity
I70691	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg
I70692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
I70693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
I70698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
I70699	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
I70701	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg
I70702	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg
I70703	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
I70708	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
I70709	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
I70791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg
I70792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg
I70793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
I70798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
I70799	Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
I70311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg
I70312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg
I70313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity
I70319	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
I70321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg
I70322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs
I70328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity
I70329	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity
I70611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg
I70612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg
I70613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity
I70619	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
I70711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg
I70712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg
I70713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity
I70719	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
I70721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg
I70722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg
I70723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs
I70728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity
I70729	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity
I7045	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration
I70401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
I70402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
I70403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
I70408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
I70409	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity
I70491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
I70492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
I70493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
I70498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
I70499	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
I70412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
I70413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity
I70419	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
I70421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
I70422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
I70423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
I70428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity
I70429	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity
I7055	Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration
I70529	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity
I70501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
I70502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
I70503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
I70508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
I70509	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity
I70591	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
I70592	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
I70593	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
I70598	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
I70599	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity
I70511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
I70512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
I70513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity
I70519	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
I70522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg
I70523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
I70528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity
E0851	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene
E0951	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene
E1351	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene
I798	Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere
I743	Embolism and thrombosis of arteries of the lower extremities
I744	Embolism and thrombosis of arteries of extremities, unspecified
L97901	Non-pressure chronic ulcer of unspecified part of unspecified lower leg limited to breakdown of skin
L97902	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with fat layer exposed
L97903	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with necrosis of muscle
L97904	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with necrosis of bone
L97909	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with unspecified severity
L97911	Non-pressure chronic ulcer of unspecified part of right lower leg limited to breakdown of skin
L97912	Non-pressure chronic ulcer of unspecified part of right lower leg with fat layer exposed
L97913	Non-pressure chronic ulcer of unspecified part of right lower leg with necrosis of muscle
L97914	Non-pressure chronic ulcer of unspecified part of right lower leg with necrosis of bone
L97919	Non-pressure chronic ulcer of unspecified part of right lower leg with unspecified severity
L97921	Non-pressure chronic ulcer of unspecified part of left lower leg limited to breakdown of skin
L97922	Non-pressure chronic ulcer of unspecified part of left lower leg with fat layer exposed
L97923	Non-pressure chronic ulcer of unspecified part of left lower leg with necrosis of muscle
L97924	Non-pressure chronic ulcer of unspecified part of left lower leg with necrosis of bone
L97929	Non-pressure chronic ulcer of unspecified part of left lower leg with unspecified severity
I70331	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh
I70341	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh
I70431	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh
I70441	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh
I70531	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh
I70541	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh
I70631	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh
I70641	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh
I70731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh
I70741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh
L97101	Non-pressure chronic ulcer of unspecified thigh limited to breakdown of skin
L97102	Non-pressure chronic ulcer of unspecified thigh with fat layer exposed
L97103	Non-pressure chronic ulcer of unspecified thigh with necrosis of muscle
L97104	Non-pressure chronic ulcer of unspecified thigh with necrosis of bone

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
L97109	Non-pressure chronic ulcer of unspecified thigh with unspecified severity
L97111	Non-pressure chronic ulcer of right thigh limited to breakdown of skin
L97112	Non-pressure chronic ulcer of right thigh with fat layer exposed
L97113	Non-pressure chronic ulcer of right thigh with necrosis of muscle
L97114	Non-pressure chronic ulcer of right thigh with necrosis of bone
L97119	Non-pressure chronic ulcer of right thigh with unspecified severity
L97121	Non-pressure chronic ulcer of left thigh limited to breakdown of skin
L97122	Non-pressure chronic ulcer of left thigh with fat layer exposed
L97123	Non-pressure chronic ulcer of left thigh with necrosis of muscle
L97124	Non-pressure chronic ulcer of left thigh with necrosis of bone
L97129	Non-pressure chronic ulcer of left thigh with unspecified severity
I70332	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf
I70342	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf
I70432	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf
I70442	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf
I70532	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf
I70542	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf
I70632	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf
I70642	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf
I70732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf
I70742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf
L97201	Non-pressure chronic ulcer of unspecified calf limited to breakdown of skin
L97202	Non-pressure chronic ulcer of unspecified calf with fat layer exposed
L97203	Non-pressure chronic ulcer of unspecified calf with necrosis of muscle
L97204	Non-pressure chronic ulcer of unspecified calf with necrosis of bone
L97209	Non-pressure chronic ulcer of unspecified calf with unspecified severity
L97211	Non-pressure chronic ulcer of right calf limited to breakdown of skin
L97212	Non-pressure chronic ulcer of right calf with fat layer exposed
L97213	Non-pressure chronic ulcer of right calf with necrosis of muscle
L97214	Non-pressure chronic ulcer of right calf with necrosis of bone
L97219	Non-pressure chronic ulcer of right calf with unspecified severity
L97221	Non-pressure chronic ulcer of left calf limited to breakdown of skin
L97222	Non-pressure chronic ulcer of left calf with fat layer exposed
L97223	Non-pressure chronic ulcer of left calf with necrosis of muscle
L97224	Non-pressure chronic ulcer of left calf with necrosis of bone
L97229	Non-pressure chronic ulcer of left calf with unspecified severity
I70333	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle
I70343	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle
I70433	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle
I70443	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle
I70533	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle
I70543	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle
I70633	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle
I70643	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle
I70733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle
L97301	Non-pressure chronic ulcer of unspecified ankle limited to breakdown of skin
L97302	Non-pressure chronic ulcer of unspecified ankle with fat layer exposed
L97303	Non-pressure chronic ulcer of unspecified ankle with necrosis of muscle
L97304	Non-pressure chronic ulcer of unspecified ankle with necrosis of bone
L97309	Non-pressure chronic ulcer of unspecified ankle with unspecified severity
L97311	Non-pressure chronic ulcer of right ankle limited to breakdown of skin
L97312	Non-pressure chronic ulcer of right ankle with fat layer exposed
L97313	Non-pressure chronic ulcer of right ankle with necrosis of muscle
L97314	Non-pressure chronic ulcer of right ankle with necrosis of bone
L97319	Non-pressure chronic ulcer of right ankle with unspecified severity
L97321	Non-pressure chronic ulcer of left ankle limited to breakdown of skin
L97322	Non-pressure chronic ulcer of left ankle with fat layer exposed
L97323	Non-pressure chronic ulcer of left ankle with necrosis of muscle
L97324	Non-pressure chronic ulcer of left ankle with necrosis of bone
L97329	Non-pressure chronic ulcer of left ankle with unspecified severity
I70334	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot
I70344	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot
I70434	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot
I70444	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot
I70534	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot
I70544	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot
I70634	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot
I70644	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot
I70734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot
I70744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot
L97401	Non-pressure chronic ulcer of unspecified heel and midfoot limited to breakdown of skin
L97402	Non-pressure chronic ulcer of unspecified heel and midfoot with fat layer exposed
L97403	Non-pressure chronic ulcer of unspecified heel and midfoot with necrosis of muscle
L97404	Non-pressure chronic ulcer of unspecified heel and midfoot with necrosis of bone
L97409	Non-pressure chronic ulcer of unspecified heel and midfoot with unspecified severity
L97411	Non-pressure chronic ulcer of right heel and midfoot limited to breakdown of skin
L97412	Non-pressure chronic ulcer of right heel and midfoot with fat layer exposed
L97413	Non-pressure chronic ulcer of right heel and midfoot with necrosis of muscle
L97414	Non-pressure chronic ulcer of right heel and midfoot with necrosis of bone
L97419	Non-pressure chronic ulcer of right heel and midfoot with unspecified severity
L97421	Non-pressure chronic ulcer of left heel and midfoot limited to breakdown of skin
L97422	Non-pressure chronic ulcer of left heel and midfoot with fat layer exposed
L97423	Non-pressure chronic ulcer of left heel and midfoot with necrosis of muscle

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
L97424	Non-pressure chronic ulcer of left heel and midfoot with necrosis of bone
L97429	Non-pressure chronic ulcer of left heel and midfoot with unspecified severity
I70335	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot
I70345	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot
I70435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot
I70445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot
I70535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot
I70545	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot
I70635	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot
I70645	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot
I70735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot
I70745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot
L97501	Non-pressure chronic ulcer of other part of unspecified foot limited to breakdown of skin
L97502	Non-pressure chronic ulcer of other part of unspecified foot with fat layer exposed
L97503	Non-pressure chronic ulcer of other part of unspecified foot with necrosis of muscle
L97504	Non-pressure chronic ulcer of other part of unspecified foot with necrosis of bone
L97509	Non-pressure chronic ulcer of other part of unspecified foot with unspecified severity
L97511	Non-pressure chronic ulcer of other part of right foot limited to breakdown of skin
L97512	Non-pressure chronic ulcer of other part of right foot with fat layer exposed
L97513	Non-pressure chronic ulcer of other part of right foot with necrosis of muscle
L97514	Non-pressure chronic ulcer of other part of right foot with necrosis of bone
L97519	Non-pressure chronic ulcer of other part of right foot with unspecified severity
L97521	Non-pressure chronic ulcer of other part of left foot limited to breakdown of skin
L97522	Non-pressure chronic ulcer of other part of left foot with fat layer exposed
L97523	Non-pressure chronic ulcer of other part of left foot with necrosis of muscle
L97524	Non-pressure chronic ulcer of other part of left foot with necrosis of bone
L97529	Non-pressure chronic ulcer of other part of left foot with unspecified severity
I70338	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg
I70339	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site
I70348	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg
I70349	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site
I70438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg

(continued)



**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
I70439	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site
I70448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg
I70449	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site
I70538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg
I70539	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site
I70548	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg
I70549	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site
I70638	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg
I70639	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site
I70648	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg
I70649	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site
I70738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg
I70739	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site
I70748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg
I70749	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site
L97801	Non-pressure chronic ulcer of other part of unspecified lower leg limited to breakdown of skin
L97802	Non-pressure chronic ulcer of other part of unspecified lower leg with fat layer exposed
L97803	Non-pressure chronic ulcer of other part of unspecified lower leg with necrosis of muscle
L97804	Non-pressure chronic ulcer of other part of unspecified lower leg with necrosis of bone
L97809	Non-pressure chronic ulcer of other part of unspecified lower leg with unspecified severity
L97811	Non-pressure chronic ulcer of other part of right lower leg limited to breakdown of skin
L97812	Non-pressure chronic ulcer of other part of right lower leg with fat layer exposed
L97813	Non-pressure chronic ulcer of other part of right lower leg with necrosis of muscle
L97814	Non-pressure chronic ulcer of other part of right lower leg with necrosis of bone
L97819	Non-pressure chronic ulcer of other part of right lower leg with unspecified severity
L97821	Non-pressure chronic ulcer of other part of left lower leg limited to breakdown of skin
L97822	Non-pressure chronic ulcer of other part of left lower leg with fat layer exposed
L97823	Non-pressure chronic ulcer of other part of left lower leg with necrosis of muscle
L97824	Non-pressure chronic ulcer of other part of left lower leg with necrosis of bone
L97829	Non-pressure chronic ulcer of other part of left lower leg with unspecified severity
<b>ICD-10-CM Code</b>	<b>Metabolic</b>
E1010	Type 1 diabetes mellitus with ketoacidosis without coma
E1169	Type 2 diabetes mellitus with other specified complication
E1310	Other specified diabetes mellitus with ketoacidosis without coma

(continued)

**Table 2. Risk-Standardized Acute Admission Rates for Patients with Diabetes: Risk Adjustment (continued)**

ICD-10-CM Code	Description
E1069	Type 1 diabetes mellitus with other specified complication
E1100	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)
E1011	Type 1 diabetes mellitus with ketoacidosis with coma
E10641	Type 1 diabetes mellitus with hypoglycemia with coma
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma

**Table PA1: Procedure Categories That Are Always Planned in the Planned Admission Algorithm Version 3.0**

Procedure CCS (ICD-10)	Description
64	Bone marrow transplant
105	Kidney transplant
176	Other organ transplantation (other than bone marrow corneal or kidney)

**Table PA2: Diagnosis Categories That Are Always Planned in the Planned Admission Algorithm Version 3.0**

Diagnosis CCS (ICD-10)	Description
45	Maintenance Chemotherapy
254	Rehabilitation

### Potentially Planned Procedures

The ICD-10 specification of the planned admission algorithm version 3.0 – includes procedure CCS 169 (Debridement of wound; infection or burn). The ICD-10 version no longer includes procedure CCS 169. The codes in that category were moved to the following procedure CCS categories: CCS 170 (Excision of skin), CCS 174 (Other non-OR therapeutic procedures on skin and breast), CCS 175 (Other OR therapeutic procedures on skin and breast), and CCS 231 (Other therapeutic procedures). Procedure CCS 170 is in version 3.0; however, upon reviewing the codes in that category, it appears that they are for skin excision procedures that would not require an inpatient hospitalization. While these would not show up as admissions in the measure, we have removed procedure CCS 170 in the ICD-10 version of the algorithm to improve the face validity of the algorithm.

We reviewed the codes in the ICD-10 version of procedure CCS 174, CCS 175, and CCS 231 and determined that it would be appropriate to add CCS 175 to the ICD-10 version of the planned admission algorithm. However, we did not feel that procedure CCS 174 or CCS 231 were appropriate additions to the planned admission algorithm because they contained too many minor procedures that do not require admission to the hospital. The few major surgical procedures in both categories rarely occur in isolation so we felt that it is likely that planned admissions that include those procedures would already be captured by accompanying procedures in other CCS categories in the planned admission algorithm. The one exception is gender reconstruction surgery, which we may consider in future iterations of the planned admission algorithm if we determine that there are enough admissions in the Medicare population to split these codes out from procedure CCS 231.

**Table PA3: CCS and ICD-10 Codes for the Potentially Planned Procedure Categories**

ICD-10 Procedure CCS	Description
3	Excision, destruction or resection of intervertebral disc
5	Insertion of catheter or spinal stimulator and injection into spinal
9	Other OR therapeutic nervous system procedures
10	Thyroidectomy; partial or complete
12	Therapeutic endocrine procedures
33	Other OR therapeutic procedures of mouth and throat
36	Lobectomy or pneumonectomy
38	Other diagnostic procedures on lung and bronchus
40	Other diagnostic procedures of respiratory tract and mediastinum
43	Heart valve procedures
44	Coronary artery bypass graft (CABG)
45	Percutaneous transluminal coronary angioplasty (PTCA) with or without stent
47	Diagnostic cardiac catheterization; coronary arteriography
48	Insertion; revision; replacement; removal of cardiac pacemaker or cardioverter/defibrillator
49	Other OR heart procedures
51	Endarterectomy; vessel of head and neck
52	Aortic resection; replacement or anastomosis
53	Varicose vein stripping; lower limb
55	Peripheral vascular bypass
56	Other vascular bypass and shunt; not heart
59	Other OR procedures on vessels of head and neck
62	Other diagnostic cardiovascular procedures
66	Procedures on spleen
67	Other therapeutic procedures; hemic and lymphatic system
74	Gastrectomy; partial and total
78	Colorectal resection
79	Excision of large intestine lesion (not endoscopic)
84	Cholecystectomy and common duct exploration
85	Inguinal and femoral hernia repair
86	Other hernia repair
99	Other OR gastrointestinal therapeutic procedures
104	Nephrectomy; partial or complete
106	Genitourinary incontinence procedures
107	Extracorporeal lithotripsy; urinary
109	Procedures on the urethra
112	Other OR therapeutic procedures of urinary tract
113	Transurethral resection of prostate (TURP)

(continued)

**Table PA3: CCS and ICD-10 Codes for the Potentially Planned Procedure Categories (continued)**

ICD-10 Procedure CCS	Description
114	Open prostatectomy
119	Oophorectomy; unilateral and bilateral
120	Other operations on ovary
124	Hysterectomy; abdominal and vaginal
129	Repair of cystocele and rectocele; obliteration of vaginal vault
132	Other OR therapeutic procedures; female organs
142	Partial excision bone
152	Arthroplasty knee
153	Hip replacement; total and partial
154	Arthroplasty other than hip or knee
157	Amputation of lower extremity
158	Spinal fusion
159	Other diagnostic procedures on musculoskeletal system
166	Lumpectomy; quadrantectomy of breast
167	Mastectomy
172	Skin graft
175	Other OR therapeutic procedures on skin subcutaneous tissue fascia and breast
ICD-10 Procedures	Description
0CBS0ZZ	Excision of Larynx, Open Approach
0CBS3ZZ	Excision of Larynx, Percutaneous Approach
0CBS4ZZ	Excision of Larynx, Percutaneous Endoscopic Approach
0CBS7ZZ	Excision of Larynx, Via Natural or Artificial Opening
0CBS8ZZ	Excision of Larynx, Via Natural or Artificial Opening Endoscopic
0CBS0ZZ	Excision of Larynx, Open Approach
0CBS3ZZ	Excision of Larynx, Percutaneous Approach
0CBS4ZZ	Excision of Larynx, Percutaneous Endoscopic Approach
0CBS7ZZ	Excision of Larynx, Via Natural or Artificial Opening
0CBS8ZZ	Excision of Larynx, Via Natural or Artificial Opening Endoscopic
0B110F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Open Approach
0B110Z4	Bypass Trachea to Cutaneous, Open Approach
0B113F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Approach
0B113Z4	Bypass Trachea to Cutaneous, Percutaneous Approach
0B114F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Endoscopic Approach
0B114Z4	Bypass Trachea to Cutaneous, Percutaneous Endoscopic Approach
0CTS0ZZ	Resection of Larynx, Open Approach
0CTS4ZZ	Resection of Larynx, Percutaneous Endoscopic Approach
0CTS7ZZ	Resection of Larynx, Via Natural or Artificial Opening
0CTS8ZZ	Resection of Larynx, Via Natural or Artificial Opening Endoscopic
0B110F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Open Approach
0B110Z4	Bypass Trachea to Cutaneous, Open Approach
0B113F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Approach
0B113Z4	Bypass Trachea to Cutaneous, Percutaneous Approach
0B114F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Endoscopic Approach

(continued)

**Table PA3: CCS and ICD-10 Codes for the Potentially Planned Procedure Categories (continued)**

ICD-10 Procedure CCS	Description
0B114Z4	Bypass Trachea to Cutaneous, Percutaneous Endoscopic Approach
0CTS0ZZ	Resection of Larynx, Open Approach
0CTS4ZZ	Resection of Larynx, Percutaneous Endoscopic Approach
0CTS7ZZ	Resection of Larynx, Via Natural or Artificial Opening
0CTS8ZZ	Resection of Larynx, Via Natural or Artificial Opening Endoscopic
0GTG0ZZ	Resection of Left Thyroid Gland Lobe, Open Approach
0GTG4ZZ	Resection of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach
0GTH0ZZ	Resection of Right Thyroid Gland Lobe, Open Approach
0GTH4ZZ	Resection of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach
0GTK0ZZ	Resection of Thyroid Gland, Open Approach
0GTK4ZZ	Resection of Thyroid Gland, Percutaneous Endoscopic Approach
0WB60ZZ	Excision of Neck, Open Approach
0WB63ZZ	Excision of Neck, Percutaneous Approach
0WB64ZZ	Excision of Neck, Percutaneous Endoscopic Approach
0WB6XZZ	Excision of Neck, External Approach
0BW10FZ	Revision of Tracheostomy Device in Trachea, Open Approach
0BW13FZ	Revision of Tracheostomy Device in Trachea, Percutaneous Approach
0BW14FZ	Revision of Tracheostomy Device in Trachea, Percutaneous Endoscopic Approach
0WB6XZ2	Excision of Neck, Stoma, External Approach
0WQ6XZ2	Repair Neck, Stoma, External Approach
0B5N0ZZ	Destruction of Right Pleura, Open Approach
0B5N3ZZ	Destruction of Right Pleura, Percutaneous Approach
0B5N4ZZ	Destruction of Right Pleura, Percutaneous Endoscopic Approach
0B5P0ZZ	Destruction of Left Pleura, Open Approach
0B5P3ZZ	Destruction of Left Pleura, Percutaneous Approach
0B5P4ZZ	Destruction of Left Pleura, Percutaneous Endoscopic Approach
04CK0ZZ	Extirpation of Matter from Right Femoral Artery, Open Approach
04CK3ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Approach
04CK4ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach
04CL0ZZ	Extirpation of Matter from Left Femoral Artery, Open Approach
04CL3ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Approach
04CL4ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach
04CM0ZZ	Extirpation of Matter from Right Popliteal Artery, Open Approach
04CM3ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach
04CM4ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach
04CN0ZZ	Extirpation of Matter from Left Popliteal Artery, Open Approach
04CN3ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach
04CN4ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Endoscopic Approach
04CP0ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Open Approach
04CP3ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Approach
04CP4ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Endoscopic Approach
04CQ0ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Open Approach
04CQ3ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Approach
04CQ4ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Endoscopic Approach

(continued)

**Table PA3: CCS and ICD-10 Codes for the Potentially Planned Procedure Categories (continued)**

ICD-10 Procedure CCS	Description
04CR0ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Open Approach
04CR3ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Approach
04CR4ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Endoscopic Approach
04CS0ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Open Approach
04CS3ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Approach
04CS4ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Endoscopic Approach
04CT0ZZ	Extirpation of Matter from Right Peroneal Artery, Open Approach
04CT3ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Approach
04CT4ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Endoscopic Approach
04CU0ZZ	Extirpation of Matter from Left Peroneal Artery, Open Approach
04CU3ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Approach
04CU4ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Endoscopic Approach
04CV0ZZ	Extirpation of Matter from Right Foot Artery, Open Approach
04CV3ZZ	Extirpation of Matter from Right Foot Artery, Percutaneous Approach
04CV4ZZ	Extirpation of Matter from Right Foot Artery, Percutaneous Endoscopic Approach
04CW0ZZ	Extirpation of Matter from Left Foot Artery, Open Approach
04CW3ZZ	Extirpation of Matter from Left Foot Artery, Percutaneous Approach
04CW4ZZ	Extirpation of Matter from Left Foot Artery, Percutaneous Endoscopic Approach
04CY0ZZ	Extirpation of Matter from Lower Artery, Open Approach
04CY3ZZ	Extirpation of Matter from Lower Artery, Percutaneous Approach
04CY4ZZ	Extirpation of Matter from Lower Artery, Percutaneous Endoscopic Approach
0T9030Z	Drainage of Right Kidney with Drainage Device, Percutaneous Approach
0T9040Z	Drainage of Right Kidney with Drainage Device, Percutaneous Endoscopic Approach
0T9130Z	Drainage of Left Kidney with Drainage Device, Percutaneous Approach
0T9140Z	Drainage of Left Kidney with Drainage Device, Percutaneous Endoscopic Approach
0TC03ZZ	Extirpation of Matter from Right Kidney, Percutaneous Approach
0TC04ZZ	Extirpation of Matter from Right Kidney, Percutaneous Endoscopic Approach
0TC13ZZ	Extirpation of Matter from Left Kidney, Percutaneous Approach
0TC14ZZ	Extirpation of Matter from Left Kidney, Percutaneous Endoscopic Approach
0TC33ZZ	Extirpation of Matter from R Kidney Pelvis, Perc Approach
0TC34ZZ	Extirpate of Matter from R Kidney Pelvis, Perc Endo Approach
0TC43ZZ	Extirpation of Matter from Left Kidney Pelvis, Perc Approach
0TC44ZZ	Extirpate of Matter from L Kidney Pelvis, Perc Endo Approach
0TF33ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Approach
0TF34ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Endoscopic Approach
0TF43ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Approach
0TF44ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Endoscopic Approach
GZB4ZZZ	Other Electroconvulsive Therapy
GZB0ZZZ	Electroconvulsive Therapy, Unilateral-Single Seizure
GZB1ZZZ	Electroconvulsive Therapy, Unilateral-Multiple Seizure
GZB2ZZZ	Electroconvulsive Therapy, Bilateral-Single Seizure
GZB3ZZZ	Electroconvulsive Therapy, Bilateral-Multiple Seizure
GZB4ZZZ	Other Electroconvulsive Therapy

**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0**

ICD-10 Diagnosis CCS	Description
1	Tuberculosis
2	Septicemia (except in labor)
3	Bacterial infection; unspecified site
4	Mycoses
5	HIV infection
7	Viral infection
8	Other infections; including parasitic
9	Sexually transmitted infections (not HIV or hepatitis)
54	Gout and other crystal arthropathies
55	Fluid and electrolyte disorders
60	Acute posthemorrhagic anemia
61	Sickle cell anemia
63	Diseases of white blood cells
76	Meningitis (except that caused by tuberculosis or sexually transmitted disease)
77	Encephalitis (except that caused by tuberculosis or sexually transmitted disease)
78	Other CNS infection and poliomyelitis
82	Paralysis
83	Epilepsy; convulsions
84	Headache; including migraine
85	Coma; stupor; and brain damage
87	Retinal detachments; defects; vascular occlusion; and retinopathy
89	Blindness and vision defects
90	Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitted disease)
91	Other eye disorders
92	Otitis media and related conditions
93	Conditions associated with dizziness or vertigo
99	Hypertension with complications and secondary hypertension
100	Acute myocardial infarction
102	Nonspecific chest pain

(continued)

**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0 (continued)**

ICD-10 Diagnosis CCS	Description
104	Other and ill-defined heart disease
107	Cardiac arrest and ventricular fibrillation
109	Acute cerebrovascular disease
112	Transient cerebral ischemia
116	Aortic and peripheral arterial embolism or thrombosis
118	Phlebitis; thrombophlebitis and thromboembolism
120	Hemorrhoids
122	Pneumonia (except that caused by TB or sexually transmitted disease)
123	Influenza
124	Acute and chronic tonsillitis
125	Acute bronchitis
126	Other upper respiratory infections
127	Chronic obstructive pulmonary disease and bronchiectasis
128	Asthma
129	Aspiration pneumonitis; food/vomitus
130	Pleurisy; pneumothorax; pulmonary collapse
131	Respiratory failure; insufficiency; arrest (adult)
135	Intestinal infection
137	Diseases of mouth; excluding dental
139	Gastroduodenal ulcer (except hemorrhage)
140	Gastritis and duodenitis
142	Appendicitis and other appendiceal conditions
145	Intestinal obstruction without hernia
146	Diverticulosis and diverticulitis
148	Peritonitis and intestinal abscess
153	Gastrointestinal hemorrhage
154	Noninfectious gastroenteritis
157	Acute and unspecified renal failure
159	Urinary tract infections
165	Inflammatory conditions of male genital organs
168	Inflammatory diseases of female pelvic organs
172	Ovarian cyst
197	Skin and subcutaneous tissue infections
198	Other inflammatory condition of skin
225	Joint disorders / dislocations; trauma-related
226	Fracture of neck of femur (hip)
227	Spinal cord injury
228	Skull and face fractures
229	Fracture of upper limb
230	Fracture of lower limb
232	Sprains and strains
233	Intracranial injury

(continued)



**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0 (continued)**

ICD-10 Diagnosis CCS	Description
234	Crushing injury or internal injury
235	Open wounds of head; neck; and trunk
237	Complication of device; implant or graft
238	Complications of surgical procedures or medical care
239	Superficial injury; contusion
240	Burns
241	Poisoning by psychotropic agents
242	Poisoning by other medications and drugs
243	Poisoning by nonmedicinal substances
244	Other injuries and conditions due to external causes
245	Syncope
246	Fever of unknown origin
247	Lymphadenitis
249	Shock
250	Nausea and vomiting
251	Abdominal pain
252	Malaise and fatigue
253	Allergic reactions
259	Residual codes; unclassified
650	Adjustment disorders
651	Anxiety disorders
652	Attention-deficit
653	Delirium
656	Impulse control disorders
658	Personality disorders
660	Alcohol-related disorders
661	Substance-related disorders
662	Suicide and intentional self-inflicted injury
663	Screening and history of mental health and substance abuse codes
670	Miscellaneous disorders
<b>Acute ICD-10 Codes Within Dx CCS 97: Peri-; Endo-; and Myocarditis; Cardiomyopathy</b>	
A3681	Diphtheritic cardiomyopathy
A3950	Meningococcal carditis, unspecified
A3953	Meningococcal pericarditis
A3951	Meningococcal endocarditis
A3952	Meningococcal myocarditis
B3320	Viral carditis, unspecified
B3323	Viral pericarditis
B3321	Viral endocarditis
B3322	Viral myocarditis
B376	Candidal endocarditis
B394	Histoplasmosis capsulati, unspecified
I32	Pericarditis in diseases classified elsewhere

(continued)

**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0 (continued)**

ICD-10-CM Codes	Description
B394 I39	Histoplasmosis capsulati, unspecified Endocarditis and heart valve disorders in diseases classified elsewhere
B395 I32	Histoplasmosis duboisii Pericarditis in diseases classified elsewhere
B395 I39	Histoplasmosis duboisii Endocarditis and heart valve disorders in diseases classified elsewhere
B399 I32	Histoplasmosis, unspecified Pericarditis in diseases classified elsewhere
I39 B399	Endocarditis and heart valve disorders in diseases classified elsewhere Histoplasmosis, unspecified
B5881	Toxoplasma myocarditis
I010	Acute rheumatic pericarditis
I011	Acute rheumatic endocarditis
I012	Acute rheumatic myocarditis
I018	Other acute rheumatic heart disease
I019	Acute rheumatic heart disease, unspecified
I020	Rheumatic chorea with heart involvement
I090	Rheumatic myocarditis
I099	Rheumatic heart disease, unspecified
I0989	Other specified rheumatic heart diseases
I32	Pericarditis in diseases classified elsewhere
M3212	Pericarditis in systemic lupus erythematosus
I301	Infective pericarditis
I309	Acute pericarditis, unspecified
I300	Acute nonspecific idiopathic pericarditis
I308	Other forms of acute pericarditis
I330	Acute and subacute infective endocarditis
I39	Endocarditis and heart valve disorders in diseases classified elsewhere
I339	Acute and subacute endocarditis, unspecified
I41	Myocarditis in diseases classified elsewhere
I409	Acute myocarditis, unspecified
I401	Isolated myocarditis
I400	Infective myocarditis
I408	Other acute myocarditis
I312	Hemopericardium, not elsewhere classified
I310	Chronic adhesive pericarditis
I311	Chronic constrictive pericarditis
I314	Cardiac tamponade
I514	Myocarditis, unspecified
<b>Acute ICD-10 Codes Within Dx CCS 105: Conduction Disorders</b>	
I442	Atrioventricular block, complete
I4430	Unspecified atrioventricular block

(continued)

**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0 (continued)**

ICD-10-CM Codes	Description
I440	Atrioventricular block, first degree
I441	Atrioventricular block, second degree
I4469	Other fascicular block
I444	Left anterior fascicular block
I445	Left posterior fascicular block
I4460	Unspecified fascicular block
I447	Left bundle-branch block, unspecified
I450	Right fascicular block
I4510	Unspecified right bundle-branch block
I4519	Other right bundle-branch block
I4430	Unspecified atrioventricular block
I4439	Other atrioventricular block
I454	Nonspecific intraventricular block
I452	Bifascicular block
I453	Trifascicular block
I455	Other specified heart block
I456	Pre-excitation syndrome
I4581	Long QT syndrome
I459	Conduction disorder, unspecified
<b>Acute ICD-10 Codes Within Dx CCS 106: Dysrhythmia</b>	
I479	Paroxysmal tachycardia, unspecified
R000	Tachycardia, unspecified
I498	Other specified cardiac arrhythmias
R001	Bradycardia, unspecified
I499	Cardiac arrhythmia, unspecified
I493	Ventricular premature depolarization
I4949	Other premature depolarization
<b>Acute ICD-10 Codes Within Dx CCS 108: Congestive Heart Failure; Nonhypertensive</b>	
I0981	Rheumatic heart failure
I509	Heart failure, unspecified
I5022	Chronic systolic (congestive) heart failure
I5032	Chronic diastolic (congestive) heart failure
I5042	Chronic combined systolic/diastolic hrt failure
I501	Left ventricular failure
I5020	Unspecified systolic (congestive) heart failure
I5021	Acute systolic (congestive) heart failure
I5023	Acute on chronic systolic (congestive) heart failure
I5030	Unspecified diastolic (congestive) heart failure
I5031	Acute diastolic (congestive) heart failure
I5033	Acute on chronic diastolic (congestive) heart failure
I5040	Unsp combined systolic and diastolic (congestive) hrt fail
I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure

(continued)

**Table PA4: Acute Diagnosis Categories: ICD-10 Specification of the Planned Admission Algorithm Version 3.0 (continued)**

ICD-10-CM Codes	Description
<b>Acute ICD-10 Codes Within Dx CCS 149: Biliary Tract Disease</b>	
K8000	Calculus of gallbladder w acute cholecyst w/o obstruction
K8012	Calculus of GB w acute and chronic cholecyst w/o obstruction
K8001	Calculus of gallbladder w acute cholecystitis w obstruction
K8013	Calculus of GB w acute and chronic cholecyst w obstruction
<b>ICD-10-CM Codes</b>	
<b>Description</b>	
K8042	Calculus of bile duct w acute cholecystitis w/o obstruction
K8046	Calculus of bile duct w acute and chronic cholecyst w/o obst
K8043	Calculus of bile duct w acute cholecystitis with obstruction
K8047	Calculus of bile duct w acute and chronic cholecyst w obst
K8062	Calculus of GB and bile duct w acute cholecyst w/o obst
K8063	Calculus of GB and bile duct w acute cholecyst w obstruction
K8066	Calculus of GB and bile duct w ac and chr cholecyst w/o obst
K8067	Calculus of GB and bile duct w ac and chr cholecyst w obst
K810	Acute cholecystitis
K812	Acute cholecystitis with chronic cholecystitis
K8030	Calculus of bile duct w cholangitis, unsp, w/o obstruction
K8031	Calculus of bile duct w cholangitis, unsp, with obstruction
K8032	Calculus of bile duct with acute cholangitis w/o obstruction
K8033	Calculus of bile duct w acute cholangitis with obstruction
K8034	Calculus of bile duct w chronic cholangitis w/o obstruction
K8035	Calculus of bile duct w chronic cholangitis with obstruction
K8036	Calculus of bile duct w acute and chr cholangitis w/o obst
K8037	Calculus of bile duct w acute and chronic cholangitis w obst
K830	Cholangitis
<b>Acute ICD-10 Codes Within Dx CCS 152: Pancreatic Disorders</b>	
K859	Acute pancreatitis, unspecified
B252	Cytomegaloviral pancreatitis
K850	Idiopathic acute pancreatitis
K851	Biliary acute pancreatitis
K852	Alcohol induced acute pancreatitis
K853	Drug induced acute pancreatitis
K858	Other acute pancreatitis