

Supplemental online content for:

## High-Cost Patients and Preventable Spending: A Population-Based Study

Claire de Oliveira, PhD; Joyce Cheng, MSc; Kelvin Chan, MD, PhD, FRCPC; Craig C. Earle, MD, MSc, FRCPC; Murray Krahn, MD, MSc, FRCPC; and Nicole Mittmann, PhD

*J Natl Compr Canc Netw* 2020;18(1):23–31

**eTable 1:** Summary of Administrative Healthcare Databases

**eTable 2:** ICD-O Codes by Cancer Site

**eAppendix 1:** Agency for Healthcare Research and Quality Prevention Quality Indicators and Common Nonpreventable Clinical Diagnostic Groups

**eTable 1. Summary of Administrative Healthcare Databases**

Database	Setting	Description
Discharge Abstract Database (DAD)	Acute inpatient hospitalizations	A national database that contains demographic and clinical data on inpatient hospital admissions.
Ontario Mental Health Reporting System (OMHRS)	Psychiatric inpatient hospitalizations	Collects demographic and clinical information on individuals admitted to designated adult psychiatric beds in Ontario. Some patients with mental health issues are still in inpatient acute beds (ie, the DAD).
Continuing Care Reporting System (CCRS)	Complex continuing care, long-term care	Contains demographic and clinical information on individuals receiving facility-based continuing care. Services include medical long-term care, rehabilitation, geriatric assessment, respite palliative care, and nursing home care.
National Rehabilitation Reporting System (NRS)	Rehabilitation	Contains national data on rehabilitation facilities and clients, collected from participating adult inpatient rehabilitation facilities and programs.
National Ambulatory Care Reporting System (NACRS)	Emergency department visits, day surgery, and outpatient clinics	Contains data for all ambulatory care including emergency department visits, day surgery, and outpatient clinic visits (eg, chemotherapy and dialysis).
Ontario Health Insurance Plan (OHIP) claims database	Outpatient and physician services	Covers all services and procedures provided by healthcare providers who can claim under OHIP (eg, physician and laboratory/diagnostic services).
Ontario Drug Benefit (ODB) program database	Outpatient prescription drugs	Includes data on all drugs dispensed in community pharmacies and long-term care/nursing facilities. Also covers prescription drugs listed in the provincial formulary for all seniors (aged $\geq 65$ years) and those aged $< 65$ years on social assistance.
Home Care Database (HCD)	Home care	Provides data on government-funded services coordinated by Ontario's Community Care Access Centres for individuals requiring home care.

<b>eTable 2. ICD-O Codes by Cancer Site</b>	
<b>Cancer</b>	<b>ICD-O Codes</b>
Head and neck	C00*–C06* C09*–C14* C30*–C33*
Esophageal	C15*
Gastric	C16*
Colorectal	C18.0, C18.2–C18.9 C19.9 C20.9
Liver	C22.0
Pancreatic	C25*
Lung	C34*
Leukemia	C42.0, C42.1, C42.4
Melanoma	C44*
Female breast	C50* (female)
Cervical	C53*
Uterine corpus	C54* C55.9
Ovarian	C56.9
Prostate	C61.9
Testicular	C62*
Kidney	C64.9 C65.9
Bladder	C67*
Brain	C71*
Thyroid	C73.9
Lymphoma	C77*
Multiple myeloma	Not applicable; histology codes 9731, 9732, and 9734 were used to ascertain cancer site
Other tumor sites	C07*–C08* C17* C18.1 C21* C22.1 C23.9 C24* C26* C37.9 C38*–C41* C42.2, C42.3 C47*–C49* C50* (male) C51* C52.9 C57* C58.9 C60* C63* C66* C68*–C70* C72* C74*–C75* C76* C80.9

## eAppendix 1. Agency for Healthcare Research and Quality Prevention Quality Indicators and Common Nonpreventable Clinical Diagnostic Groups

### Prevention Quality Indicators (PQIs) and ICD-10 Codes Used to Indicate Diagnosis

#### PQI 01: Diabetes Short-Term Complications

##### **Diabetes Short-Term Complications Diagnosis Codes: (ACDIASD)**

E1010 Type 1 diabetes mellitus with ketoacidosis without coma

E1011 Type 1 diabetes mellitus with ketoacidosis with coma

E10641 Type 1 diabetes mellitus with hypoglycemia with coma

E1100 Type 2 diabetes mellitus with hyperosmolarity without nonketotichyperglycemic-hyperosmolar coma (NKHHC)

E1101 Type 2 diabetes mellitus with hyperosmolarity with coma

E11641 Type 2 diabetes mellitus with hypoglycemia with coma

#### PQI 02: Perforated Appendix

##### **Perforations or Abscesses of Appendix Diagnosis Codes: (ACSAPPD)**

K352 Acute appendicitis with generalized peritonitis

K353 Acute appendicitis with localized peritonitis

#### PQI 03: Diabetes Long-Term Complications

##### **Diabetes With Long-Term Complications Diagnosis Codes: (ACDIALD)**

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

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

E103211 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye

E103212 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye

E103213 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral

E103219 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye

E10329 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema

E103291 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye

E103292 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye

E103293 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral

E103299 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye

E10331 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema

E103311 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye

E103312 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye

E103313 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral

E103319 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye

E10339 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema

E103391 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye

(continued on next page)

E103392 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye  
E103393 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral  
E103399 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E10341 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema  
E103411 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye  
E103412 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye  
E103413 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral  
E103419 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E10349 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema  
E103491 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye  
E103492 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye  
E103493 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral  
E103499 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E10351 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema  
E103511 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye  
E103512 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye  
E103513 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral  
E103519 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye  
E103521 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye  
E103522 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye  
E103523 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral  
E103529 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye  
E103531 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye  
E103532 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye  
E103533 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral  
E103539 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye  
E103541 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye  
E103542 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye  
E103543 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral  
E103549 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye  
E103551 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye  
E103552 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye  
E103553 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  
E103559 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  
E10359 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema  
E103591 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye  
E103592 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  
E103593 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral

*(continued on next page)*

E103599 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye  
E1036 Type 1 diabetes mellitus with diabetic cataract  
E1037×1 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye  
E1037×2 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  
E1037×3 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral  
E1037×9 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye  
E1039 Type 1 diabetes mellitus with other diabetic ophthalmic complication  
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 neurologic complication  
E1051 Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene  
E1052 Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene  
E1059 Type 1 diabetes mellitus with other circulatory complications  
E10610 Type 1 diabetes mellitus with diabetic neuropathic arthropathy  
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  
E1069 Type 1 diabetes mellitus with other specified complication  
E108 Type 1 diabetes mellitus with unspecified complications  
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  
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  
E113211 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye  
E113212 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye  
E113213 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral  
E113219 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E11329 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema  
E113291 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye  
E113292 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye  
E113293 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral  
E113299 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E11331 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema  
E113311 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye  
E113312 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye  
E113313 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral  
E113319 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E11339 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema

(continued on next page)

- E113391 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye
- E113392 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye
- E113393 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
- E113399 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E11341 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
- E113411 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye
- E113412 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye
- E113413 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
- E113419 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E11349 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
- E113491 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye
- E113492 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye
- E113493 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
- E113499 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E11351 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema
- E113511 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye
- E113512 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye
- E113513 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
- E113519 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye
- E113521 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
- E113522 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
- E113523 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
- E113529 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye
- E113531 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
- E113532 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
- E113533 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
- E113539 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye
- E113541 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
- E113542 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
- E113543 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
- E113549 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye
- E113551 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye
- E113552 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye
- E113553 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
- E113559 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
- E11359 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema
- E113591 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye

(continued on next page)

E113592 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  
 E113593 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral  
 E113599 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye  
 E1136 Type 2 diabetes mellitus with diabetic cataract  
 E1137×1 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye  
 E1137×2 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  
 E1137×3 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral  
 E1137×9 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye  
 E1139 Type 2 diabetes mellitus with other diabetic ophthalmic complication  
 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 neurologic complication  
 E1151 Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene  
 E1152 Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene  
 E1159 Type 2 diabetes mellitus with other circulatory complications  
 E11610 Type 2 diabetes mellitus with diabetic neuropathic arthropathy  
 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  
 E1169 Type 2 diabetes mellitus with other specified complication  
 E118 Type 2 diabetes mellitus with unspecified complications

#### PQI 05: Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults

##### ***COPD (Excluding Acute Bronchitis) Diagnosis Codes: (ACCOPDD)***

J410 Simple chronic bronchitis  
 J411 Mucopurulent chronic bronchitis  
 J418 Mixed simple and mucopurulent chronic bronchitis  
 J42 Unspecified chronic bronchitis  
 J430 Unilateral pulmonary emphysema (MacLeod's syndrome)  
 J431 Panlobular emphysema  
 J432 Centrilobular emphysema  
 J439 Emphysema, unspecified  
 J440 COPD with acute lower respiratory infection  
 J441 COPD with (acute) exacerbation  
 J449 COPD, unspecified  
 J470 Bronchiectasis with acute lower respiratory infection  
 J471 Bronchiectasis with (acute) exacerbation  
 J479 Bronchiectasis, uncomplicated

(continued on next page)



### PQI 07: Hypertension

#### **Hypertension Diagnosis Codes: (ACSHYPD)**

I10 Essential (primary) hypertension

I119 Hypertensive heart disease without heart failure

I129 Hypertensive chronic kidney disease with stage I through stage IV chronic kidney disease, or unspecified chronic kidney disease

I1310 Hypertensive heart and chronic kidney disease without heart failure, with stage I through stage IV chronic kidney disease, or unspecified chronic kidney disease

I160 Hypertensive urgency

I161 Hypertensive emergency

I169 Hypertensive crisis, unspecified

### PQI 08: Heart Failure

#### **Heart Failure Diagnosis Codes: (MRTCHFD)**

I0981 Rheumatic heart failure

I110 Hypertensive heart disease with heart failure

I130 Hypertensive heart and chronic kidney disease with heart failure and stage I through stage IV chronic kidney disease, or unspecified chronic kidney disease

I132 Hypertensive heart and chronic kidney disease with heart failure and with stage V chronic kidney disease, or end-stage renal disease

I501 Left ventricular failure

I5020 Unspecified systolic (congestive) heart failure

I5021 Acute systolic (congestive) heart failure

I5022 Chronic systolic (congestive) heart failure

I5023 Acute on chronic systolic (congestive) heart failure

I5030 Unspecified diastolic (congestive) heart failure

I5031 Acute diastolic (congestive) heart failure

I5032 Chronic diastolic (congestive) heart failure

I5033 Acute on chronic diastolic (congestive) heart failure

I5040 Unspecified combined systolic (congestive) and 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

I509 Heart failure, unspecified

### PQI 09: Low Birth Weight

Not included

### PQI 10: Dehydration

#### **Dehydration Diagnosis Codes: (ACSDEHD)**

E860 Dehydration

E861 Hypovolemia

E869 Volume depletion, unspecified

### PQI 11: Community-Acquired Pneumonia

#### **Community-Acquired Bacterial Pneumonia Diagnosis Codes: (ACSBACD)**

J13 Pneumonia due to *Streptococcus pneumoniae*

J14 Pneumonia due to *Haemophilus influenzae*

(continued on next page)

J15211 Pneumonia due to methicillin-susceptible *Staphylococcus aureus*  
 J15212 Pneumonia due to methicillin-resistant *Staphylococcus aureus*  
 J153 Pneumonia due to *Streptococcus*, group B  
 J154 Pneumonia due to other streptococci  
 J157 Pneumonia due to *Mycoplasma pneumoniae*  
 J159 Unspecified bacterial pneumonia  
 J160 Chlamydial pneumonia  
 J168 Pneumonia due to other specified infectious organisms  
 J180 Bronchopneumonia, unspecified organism  
 J181 Lobar pneumonia, unspecified organism  
 J188 Other pneumonia, unspecified organism  
 J189 Pneumonia, unspecified organism

## PQI 12: Urinary Tract Infection

### **Urinary Tract Infection Diagnosis Codes: (ACSTID)**

N10 Acute tubulo-interstitial nephritis  
 N119 Chronic tubulo-interstitial nephritis, unspecified  
 N12 Tubulo-interstitial nephritis, not specified as acute or chronic  
 N151 Renal and perinephric abscess  
 N159 Renal tubulo-interstitial disease, unspecified  
 N16 Renal tubulo-interstitial disorders in diseases classified elsewhere  
 N2884 Pyelitis cystica  
 N2885 Pyeloureteritis cystica  
 N2886 Ureteritis cystica  
 N3000 Acute cystitis without hematuria  
 N3001 Acute cystitis with hematuria  
 N3090 Cystitis, unspecified without hematuria  
 N3091 Cystitis, unspecified with hematuria  
 N390 Urinary tract infection, site not specified

## PQI 14: Uncontrolled Diabetes

### **Uncontrolled Diabetes Without Mention of a Short-Term or Long-Term Complication Diagnosis Codes: (ACDIAUD)**

E10649 Type 1 diabetes mellitus with hypoglycemia without coma  
 E1065 Type 1 diabetes mellitus with hyperglycemia  
 E11649 Type 2 diabetes mellitus with hypoglycemia without coma  
 E1165 Type 2 diabetes mellitus with hyperglycemia

## PQI 15: Asthma in Younger Adults

### **Asthma Diagnosis Codes: (ACASTD)**

J4521 Mild intermittent asthma with (acute) exacerbation  
 J4522 Mild intermittent asthma with status asthmaticus  
 J4531 Mild persistent asthma with (acute) exacerbation  
 J4532 Mild persistent asthma with status asthmaticus

(continued on next page)

J4541 Moderate persistent asthma with (acute) exacerbation  
J4542 Moderate persistent asthma with status asthmaticus  
J4551 Severe persistent asthma with (acute) exacerbation  
J4552 Severe persistent asthma with status asthmaticus  
J45901 Unspecified asthma with (acute) exacerbation  
J45902 Unspecified asthma with status asthmaticus  
J45990 Exercise-induced bronchospasm  
J45991 Cough-variant asthma  
J45998 Other asthma

## PQI 16: Lower-Extremity Amputation Among Patients With Diabetes

### **Lower-Extremity Amputation Procedure Codes: (ACSLEAP)**

*Note: These are Canadian Classification of Health Intervention (CCI) codes, which correspond to the ICD-10 Procedure Coding System codes for this PQI; more information on CCI codes can be found at <https://www.cihi.ca/en/cci-coding-structure>.*

1VA93 Amputation, hip joint  
1VC93 Amputation, femur  
1VG93 Amputation, knee joint  
1VQ93 Amputation, tibia and fibula  
1WA93 Amputation, ankle joint  
1WE93 Amputation, tarsal bones and intertarsal joints (hindfoot, midfoot)  
1WI93 Amputation, first metatarsal bone and first metatarsophalangeal joint  
1WJ93 Amputation, tarsometatarsal joints, metatarsal bones, and metatarsophalangeal joints (forefoot)  
1WK93 Amputation, first phalanx of foot  
1WL93 Amputation, phalanx of foot

### **Traumatic Amputation of the Lower Extremity Diagnosis Codes: (ACLEA2D)**

*Note: These codes were excluded in line with PQI 16 Lower-Extremity Amputation Among Patients With Diabetes Rate (ie, codes with a main diagnosis of S78\*, S88\*, and S98\*). See [http://www.qualityindicators.ahrq.gov/Downloads/Modules/PQI/V70/TechSpecs/PQI\\_16\\_Lower-Extremity\\_Amputation\\_among\\_Patients\\_with\\_Diabetes\\_Rate.pdf](http://www.qualityindicators.ahrq.gov/Downloads/Modules/PQI/V70/TechSpecs/PQI_16_Lower-Extremity_Amputation_among_Patients_with_Diabetes_Rate.pdf)*

S78011A Complete traumatic amputation at right hip joint, initial encounter  
S78012A Complete traumatic amputation at left hip joint, initial encounter  
S78019A Complete traumatic amputation at unspecified hip joint, initial encounter  
S78021A Partial traumatic amputation at right hip joint, initial encounter  
S78022A Partial traumatic amputation at left hip joint, initial encounter  
S78029A Partial traumatic amputation at unspecified hip joint, initial encounter  
S78111A Complete traumatic amputation at level between right hip and knee, initial encounter  
S78112A Complete traumatic amputation at level between left hip and knee, initial encounter  
S78119A Complete traumatic amputation at level between unspecified hip and knee, initial encounter  
S78121A Partial traumatic amputation at level between right hip and knee, initial encounter  
S78122A Partial traumatic amputation at level between left hip and knee, initial encounter  
S78129A Partial traumatic amputation at level between unspecified hip and knee, initial encounter  
S78911A Complete traumatic amputation of right hip and thigh, level unspecified, initial encounter  
S78912A Complete traumatic amputation of left hip and thigh, level unspecified, initial encounter  
S78919A Complete traumatic amputation of unspecified hip and thigh, level unspecified, initial encounter  
S78921A Partial traumatic amputation of right hip and thigh, level unspecified, initial encounter

(continued on next page)

S78922A Partial traumatic amputation of left hip and thigh, level unspecified, initial encounter  
S78929A Partial traumatic amputation of unspecified hip and thigh, level unspecified, initial encounter  
S88011A Complete traumatic amputation at knee level, right lower leg, initial encounter  
S88012A Complete traumatic amputation at knee level, left lower leg, initial encounter  
S88019A Complete traumatic amputation at knee level, unspecified lower leg, initial encounter  
S88021A Partial traumatic amputation at knee level, right lower leg, initial encounter  
S88022A Partial traumatic amputation at knee level, left lower leg, initial encounter  
S88029A Partial traumatic amputation at knee level, unspecified lower leg, initial encounter  
S88111A Complete traumatic amputation at level between knee and ankle, right lower leg, initial encounter  
S88112A Complete traumatic amputation at level between knee and ankle, left lower leg, initial encounter  
S88119A Complete traumatic amputation at level between knee and ankle, unspecified lower leg, initial encounter  
S88121A Partial traumatic amputation at level between knee and ankle, right lower leg, initial encounter  
S88122A Partial traumatic amputation at level between knee and ankle, left lower leg, initial encounter  
S88129A Partial traumatic amputation at level between knee and ankle, unspecified lower leg, initial encounter  
S88911A Complete traumatic amputation of right lower leg, level unspecified, initial encounter  
S88912A Complete traumatic amputation of left lower leg, level unspecified, initial encounter  
S88919A Complete traumatic amputation of unspecified lower leg, level unspecified, initial encounter  
S88921A Partial traumatic amputation of right lower leg, level unspecified, initial encounter  
S88922A Partial traumatic amputation of left lower leg, level unspecified, initial encounter  
S88929A Partial traumatic amputation of unspecified lower leg, level unspecified, initial encounter  
S98012A Complete traumatic amputation of left foot at ankle level, initial encounter  
S98019A Complete traumatic amputation of unspecified foot at ankle level, initial encounter  
S98021A Partial traumatic amputation of right foot at ankle level, initial encounter  
S98022A Partial traumatic amputation of left foot at ankle level, initial encounter  
S98029A Partial traumatic amputation of unspecified foot at ankle level, initial encounter  
S98111A Complete traumatic amputation of right great toe, initial encounter  
S98112A Complete traumatic amputation of left great toe, initial encounter  
S98119A Complete traumatic amputation of unspecified great toe, initial encounter  
S98121A Partial traumatic amputation of right great toe, initial encounter  
S98122A Partial traumatic amputation of left great toe, initial encounter  
S98129A Partial traumatic amputation of unspecified great toe, initial encounter  
S98131A Complete traumatic amputation of one right lesser toe, initial encounter  
S98132A Complete traumatic amputation of one left lesser toe, initial encounter  
S98139A Complete traumatic amputation of one unspecified lesser toe, initial encounter  
S98141A Partial traumatic amputation of one right lesser toe, initial encounter  
S98142A Partial traumatic amputation of one left lesser toe, initial encounter  
S98149A Partial traumatic amputation of one unspecified lesser toe, initial encounter  
S98211A Complete traumatic amputation of two or more right lesser toes, initial encounter  
S98212A Complete traumatic amputation of two or more left lesser toes, initial encounter  
S98219A Complete traumatic amputation of two or more unspecified lesser toes, initial encounter  
S98221A Partial traumatic amputation of two or more right lesser toes, initial encounter  
S98222A Partial traumatic amputation of two or more left lesser toes, initial encounter  
S98229A Partial traumatic amputation of two or more unspecified lesser toes, initial encounter  
S98311A Complete traumatic amputation of right midfoot, initial encounter  
S98312A Complete traumatic amputation of left midfoot, initial encounter  
S98319A Complete traumatic amputation of unspecified midfoot, initial encounter

*(continued on next page)*

S98321A Partial traumatic amputation of right midfoot, initial encounter  
S98322A Partial traumatic amputation of left midfoot, initial encounter  
S98329A Partial traumatic amputation of unspecified midfoot, initial encounter  
S98911A Complete traumatic amputation of right foot, level unspecified, initial encounter  
S98912A Complete traumatic amputation of left foot, level unspecified, initial encounter  
S98919A Complete traumatic amputation of unspecified foot, level unspecified, initial encounter  
S98921A Partial traumatic amputation of right foot, level unspecified, initial encounter  
S98922A Partial traumatic amputation of left foot, level unspecified, initial encounter  
S98929A Partial traumatic amputation of unspecified foot, level unspecified, initial encounter

**Diabetes Diagnosis Codes: (ACSLEAD)**

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  
E1022 Type 1 diabetes mellitus with diabetic chronic kidney disease  
E1029 Type 1 diabetes mellitus with other diabetic kidney 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  
E103211 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye  
E103212 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye  
E103213 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral  
E103219 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E10329 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema  
E103291 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye  
E103292 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye  
E103293 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral  
E103299 Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E10331 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema  
E103311 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye  
E103312 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye  
E103313 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral  
E103319 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E10339 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema  
E103391 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye  
E103392 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye  
E103393 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral  
E10341 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema  
E103399 Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E103411 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye  
E103412 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye  
E103413 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral  
E103419 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E10349 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema  
E103491 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye  
E103492 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye

(continued on next page)

E103493 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral  
E103499 Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye  
E10351 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema  
E103511 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye  
E103512 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye  
E103513 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral  
E103519 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye  
E103521 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye  
E103522 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye  
E103523 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral  
E103529 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye  
E103531 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye  
E103532 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye  
E103533 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral  
E103539 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye  
E103541 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye  
E103542 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye  
E103543 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral  
E103549 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye  
E103551 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye  
E103552 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye  
E103553 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  
E103559 Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  
E10359 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema  
E103591 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye  
E103592 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  
E103593 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral  
E103599 Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye  
E1036 Type 1 diabetes mellitus with diabetic cataract  
E1037×1 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye  
E1037×2 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  
E1037×3 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral  
E1037×9 Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye  
E1039 Type 1 diabetes mellitus with other diabetic ophthalmic complication  
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

(continued on next page)



- E1044 Type 1 diabetes mellitus with diabetic amyotrophy
- E1049 Type 1 diabetes mellitus with other diabetic neurologic complication
- E1051 Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene
- E1052 Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene
- E1059 Type 1 diabetes mellitus with other circulatory complications
- E10610 Type 1 diabetes mellitus with diabetic neuropathic arthropathy
- 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 mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)
- E1101 Type 2 diabetes mellitus with hyperosmolarity with coma
- 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
- 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
- E113211 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye
- E113212 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye
- E113213 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral
- E113219 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E11329 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema
- E113291 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye
- E113292 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye
- E113293 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
- E113299 Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E11331 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
- E113311 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye
- E113312 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye
- E113313 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
- E113319 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E11339 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
- E113391 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye
- E113392 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye
- E113393 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral

(continued on next page)

E113399 Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye

E11341 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema

E113411 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye

E113412 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye

E113413 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral

E113419 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye

E11349 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema

E113491 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye

E113492 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye

E113493 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral

E113499 Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye

E11351 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema

E113511 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye

E113512 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye

E113513 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral

E113519 Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye

E113521 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye

E113522 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye

E113523 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral

E113529 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye

E113531 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye

E113532 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye

E113533 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral

E113539 Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye

E113541 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye

E113542 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye

E113543 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral

E113549 Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye

E113551 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye

E113552 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye

E113553 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral

E113559 Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye

E11359 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema

E113591 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye

E113592 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye

E113593 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral

(continued on next page)



E113599 Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye  
E1136 Type 2 diabetes mellitus with diabetic cataract  
E1137×1 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye  
E1137×2 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  
E1137×3 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral  
E1137×9 Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye  
E1139 Type 2 diabetes mellitus with other diabetic ophthalmic complication  
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 neurologic complication  
E1151 Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene  
E1152 Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene  
E1159 Type 2 diabetes mellitus with other circulatory complications  
E11610 Type 2 diabetes mellitus with diabetic neuropathic arthropathy  
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  
E1300 Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)  
E1301 Other specified diabetes mellitus with hyperosmolarity with coma  
E1310 Other specified diabetes mellitus with ketoacidosis without coma  
E1311 Other specified diabetes mellitus with ketoacidosis with coma  
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  
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  
E133211 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye  
E133212 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye  
E133213 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral  
E133219 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye  
E13329 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema

*(continued on next page)*

- E133291 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye
- E133292 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye
- E133293 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
- E133299 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E13331 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
- E133311 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye
- E133312 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye
- E133313 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
- E133319 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E13339 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
- E133391 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye
- E133392 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye
- E133393 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
- E133399 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E13341 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
- E133411 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye
- E133412 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye
- E133413 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
- E133419 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E13349 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
- E133491 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye
- E133492 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye
- E133493 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
- E133499 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E13351 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema
- E133511 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye
- E133512 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye
- E133513 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
- E133519 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye
- E133521 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
- E133522 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
- E133523 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
- E133529 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye

(continued on next page)

- E133531 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
- E133532 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
- E133533 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
- E133539 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye
- E133541 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
- E133542 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
- E133543 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
- E133549 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye
- E133551 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye
- E133552 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye
- E133553 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
- E133559 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
- E13359 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema
- E133591 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye
- E133592 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye
- E133593 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
- E133599 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye
- E1336 Other specified diabetes mellitus with diabetic cataract
- E1337×1 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye
- E1337×2 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye
- E1337×3 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
- E1337×9 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye
- E1339 Other specified diabetes mellitus with other diabetic ophthalmic complication
- 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 neurologic complication
- E1351 Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene
- E1352 Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene
- E1359 Other specified diabetes mellitus with other circulatory complications
- E13610 Other specified diabetes mellitus with diabetic neuropathic arthropathy
- E13618 Other specified diabetes mellitus with other diabetic arthropathy
- E13620 Other specified diabetes mellitus with diabetic dermatitis
- E13621 Other specified diabetes mellitus with foot ulcer
- E13622 Other specified diabetes mellitus with other skin ulcer
- E13628 Other specified diabetes mellitus with other skin complications
- E13630 Other specified diabetes mellitus with periodontal disease
- E13638 Other specified diabetes mellitus with other oral complications

(continued on next page)

E13641 Other specified diabetes mellitus with hypoglycemia with coma  
 E13649 Other specified diabetes mellitus with hypoglycemia without coma  
 E1365 Other specified diabetes mellitus with hyperglycemia  
 E1369 Other specified diabetes mellitus with other specified complication  
 E138 Other specified diabetes mellitus with unspecified complications  
 E139 Other specified diabetes mellitus without complications

**Diabetes Diagnosis Codes: Other**

*Note: This category includes all diabetes cases for which there is no amputation and that do not fit elsewhere.*

E109 Type 1 diabetes mellitus without complications  
 E11618 Type 2 diabetes mellitus with other diabetic arthropathy  
 E119 Type 2 diabetes mellitus without complications  
 E1300 Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)  
 E1301 Other specified diabetes mellitus with hyperosmolarity with coma  
 E1310 Other specified diabetes mellitus with ketoacidosis without coma  
 E1311 Other specified diabetes mellitus with ketoacidosis with coma  
 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  
 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  
 E133211 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye  
 E133212 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye  
 E133213 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral  
 E133219 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye  
 E13329 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema  
 E133291 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye  
 E133292 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye  
 E133293 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral  
 E133299 Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye  
 E13331 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema  
 E133311 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye  
 E133312 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye  
 E133313 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral  
 E133319 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye  
 E13339 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema  
 E133391 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye  
 E133392 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye  
 E133393 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral

*(continued on next page)*

- E133399 Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E13341 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
- E133411 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye
- E133412 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye
- E133413 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
- E133419 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye
- E13349 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
- E133491 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye
- E133492 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye
- E133493 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
- E133499 Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye
- E13351 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema
- E133511 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye
- E133512 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye
- E133513 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
- E133519 Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye
- E133521 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
- E133522 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
- E133523 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
- E133529 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye
- E133531 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
- E133532 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
- E133533 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
- E133539 Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye
- E133541 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
- E133542 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
- E133543 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
- E133549 Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye
- E133551 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye
- E133552 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye
- E133553 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
- E133559 Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
- E13359 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema
- E133591 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye

(continued on next page)

E133592 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  
 E133593 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral  
 E133599 Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye  
 E1336 Other specified diabetes mellitus with diabetic cataract  
 E1337×1 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye  
 E1337×2 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  
 E1337×3 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral  
 E1337×9 Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye  
 E1339 Other specified diabetes mellitus with other diabetic ophthalmic complication  
 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 neurologic complication  
 E1351 Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene  
 E1352 Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene  
 E1359 Other specified diabetes mellitus with other circulatory complications  
 E13610 Other specified diabetes mellitus with diabetic neuropathic arthropathy  
 E13618 Other specified diabetes mellitus with other diabetic arthropathy  
 E13620 Other specified diabetes mellitus with diabetic dermatitis  
 E13621 Other specified diabetes mellitus with foot ulcer  
 E13622 Other specified diabetes mellitus with other skin ulcer  
 E13628 Other specified diabetes mellitus with other skin complications  
 E13630 Other specified diabetes mellitus with periodontal disease  
 E13638 Other specified diabetes mellitus with other oral complications  
 E13641 Other specified diabetes mellitus with hypoglycemia with coma  
 E13649 Other specified diabetes mellitus with hypoglycemia without coma  
 E1365 Other specified diabetes mellitus with hyperglycemia  
 E1369 Other specified diabetes mellitus with other specified complication  
 E138 Other specified diabetes mellitus with unspecified complications  
 E139 Other specified diabetes mellitus without complications

### **Diabetes Diagnosis Codes: Unclassified**

*Note: This category includes all diabetes codes that do not fall in any of the other existing diabetes categories.*

E100, E1012, E1020, E1023, E1028, E1030, E1050, E1060, E1068, E1070, E1071, E1078, E110, E1110, E1111, E1112, E1120, E1123, E1128, E1130, E1138, E1150, E1160, E1168, E1170, E1171, E1178, E130, E1312, E1323, E1328, E1368, E1370

Data from Agency for Healthcare Research and Quality. Prevention Quality Indicator Technical Specifications. Available at: [http://www.qualityindicators.ahrq.gov/Modules/PQI\\_TechSpec\\_ICD10\\_v70.aspx](http://www.qualityindicators.ahrq.gov/Modules/PQI_TechSpec_ICD10_v70.aspx). Accessed October 20, 2019.

## **Common Nonpreventable Clinical Diagnosis Groups and Respective ICD-10 Codes Used to Indicate Diagnosis**

### **Sepsis**

- A40 Streptococcal septicaemia
- A41 Other septicaemia
- R65 Systemic Inflammatory Response Syndrome [SIRS]

*(continued on next page)*



### Stroke, Transient Ischemic Attack, Intracranial Hemorrhage

- I60 Subarachnoid hemorrhage
- I61 Intracerebral hemorrhage
- I62 Other nontraumatic intracranial hemorrhage
- I63 Cerebral infarction
- I64 Stroke, not specified as hemorrhage or infarction
- I65 Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction
- I66 Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction
- G45 Transient cerebral ischemic attacks and related syndromes
- S06.6 Traumatic subarachnoid hemorrhage

### Cancer and Chemotherapy

- C00–C97 Malignant neoplasms
- No code for chemotherapy

### Cardiac Valve Disease

- I05–I08 Chronic rheumatic heart diseases

### Arrhythmia

- I44 Atrioventricular and left bundle-branch block
- I45 Other conduction disorders
- I46 Cardiac arrest
- I47 Paroxysmal tachycardia
- I48 Atrial fibrillation and flutter
- I49 Other cardiac arrhythmias

### Ischemic Heart Disease

- I20–I25 Ischemic heart diseases

### Dementia

- F00–F03 Dementia
- G30 Alzheimer's disease

### Gastrointestinal Infections and Disorders

- A08 Viral and other specified intestinal infections
- K20–K31 Diseases of esophagus, stomach, and duodenum
- K55–K63 Other diseases of intestines
- K65–K67 Diseases of peritoneum

### Kidney Failure

- N00–N08 Glomerular diseases
- N10–N16 Renal tubulo-interstitial diseases
- N17–N19 Renal failure

### Cellulitis

- L02 Cutaneous abscess, furuncle, and carbuncle
- L03 Cellulitis

(continued on next page)

## Orthopedic Conditions

- M00 Pyogenic arthritis
- M01 Direct infections of joint in infectious and parasitic diseases classified elsewhere
- M02 Reactive arthropathies
- M05 Seropositive rheumatoid arthritis
- M06 Other rheumatoid arthritis
- M08 Juvenile arthritis
- M11 Other crystal arthropathies
- M12 Other specific arthropathies
- M13 Other arthritis
- M14 Arthropathies in other diseases classified elsewhere
- M15 Polyarthrosis
- M19 Other arthrosis
- M20 Acquired deformities of fingers and toes
- M21 Other acquired deformities of limbs
- M22 Disorders of patella
- M23 Internal derangement of knee
- M24 Other specific joint derangements
- M25 Other joint disorders, not elsewhere classified
- M32 Systemic lupus erythematosus
- M33 Dermatopolymyositis
- M35 Other systemic involvement of connective tissue
- M42 Spinal osteochondrosis
- M43 Other deforming dorsopathies
- M45 Ankylosing spondylitis
- M46 Other inflammatory spondylopathies
- M47 Spondylosis
- M48 Other spondylopathies
- M49 Spondylopathies in diseases classified elsewhere
- M50 Cervical disc disorders
- M51 Other intervertebral disc disorders
- M53 Other dorsopathies, not elsewhere classified
- M54 Dorsalgia
- M60 Myositis
- M62 Other disorders of muscle
- M63 Disorders of muscle in diseases classified elsewhere
- M65 Synovitis and tenosynovitis
- M66 Spontaneous rupture of synovium and tendon
- M67 Other disorders of synovium and tendon
- M68 Disorders of synovium and tendon in diseases classified elsewhere
- M70 Soft tissue disorders related to use, overuse, and pressure
- M71 Other bursopathies
- M72 Fibroblastic disorders
- M73 Soft tissue disorders in diseases classified elsewhere
- M75 Shoulder lesions
- M76 Enthesopathies of lower limb, excluding foot

*(continued on next page)*



M77 Other enthesopathies  
M79 Other soft tissue disorders, not elsewhere classified  
M80 Osteoporosis with pathologic fracture  
M81 Osteoporosis without pathologic fracture  
M82 Osteoporosis in diseases classified elsewhere  
M84 Pathologic fracture, not elsewhere classified  
M86 Osteomyelitis  
M88 Paget's disease of bone (osteitis deformans)  
M89 Other disorders of bone  
M90 Osteopathies in diseases classified elsewhere  
M91 Juvenile osteochondrosis of hip and pelvis  
M92 Other juvenile osteochondrosis  
M93 Other osteochondropathies  
M99 Biomechanical lesions, not elsewhere classified  
R29 Other symptoms and signs involving the nervous and musculoskeletal systems  
S12 Fracture of neck  
S14 Injury of nerves and spinal cord at neck level  
S22 Fracture of rib(s), sternum, and thoracic spine  
S24 Injury of nerves and spinal cord at thorax level  
S32 Fracture of lumbar spine and pelvis  
S34 Injury of nerves and lumbar spinal cord at abdomen, lower back, and pelvis level  
S72 Fracture of femur

### Syncope and Dizziness

R55 Syncope and collapse  
R42 Dizziness and giddiness

### Other Pulmonary

J44 Other chronic obstructive pulmonary disease  
J69 Pneumonitis due to solids and liquids  
J91 Pleural effusion in conditions classified elsewhere  
J96 Respiratory failure, not elsewhere classified

### Peripheral Atherosclerosis

I70 Atherosclerosis  
K55 Vascular disorders of intestine

### Pulmonary Embolism and Deep Vein Thrombosis

I26 Pulmonary embolism  
I27 Other pulmonary heart diseases  
I82.4 Acute embolism and thrombosis of deep veins of lower extremity

### Procedure or Device Complications

T82 Complications of cardiac and vascular prosthetic devices, implants, and grafts  
T83 Complications of genitourinary prosthetic devices, implants, and grafts  
T84 Complications of internal orthopedic prosthetic devices, implants, and grafts  
T85 Complications of other internal prosthetic devices, implants, and grafts

(continued on next page)

## Rehabilitation

Z50 Care involving use of rehabilitation procedures

Data from Joynt KE, Gawande AA, Orav EJ, et al. Contribution of preventable acute care spending to total spending for high-cost Medicare patients. *JAMA* 2013;309:2572–2578.