

Prevention Quality Indicator 03 (PQI 03) Diabetes Long-Term Complications Admission Rate

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Area-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

Admissions for a principal diagnosis of diabetes with long-term complications (renal, eye, neurological, circulatory, or complications not otherwise specified) per 100,000 population, ages 18 years and older. Excludes obstetric admissions and transfers from other institutions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report admissions per 100,000 population.]

NUMERATOR

Discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for diabetes with long-term complications (renal, eye, neurological, circulatory, or complications not otherwise specified).

[NOTE: By definition, discharges with a principal diagnosis of diabetes with long-term complications are precluded from an assignment of MDC 14 by grouper software. Thus, obstetric discharges should not be considered in the PQI rate, though the AHRQ QI™ software does not explicitly exclude obstetric cases.]

Diabetes with long-term complications diagnosis codes: (ACDIALD)

E1021	Type 1 diabetes mellitus with diabetic nephropathy	E1121	Type 2 diabetes mellitus with diabetic nephropathy
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease	E1122	Type 2 diabetes mellitus with diabetic chronic kidney disease
E1029	Type 1 diabetes mellitus with other diabetic kidney complication	E1129	Type 2 diabetes mellitus with other diabetic kidney complication
E10311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	E11311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema
E10319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	E11319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema
E10321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	E11321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
E10329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	E11329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema
E10331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	E11331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
E10339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	E11339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema
E10341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	E11341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema

E10349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	E11349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema
E10351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	E11351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema
E10359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	E11359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema
E1036	Type 1 diabetes mellitus with diabetic cataract	E1136	Type 2 diabetes mellitus with diabetic cataract
E1039	Type 1 diabetes mellitus with other diabetic ophthalmic complication	E1139	Type 2 diabetes mellitus with other diabetic ophthalmic complication
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	E1140	Type 2 diabetes mellitus with diabetic neuropathy, unspecified
E1041	Type 1 diabetes mellitus with diabetic mononeuropathy	E1141	Type 2 diabetes mellitus with diabetic mononeuropathy
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy	E1142	Type 2 diabetes mellitus with diabetic polyneuropathy
E1043	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	E1143	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy
E1044	Type 1 diabetes mellitus with diabetic amyotrophy	E1144	Type 2 diabetes mellitus with diabetic amyotrophy
E1049	Type 1 diabetes mellitus with other diabetic neurological complication	E1149	Type 2 diabetes mellitus with other diabetic neurological complication
E1051	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	E1151	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E1052	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	E1152	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E1059	Type 1 diabetes mellitus with other circulatory complications	E1159	Type 2 diabetes mellitus with other circulatory complications

E10610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	E11610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy
E10618	Type 1 diabetes mellitus with other diabetic arthropathy	E11618	Type 2 diabetes mellitus with other diabetic arthropathy
E10620	Type 1 diabetes mellitus with diabetic dermatitis	E11620	Type 2 diabetes mellitus with diabetic dermatitis
E10621	Type 1 diabetes mellitus with foot ulcer	E11621	Type 2 diabetes mellitus with foot ulcer
E10622	Type 1 diabetes mellitus with other skin ulcer	E11622	Type 2 diabetes mellitus with other skin ulcer
E10628	Type 1 diabetes mellitus with other skin complications	E11628	Type 2 diabetes mellitus with other skin complications
E10630	Type 1 diabetes mellitus with periodontal disease	E11630	Type 2 diabetes mellitus with periodontal disease
E10638	Type 1 diabetes mellitus with other oral complications	E11638	Type 2 diabetes mellitus with other oral complications
E1069	Type 1 diabetes mellitus with other specified complication	E1169	Type 2 diabetes mellitus with other specified complication
E108	Type 1 diabetes mellitus with unspecified complications	E118	Type 2 diabetes mellitus with unspecified complications

NUMERATOR EXCLUSIONS

Exclude cases:

- transfer from a hospital (different facility)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- transfer from another health care facility
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

[Appendix A – Admission Codes for Transfers](#)

DENOMINATOR

Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county where the hospital discharge occurred.‡

† The term “metropolitan area” (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area, or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.

‡ The denominator can be specified with the diabetic population only and calculated with the SAS QI software through the condition-specific denominator at the state-level feature.