

# Prevention Quality Indicator 01 (PQI 01) Diabetes Short-Term Complications Admission Rate

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**Area-Level Indicator**

**Type of Score: Rate**

**Prepared by:**

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[qualityindicators.ahrq.gov](https://qualityindicators.ahrq.gov)

**DESCRIPTION**

Hospitalizations for a principal diagnosis of diabetes with short-term complications (ketoacidosis, hyperosmolarity, or coma) per 100,000 population, ages 18 years and older. Excludes obstetric hospitalizations 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 hospitalizations per 100,000 population.]*

**NUMERATOR**

Hospital discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for diabetes with short-term complications (ketoacidosis, hyperosmolarity, or coma) (**ACDIASD\***).

*[NOTE: Obstetric discharges are not included in the PQI rate for PQI 01, though the AHRQ QI software does not explicitly exclude obstetric discharges. By definition, discharges with a principal diagnosis of diabetes with short-term complications exclude obstetric discharges, because the principal diagnosis for an obstetric discharge would identify it as obstetric, and no such diagnoses are included in the set of qualifying diagnoses.]*

## NUMERATOR EXCLUSIONS

Exclude discharges:

- with admission source for transferred from a different hospital or other health care facility (**Appendix A**) (UB04 Admission source - 2, 3)
- with a point of origin code for transfer from a hospital, skilled nursing facility (SNF) or intermediate care facility (ICF), or other healthcare facility (**Appendix A**) (UB04 Point of Origin - 4, 5, 6)
- with an ungroupable DRG (DRG=999)
- 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 the metropolitan area<sup>1</sup> 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 of the hospital where the discharge occurred. May be combined with uncontrolled diabetes as a single indicator as a simple sum of the rates to form the Healthy People 2010 indicator (note that the AHRQ QI software excludes transfers to avoid double-counting discharges).

<sup>1</sup> 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 AHRQ QI software.

\* See below for code list

***Diabetes with short-term complications diagnosis codes: (ACDIASD)***

E1010	Type 1 diabetes mellitus with ketoacidosis without coma	E11641	Type 2 diabetes mellitus with hypoglycemia with coma
E1011	Type 1 diabetes mellitus with ketoacidosis with coma	E1300	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)
E10641	Type 1 diabetes mellitus with hypoglycemia with coma	E1301	Other specified diabetes mellitus with hyperosmolarity with coma
E1100	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	E1310	Other specified diabetes mellitus with ketoacidosis without coma
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma	E1311	Other specified diabetes mellitus with ketoacidosis with coma
E1110	Type 2 diabetes mellitus with ketoacidosis without coma	E13641	Other specified diabetes mellitus with hypoglycemia with coma
E1111	Type 2 diabetes mellitus with ketoacidosis with coma		