



# **Prevention Quality Indicator 08 (PQI 08) Heart Failure Admission Rate**

**October 2016**

**Area-Level Indicator**

**Type of Score: Rate**

**Prepared by:**

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

[www.qualityindicators.ahrq.gov](http://www.qualityindicators.ahrq.gov)

## **DESCRIPTION**

Admissions with a principal diagnosis of heart failure per 100,000 population, ages 18 years and older. Excludes cardiac procedure admissions, 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-9-CM diagnosis code for heart failure.

[NOTE: By definition, discharges with a principal diagnosis of heart failure 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 QITM software does not explicitly exclude obstetric cases.]

***Heart failure diagnosis codes (MRTCHFD):***

39891	RHEUMATIC HEART FAILURE	42821	AC SYSTOLIC HRT FAILURE
40201	MAL HYPERT HRT DIS W CHF	42822	CHR SYSTOLIC HRT FAILURE
40211	BENIGN HYP HRT DIS W CHF	42823	AC ON CHR SYST HRT FAIL
40291	HYPERTEN HEART DIS W CHF	42830	DIASTOLC HRT FAILURE NOS
40401	MAL HYPER HRT/REN W CHF	42831	AC DIASTOLIC HRT FAILURE
40403	MAL HYP HRT/REN W CHF&RF	42832	CHR DIASTOLIC HRT FAIL
40411	BEN HYPER HRT/REN W CHF	42833	AC ON CHR DIAST HRT FAIL
40413	BEN HYP HRT/REN W CHF&RF	42840	SYST/DIAST HRT FAIL NOS
40491	HYPER HRT/REN NOS W CHF	42841	AC SYST/DIASTOL HRT FAIL
40493	HYP HT/REN NOS W CHF&RF	42842	CHR SYST/DIASTL HRT FAIL
4280	CONGESTIVE HEART FAILURE	42843	AC/CHR SYST/DIA HRT FAIL
4281	LEFT HEART FAILURE	4289	HEART FAILURE NOS
42820	SYSTOLIC HRT FAILURE NOS		

## **NUMERATOR EXCLUSIONS**

Exclude cases:

- with any-listed ICD-9-CM procedure codes for cardiac procedure
- 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\*](#)

[\*Appendix B – Cardiac Procedure Codes\*](#)

## **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 of the hospital where the 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.