



**AHRQ Quality Indicators™ (AHRQ QI™)  
ICD-9-CM and ICD-10-CM/PCS  
Specification Enhanced Version 5.0**

**Prevention Quality Indicators #8 (PQI #8)  
Heart Failure Admission Rate**

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Area-Level Indicator  
Type of Score: Rate**

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## PQI #8 Heart Failure Admission Rate

DESCRIPTION
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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.]*

### PQI #8 Heart Failure Admission Rate

#### NUMERATOR

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM or ICD-10-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 QI™ software does not explicitly exclude obstetric cases.]*

#### Heart failure diagnosis codes: (ACSCHFD)

ICD-9-CM	Description	ICD-10-CM	Description
39891	RHEUMATIC HEART FAILURE	<i>No codes for ICD-10-CM</i>	
40201	MAL HYPERT HRT DIS W CHF		
40211	BENIGN HYP HRT DIS W CHF		
40291	HYPERTEN HEART DIS W CHF		
40401	MAL HYPER HRT/REN W CHF		
40403	MAL HYP HRT/REN W CHF/RF		
40411	BEN HYPER HRT/REN W CHF		
40413	BEN HYP HRT/REN W CHF/RF		
40491	HYPER HRT/REN NOS W CHF		
40493	HYP HT/REN NOS W CHF/RF		
4280	CONGESTIVE HEART FAILURE		
4281	LEFT HEART FAILURE		
42820	SYSTOLIC HRT FAILURE NOS		
42821	AC SYSTOLIC HRT FAILURE		
42822	CHR SYSTOLIC HRT FAILURE		
42823	AC ON CHR SYST HRT FAIL		
42830	DIASTOLC HRT FAILURE NOS		
42831	AC DIASTOLIC HRT FAILURE		
42832	CHR DIASTOLIC HRT FAIL		

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42833	AC ON CHR DIAST HRT FAIL
42840	SYST/DIAST HRT FAIL NOS
42841	AC SYST/DIASTOL HRT FAIL
42842	CHR SYST/DIASTL HRT FAIL
42843	AC/CHR SYST/DIA HRT FAIL
4289	HEART FAILURE NOS

## PQI #8 Heart Failure Admission Rate

### NUMERATOR EXCLUSIONS

Exclude cases:

- with any-listed ICD-9-CM or ICD-10-PCS 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\*](#)

## PQI #8 Heart Failure Admission Rate

DENOMINATOR
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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.
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† 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.

### **PQI #8 Heart Failure Admission Rate**

<b>DENOMINATOR EXCLUSIONS</b>
<i>Not Applicable</i>