



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

July 2021

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

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-10-CM diagnosis code for heart failure (**MRTCHFD***).

[NOTE: Obstetric discharges are not included in the PQI rate for PQI 08, though the AHRQ QI™ software does not explicitly exclude obstetric cases. By definition, discharges with a principal diagnosis of heart failure 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 cases:

- with any listed ICD-10-PCS procedure codes for cardiac procedure (**Appendix B : ACSCARP**)
- 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](#)

[Appendix B - Cardiac Procedure Codes](#)

DENOMINATOR

Population ages 18 years and older in metropolitan area¹ 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.

¹ 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.

*See below for code list

Heart failure diagnosis codes: (MRTCHFD)

| | | | |
|-------|--|--------|--|
| I0981 | Rheumatic heart failure | I5041 | Acute combined systolic (congestive) and diastolic (congestive) heart failure |
| I110 | Hypertensive heart disease with heart failure | I5042 | Chronic combined systolic (congestive) and diastolic (congestive) heart failure |
| I130 | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | I5043 | Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure |
| I132 | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease | I50810 | Right heart failure, unspecified |
| I501 | Left ventricular failure, unspecified | I50811 | Acute right heart failure |
| I5020 | Unspecified systolic (congestive) heart failure | I50812 | Chronic right heart failure |
| I5021 | Acute systolic (congestive) heart failure | I50813 | Acute on chronic right heart failure |
| I5022 | Chronic systolic (congestive) heart failure | I50814 | Right heart failure due to left heart failure |
| I5023 | Acute on chronic systolic (congestive) heart failure | I5082 | Biventricular heart failure |
| I5030 | Unspecified diastolic (congestive) heart failure | I5083 | High output heart failure |
| I5031 | Acute diastolic (congestive) heart failure | I5084 | End stage heart failure |
| I5032 | Chronic diastolic (congestive) heart failure | I5089 | Other heart failure |
| I5033 | Acute on chronic diastolic (congestive) heart failure | I509 | Heart failure, unspecified |
| I5040 | Unspecified combined systolic (congestive) and diastolic (congestive) heart failure | | |