

Inpatient Quality Indicator 16 (IQI 16) Heart Failure Mortality Rate

July 2024

Hospital-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

qualityindicators.ahrq.gov

DESCRIPTION

In-hospital deaths per 1,000 hospital discharges with a principal diagnosis of heart failure for patients ages 18 years and older. Excludes discharges with a procedure for heart transplant, discharges admitted from a hospice facility, transfers to another hospital, and obstetric discharges.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report in-hospital deaths per 1,000 hospital discharges.]

NUMERATOR

Number of deaths (DISP=20) among discharges meeting the inclusion and exclusion rules for the denominator.

DENOMINATOR

Discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for heart failure (**MRTCHFD***).

DENOMINATOR EXCLUSIONS

Exclude discharges:

- with any listed procedure code for heart transplant (***HEARTTRP****)
- admitted from a hospice facility (PointOfOriginUB04=F)
- transferring to another short-term hospital (DISP=2)
- with a principal ICD-10-CM diagnosis code assigned to MDC 14 Pregnancy, Childbirth & the Puerperium (***Appendix B: MDC14PRINDX***)
- with a principal ICD-10-CM diagnosis code assigned to MDC 15 Newborns & Other Neonates with Conditions Originating in Perinatal Period (***Appendix B: MDC15PRINDX***)
- with an ungroupable DRG (DRG=999)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)
- with missing MDC (MDC=missing) when user indicates that MDC is provided

[Appendix B — MDC 14 and 15 Principal Diagnosis Codes](#)

* 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		

Heart transplant procedure codes: (HEARTTRP)

02HA0QZ	Insertion of implantable heart assist system into heart, open approach	02HA4RS	Insertion of biventricular short-term external heart assist system into heart, percutaneous endoscopic approach
02HA0RJ	Insertion of short-term external heart assist system into heart, intraoperative, open approach	02HA4RZ	Insertion of short-term external heart assist system into heart, percutaneous endoscopic approach
02HA0RS	Insertion of biventricular short-term external heart assist system into heart, open approach	02HW3RZ	Insertion of short-term external heart assist system into thoracic aorta, descending, percutaneous approach
02HA0RZ	Insertion of short-term external heart assist system into heart, open approach	02RA0LZ	Replacement of heart with biologic and synthetic substitute, autoregulated electrohydraulic, open approach
02HA3QZ	Insertion of implantable heart assist system into heart, percutaneous approach	02RA0MZ	Replacement of heart with synthetic substitute, pneumatic, open approach
02HA3RJ	Insertion of short-term external heart assist system into heart, intraoperative, percutaneous approach	02YA0Z0	Transplantation of heart, allogeneic, open approach
02HA3RS	Insertion of biventricular short-term external heart assist system into heart, percutaneous approach	02YA0Z1	Transplantation of heart, syngeneic, open approach
02HA3RZ	Insertion of short-term external heart assist system into heart, percutaneous approach	02YA0Z2	Transplantation of heart, zooplastic, open approach
02HA4QZ	Insertion of implantable heart assist system into heart, percutaneous endoscopic approach	5A02116	Assistance with cardiac output using other pump, intermittent
02HA4RJ	Insertion of short-term external heart assist system into heart, intraoperative, percutaneous endoscopic approach	5A02216	Assistance with cardiac output using other pump, continuous