



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

**Inpatient Quality Indicators #16 (IQI #16)  
Heart Failure Mortality Rate**

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Provider-Level Indicator  
Type of Score: Rate**

**Prepared by:**

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## IQI #16 Heart Failure Mortality Rate

### DESCRIPTION

In-hospital deaths per 1,000 hospital discharges with heart failure as a principal diagnosis for patients ages 18 years and older. Excludes obstetric discharges and transfers to another hospital.

*[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*

## **IQI #16 Heart Failure Mortality Rate**

<b>NUMERATOR</b>
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Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.
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<b>NUMERATOR EXCLUSIONS</b>
<i>Not Applicable</i>

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<b>DENOMINATOR</b>			
Discharges, for patients ages 18 years and older, with a principal ICD-9-CM or ICD-10-CM diagnosis code for heart failure.			
<i>Heart failure diagnosis codes: (MRTCHFD)</i>			
<b>ICD-9-CM</b>	<b>Description</b>	<b>ICD-10-CM</b>	<b>Description</b>
39891	RHEUMATIC HEART FAILURE	I0981	Rheumatic heart failure
40201	MAL HYPERT HRT DIS W CHF	I110	Hypertensive heart disease with heart failure
40211	BENIGN HYP HRT DIS W CHF	I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
40291	HYPERTEN HEART DIS W CHF	I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
40401	MAL HYPER HRT/REN W CHF	I501	Left ventricular failure
40403	MAL HYP HRT/REN W CHF&RF	I5020	Unspecified systolic (congestive) heart failure
40411	BEN HYPER HRT/REN W CHF	I5021	Acute systolic (congestive) heart failure
40413	BEN HYP HRT/REN W CHF&RF	I5022	Chronic systolic (congestive) heart failure
40491	HYPER HRT/REN NOS W CHF	I5023	Acute on chronic systolic (congestive) heart failure
40493	HYP HT/REN NOS W CHF&RF	I5030	Unspecified diastolic (congestive) heart failure
4280	CONGESTIVE HEART FAILURE	I5031	Acute diastolic (congestive) heart failure
4281	LEFT HEART FAILURE	I5032	Chronic diastolic (congestive) heart failure
42820	SYSTOLIC HRT FAILURE NOS	I5033	Acute on chronic diastolic (congestive) heart failure
42821	AC SYSTOLIC HRT FAILURE	I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
42822	CHR SYSTOLIC HRT FAILURE	I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
42823	AC ON CHR SYST HRT FAIL	I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure

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42830	DIASTOLC HRT FAILURE NOS	I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
42831	AC DIASTOLIC HRT FAILURE	I509	Heart failure, unspecified
42832	CHR DIASTOLIC HRT FAIL		
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		

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### DENOMINATOR EXCLUSIONS

Exclude cases:

- transferring to another short-term hospital (DISP=2)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)