

Inpatient Quality Indicator 15 (IQI 15) Acute Myocardial Infarction (AMI) 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 acute myocardial infarction (AMI) for patients ages 18 years and older. Excludes transfers to another hospital, discharges admitted from a hospice facility, 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 AMI (**MRTAMID***).

DENOMINATOR EXCLUSIONS

Exclude discharges:

- transferring to another short-term hospital (DISP=2)
- admitted from a hospice facility (PointOfOriginUB04=F)
- 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

For risk category definitions, see Inpatient Quality Indicators (IQI) Parameter Estimates, v2024 on the AHRQ QI website.

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

* See below for code list

Myocardial infarction type one diagnosis codes: (MRTAMID)

I2101	ST elevation (STEMI) myocardial infarction involving left main coronary artery	I214	Non-ST elevation (NSTEMI) myocardial infarction
I2102	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	I219	Acute myocardial infarction, unspecified
I2109	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	I220	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
I2111	ST elevation (STEMI) myocardial infarction involving right coronary artery	I221	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
I2119	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	I222	Subsequent Non-ST elevation (NSTEMI) myocardial infarction
I2121	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	I228	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I2129	ST elevation (STEMI) myocardial infarction involving other sites	I229	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
I213	ST elevation (STEMI) myocardial infarction of unspecified site		