

# Acute Stroke Mortality Rate

## Technical Specifications

### Inpatient Quality Indicators #17 (IQI #17)

AHRQ Quality Indicators™, Version 4.5, May 2013  
Provider-Level Indicator  
Type of Score: Rate

### Description

In-hospital deaths per 1,000 hospital discharges with acute stroke as a principal diagnosis for patients ages 18 years and older. Includes metrics for discharges grouped by type of stroke. 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 discharges.]*

### Numerator

#### Overall:

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

*[NOTE: Overall numerator may not match the sum of the strata numerators because the strata may not be mutually exclusive.]*

#### Stratum A:

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

#### Stratum B:

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

#### Stratum C:

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

## Denominator

### Overall:

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM diagnosis code for subarachnoid stroke or a principal ICD-9-CM diagnosis code for hemorrhagic stroke or a principal ICD-9-CM diagnosis code for ischemic stroke.

#### ICD-9-CM Subarachnoid stroke diagnosis codes:

430 SUBARACHNOID HEMORRHAGE

#### ICD-9-CM Hemorrhagic stroke diagnosis codes:

431	INTRACEREBRAL HEMORRHAGE	4321	SUBDURAL HEMORRHAGE
4320	NONTRAUM EXTRADURAL HEM	4329	INTRACRANIAL HEMORR NOS

#### ICD-9-CM Ischemic stroke diagnosis codes:

43301	OCL BSLR ART W INFRCT	43391	OCL ART NOS W INFRCT
43311	OCL CRTD ART W INFRCT	43401	CRBL THRMBS W INFRCT
43321	OCL VRTB ART W INFRCT	43411	CRBL EMBLSM W INFRCT
43331	OCL MLT BI ART W INFRCT	43491	CRBL ART OCL NOS W INFRC
43381	OCL SPCF ART W INFRCT	436	CVA <sup>1</sup>

<sup>1</sup>Only for discharges before September 30, 2004 (FY2004). Does not apply to discharges on or after October 1, 2004 (FY2005).

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)

*[NOTE: Overall denominator may not match the sum of the strata denominators because the strata may not be mutually exclusive.]*

### Stratum A:

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM diagnosis code for subarachnoid stroke (see above).

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)

## **Stratum B:**

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM diagnosis code for hemorrhagic stroke (see above).

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)

## **Stratum C:**

Discharges, for patients ages 18 years and older, with a principal ICD-9-CM diagnosis code for ischemic stroke (see above).

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)