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
4320 NONTRAUM EXTRADURAL HEM
4321  SUBDURAL HEMORRHAGE
4329  INTRACRANIAL HEMORR NOS

ICD-9-CM Ischemic stroke diagnosis codes:
43301  OCL BSLR ART W INFRC
43311  OCL CRTD ART W INFRC
43321  OCL VRTB ART W INFRC
43331  OCL MLT BI ART W INFRC
43381  OCL SPCF ART W INFRC
43391  OCL ART NOS W INFRC
43401  CRBL THRMS W INFRC
43411  CRBL EMBLSM W INFRC
43491  CRBL ART OCL NOS W INFRC
436  CVA

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)