Abdominal Aortic Aneurysm (AAA) Repair Volume
Technical Specifications

Inpatient Quality Indicators #4 (IQI #4)
AHRQ Quality Indicators™, Version 4.5, May 2013
(Revised, August 2013)
Provider-Level Indicator
Type of Score: Volume

Description

The number of hospital discharges with a procedure for abdominal aortic aneurysm (AAA) repair for patients 18 years and older or obstetric patients. Includes metrics for the number of discharges grouped by diagnosis and procedure type.

Numerator

Overall:

Discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with either

- any-listed ICD-9-CM diagnosis codes for ruptured AAA and any-listed ICD-9-CM procedure code for open AAA repair; or
- any-listed ICD-9-CM diagnosis codes for un-ruptured AAA and any-listed ICD-9-CM procedure codes for open AAA repair; or
- any-listed ICD-9-CM diagnosis codes for ruptured AAA and any-listed ICD-9-CM procedure codes for endovascular AAA repair; or
- any-listed ICD-9-CM diagnosis codes for un-ruptured AAA and any-listed ICD-9-CM procedure codes for endovascular AAA repair

ICD-9-CM Un-ruptured AAA diagnosis code:
4414  ABDOM AORTIC ANEURYSM

ICD-9-CM Ruptured AAA diagnosis code:
4413  RUPT ABD AORTIC ANEURYSM

ICD-9-CM Open AAA repair procedure codes:
3834  AORTA RESECTION & ANAST
3864  EXCISION OF AORTA
3844  RESECT ABDM AORTA W REPL

ICD-9-CM Endovascular AAA repair procedure codes:
3971  ENDO IMPL GRFT ABD AORTA
3977  TEMP ENDOVSC OCCLS VESSEL
3978  ENDOVAS IMPLN GRFT AORTA
Exclude cases:
  • with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

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

Stratum A:

Discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with any-listed ICD-9-CM diagnosis codes for ruptured AAA (see above) and any-listed ICD-9-CM procedure code for open AAA repair (see above).

Exclude cases:
  • with 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 or MDC 14 (pregnancy, childbirth, and puerperium), with any-listed ICD-9-CM diagnosis codes for un-ruptured AAA (see above) and any-listed ICD-9-CM procedure codes for open AAA repair (see above).

Exclude cases:
  • with 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 or MDC 14 (pregnancy, childbirth, and puerperium), with any-listed ICD-9-CM diagnosis codes for ruptured AAA (see above) and any-listed ICD-9-CM procedure codes for endovascular AAA repair (see above).

Exclude cases:
  • with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

Stratum D:

Discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with any-listed ICD-9-CM diagnosis codes for un-ruptured AAA (see above) and any-listed ICD-9-CM procedure codes for endovascular AAA repair (see above).
Exclude cases:

- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

**Denominator**

**Overall:**

Not applicable.

**Stratum A:**

Not applicable.

**Stratum B:**

Not applicable.

**Stratum C:**

Not applicable.

**Stratum D:**

Not applicable.