

Inpatient Quality Indicator 04 (IQI 04) Abdominal Aortic Aneurysm (AAA) Repair Volume

March 2017

Provider-Level Indicator
Type of Score: Volume

Prepared by:

Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
www.qualityindicators.ahrq.gov

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 optional metrics for the number of discharges grouped by rupture status and procedure type.

Stratification of Indicator

The indicator is stratified into four groups by 1) type of AAA repair (open vs. endovascular) and 2) AAA rupture status.

Stratum assignment

Stratum are mutually exclusive. Patients cannot qualify for more than one stratum. If patients qualify for more than one procedure, patients are assigned to the stratum with the highest risk of mortality (Stratum A, Stratum B, Stratum C, Stratum D)

Strata hierarchy (listed from highest mortality to lowest mortality):

- 1. Stratum A (Open repair of ruptured AAA)
- 2. Stratum C (Endovascular repair of ruptured AAA)
- 3. Stratum B (Open repair of unruptured AAA)
- 4. Stratum D (Endovascular repair of unruptured AAA)

March 2017 1 of 4

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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.

Un-ruptured AAA diagnosis code: (PRAAA2D)

4414 ABDOM AORTIC ANEURYSM

Ruptured AAA diagnosis code: (PRAAARD)

4413 RUPT ABD AORTIC ANEURYSM

Open AAA repair procedure codes: (PRAAARP)

3834 AORTA RESECTION & ANAST 3864 EXCISION OF AORTA

3844 RESECT ABDM AORTA W REPL

Endovascular AAA repair procedure codes: (PRAAA2P)

3971 ENDO IMPL GRFT ABD AORTA 3978 ENDOVASCULAR

IMPLANTATION OF BRANCHING OF

FENESTRATED GRAFT(S) IN

AORTA

3977 TEMPORARY (PARTIAL)

THERAPEUTIC ENDOVASCULAR

OCCLSUION OF VESSEL

March 2017 2 of 4

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NUMERATOR ABDOMINAL AORTIC ANEURYSM (AAA) REPAIR VOLUME STRATUM A: OPEN REPAIR OF RUPTURED AAA

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).

NUMERATOR ABDOMINAL AORTIC ANEURYSM (AAA) REPAIR VOLUME STRATUM B: OPEN REPAIR OF UNRUPTURED AAA

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).

NUMERATOR ABDOMINAL AORTIC ANEURYSM (AAA) REPAIR VOLUME STRATUM C: ENDOVASCULAR REPAIR OF RUPTURED AAA

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).

NUMERATOR ABDOMINAL AORTIC ANEURYSM (AAA) REPAIR VOLUME STRATUM D: ENDOVASCULAR REPAIR OF UNRUPTURED AAA

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).

March 2017 3 of 4

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NUMERATOR EXCLUSIONS

Exclude cases:

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

Note: Numerator Exclusions are identical for Overall, Stratum A, Stratum B, Stratum C and Stratum D.

March 2017 4 of 4