
2017 OPTIONS FOR INDIVIDUAL MEASURES:
REGISTRY ONLY

MEASURE TYPE:
Outcome

DESCRIPTION:
Percentage of patients undergoing open repair of small or moderate abdominal aortic aneurysms (AAA) who are discharged alive

INSTRUCTIONS:
This measure is to be reported each time a repair of abdominal aortic aneurysms (AAA) is performed during the performance period. It is anticipated that eligible clinicians who provide services of the repair of abdominal aortic aneurysms (AAA), as described in the measure, based on the services provided and the measure-specific denominator coding will report this measure. This measure may be reported by eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

Measure Reporting:
The listed denominator criteria is used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions allowed by the measure. The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

DENOMINATOR:
Patients aged 18 and older with all elective open repairs of small or moderate asymptomatic AAAs in men with < 6 cm diameter and women with < 5.5 cm diameter AAAs

Denominator Criteria (Eligible Cases):
Patients aged 18 and older
AND
Patient procedure during performance period (CPT): 35081, 35102
AND NOT
DENOMINATOR EXCLUSIONS:
For women:
Aortic aneurysm 5.5 - 5.9 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT: 9003F
OR
Aortic aneurysm 6.0 cm or greater maximum diameter on centerline formatted CT or minor diameter on axial formatted CT: 9004F
OR
Symptomatic AAAs that required urgent/emergent (non-elective) repair: G9600

For men:
Aortic aneurysm 6.0 cm or greater maximum diameter on centerline formatted CT or minor diameter on axial formatted CT: 9004F
OR
Symptomatic AAAs that required urgent/emergent (non-elective) repair: G9600

NUMERATOR:
Patients discharged alive/home following open repair of asymptomatic AAAs in men with < 6 cm diameter and women with < 5.5 cm diameter AAAs
**Numerator Instructions:** A higher calculated performance rate for this measure indicates better clinical care or control. Therefore the “Performance Met” numerator outcome option for this measure is the representation of the better clinical quality or control. Reporting that numerator outcome option will produce a performance rate that trends closer to 100%, as quality increases.

**Definition:**
**Home** – For purposes of reporting this measure, home is the point of origin prior to hospital admission prior to procedure of AAA. For example, if the patient comes from a skilled facility and returns to the skilled facility post AAA repair, this would meet criteria for discharged to home.

**Numerator Options:**

- **Performance Met:** Patient discharge to home no later than post-operative day #7 (G9601)

- **Performance Not Met:** Patient not discharged to home by post-operative day #7 (G9602)

**RATIONALE:**
Elective repair of a small or moderate sized AAA is a prophylactic procedure and the mortality/morbidity of the procedure must be contrasted with the risk of rupture over time. Surgeons should select patients for intervention who have a reasonable life expectancy and who do not have a high surgical risk. Discharge to home within one week of open AAA repair is an indicator of patients who were not frail prior to the procedure and who did not experience a major complication. The proposed measure will therefore serve as an indicator of both appropriateness and overall outcome.

**CLINICAL RECOMMENDATION STATEMENTS:**

Elective repair is recommended for patients that present with a fusiform AAA ≥ 5.5 cm in maximum diameter, in the absence of significant co-morbidities.

*Level of recommendation: Strong*

*Quality of evidence: High*

Surveillance is recommended for most patients with a fusiform AAA in the range of 4.0 cm to 5.4 cm in maximum diameter.

*Level of recommendation: Strong*

*Quality of evidence: Moderate*

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2017 Registry Individual Measure Flow

#417 (NQF 1523): Rate of Open Repair of Small or Moderate Abdominal Aortic Aneurysms (AAA) Where Patients Are Discharged Alive

Start

Denominator

No

Patient Age ≥ 18 Years on Date of Encounter

Yes

Not Included in Eligible Population/Denominator

Numerator

Yes

Procedure Codes as Listed in Denominator* (1/1/2017 thru 12/31/2017)

Patient Discharge to Home No Later than Post-Operative Day #7

Data Completeness Met + Performance Met G9601 or equivalent (5 procedures) a

Data Completeness Met + Performance Not Met G9602 or equivalent (2 procedures) c

No

No

Male Patient

Aortic Aneurysm ≥ 6.0 cm Maximum Diameter on Centerline Formatted CT or Minor Diameter on Axial Formatted CT 9004F or equivalent

Denominator Exclusion

Aortic Aneurysm 5.5-5.9 cm Maximum Diameter on Centerline Formatted CT or Minor Diameter on Axial Formatted CT 9003F or equivalent

Symptomatic AAAs that Required Urgent/Emergent (Non-Elective) Repair G9600 or equivalent

Yes

No

Include in Eligible Population/Denominator (8 procedures) d

Yes

No

*See the posted Measure Specification for specific coding and instructions to report this measure.

NOTE: Reporting Frequency: Procedure
### 2017 Registry Individual Measure Flow

**#417 (NQF 1523): Rate of Open Repair of Small or Moderate Abdominal Aortic Aneurysms (AAA) Where Patients Are Discharged Alive**

<table>
<thead>
<tr>
<th><strong>SAMPLE CALCULATIONS:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Completeness*</td>
<td></td>
</tr>
<tr>
<td>Performance Met (a=5 procedures) + Performance Not Met (c=2 procedures) = 7 procedures</td>
<td>87.50%</td>
</tr>
<tr>
<td>Eligible Population / Denominator (d=8 procedures) = 8 procedures</td>
<td></td>
</tr>
<tr>
<td>Performance Rate**</td>
<td></td>
</tr>
<tr>
<td>Performance Met (a=5 procedures) = 5 procedures</td>
<td>71.43%</td>
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<td>Data Completeness Numerator (7 procedures) = 7 procedures</td>
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**NOTE:** Reporting Frequency: Procedure

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2017 Registry Individual Measure Flow

#417 (NQF 1523): Rate of Open Repair of Small or Moderate Abdominal Aortic Aneurysms (AAA) Where Patients Are Discharged Alive

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

1. Start with Denominator

2. Check Patient Age:
   a. If the Age greater than or equal to 18 years of age on date of encounter equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
   b. If the Age greater than or equal to 18 years of age on date of encounter equals Yes during the measurement period, proceed to check Procedure Performed.

3. Check Procedure Performed:
   a. If Procedure Codes as listed in the denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Procedure Codes as listed in the denominator equals Yes, proceed to check Male Patient.

4. Check Gender Male Patient:
   a. If Male Patient equals No, proceed to check Aortic Aneurysm 5.5 through 5.9 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT.
   b. If Male Patient equals Yes, proceed to check Aortic Aneurysm greater than or equal to 6.0 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT.

5. Check Aortic Aneurysm 5.5 through 5.9 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT:
   a. If Aortic Aneurysm 5.5 through 5.9 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT equals No, proceed to check Aortic Aneurysm greater than or equal to 6.0 cm Maximum Diameter on centerline formatted CT or minor diameter on axial formatted CT.
   b. If Aortic Aneurysm 5.5 through 5.9 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT equals Yes, do not include in Eligible Patient Population. Stop Processing.

6. Check Aortic Aneurysm greater than or equal to 6.0 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT:
   a. If Aortic Aneurysm greater than or equal to 6.0 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT equals No, proceed to check Symptomatic AAA that Required Urgent/Emergent (Non-Elective) Repair.
   b. If Aortic Aneurysm greater than or equal to 6.0 cm maximum diameter on centerline formatted CT or minor diameter on axial formatted CT equals Yes, do not include in Eligible Patient Population. Stop Processing.

7. Check Urgent/Emergent Repair:
   a. If Symptomatic AAA that Required Urgent/Emergent (Non-Elective) Repair equals No, include in Eligible Population.
b. If Symptomatic AAA that Required Urgent/Emergent (Non-Elective) Repair equals Yes, do not include in Eligible Patient Population. Stop Processing.

8. Denominator Population

a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 8 procedures in the sample calculation.

9. Start Numerator

10. Check Patient Discharge to Home No Later than Post-Operative Day #7:

a. If Patient Discharge to Home No Later than Post-Operative Day #7 equals Yes, include in Data Completeness Met and Performance Met.

b. Data Completeness Met and Performance Met is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 5 procedures in Sample Calculation.

c. If Patient Discharge to Home No Later than Post-Operative Day #7 equals No, proceed to check Patient not Discharged to Home by Post-Operative Day #7.

11. Check Patient Not Discharged to Home by Post-Operative Day #7:

a. If Patient Not Discharged to Home by Post-Operative Day #7 equals Yes, include in Data Completeness Met and Performance Not Met.

b. Data Completeness Met and Performance Not Met is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 2 procedures in the Sample Calculation.

c. If Patient Not Discharged to Home by Post-Operative Day #7 equals No, proceed to Data Completeness Not Met.

12. Check Data Completeness Not Met:

a. If Data Completeness Not Met, the Quality Data Code or equivalent was not reported. 1 procedure has been subtracted from the Data Completeness numerator in sample calculation.

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