

**Quality ID #347 (NQF 1534): Rate of Endovascular Aneurysm Repair (EVAR) of Small or Moderate Non-Ruptured Infrarenal Abdominal Aortic Aneurysms (AAA) Who Are Discharged Alive – National Quality Strategy Domain: Patient Safety**

**2018 OPTIONS FOR INDIVIDUAL MEASURES:**  
**REGISTRY ONLY**

**MEASURE TYPE:**  
Outcome

**DESCRIPTION:**  
Percent of patients undergoing endovascular repair of small or moderate non-ruptured infrarenal abdominal aortic aneurysms (AAA) who are discharged alive

**INSTRUCTIONS:**  
This measure is to be submitted **each time** an EVAR is performed during the performance period. It is anticipated that eligible clinicians who provide services of EVAR, as described in the measure, based on the services provided and the measure-specific denominator coding will submit this measure. This measure may be submitted by eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

**Measure Submission:**  
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 infrarenal non-ruptured endovascular AAA repairs

**Denominator Criteria (Eligible Cases):**

Patients aged 18 and older\_

**AND**

**Diagnosis for infrarenal non-ruptured AAA (ICD-10-CM): I71.4**

**AND**

**Patient procedure during performance period (CPT): 34701, 34703, 34705**

**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**

**For men:**

**Aortic aneurysm 6.0 cm or greater maximum diameter on centerline formatted CT or minor diameter on axial formatted CT: 9004F**

**NUMERATOR:**  
Patients who are discharged alive following endovascular AAA repair

**Numerator Options:**

***Performance Met:***

Documentation of patient discharged alive following endovascular AAA repair (**G9263**)

**OR**

***Performance Not Met:***

Documentation of patient death in the hospital following endovascular AAA repair (**G9262**)

**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.

**CLINICAL RECOMMENDATION STATEMENTS:**

The care of patients with an abdominal aortic aneurysm: The Society for Vascular Surgery practice guidelines. Chaikof et al, J Vasc Surg, 50:4, supplement, 2009.

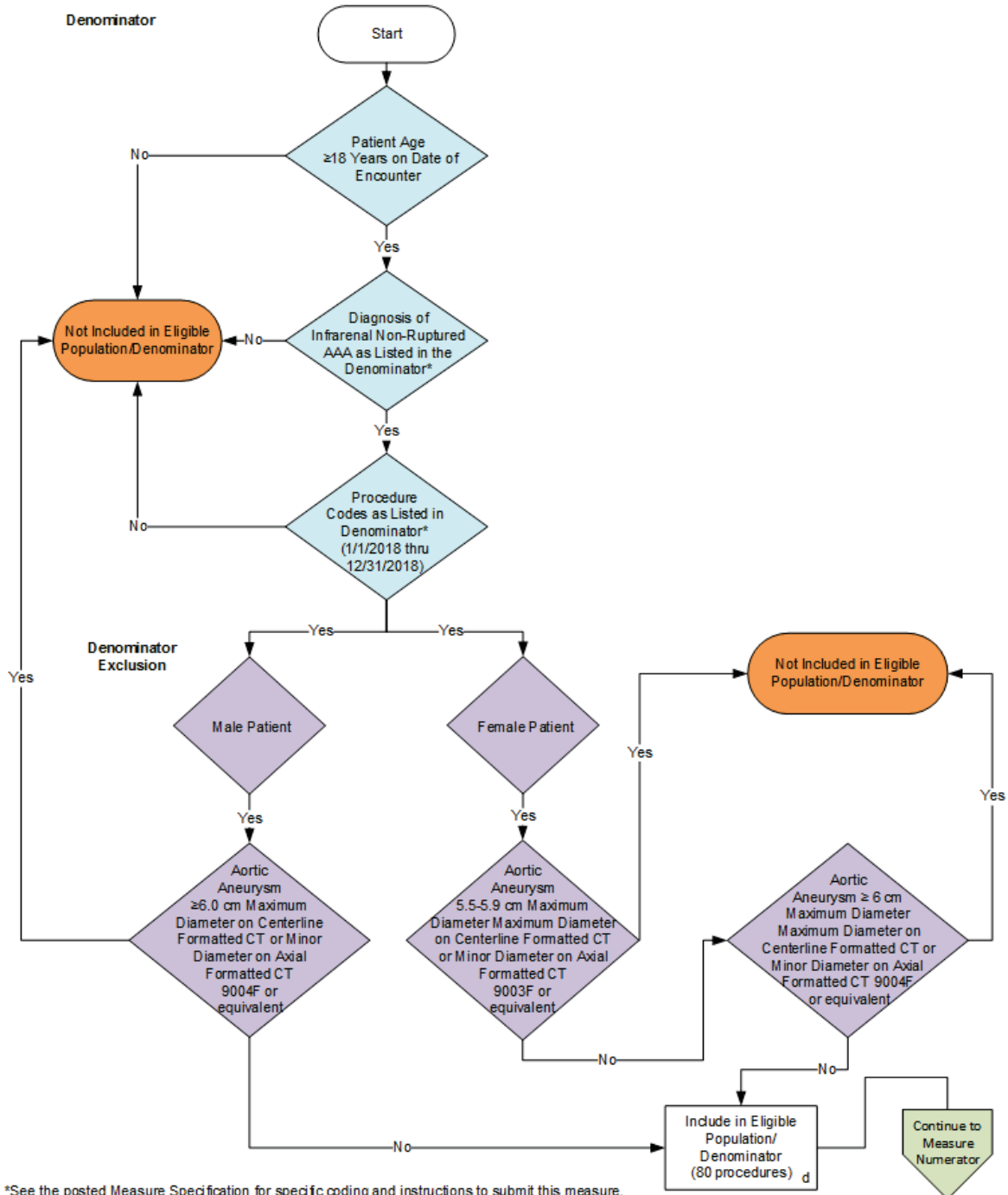
Elective repair is recommended for patients that present with a fusiform AAA  $\geq 5.5$  cm in maximum diameter, in the absence of significant co-morbidities.

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

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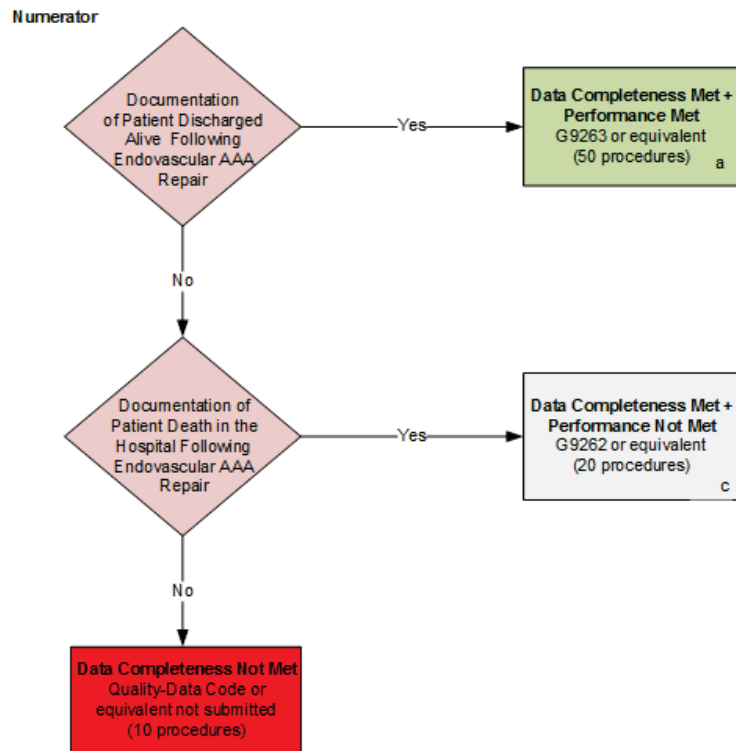
**2018 Registry Flow for Quality ID #347 (NQF 1534):  
Rate of Endovascular Aneurysm Repair (EVAR) of Small or Moderate Non-Ruptured Infrarenal  
Abdominal Aortic Aneurysms (AAA) Who Are Discharged Alive**



\*See the posted Measure Specification for specific coding and instructions to submit this measure.  
NOTE: Submission Frequency – Procedure

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**SAMPLE CALCULATION S:**

**Data Completeness=**  

$$\frac{\text{Performance Met (a=50 procedures)} + \text{Performance Not Met (c=20 procedures)}}{\text{Eligible Population / Denominator (d=80 procedures)}} = \frac{70 \text{ procedures}}{80 \text{ procedures}} = 87.50\%$$

**Performance Rate=**  

$$\frac{\text{Performance Met (a=50 procedures)}}{\text{Data Completeness Numerator (70 procedures)}} = \frac{50 \text{ procedures}}{70 \text{ procedures}} = 71.43\%$$

\*See the posted Measure Specification for specific coding and instructions to submit this measure.  
 NOTE: Submission Frequency – Procedure

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**2018 Registry Flow for Quality ID  
#347 (NQF 1534): Rate of Endovascular Aneurysm Repair (EVAR) of Small or Moderate Non-Ruptured Infrarenal Abdominal Aortic Aneurysms (AAA) Who Die While in Hospital**

Please refer to the specific section of the specification to identify the denominator and numerator information for use in submitting this Individual Specification. This flow is for registry data submission.

1. Start with Denominator
2. Check Patient Age:
  - a. If Patient Age at Date of Encounter is equal to or greater than 18 years equals No during the performance period, do not include in Eligible Patient Population. Stop Processing.
  - b. If Patient Age at Date of Encounter is equal to or greater than 18 years equals Yes during the performance period, proceed to check Diagnosis of Infrarenal Non-Ruptured AAA.
3. Check Diagnosis of Infrarenal Non-Ruptured AAA:
  - a. If Diagnosis of Infrarenal Non-Ruptured AAA equals No, do not include in the Eligible Patient Population Stop Processing.
  - b. If Diagnosis of Infrarenal Non-Ruptured AAA equals Yes, proceed to check Procedure Performed.
4. Check Procedure Performed:
  - a. If Procedure as listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Procedure as listed in the Denominator equals Yes, proceed to check Gender of Patient.
5. Check Gender of Patient:
  - a. If Patient equals Female, 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 Patient equals Male, 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.
6. 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.
7. 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, include in Eligible Population.

- 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.
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 80 procedures in the Sample Calculation.
9. Start Numerator
10. Check Documentation of Patient Discharged Alive Following Endovascular AAA Repair:
- a. If Documentation of Patient Discharged Alive Following Endovascular AAA Repair equals Yes, include in Data Completeness Met and Performance Met.
  - b. Data Completeness Met and Performance Met letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter a equals 50 procedures in the Sample Calculation.
  - c. If Documentation of Patient Discharged Alive Following Endovascular AAA Repair equals No, proceed to check Documentation of Patient Death in the Hospital Following Endovascular AAA Repair
11. Check Documentation of Patient Death in the Hospital Following Endovascular AAA Repair :
- a. If Documentation of Patient Death in the Hospital Following Endovascular AAA Repair 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 and Performance Rate in the Sample Calculation listed at the end of this document. Letter c equals 20 procedures in the Sample Calculation.
  - c. If Documentation of Patient Death in the Hospital Following Endovascular AAA Repair equals No, proceed to check Data Completeness Not Met.
12. Check Data Completeness Not Met:
- a. If Data Completeness Not Met, the Quality Data Code or equivalent was not submitted. 10 procedures have been subtracted from the Data Completeness Numerator in the Sample Calculation.

<u>SAMPLE CALCULATIONS:</u>	
<b>Data Completeness=</b>	
Performance Met (a=50 procedures) + Performance Not Met (c=20 procedures)	= 70 procedures = 87.50%
Eligible Population / Denominator (d=80 procedures)	= 80 procedures
<b>Performance Rate=</b>	
Performance Met (a =50 procedures)	= 50 procedures = 71.43%
Data Completeness Numerator (70 procedures)	= 70 procedures