Measure #421: Appropriate Assessment of Retrievable Inferior Vena Cava Filters for Removal –
National Quality Strategy Domain: Effective Clinical Care

2016 PQRS OPTIONS FOR INDIVIDUAL MEASURES:
REGISTRY ONLY

DESCRIPTION:
Percentage of patients in whom a retrievable IVC filter is placed who, within 3 months post-placement, have a
documented assessment for the appropriateness of continued filtration, device removal or the inability to contact the
patient with at least two attempts

INSTRUCTIONS:
This measure is to be reported once each time for patients with an IVC filter procedure during the reporting period.
There is no diagnosis associated with this measure. This measure may be reported by clinicians who perform the
quality actions described in the measure based on the services provided and the measure-specific denominator
coding.

NOTE: Include only patients that have IVC filter placement through September 30 of the reporting period. This will
allow the evaluation of at least 90 days of IVC filter removal within the reporting year.

Measure Reporting via Registry:
CPT codes, quality-data codes, and patient demographics are used to identify patients who are included in the
measure’s denominator. The listed numerator options are used to report the numerator of 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. There are no allowable performance exclusions for this
measure.

DENOMINATOR:
All patients who have a retrievable IVC filter placed with the intent for potential removal at time of placement

Denominator Criteria (Eligible Cases):
All patients, regardless of age
AND
Patient encounter during the reporting period (CPT): 37191
AND
Intent for Potential Removal at Time of Placement: G9539
AND
Patient alive 3 Months Post Procedure: G9540

NUMERATOR:
Number of patients that have appropriate IVC filter follow-up

Definition:
Appropriate IVC Filter follow-up - For the purposes of this measure, the appropriate follow-up would include:
1) Filter removed OR;
2) Documentation of re-assessment for the appropriateness of filter removal OR;
3) Documentation of at least two attempts to reach the patient to arrange a clinical re-assessment for the
appropriateness of filter removal

Numerator Options:
Performance Met: Filter removed within 3 months of placement (G9541)
OR
Performance Met:
Documented re-assessment for the appropriateness of filter removal within 3 months of placement (G9542)

OR
Performance Met:
Documentation of at least two attempts to reach the patient to arrange a clinical re-assessment for the appropriateness of filter removal within 3 months of placement (G9543)

OR
Performance Not Met:
Patients that do not have the filter removed, documented re-assessment for the appropriateness of filter removal, or documentation of at least two attempts to reach the patient to arrange a clinical re-assessment for the appropriateness of filter removal within 3 months of placement (G9544)

RATIONALE:
There is a need for increased physician awareness of the potential harms of inappropriate continued inferior vena cava filtration in patients with retrievable filters. Patients with retrievable inferior filters need to be carefully followed for re-assessment of the clinical need for continued inferior vena cava filtration, leading to removal of such devices when clinically appropriate. Complexities of our healthcare system, notably the use of inferior vena cava filters in the in-patient setting, followed by transfer of care to physicians in the outpatient setting highlight the importance of patient follow-up for physicians placing retrievable inferior vena cava filters.

CLINICAL RECOMMENDATION STATEMENTS:
Retrievable filter complications have been increasingly noted in the FDA MAUDE database and in the literature. Retrievable filters were designed differently than permanent filters and the incidence of device related complications with long term insertions are higher than in comparison to permanent filters. The FDA has recommended that physicians that place these filters carefully monitor these patients and remove these filters at the earliest possible time. Dedicated follow-up for IVC filters has led to an increase in retrieval rate. The FDA recommends that all physicians placing IVC Filters and those responsible for ongoing care of these patients remove the filter as soon as protection from pulmonary embolism is no longer needed. The FDA encourages follow-up on patients to consider risks and benefits of filter removal.

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2016 Registry Individual Measure Flow

PQRS #P08: Appropriate Assessment of Retrievable Inferior Vena Cava Filters for Removal

**Denominator**

- Start
  - Encounter as Listed in Denominator* (1/1/2016 thru 12/31/2016)
    - Yes
      - Intent for Potential Removal at Time of Placement GXXXX
        - Yes
          - Patient Alive 3 Months Post Procedure GXXXX
            - Yes
              - Include in Eligible Population/Denominator (8 procedures) d
            - No
              - Include in Eligible Population/Denominator (8 procedures) d
        - No
          - Not Included in Eligible Population/Denominator
  - No

**Numerator**

- Filter Removed Within 3 Months of Placement
  - Yes
    - Reporting Met + Performance Met GXXXX or equivalent (3 procedures) a^f
  - No
    - Documented Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement
      - Yes
        - Reporting Met + Performance Met GXXXX or equivalent (2 procedures) a^f
      - No
        - Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement
          - Yes
            - Reporting Met + Performance Met GXXXX or equivalent (0 procedures) a^f
          - No
            - IVC Filter not Removed, Re-assessment for the Appropriateness of Filter Removal not Done, at Least Two Attempts to Reach the Patient for Clinical Re-Assessment not Completed
              - Yes
                - Reporting Met + Performance Met GXXXX or equivalent (2 procedures) c
              - No
                - Reporting Not Met Quality-Data Code or equivalent not reported (1 procedure)

**SAMPLE CALCULATIONS:**

**Reporting Rate:**
\[
\text{Performance Met (a^f+a^g-a^h = 5 procedures) + Performance Not Met (c=2 procedures)} = \frac{7 \text{ procedures}}{8 \text{ procedures}} = 87.50\%
\]

**Performance Rate:**
\[
\text{Performance Met (a^f+a^g-a^h=5 procedures)} = \frac{5 \text{ procedures}}{7 \text{ procedures}} = 71.43\%
\]

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

Note: Reporting Frequency: Procedure
2016 Registry Individual Measure Flow
PQRS #421: Appropriate Assessment of Retrievable Inferior Vena Cava Filters for Removal

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 Encounter Performed:
   a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Encounter as Listed in the Denominator equals Yes, proceed to check Intent for Potential Removal at Time of Placement.

3. Check Intent for Potential Removal at Time of Placement:
   a. If Potential Removal at Time of Placement equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Potential Removal at Time of Placement equals Yes, proceed to check Patient Alive 3 Months Post Procedure.

4. Check Patient Alive 3 Months Post Procedure:
   b. If Patient Alive 3 Months Post Procedure equals Yes, proceed to Include in Eligible population.

5. 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.

6. Start Numerator

7. Check Filter Removed Within 3 Months of Placement:
   a. If Filter Removed Within 3 Months of Placement equals Yes, include in Reporting Met and Performance Met.
   b. Reporting Met and Performance Met letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a1 equals 3 procedures in Sample Calculation.
   c. If Filter Removed Within 3 Months of Placement equals No, proceed to Documented Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement.

8. Check Documented Re-Assessment for the Appropriateness of Filter removal with 3 Months Placement:
   a. If Documented Re-assessment for the Appropriateness of Filter Removal with 3 Months of Placement equals Yes, include in Reporting Met and Performance Met.
b. Reporting Met and Performance Met letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a2 equals 2 procedures in the Sample Calculation.

c. If Documented Re-assessment for the Appropriateness of Filter Removal with 3 Months of Placement equals No, proceed to Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement.

9. Check Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-Assessment for the Appropriateness of Filter Removal within 3 Months of Placement:

   a. If Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement equals Yes, include in Reporting Met and Performance Met.

   b. Reporting Met and Performance Met letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a3 equals 0 procedures in the Sample Calculation.

   c. If Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-Assessment for the Appropriateness of Filter Removal with 3 Months of Placement equals No, proceed to Patients that do not have the Filter Removed, Documented Re-assessment for the Appropriateness of Filter Removal, or Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-assessment for the Appropriateness of Filter Removal within 3 Months of Placement.

10. Check Patients that do not have the Filter Removed, Documented Re-assessment for the Appropriateness of Filter Removal, or Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-assessment for the Appropriateness of Filter Removal within 3 Months of Placement:

   a. If Patients that do not have the Filter Removed, Documented Re-assessment for the Appropriateness of Filter Removal, or Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-assessment for the Appropriateness of Filter Removal within 3 Months of Placement equals Yes, include in Reporting Met and Performance Not Met.

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

   c. If Patients that do not have the Filter Removed, Documented Re-assessment for the Appropriateness of Filter Removal, or Documentation of at Least Two Attempts to Reach the Patient to Arrange a Clinical Re-assessment for the Appropriateness of Filter Removal within 3 Months of Placement No, proceed to Reporting Not Met.

11. Check Reporting Not Met:

   a. If Reporting Not Met equals No, Quality Data Code or equivalent not reported. 1 procedure has been subtracted from the reporting numerator in sample calculation.
### SAMPLE CALCULATIONS:

**Reporting Rate**

\[
\text{Performance Met (a^1 + a^2 + a^3 = 5 procedures) + Performance Not Met (c+2 procedures) = 7 procedures} \\
\text{Eligible Population / Denominator (d+8 procedures) = 8 procedures} \\
\]

**Performance Rate**

\[
\text{Performance Met (a^1 + a^2 + a^3 = 5 procedures) = 5 procedures} \\
\text{Reporting Numerator (f procedures) = 7 procedures} \\
\]

<table>
<thead>
<tr>
<th>Formula</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reporting Rate</td>
<td>87.50%</td>
</tr>
<tr>
<td>Performance Rate</td>
<td>71.43%</td>
</tr>
</tbody>
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