**American College of Radiology**  
**ACR Appropriateness Criteria**

**Radiologic Management of Venous Thromboembolism-Inferior Vena Cava Filters**

**Variant 1:**  Acute venous thromboembolism (proximal deep vein thrombosis of the leg or pulmonary embolism) with no contraindication to anticoagulation.

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<tr>
<th>Procedure</th>
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<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
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<th>Final Tabulations</th>
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<td>4 (18322285)</td>
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| Retrievable IVC filter | May be appropriate | Strong | N/A | N/A | 4 | 4 | 0 3 2 4 4 1 0 0 0 |

**References**

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### Variant 2: Acute venous thromboembolism (proximal deep vein thrombosis of the leg or pulmonary embolism) with contraindication to anticoagulation, major complication of anticoagulation, or failure of anticoagulation.

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**Variant 3:** Isolated acute distal deep vein thrombosis of the leg.

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| Anticoagulation            | May be appropriate | Limited     | N/A        | N/A      | 6      | 6      | 0     |

**Study Quality**

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| Retrievable IVC filter      | Usually not appropriate | Expert Consensus | N/A | N/A | 3 | 3 | 5 | 1 | 3 | 3 | 0 | 2 | 0 | 0 | 0 |

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### Variant 4: Chronic venous thromboembolism (eg, chronic thromboembolic pulmonary hypertension).

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### Variant 5: Venous thromboembolism prophylaxis in high-risk patient (eg, major trauma, traumatic brain injury, etc).

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**References**
- Intermittent pneumatic compression devices
  - 78 (14598411)
- Prophylactic anticoagulation
  - 64 (8703169)
- retrievable IVC filter
  - 15 (22698970)
  - 19 (17070525)
  - 20 (22047757)
  - 21 (20345723)
  - 66 (16859222)
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  - 68 (17124100)
  - 69 (15041267)
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### Surveillance US

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### Variant 6: Proximal deep vein thrombosis of the leg undergoing catheter-directed thrombolysis.

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### Variant 7: Indwelling prophylactic retrievable inferior vena cava filter, resolution of risk factors for venous thromboembolism.
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References | Study Quality |
18 (16567669) | 4 |

References | Study Quality |
18 (16567669) | 4 |

**Variant 8:** Indwelling retrievable inferior vena cava filter for venous thromboembolism, now tolerating or completed therapeutic anticoagulation.

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References | Study Quality |
18 (16567669) | 4 |

References | Study Quality |
18 (16567669) | 4 |
Variant 9: Indwelling retrievable inferior vena cava filter with failed first retrieval attempt.

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<tr>
<td>Convert to permanent device</td>
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<td>Refer for surgical evaluation for retrieval</td>
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Appendix Key
A more complete discussion of the items presented below can be found by accessing the supporting documents at the designated hyperlinks.

Appropriateness Category: The panel's recommendation for a procedure based on the assessment of the risks and benefits of performing the procedure for the specified clinical scenario.

SOE: Strength of Evidence. The assessment of the amount and quality of evidence found in the peer reviewed medical literature for an appropriateness recommendation.

- References: The citation number and PMID for the reference(s) associated with the recommendation.
- Study Quality: The assessment of the quality of an individual reference based on the number of study quality elements described in the reference.

RRL: Relative Radiation Level. A population based assessment of the amount of radiation a typical patient may be exposed to during the specified procedure.

Rating: The final rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

Median: The median rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

Final tabulations: A histogram showing the number of panel members who rated the procedure as noted in the column heading (ie, 1, 2, 3, etc.).

Additional supporting documents about the AC methodology and processes can be found at www.acr.org/ac.