

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

**Radiologic Management of Iliofemoral Venous Thrombosis**

**Variant 1: Acute iliofemoral DVT with mild symptoms less than 14 days, otherwise healthy.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
Anticoagulation alone	Usually appropriate	Limited	N/A	N/A	8	8	1	0	0	1	0	0	2	5	6
		References	Study Quality												
		5 (26867832)	4												
		7 (24576432)	1												
		6 (31054748)	4												
Graded compression stocking therapy	May be appropriate	Strong	N/A	N/A	6	6	0	0	0	1	6	4	3	1	0
		References	Study Quality												
		12 (27245485)	1												
		10 (25059736)	1												
		11 (24315521)	1												
		14 (27264039)	Good												
		13 (27026391)	Good												
		9 (27058800)	Inadequate												
CDT/PMT with or without stent placement	Usually not appropriate	Strong	N/A	N/A	3	3	1	3	4	3	1	2	0	0	0
		References	Study Quality												
		8 (29211671)	1												
		3 (26853645)	1												

Surgical thrombectomy techniques	Usually not appropriate	Limited	N/A	N/A	2	2	6	3	3	1	0	0	0	0	1
		References		Study Quality											
		15 (22312072)		4											

**Variant 2: Acute iliofemoral DVT with moderate to severe symptoms present for less than 14 days, otherwise healthy.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CDT/PMT with or without stent placement	Usually appropriate	Strong	N/A	N/A	8	8	0	0	0	1	1	4	1	4	3
		References		Study Quality											
		19 (24934734)		3											
		8 (29211671)		1											
		3 (26853645)		1											
		18 (23689427)		4											
		16 (27830895)		4											
		17 (30586751)		1											
Anticoagulation alone	Usually appropriate	Limited	N/A	N/A	7	7	0	0	1	1	1	0	5	6	1
		References		Study Quality											
		5 (26867832)		4											
Surgical thrombectomy techniques	May be appropriate	Limited	N/A	N/A	5	5	0	2	2	3	5	1	1	0	0
		References		Study Quality											
		15 (22312072)		4											
		21 (29502771)		4											
		20 (20060755)		4											
		22 (9413377)		1											
		23 (28214484)		3											



References	Study Quality
28 (23761876)	4
29 (24183245)	2
27 (28667425)	4

Anticoagulation alone	May be appropriate	Limited	N/A	N/A	5	n/a	0	0	0	0	0	0	0	0	0	0
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References	Study Quality
5 (26867832)	4
24 (25502563)	4
26 (9737459)	4
25 (18241761)	4

Hybrid surgical thrombectomy with stenting	May be appropriate	Limited	N/A	N/A	4	n/a	0	0	0	0	0	0	0	0	0	0
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References	Study Quality
30 (24284504)	4
23 (28214484)	3

**Variant 5: Acute iliofemoral DVT and limb-threatening ischemia (phlegmasia cerulea dolens).**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CDT/PMT with or without stent placement	Usually appropriate	Limited	N/A	N/A	7	7	0	0	0	1	1	1	6	2	3

References	Study Quality
32 (26993678)	3
31 (24428096)	4
15 (22312072)	4
21 (29502771)	4

Surgical thrombectomy with or without stent placement	Usually appropriate	Limited	N/A	N/A	7	7	0	0	0	1	4	2	3	3	1
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References	Study Quality
32 (26993678)	3
31 (24428096)	4
15 (22312072)	4
21 (29502771)	4

Systemic thrombolysis	May be appropriate	Limited	N/A	N/A	4	4	1	2	3	3	4	1	0	0	0
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References	Study Quality
16 (27830895)	4

Anticoagulation alone	Usually not appropriate	Expert Consensus	N/A	N/A	2	2	5	3	6	1	0	0	0	0	0
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**Variant 6: Iliofemoral DVT with persistent moderate symptoms at least 3 months after initial treatment with anticoagulation alone.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
Anticoagulation alone	May be appropriate	Limited	N/A	N/A	6	6	0	0	0	1	4	5	4	0	0

References	Study Quality
5 (26867832)	4

CDT/PMT with or without stent placement	May be appropriate	Strong	N/A	N/A	6	6	0	0	0	1	1	8	3	2	0
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References	Study Quality
33 (28110873)	4
35 (24768326)	4
37 (24091759)	1
34 (23512690)	4
36 (25920630)	2

Graded compression stocking therapy	May be appropriate	Strong	N/A	N/A	6	6	0	1	0	2	2	8	1	1	0
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References	Study Quality
12 (27245485)	1
10 (25059736)	1
11 (24315521)	1
14 (27264039)	Good
13 (27026391)	Good
9 (27058800)	Inadequate

Surgical thrombectomy with or without stent placement	May be appropriate (Disagreement)	Expert Opinion	N/A	N/A	5	5	0	3	2	5	1	4	0	0	0
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References	Study Quality
39 (28731380)	4
40 (26238309)	4
38 (21890310)	4

**Variant 7: Acute iliofemoral DVT in a pregnant patient with moderate to severe symptoms.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
Anticoagulation alone	Usually appropriate	Limited	N/A	N/A	8	8	0	1	0	0	0	0	3	9	2

References	Study Quality
5 (26867832)	4
42 (25899048)	4
44 (23958068)	4
21 (29502771)	4
41 (26780741)	4
43 (29399535)	4

CDT/PMT with or without stent placement	May be appropriate	Limited	N/A	N/A	6	6	0	0	1	0	5	5	2	1	0
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References	Study Quality
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42 (25899048)	4
44 (23958068)	4
21 (29502771)	4
43 (29399535)	4

Graded compression stocking therapy	May be appropriate	Strong	N/A	N/A	5	5	0	0	1	1	6	1	4	1	0
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References	Study Quality
12 (27245485)	1
10 (25059736)	1
11 (24315521)	1
14 (27264039)	Good
13 (27026391)	Good
9 (27058800)	Inadequate

Surgical thrombectomy with or without stent placement	May be appropriate	Limited	N/A	N/A	5	5	0	1	3	3	3	3	0	1	0
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References	Study Quality
44 (23958068)	4
21 (29502771)	4
43 (29399535)	4
45 (12618687)	2

## **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](http://www.acr.org/ac).