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.

	Appropriateness	907							F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	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)		Inac	dequate										
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 approp	Limited	N/A	N/A	2	2	6	3	3	1	0	0	0	0	1
		References		Stu	dy Quality										
		15 (22312072)			4										

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

D 1	Appropriateness	COL	A L L DDI	D I DDI	D 41	3.6.11			I	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	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										

Variant 3: Acute femoropopliteal DVT with mild to moderate symptoms present for less than 14 days, otherwise healthy.

	Appropriateness	COL	A L L DDY	D 1 DD1	D 41	3.5 11			F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Anticoagulation alone	Usually appropriate	Limited	N/A	N/A	9	9	1	0	0	0	2	0	1	3	7
		References		Study	y Quality										
		5 (26867832)			4								_		
Graded compression stocking therapy	May be appropriate	Strong	N/A	N/A	6	6	0	0	0	1	5	7	2	0	0
		References		Study	y Quality										
		12 (27245485)			1										
		10 (25059736)			1										
		11 (24315521)			1										
		14 (27264039)		(Good										
		13 (27026391)		(Good										
		9 (27058800)		Inac	dequate										
CDT/PMT	Usually not appropriate	Limited	N/A	N/A	3	3	1	3	7	1	3	0	0	0	0
		References		Study	y Quality										
		8 (29211671)			1										
		15 (22312072)			4										

Variant 4: Acute iliofemoral DVT and symptoms less than 14 days. Cross-sectional imaging consistent with May-Thurner syndrome.

D 1	Appropriateness	COF	A L L DDI	n i nni	D (1	3.6.31			F	inal '	Гаbи	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CDT/PMT with or without stent placement	Usually appropriate	Limited	N/A	N/A	8	n/a	0	0	0	0	0	0	0	0	0

			References			Stud	y Quality										
			28 (23761876)				4										
			29 (24183245)				2										
			27 (28667425)				4										
Anticoagulation alone	May l appropr	be riate	Limited	N/A		N/A	5	n/a	0	0	0	0	0	0	0	0	0
			References			Stud	y Quality				•	•					
			5 (26867832)				4										
		24 (25502563)					4										
			26 (9737459)				4										
			25 (18241761)				4										
Hybrid surgical thrombectomy with stenting	May l appropr	be riate	Limited	N/A		N/A	4	n/a	0	0	0	0	0	0	0	0	0
		References				Study	y Quality										
		30 (24284504)					4										
			23 (28214484)			3											

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

D 1	Appropriateness	COE	A L L DDI	D I DDI	D 4	34.11			F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRI	Peds RRL	Rating	Median	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

			References		Ctude	Quality										
	<u> </u>		References		Study	Quanty										
			32 (26993678)			3										
			31 (24428096)			4										
			15 (22312072)			4										
		21 (29502771)				4										
Systemic thrombolysis	May b	e iate	Limited	N/A	N/A	4	4	1	2	3	3	4	1	0	0	0
			References		Study	Quality										
			16 (27830895)			4										
Anticoagulation alone	Usually appropr	not iate	Expert Consensus	N/A	N/A	2	2	5	3	6	1	0	0	0	0	0

Variant 6: Iliofemoral DVT with persistent moderate symptoms at least 3 months after initial treatment with anticoagulation alone.

D 1	Appropriateness	COF	4 1 14 DD	, D. I. D. I.	D 4	37.11			F	inal '	Tabu	latio	ns		
Procedure	Category	SOE	Adults RR	L Peds RRL	Rating	Median	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		Stu	ly 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
		References		Stud	ly Quality										
		33 (28110873)			4										
		35 (24768326)	1		4										
		37 (24091759)	ı		1										
		34 (23512690)	ı		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

			References			Study	y Quality										
			12 (27245485)				1										
			10 (25059736)				1										
			11 (24315521)				1										
			14 (27264039)			(Good										
			13 (27026391)			(Good										
			9 (27058800)		<u> </u>	Inac	dequate										
Surgical thrombectomy with or without stent placement	May b appropri (Disagree	riate	Expert Opinion	N/A		N/A	5	5	0	3	2	5	1	4	0	0	0
			References			Study	y Quality										
			39 (28731380)				4										
			40 (26238309)				4										
			38 (21890310)				4										

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

	Appropri	ateness	go. T			.	- ·				F	inal '	Tabul	latio	ns		
Procedure	Categ	ory	SOE	Adults RR	(L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Anticoagulation alone	Usua approp		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 approp	be riate	Limited	N/A		N/A	6	6	0	0	1	0	5	5	2	1	0
			References			Study	Quality										

	42 (25899048)			4										
	44 (23958068)			4										
	21 (29502771)			4										
	43 (29399535)			4										
May be appropriate	Strong	N/A	N/A	5	5	0	0	1	1	6	1	4	1	0
	References		Stud	y Quality										
	12 (27245485)			1										
	10 (25059736)			1										
	11 (24315521)			1										
	14 (27264039)			Good										
	13 (27026391)			Good										
	9 (27058800)		Ina	dequate										
May be appropriate	Limited	N/A	N/A	5	5	0	1	3	3	3	3	0	1	0
	References		Stud	y Quality										
	44 (23958068)			4										
	21 (29502771)			4										
	43 (29399535)			4										
	45 (12618687)			2										
	appropriate May be	## Add (23958068) ## 21 (29502771) ## 43 (29399535) ## Add (29399535)	## Add (23958068) ## 21 (29502771) ## 43 (29399535) May be appropriate	## Add (23958068) ## 21 (29502771) ## 43 (29399535) May be appropriate	A4 (23958068) 4 21 (29502771) 4 4 4 4 4 4 4 4 4	A4 (23958068)	44 (23958068)	44 (23958068)	44 (23958068)	44 (23958068)	A4 (23958068)	44 (23958068)	44 (23958068)	44 (23958068)

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.