

American College of Radiology
ACR Appropriateness Criteria®

Fibroids

Variant 1: Clinically suspected fibroids. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US duplex Doppler pelvis	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	9	9	0	0	1	0	0	1	1	2	7
		References		Study Quality											
		58 (12905512)		3											
		57 (23529686)		4											
		50 (26023602)		3											
		47 (33153547)		4											
		52 (29780783)		3											
		53 (11176291)		4											
		54 (16373780)		4											
		55 (1413276)		4											
		56 (8838302)		4											
US pelvis transabdominal	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	0	0	0	1	4	7
		References		Study Quality											
		46 (25652685)		4											
		45 (25767949)		4											
US pelvis transvaginal	Usually appropriate	Moderate	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	0	0	0	0	1	11
		References		Study Quality											

46 (25652685)	4
50 (26023602)	3
51 (27862503)	Good
47 (33153547)	4
48 (7800322)	4
49 (11904599)	3

MRI pelvis without and with IV contrast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	0	1	7	2	2	0
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References	Study Quality
20 (27921159)	2
39 (23563602)	3
27 (-3188535)	4
23 (23206612)	3
38 (30207503)	4
35 (31427216)	4
29 (26397344)	4
42 (21458180)	4
25 (21085962)	4
24 (21147300)	3
41 (23471598)	4
28 (10517450)	4
34 (33196375)	4
37 (30637854)	3

MRI pelvis without IV contrast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	5	5	0	0	0	0	9	2	1	0	0
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References	Study Quality
20 (27921159)	2
39 (23563602)	3
27 (-3188535)	4
23 (23206612)	3
38 (30207503)	4

35 (31427216)	4
29 (26397344)	4
42 (21458180)	4
25 (21085962)	4
24 (21147300)	3
41 (23471598)	4
28 (10517450)	4
34 (33196375)	4
37 (30637854)	3

CT pelvis with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	2	2	5	4	2	0	0	1	0	0	0
CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	8	4	0	0	0	0	0	0	0
CT pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	7	4	0	0	1	0	0	0	0

Variant 2: Known fibroids. Treatment planning. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
MRI pelvis without and with IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	1	1	3	7

References	Study Quality
68 (25596903)	3
20 (27921159)	2
70 (23943627)	3
69 (23993741)	4
39 (23563602)	3
27 (-3188535)	4

23 (23206612)	3
75 (25510445)	3
38 (30207503)	4
35 (31427216)	4
64 (20187204)	4
25 (21085962)	4
24 (21147300)	3
1 (19675331)	4
34 (33196375)	4
37 (30637854)	3
59 (12427815)	3
60 (17114543)	2
66 (17949376)	2
71 (16319152)	4

US pelvis transvaginal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	8	8	0	0	0	1	1	3	1	2	4
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References	Study Quality
46 (25652685)	4
47 (33153547)	4
48 (7800322)	4
49 (11904599)	3

US duplex Doppler pelvis	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	7	7	1	0	0	0	2	3	1	2	3
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References	Study Quality
79 (25251811)	3
50 (26023602)	3
82 (28211610)	3
24 (21147300)	3
47 (33153547)	4
49 (11904599)	3
80 (24077979)	4

		81 (11833866)		3												
US pelvis transabdominal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	7	7	0	0	0	1	2	2	2	3	2	
		References		Study Quality												
		46 (25652685)		4												
		77 (16160102)		4												
		78 (12054299)		4												
MRI pelvis without IV contrast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	0	3	5	1	2	1	
		References		Study Quality												
		68 (25596903)		3												
		20 (27921159)		2												
		70 (23943627)		3												
		69 (23993741)		4												
		39 (23563602)		3												
		27 (-3188535)		4												
		23 (23206612)		3												
		75 (25510445)		3												
		38 (30207503)		4												
		35 (31427216)		4												
		64 (20187204)		4												
		25 (21085962)		4												
		24 (21147300)		3												
		1 (19675331)		4												
		34 (33196375)		4												
		37 (30637854)		3												
		59 (12427815)		3												
		60 (17114543)		2												
		66 (17949376)		2												
		71 (16319152)		4												

CT pelvis with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	3	3	3	3	3	1	1	1	0	0	0
CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	6	4	1	1	0	0	0	0	0
CT pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	6	5	0	0	0	0	1	0	0

Variant 3: Known fibroids. Surveillance or posttreatment imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US pelvis transvaginal	Usually appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	9	9	0	0	0	0	0	1	3	2	6

References	Study Quality
97 (12452465)	2
46 (25652685)	4
77 (16160102)	4
45 (25767949)	4
47 (33153547)	4
78 (12054299)	4
96 (23465255)	4
98 (11105698)	4
99 (11287530)	4

MRI pelvis without and with IV contrast	Usually appropriate	Strong	○ ○ mSv	○ ○ mSv [ped]	8	8	0	0	0	0	2	2	2	2	4
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References	Study Quality
83 (19048334)	4
84 (23065174)	4
70 (23943627)	3

27 (-3188535)	4
85 (21654495)	3
88 (20392986)	3
93 (24962829)	3
92 (24976500)	4
86 (20149688)	4
94 (20964196)	3
25 (21085962)	4
41 (23471598)	4
1 (19675331)	4
66 (17949376)	2

US duplex Doppler pelvis	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	8	8	1	0	0	0	0	3	2	1	5
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References	Study Quality
47 (33153547)	4
81 (11833866)	3
100 (11851974)	4

US pelvis transabdominal	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	8	8	0	0	0	0	0	3	3	2	4
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References	Study Quality
46 (25652685)	4
77 (16160102)	4
78 (12054299)	4

MRI pelvis without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	4	6	1	0	0
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References	Study Quality
83 (19048334)	4
84 (23065174)	4
70 (23943627)	3
27 (-3188535)	4
85 (21654495)	3

88 (20392986)	3
93 (24962829)	3
92 (24976500)	4
86 (20149688)	4
94 (20964196)	3
25 (21085962)	4
41 (23471598)	4
1 (19675331)	4
66 (17949376)	2

CT pelvis with IV contrast	May be appropriate	Limited	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	5	5	0	0	0	0	11	1	0	0	0
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References	Study Quality
83 (19048334)	4
25 (21085962)	4
41 (23471598)	4

CT pelvis without and with IV contrast	Usually not appropriate	Limited	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	3	3	1	5	1	1	3	1	0	0	0
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References	Study Quality
83 (19048334)	4
25 (21085962)	4
41 (23471598)	4

CT pelvis without IV contrast	Usually not appropriate	Limited	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	2	2	4	4	2	0	1	1	0	0	0
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References	Study Quality
83 (19048334)	4
25 (21085962)	4
41 (23471598)	4

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.