

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

Pretreatment Evaluation and Follow-Up of Endometrial Cancer

Variant 1: Initial staging of pretreatment endometrial cancer; assessment of local tumor extension for all tumor grades.

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	0 0 mSv	0 0 mSv [ped]	8	8	0	0	0	1	1	1	0	6	8

References	Study Quality
50 (10478237)	Good
57 (19724949)	3
51 (18398926)	2
24 (22119292)	4
52 (19258956)	3
53 (15031434)	2
62 (16697034)	3
56 (19727740)	1
67 (19711413)	2
68 (18212237)	3
66 (22872453)	3
63 (22609110)	2
45 (29895385)	3
48 (29789905)	4
47 (29995239)	4
54 (29970170)	3
59 (29895387)	3
61 (25928157)	3

65 (30398217)	3
64 (27631107)	2
46 (29290687)	3
60 (29667881)	3
58 (29750540)	3
49 (28493790)	3

MRI pelvis without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	3	9	2	0	0
--------------------------------	--------------------	--------	---------	---------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
51 (18398926)	2
62 (16697034)	3
55 (25608571)	Good
63 (22609110)	2
45 (29895385)	3
48 (29789905)	4
47 (29995239)	4
54 (29970170)	3
65 (30398217)	3
64 (27631107)	2
46 (29290687)	3
49 (28493790)	3

US pelvis transvaginal	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	5	10	0	0	0
------------------------	--------------------	--------	---------	---------------	---	---	---	---	---	---	---	----	---	---	---

References	Study Quality
51 (18398926)	2
31 (22039024)	3
52 (19258956)	3
28 (26485119)	2
69 (26197857)	2

CT pelvis with IV contrast	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	0	2	5	2	6	0	0	0	0
----------------------------	--------------------	--------	--------------	---------------------	---	---	---	---	---	---	---	---	---	---	---

CT chest abdomen pelvis with IV contrast	May be appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	0	1	5	7	2	0	0	0
		References	Study Quality												
		71 (10775731)	3												
		72 (21670955)	2												
MRI abdomen without and with IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	1	0	6	8	0	0	0	0
		References	Study Quality												
		80 (28372871)	4												
MRI pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	1	3	6	5	0	0	0
		References	Study Quality												
		76 (17291252)	3												
		78 (18581404)	2												
		77 (26546334)	3												
		79 (22821394)	2												
FDG-PET/CT skull base to mid-thigh	May be appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	1	2	3	3	5	1	0	0	0
		References	Study Quality												
		19 (10928137)	2												
		73 (26823564)	Good												
		74 (30235772)	3												
US pelvis transabdominal	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	4	4	0	1	4	5	5	0	0	0	0
		References	Study Quality												
		81 (21898632)	4												
CT chest abdomen pelvis without IV contrast	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	4	3	4	4	1	0	1	0	0

			77 (26546334)		3												
			79 (22821394)		2												
FDG-PET/CT skull base to mid-thigh	Usually appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	1	1	0	4	1	3	4	3		
			References		Study Quality												
			84 (22349717)		3												
			18 (16055605)		4												
			37 (26645990)		4												
			73 (26823564)		Good												
			74 (30235772)		3												
			86 (29185901)		2												
			85 (29971187)		3												
MRI abdomen without IV contrast	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	6	7	2	0	0	0		
MRI abdomen without and with IV contrast	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	0	11	4	0	0	0		
MRI pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	0	9	4	1	1	0		
			References		Study Quality												
			76 (17291252)		3												
			78 (18581404)		2												
			77 (26546334)		3												
			79 (22821394)		2												
US abdomen	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	3	11	1	0	0	0		
			References		Study Quality												
			81 (21898632)		4												
CT chest abdomen pelvis without IV contrast	May be appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	0	0	1	9	4	0	1	0	0		

US pelvis transabdominal	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	4	4	0	1	3	4	6	1	0	0	0
		References		Study Quality											
		81 (21898632)		4											
CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕⊕ 10-30 mSv [ped]	2	2	6	3	5	0	1	0	0	0	0
Lymphangiography pelvis	Usually not appropriate	Limited	⊕⊕⊕ 1-10 mSv		1	1	12	2	2	0	0	1	0	0	0
		References		Study Quality											
		75 (3049262)		4											

Variant 4: Surveillance of asymptomatic patients with treated low- or intermediate-risk endometrial cancer.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT chest abdomen pelvis with IV contrast	Usually not appropriate	Limited	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	2	2	7	7	0	1	1	0	0	0	1
		References		Study Quality											
		88 (21752752)		4											
		19 (10928137)		2											
		89 (18386467)		4											
		87 (16556457)		4											
CT chest abdomen pelvis without IV contrast	Usually not appropriate	Limited	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	2	2	8	5	1	2	0	0	1	0	0
		References		Study Quality											
		88 (21752752)		4											
		19 (10928137)		2											
		89 (18386467)		4											

			87 (16556457)		4														
MRI abdomen without IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	5	7	1	2	0	0	0	0	0	0	0	0	0
		References			Study Quality														
			80 (28372871)		4														
MRI abdomen without and with IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	6	6	1	2	0	0	0	0	0	0	0	0	0
		References			Study Quality														
			80 (28372871)		4														
MRI pelvis without IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	8	7	0	0	0	0	0	0	1	1	0		
		References			Study Quality														
			80 (28372871)		4														
MRI pelvis without and with IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	4	10	1	0	0	0	0	0	0	0	0	0	0
		References			Study Quality														
			80 (28372871)		4														
US abdomen	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	8	8	0	0	0	0	0	0	0	0	0	0	1
		References			Study Quality														
			21 (17826824)		2														
			87 (16556457)		4														
US pelvis transabdominal	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	4	10	1	0	0	0	0	0	0	0	0	0	0
		References			Study Quality														
			21 (17826824)		2														
			87 (16556457)		4														
US pelvis transvaginal	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	4	10	0	0	0	0	0	0	0	1	0		
		References			Study Quality														

			21 (17826824)		2												
			87 (16556457)		4												
Radiography chest	Usually not appropriate	Limited	☼ <0.1 mSv	☼ <0.03 mSv [ped]	2	2	4	10	1	0	0	0	0	0	0	0	0
			References		Study Quality												
			87 (16556457)		4												
			90 (7557610)		2												
CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	1	1	10	5	1	0	0	1	0	0	0	0	0
			References		Study Quality												
			88 (21752752)		4												
			19 (10928137)		2												
			89 (18386467)		4												
			87 (16556457)		4												

Variant 5: Surveillance of asymptomatic patients with treated high-risk endometrial cancer.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations										
							1	2	3	4	5	6	7	8	9		
CT chest abdomen pelvis with IV contrast	May be appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 3-10 mSv [ped]	5	5	0	0	1	1	9	3	1	0	0		
			References		Study Quality												
			81 (21898632)		4												
			84 (22349717)		3												
			83 (19705246)		2												
			92 (25838164)		3												
CT chest abdomen pelvis without IV contrast	May be appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 3-10 mSv [ped]	4	4	0	0	2	7	4	2	0	0	0		

		References	Study Quality												
		81 (21898632)	4												
		84 (22349717)	3												
		83 (19705246)	2												
		92 (25838164)	3												
Radiography chest	May be appropriate	Limited	☼ <0.1 mSv	☼ <0.03 mSv [ped]	4	4	1	2	0	6	5	1	0	0	0
		References	Study Quality												
		87 (16556457)	4												
		90 (7557610)	2												
MRI pelvis without IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	1	3	6	5	0	0	0	0	0
		References	Study Quality												
		36 (23431227)	4												
		80 (28372871)	4												
MRI pelvis without and with IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	1	2	7	1	2	2	0	0	0
		References	Study Quality												
		36 (23431227)	4												
		80 (28372871)	4												
		93 (25969637)	4												
CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	6	7	1	1	1	1	0	0	0
		References	Study Quality												
		81 (21898632)	4												
		84 (22349717)	3												
		83 (19705246)	2												
		92 (25838164)	3												

MRI abdomen without IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	2	6	3	3	1	0	0	0	0
		References	Study Quality												
		80 (28372871)	4												
MRI abdomen without and with IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	3	5	3	1	2	1	0	0	0
		References	Study Quality												
		80 (28372871)	4												
US pelvis transabdominal	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	6	9	0	0	0	0	0	0	0
		References	Study Quality												
		21 (17826824)	2												
		87 (16556457)	4												
US pelvis transvaginal	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	6	9	0	0	0	0	0	0	0
		References	Study Quality												
		21 (17826824)	2												
		87 (16556457)	4												
US abdomen	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	1	1	9	7	0	0	0	0	0	0	1
		References	Study Quality												
		21 (17826824)	2												
		87 (16556457)	4												

Variant 6: Posttherapy evaluation of clinically suspected recurrence of known endometrial cancer.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT chest abdomen pelvis with IV contrast	Usually appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	9	9	0	0	0	0	0	1	4	3	9

		References	Study Quality												
		71 (10775731)	3												
MRI pelvis without and with IV contrast	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	8	8	0	1	0	0	1	2	4	3	6
		References	Study Quality												
		94 (17515380)	4												
		36 (23431227)	4												
		93 (25969637)	4												
		95 (23652852)	3												
FDG-PET/CT skull base to mid-thigh	Usually appropriate	Moderate	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	8	8	0	0	0	0	0	1	5	8	3
		References	Study Quality												
		97 (12846541)	3												
		96 (23107613)	Good												
MRI abdomen without and with IV contrast	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	7	7	0	0	0	0	2	2	12	0	0
		References	Study Quality												
		94 (17515380)	4												
		93 (25969637)	4												
MRI pelvis without IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	5	7	2	0	0
		References	Study Quality												
		94 (17515380)	4												
		36 (23431227)	4												
		93 (25969637)	4												
		95 (23652852)	3												
CT chest abdomen pelvis without IV contrast	May be appropriate	Limited	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	5	5	1	1	3	3	3	5	0	0	1
		References	Study Quality												
		71 (10775731)	3												

71 (10775731)

3

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.