

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

Staging and Follow-up of Ovarian Cancer

Variant 1: Initial staging of pretreatment ovarian cancer.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT abdomen and pelvis with IV contrast	Usually appropriate	Strong	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	9	9	0	0	0	1	0	1	2	1	13

References	Study Quality
59 (23994535)	2
55 (26607779)	2
69 (24725017)	2
68 (14730048)	4
5 (20858663)	3
52 (7676985)	3
43 (1947112)	3
58 (12794595)	2
39 (18519739)	2
40 (20683405)	2
60 (18704437)	3
61 (17233859)	3
63 (20981128)	4
62 (19098191)	3
64 (17264334)	3
65 (3336709)	3
66 (2917315)	3

CT abdomen and pelvis without IV contrast	May be appropriate	Strong	☼☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	4	4	0	5	1	11	1	1	0	0	0
		References	Study Quality												
		59 (23994535)	2												
		55 (26607779)	2												
		69 (24725017)	2												
		68 (14730048)	4												
		5 (20858663)	3												
		52 (7676985)	3												
		43 (1947112)	3												
		58 (12794595)	2												
		39 (18519739)	2												
		40 (20683405)	2												
		60 (18704437)	3												
		61 (17233859)	3												
		63 (20981128)	4												
		62 (19098191)	3												
		64 (17264334)	3												
		65 (3336709)	3												
		66 (2917315)	3												
		67 (3258096)	3												
CT chest abdomen pelvis without IV contrast	May be appropriate	Limited	☼☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 3-10 mSv [ped]	4	4	1	3	4	9	2	0	0	0	0
		References	Study Quality												
		70 (19955956)	4												
		71 (21193598)	2												
		72 (11222208)	4												
		73 (11566689)	4												
MRI abdomen and pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	4	4	0	3	3	5	7	1	0	0	0

References	Study Quality
75 (22302265)	3
76 (10831697)	1
8 (17433597)	Inadequate
6 (10992033)	4
7 (12432104)	4
31 (19620444)	2
78 (18485169)	3
44 (8428108)	2
77 (17157627)	4
74 (10644099)	3

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼☼ 10-30 mSv [ped]	3	3	1	5	7	4	1	1	0	0	0
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References	Study Quality
59 (23994535)	2
55 (26607779)	2
69 (24725017)	2
68 (14730048)	4
52 (7676985)	3
58 (12794595)	2
39 (18519739)	2
60 (18704437)	3
61 (17233859)	3
63 (20981128)	4
62 (19098191)	3
64 (17264334)	3
65 (3336709)	3
66 (2917315)	3
67 (3258096)	3

CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	2	4	8	3	1	0	0	1	0
		References	Study Quality												
		70 (19955956)	4												
		71 (21193598)	2												
		72 (11222208)	4												
		73 (11566689)	4												
US abdomen and pelvis transabdominal	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	3	3	6	3	4	3	1	1	0	0	0
US pelvis transvaginal	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	5	4	6	1	1	1	0	0	0
		References	Study Quality												
		80 (12034950)	2												
Fluoroscopy contrast enema	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	1	1	10	4	2	1	0	0	0	0	1
Radiography intravenous urography	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	1	1	15	1	1	0	1	0	0	0	0

Variant 2: Extent of disease in suspected or known recurrence of ovarian cancer.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT abdomen and pelvis with IV contrast	Usually appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	9	9	0	0	0	1	0	1	3	3	10
		References	Study Quality												
		59 (23994535)	2												
		86 (18418592)	3												
		87 (26745811)	3												

5 (20858663)	3
52 (7676985)	3
43 (1947112)	3
58 (12794595)	2

CT chest abdomen pelvis with IV contrast	Usually appropriate	Strong	⊛⊛⊛⊛ 10-30 mSv	⊛⊛⊛⊛ 3-10 mSv [ped]	9	9	0	0	0	1	0	0	4	4	9
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References	Study Quality
59 (23994535)	2
86 (18418592)	3
87 (26745811)	3
5 (20858663)	3
52 (7676985)	3
43 (1947112)	3
58 (12794595)	2

FDG-PET/CT skull base to mid-thigh	Usually appropriate	Strong	⊛⊛⊛⊛ 10-30 mSv	⊛⊛⊛⊛ 3-10 mSv [ped]	8	8	1	0	0	1	2	2	2	8	2
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References	Study Quality
88 (18378417)	Good
82 (24463640)	3
10 (21415197)	4
89 (17404789)	2
86 (18418592)	3
87 (26745811)	3
34 (18827492)	3
19 (16515575)	3
91 (17208284)	3
90 (11373212)	3

MRI abdomen and pelvis without and with IV contrast	May be appropriate	Moderate	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	1	5	3	8	2	0	0
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References	Study Quality
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			88 (18378417)		Good													
			14 (7480729)		3													
CT abdomen and pelvis without IV contrast	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	0	5	2	8	3	1	0	0	0			
			References		Study Quality													
			59 (23994535)		2													
			86 (18418592)		3													
			87 (26745811)		3													
			5 (20858663)		3													
			52 (7676985)		3													
			43 (1947112)		3													
			58 (12794595)		2													
CT chest abdomen pelvis without IV contrast	May be appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	1	4	2	9	2	1	0	0	0			
			References		Study Quality													
			59 (23994535)		2													
			86 (18418592)		3													
			87 (26745811)		3													
			5 (20858663)		3													
			52 (7676985)		3													
			43 (1947112)		3													
			58 (12794595)		2													
MRI abdomen and pelvis without IV contrast	May be appropriate	Moderate	○ 0 mSv	○ 0 mSv [ped]	4	4	1	3	3	8	2	2	0	0	0			
			References		Study Quality													
			88 (18378417)		Good													
			14 (7480729)		3													
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	1	5	8	3	1	1	0	0	0			

References	Study Quality
59 (23994535)	2
86 (18418592)	3
87 (26745811)	3
5 (20858663)	3
52 (7676985)	3
43 (1947112)	3
58 (12794595)	2

CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Strong	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕⊕ 10-30 mSv [ped]	3	3	2	4	8	3	1	1	0	0	0
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References	Study Quality
59 (23994535)	2
86 (18418592)	3
87 (26745811)	3
5 (20858663)	3
52 (7676985)	3
43 (1947112)	3
58 (12794595)	2

US abdomen and pelvis transabdominal	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	3	3	1	3	13	1	0	1	0	0	0
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US pelvis transvaginal	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	1	5	10	1	1	1	0	0	0
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References	Study Quality
95 (22858859)	4

Fluoroscopy contrast enema	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	13	0	3	1	0	0	0	0	1
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Radiography intravenous urography	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕ 0.3-3 mSv [ped]	1	1	15	0	2	0	1	0	0	0	0
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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.