## American College of Radiology ACR Appropriateness Criteria®

## **Ovarian Cancer Screening**

Variant 1: Adult. Ovarian cancer screening. Postmenopausal. Average risk.

ъ. 1	Appropriateness	teness ry SOE Adults RRL Peds RRL Rating Medi							I	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US pelvis transabdominal	Usually not appropriate	Strong	O 0 mSv	O 0 mSv [ped]	2	2	6	3	3	1	2	0	0	0	1
		References		Study	Quality			•			•				
		19 (22105249)			3										
		18 (16258091)			1										
		17 (19282241)													
		16 (23983047)			2										
		15 (17645503)			1										
		14 (10217079)			1										
		13 (26707054)			3										
		12 (21642681)			1										
US pelvis transvaginal	Usually not appropriate	Strong	O 0 mSv	O 0 mSv [ped]	2	2	4	7	4	0	0	0	0	0	0
		References		Study	Quality						•				
		20 (23822892)			M										
		14 (10217079)			1										
		15 (17645503)			1										
		12 (21642681)			1										
		19 (22105249)													
		21 (19305319)			1										

	_														
		16 (23983047)			2										
		13 (26707054)			3										
		17 (19282241)			1										
		18 (16258091)			1										
US color Doppler ovaries	Usually appropr	Strong	O 0 mSv	O 0 mSv [ped]	2	2	5	6	4	0	0	0	0	0	0
		References		Study	Quality										
		19 (22105249)			3										
		18 (16258091)			1										
		17 (19282241)			1										
		16 (23983047)			2										
		15 (17645503)			1										
		14 (10217079)			1										
		13 (26707054)			3										
		12 (21642681)			1										
CT abdomen and pelvis with IV contrast	Usually appropr	Limited	��� 1-10 mSv	ଡ଼େଡ଼େଡ଼ 3- 10 mSv [ped]	1	1	11	1	3	0	0	0	0	1	0
		References		Study	Quality										
		11 (20663974)			4										
CT abdomen and pelvis without IV contrast	Usually appropr	Limited	��� 1-10 mSv	���� 3- 10 mSv [ped]	1	1	11	3	2	0	0	0	0	0	0
		References		Study	Quality										
		11 (20663974)			4										
CT abdomen and pelvis without and with IV contrast	Usually appropr	Limited	���� 10-30 mSv	⊕⊕⊕⊕⊕ 0 10-30 mSv [ped]	1	1	12	2	2	0	0	0	0	0	0
		 References		Study	Quality										
		11 (20663974)			4										
MRI pelvis without IV contrast	Usually appropr	Limited	O 0 mSv	O 0 mSv [ped]	1	1	10	2	2	1	0	1	0	0	0

		References			Study	Quality										
		10 (32468105)				4										
MRI pelvis without and with IV contrast	Usuall approp	not liate Limited O 0 mSv		/	O 0 mSv [ped]	1	1	10	2	2	0	0	1	1	0	0
		References			Study	Quality										
		10 (32468105)				4										
FDG-PET/CT skull base to mid-thigh	Usuall: approp	Expert Consensus	���� 10- mSv	-30	���� 3- 10 mSv [ped]	1	1	11	2	2	0	0	0	1	0	0

Variant 2: Adult. Ovarian cancer screening. Premenopausal. Average risk.

Due so dume	Appropriateness Category  SOE Adults RRL Peds RRL Rating	Datina	Madian			F	inal '	Гаbu	latio	ns					
Procedure		SOE	Adults KKL	Peds RRL	Kating	Median	1	2	3	4	5	6	7	8	9
US pelvis transvaginal	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	2	2	8	3	3	0	0	0	1	0	1
CT abdomen and pelvis with IV contrast	Usually not appropriate	Expert Consensus	��� 1-10 mSv	���� 3- 10 mSv [ped]	1	1	13	2	0	0	0	0	1	0	0
CT abdomen and pelvis without IV contrast	Usually not appropriate	Expert Consensus	<b>≎≎≎</b> 1-10 mSv	���� 3- 10 mSv [ped]	1	1	13	2	1	0	0	0	0	0	0
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	���� 10-30 mSv	<b>99999</b> 10-30 mSv [ped]	1	1	13	2	0	0	0	0	0	1	0
MRI pelvis without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	1	1	0	1	0	0	0	0
MRI pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	1	0	1	0	0
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	���� 10-30 mSv	���� 3- 10 mSv [ped]	1	1	13	2	0	0	0	1	0	0	0

US pelvis transabdominal	Usuall approp	y not oriate	Strong	O 0 mSv	O 0 mSv [ped]	1	1	10	3	2	0	0	0	0	0	1
			References		Stud	y Quality										
			19 (22105249)			3										
			18 (16258091)			1										
			17 (19282241)			1										
			16 (23983047)		2											
			15 (17645503)		1											
			14 (10217079)			1										
			13 (26707054)			3										
			12 (21642681)		1	1										
US color Doppler ovaries	Usuall approp	y not oriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	9	3	2	0	1	0	0	0	1

Variant 3: Adult. Ovarian cancer screening. Premenopausal. High risk.

ъ .	Appropria	ateness	GOT.	4.1.14. DD		n i nni	- ·	3.6.11			F	inal '	Tabul	latio	ns		
Procedure	Catego		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US pelvis transvaginal	May l appropr		Limited	O 0 mSv	′	O 0 mSv [ped]	5	5	0	0	0	1	11	3	0	0	0
			References			Study	Quality										
		24 (16110018) 22 (16515568)					3										
		22 (16515568)					3										
		22 (16515568) 23 (16188302)					3										
			25 (19035463)				3										
			27 (28240969)				3										
			26 (23213100)				3										
US color Doppler ovaries	May t	be riate	Strong	O 0 mSv	′	O 0 mSv [ped]	5	5	0	0	0	2	11	2	0	0	0
			References			Study	Quality		-								

			19 (22105249)			3										
			18 (16258091)			1										
			17 (19282241)			1										
			16 (23983047)			2										
			15 (17645503)			1										
			14 (10217079)			1										
			13 (26707054)			3										
			12 (21642681)			1										
US pelvis transabdominal	May be appropria	e ate	Strong	O 0 mSv	O 0 mSv [ped]	4	4	0	1	0	9	4	1	0	0	0
			References		Study	Quality										
			12 (21642681)			1										
			13 (26707054)			3										
			19 (22105249)			3										
			18 (16258091)			1										
			17 (19282241)			1										
			16 (23983047)			2										
			15 (17645503)			1										
			14 (10217079)			1		_	1		1					
CT abdomen and pelvis with IV contrast	Usually r appropria		Expert Consensus	<b>≎≎≎</b> 1-10 mSv	���� 3- 10 mSv [ped]	1	1	10	3	1	0	1	0	0	1	0
CT abdomen and pelvis without IV contrast	Usually r appropria		Expert Consensus	��� 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	1	1	11	3	1	0	1	0	0	0	0
CT abdomen and pelvis without and with IV contrast	Usually r appropria		Expert Consensus	ଡ଼େଡ଼େଡ଼ 10-30 mSv	����� 10-30 mSv [ped]	1	1	10	3	1	0	1	0	0	1	0
MRI pelvis without IV contrast	Usually r appropria		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	1	0	1	0	1	0	0
MRI pelvis without and with IV contrast	Usually r appropria		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	0	0	1	1	1	0	0

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	���⊕ 10-30 mSv	���� 3- 10 mSv [ped]	1	1	12	3	0	0	1	0	0	0	0	
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## Variant 4: Adult. Ovarian cancer screening. Postmenopausal. High risk.

	Appropr	iateness gory SOE Adults RRI			D 1 DD1	<b>D</b> (1)	3.5.31			F	inal	Tabu	latio	ns		
Procedure	Cate	gory	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US pelvis transvaginal	May approp	be briate	Strong	O 0 mSv	O 0 mSv [ped]	5	5	0	0	0	1	11	3	0	0	0
			References		Study	Quality										
			29 (27102249)			3										
			28 (17077240)			1										
			27 (28240969)													
			26 (23213100)													
			25 (19035463)			3										
			24 (16110018)			3										
			23 (16188302)			3										
			22 (16515568)			3				1						
US color Doppler ovaries	May approp	be briate	Strong	O 0 mSv	O 0 mSv [ped]	5	5	0	0	0	2	11	2	0	0	0
	•		References		Study	Quality										
			19 (22105249)			3										
			18 (16258091)			1										
			17 (19282241)			1										
			16 (23983047)			2										
			15 (17645503)			1										
			14 (10217079)			1										
			13 (26707054)			3										
			12 (21642681)			1										

US pelvis transabdominal	May be appropria	e ate	Strong	O 0 mSv		O 0 mSv [ped]	4	4	0	0	0	8	6	1	0	0	0
			References			Study	Quality										
			19 (22105249)				3										
			18 (16258091)				1										
			17 (19282241)				1										
			16 (23983047)				2										
			15 (17645503)				1										
			14 (10217079)				1										
			13 (26707054)				3										
			12 (21642681)				1										
CT abdomen and pelvis with IV contrast	Usually n appropria		Limited	��� 1-10 mSv	)	���� 3- 10 mSv [ped]	2	2	8	2	3	1	0	1	0	1	0
			References			Study	Quality										
			11 (20663974)				4										
CT abdomen and pelvis without IV contrast	Usually n appropria		Limited	��� 1-10 mSv	)	���� 3- 10 mSv [ped]	1	1	9	1	5	0	0	1	0	0	0
			References			Study	Quality										
			11 (20663974)				4										
CT abdomen and pelvis without and with IV contrast	Usually n appropria		Limited	���� 10-3 mSv	30	<b>≎≎≎≎≎</b> 10-30 mSv [ped]	1	1	9	2	3	0	0	1	0	1	0
			References			Study	Quality										
			11 (20663974)				4										
MRI pelvis without IV contrast	Usually n		Limited	O 0 mSv		O 0 mSv [ped]	1	1	9	2	3	0	0	0	2	0	0
			References			Study	Quality										
			10 (32468105)				4										
MRI pelvis without and with IV contrast	Usually n		Limited	O 0 mSv		O 0 mSv [ped]	1	1	14	0	1	0	0	0	0	0	0

		References		Study	Quality										
		10 (32468105)			4		_	_							
FDG-PET/CT skull base to mid-thigh	Usually approp	Expert Consensus	���� 10-30 mSv	0	1	1	12	2	1	0	0	1	0	0	0

## **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.