

		References	Study Quality													
		50 (15018172)	4													
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	n/a	0	0	0	0	0	0	0	0	0	0

Variant 2: Clinically suspected adnexal mass, no acute symptoms. Postmenopausal. 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	Strong	○ 0 mSv	○ 0 mSv [ped]	9	n/a	0	0	0	0	0	0	0	0	0	0

References	Study Quality
42 (15032283)	3
43 (22648861)	3
37 (9618853)	3
41 (7814654)	3
39 (19574775)	3
36 (9646799)	2
34 (21211896)	3
35 (20973268)	3
23 (10739694)	3
38 (19244062)	3

US pelvis transvaginal	Usually appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	9	n/a	0	0	0	0	0	0	0	0	0	0
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References	Study Quality
29 (7938766)	4
5 (16126262)	4
30 (11717074)	4
32 (11169340)	4
27 (12962948)	4

28 (15672002)	4
51 (18536617)	4
52 (1509047)	4

US pelvis transabdominal	Usually appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	8	n/a	0	0	0	0	0	0	0	0	0
MRI pelvis without and with IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	n/a	0	0	0	0	0	0	0	0	0

References	Study Quality
42 (15032283)	3
44 (24183731)	4
48 (25153677)	3
45 (15710137)	2
47 (16928938)	2
46 (12704041)	2

MRI pelvis without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	4	n/a	0	0	0	0	0	0	0	0	0
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References	Study Quality
15 (22095438)	2
49 (7824738)	2

CT pelvis with IV contrast	Usually not appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	3	n/a	0	0	0	0	0	0	0	0	0
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References	Study Quality
50 (15018172)	4

CT pelvis without IV contrast	Usually not appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	2	n/a	0	0	0	0	0	0	0	0	0
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References	Study Quality
50 (15018172)	4

CT pelvis without and with IV contrast	Usually not appropriate	Limited	☹☹☹☹ 10-30 mSv	☹☹☹☹ 3-10 mSv [ped]	2	n/a	0	0	0	0	0	0	0	0	0
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References	Study Quality
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CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	2	n/a	0	0	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]	2	n/a	0	0	0	0	0	0	0	0	0
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	☹☹☹☹ 10-30 mSv	☹☹☹☹ 3-10 mSv [ped]	1	n/a	0	0	0	0	0	0	0	0	0

Variant 5: Adnexal mass, indeterminate, no acute symptoms. Premenopausal. Initial follow-up.

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	1	0	0	0	0	0	0	0	2	16
		References		Study Quality												
		7 (28266033)		4												
US duplex Doppler pelvis	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	8	8	0	1	0	0	1	3	2	4	8	
US pelvis transabdominal	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	8	8	0	1	0	1	0	1	3	6	7	
MRI pelvis without and with IV contrast	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	7	7	0	0	1	0	1	5	5	6	1	
MRI pelvis without IV contrast	May be appropriate	Strong	○ ○ mSv	○ ○ mSv [ped]	5	5	0	0	1	4	6	3	4	1	0	
		References		Study Quality												
		15 (22095438)		2												
		49 (7824738)		2												
CT pelvis with IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	2	2	3	11	0	1	0	1	0	0	0	

CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	5	7	4	1	0	2	0	0	0
CT pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	3	9	1	0	1	2	0	0	0
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	3	0	0	0	0	0	1	0

Variant 6: Adnexal mass, indeterminate, no acute symptoms. Postmenopausal. Initial follow-up.

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	1	0	0	0	0	0	2	2	14	
		References	Study Quality													
		51 (18536617)	4													
		52 (1509047)	4													
US duplex Doppler pelvis	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	8	8	0	1	0	1	0	2	2	4	9	
US pelvis transabdominal	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	8	8	0	1	0	1	0	1	4	5	7	
MRI pelvis without and with IV contrast	Usually appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	7	7	0	0	1	1	0	4	5	5	3	
MRI pelvis without IV contrast	May be appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	6	6	0	0	0	4	1	10	0	0	1	
		References	Study Quality													
		49 (7824738)	2													
CT pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	5	5	3	10	0	0	0	2	0	1	0	

CT pelvis with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	3	11	0	0	0	1	0	1	0
CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	2	2	5	9	0	1	0	0	0	1	0
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	1	0	0	1	1	0	1	0

Variant 7: Adnexal mass, highly suspicious for malignancy, no acute symptoms. Premenopausal and postmenopausal. Initial follow-up.

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	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	8	8	0	0	1	0	1	1	0	8	6
		References		Study Quality											
		6 (29724422)		4											
MRI pelvis without and with IV contrast	Usually appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	7	7	0	0	0	2	2	2	9	0	1
US pelvis transabdominal	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	0	2	4	7	1	0	2
US pelvis transvaginal	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	0	2	4	6	1	0	3
CT pelvis with IV contrast	May be appropriate (Disagreement)	Expert Opinion	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	5	5	2	1	3	1	1	1	6	1	0
CT pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	5	5	2	2	3	1	0	5	2	1	0
MRI pelvis without IV contrast	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	2	6	6	1	0	0	1

40 (8497367)	2
34 (21211896)	3
35 (20973268)	3
23 (10739694)	3
38 (19244062)	3
57 (9583073)	3

US pelvis transabdominal	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	9	9	0	1	0	0	0	2	3	3	10
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References	Study Quality
54 (2188180)	4
53 (16024535)	4

US pelvis transvaginal	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	9	9	1	0	0	0	0	0	0	2	16
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References	Study Quality
29 (7938766)	4
5 (16126262)	4
30 (11717074)	4
2 (26800772)	2
27 (12962948)	4
28 (15672002)	4
33 (24327552)	Good

MRI pelvis without IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	3	12	0	1	0
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References	Study Quality
58 (28668416)	2

MRI pelvis without and with IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	3	3	2	6	6	0	1	1	0	0	0
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References	Study Quality
58 (28668416)	2

CT pelvis with IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	1	1	10	6	2	0	0	0	0	0	1
CT pelvis without IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	1	1	10	7	0	1	0	0	0	0	1
CT pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	☹☹☹☹ 10-30 mSv	☹☹☹☹ 3-10 mSv [ped]	1	1	11	5	2	0	0	0	0	0	1
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Limited	☹☹☹☹ 10-30 mSv	☹☹☹☹ 3-10 mSv [ped]	1	1	15	1	1	0	0	1	0	0	1

References	Study Quality
20 (12034950)	2

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.