

MRI pelvis without and with IV contrast	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	7	7	0	0	0	0	2	3	4	3	3
		References	Study Quality												
		7 (26849153)	4												
		31 (25966291)	4												
		29 (17477959)	3												
		28 (17467392)	4												
		32 (23652852)	3												
		30 (28108013)	3												
		20 (28726120)	Good												
		33 (27504126)	3												
		34 (18780318)	3												
CT chest with IV contrast	May be appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	6	6	0	1	0	2	4	8	0	0	0
		References	Study Quality												
		13 (29185901)	2												
		14 (8748186)	4												
		15 (28721896)	4												
		16 (25564063)	4												
		17 (25715766)	4												
CT chest without IV contrast	May be appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	6	6	0	0	0	1	6	5	2	1	0
		References	Study Quality												
		13 (29185901)	2												
		14 (8748186)	4												
		15 (28721896)	4												
		16 (25564063)	4												
		17 (25715766)	4												
MRI abdomen and pelvis without and with IV contrast	May be appropriate	Moderate	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	4	8	1	1	0

References	Study Quality
29 (17477959)	3
28 (17467392)	4
30 (28108013)	3
20 (28726120)	Good

MRI abdomen and pelvis without IV contrast	May be appropriate	Moderate	0 0 mSv	0 0 mSv [ped]	5	5	0	0	1	3	9	2	0	0	0
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References	Study Quality
29 (17477959)	3
28 (17467392)	4
30 (28108013)	3
20 (28726120)	Good

MRI pelvis without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	5	5	0	0	0	3	6	4	1	1	0
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References	Study Quality
7 (26849153)	4
31 (25966291)	4
29 (17477959)	3
28 (17467392)	4
32 (23652852)	3
30 (28108013)	3
20 (28726120)	Good
33 (27504126)	3
34 (18780318)	3

CT abdomen and pelvis without IV contrast	Usually not appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	1	2	5	1	4	1	1	0	0
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References	Study Quality
18 (15936553)	3
19 (16361632)	3
22 (11533097)	3
20 (28726120)	Good

21 (24219735)	4
23 (27178725)	3
24 (28183074)	3

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	4	4	5	1	0	1	0	0	0
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References	Study Quality
18 (15936553)	3
19 (16361632)	3
22 (11533097)	3
20 (28726120)	Good
21 (24219735)	4
23 (27178725)	3
24 (28183074)	3

CT chest without and with IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	2	2	6	4	2	0	1	1	1	0	0
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References	Study Quality
13 (29185901)	2
14 (8748186)	4
15 (28721896)	4
16 (25564063)	4
17 (25715766)	4

US abdomen and pelvis transabdominal	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	2	2	5	6	2	0	0	1	0	1	0
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US pelvis transvaginal	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	2	2	2	12	1	0	0	0	0	0	0
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References	Study Quality
35 (24257560)	3
36 (26294324)	3
37 (27022170)	3

27 (-3180686)	4
33 (27504126)	3
34 (18780318)	3

CT chest without IV contrast	May be appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	0	0	0	9	3	2	1	0
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References	Study Quality
13 (29185901)	2
41 (29470614)	3
14 (8748186)	4
15 (28721896)	4
16 (25564063)	4
17 (25715766)	4

MRI abdomen and pelvis without IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	2	9	3	1	0	0
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References	Study Quality
7 (26849153)	4
31 (25966291)	4
29 (17477959)	3
22 (11533097)	3
30 (28108013)	3
23 (27178725)	3
27 (-3180686)	4
33 (27504126)	3
34 (18780318)	3

MRI pelvis without IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	1	1	9	3	1	0	0
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References	Study Quality
7 (26849153)	4
31 (25966291)	4
29 (17477959)	3
28 (17467392)	4

22 (11533097)	3
32 (23652852)	3
30 (28108013)	3
23 (27178725)	3
27 (-3180686)	4
33 (27504126)	3
34 (18780318)	3

CT abdomen and pelvis without IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	1	5	8	0	1	0	0	0	0
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References	Study Quality
29 (17477959)	3
44 (14529663)	4
22 (11533097)	3
30 (28108013)	3
21 (24219735)	4
23 (27178725)	3
41 (29470614)	3

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	5	2	3	1	2	1	1	0	0
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References	Study Quality
29 (17477959)	3
44 (14529663)	4
22 (11533097)	3
30 (28108013)	3
21 (24219735)	4
23 (27178725)	3
41 (29470614)	3

CT chest without and with IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	4	5	4	1	0	1	0	0	0
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References	Study Quality
13 (29185901)	2
41 (29470614)	3
14 (8748186)	4
15 (28721896)	4
16 (25564063)	4
17 (25715766)	4

US abdomen and pelvis transabdominal	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	2	2	6	4	3	0	2	0	0	0	0
US pelvis transvaginal	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	2	2	4	6	2	1	1	1	0	0	0

References	Study Quality
39 (19705403)	2
45 (25368452)	4

Fluoroscopy contrast enema	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	10	3	1	1	0	0	0	0	0
Radiography intravenous urography	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕ 0.3-3 mSv [ped]	1	1	9	4	1	0	0	1	0	0	0

Variant 3: Vaginal Cancer. Suspected or known recurrence. Evaluate extent of disease. 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	Limited	○ 0 mSv	○ 0 mSv [ped]	8	8	0	0	0	1	0	2	4	5	3

References	Study Quality
7 (26849153)	4
31 (25966291)	4
29 (17477959)	3

28 (17467392)	4
32 (23652852)	3
30 (28108013)	3
33 (27504126)	3
34 (18780318)	3

FDG-PET/CT skull base to mid-thigh	Usually appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	8	8	0	0	0	0	1	0	1	8	5
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References	Study Quality
29 (17477959)	3
47 (23369941)	2
32 (23652852)	3
30 (28108013)	3
27 (-3180686)	4

CT abdomen and pelvis with IV contrast	Usually appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	0	0	0	2	4	5	4	0
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References	Study Quality
19 (16361632)	3
22 (11533097)	3
23 (27178725)	3
24 (28183074)	3

CT chest with IV contrast	Usually appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	0	0	1	4	1	3	5	1
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References	Study Quality
13 (29185901)	2
14 (8748186)	4
15 (28721896)	4
16 (25564063)	4
17 (25715766)	4

MRI abdomen and pelvis without and with IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	3	5	4	3	0
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References	Study Quality
29 (17477959)	3
32 (23652852)	3
30 (28108013)	3

CT chest without IV contrast	May be appropriate	Moderate	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	5	5	0	0	1	0	7	3	3	1	0
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References	Study Quality
13 (29185901)	2
14 (8748186)	4
15 (28721896)	4
16 (25564063)	4
17 (25715766)	4

MRI abdomen and pelvis without IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	1	4	4	5	1	0	0
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References	Study Quality
29 (17477959)	3
32 (23652852)	3
30 (28108013)	3

MRI pelvis without IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	0	3	5	5	2	0	0
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References	Study Quality
7 (26849153)	4
31 (25966291)	4
29 (17477959)	3
28 (17467392)	4
32 (23652852)	3
30 (28108013)	3
33 (27504126)	3
34 (18780318)	3

Fluoroscopy contrast enema	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	8	3	2	0	2	0	0	0	0
Radiography intravenous urography	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	1	1	11	2	1	1	0	0	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.