

36 (28287945)	4
37 (23999759)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3

CT chest without IV contrast	Usually not appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	2	2	4	5	1	1	3	2	0	0	0
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References	Study Quality
19 (16816073)	4
20 (-3131525)	4
36 (28287945)	4
37 (23999759)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3

CT chest without and with IV contrast	Usually not appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	2	2	2	10	2	0	0	0	0	0	0
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References	Study Quality
19 (16816073)	4
20 (-3131525)	4
36 (28287945)	4
37 (23999759)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4

CT chest with IV contrast	Usually appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	0	0	1	5	1	6	1	2
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References	Study Quality
7 (25341573)	4
19 (16816073)	4
20 (-3131525)	4
36 (28287945)	4
37 (23999759)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
60 (22730711)	4

MRI pelvis without and with IV contrast	Usually appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	7	7	0	0	0	0	3	0	7	4	0
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References	Study Quality
14 (26775357)	4
15 (23159816)	4
17 (27424358)	2
44 (25126425)	4
46 (28189211)	3
52 (21738043)	4
61 (16546459)	4
65 (27001388)	4

MRI head without and with IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	0	0	4	6	2	2	0
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References	Study Quality
6 (26092638)	4
12 (25118474)	4
16 (23803756)	4

15 (23159816)	4
17 (27424358)	2
44 (25126425)	4
46 (28189211)	3
52 (21738043)	4
61 (16546459)	4
65 (27001388)	4

FDG-PET/CT skull base to mid-thigh	May be appropriate	Limited	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗⊗ 10-30 mSv [ped]	5	5	0	0	1	1	9	0	3	0	0
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References	Study Quality
47 (26868372)	4
66 (16220307)	3
67 (17218850)	4
68 (23314259)	3
69 (16356798)	4

CT abdomen and pelvis without IV contrast	Usually not appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	3	3	3	4	2	3	2	0	0	0	0
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References	Study Quality
6 (26092638)	4
36 (28287945)	4

MRI head without IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	0	5	3	0	5	0	1	0	0
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References	Study Quality
6 (26092638)	4
12 (25118474)	4
16 (23803756)	4
61 (16546459)	4
62 (20795342)	4

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	3	5	4	0	2	0	0	0	0
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References	Study Quality
6 (26092638)	4
36 (28287945)	4

CT chest without and with IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	1	8	4	0	1	0	0	0	0
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References	Study Quality
7 (25341573)	4
19 (16816073)	4
20 (-3131525)	4
37 (23999759)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
60 (22730711)	4

CT head without IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	2	2	1	7	1	1	4	0	0	0	0
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References	Study Quality
6 (26092638)	4
12 (25118474)	4
16 (23803756)	4
37 (23999759)	4
43 (26896825)	4
61 (16546459)	4
62 (20795342)	4

FDG-PET/CT skull base to mid-thigh	May be appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	5	5	0	0	1	1	7	4	1	0	0
		References	Study Quality												
		10 (20673583)	4												
		66 (16220307)	3												
		67 (17218850)	4												
		69 (16356798)	4												
		72 (17165434)	4												
CT abdomen and pelvis without IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	2	5	1	0	4	1	0	1	0
		References	Study Quality												
		16 (23803756)	4												
		18 (20495216)	4												
CT head without IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	3	3	2	5	1	0	6	0	0	0	0
		References	Study Quality												
		6 (26092638)	4												
Radiography chest	Usually not appropriate	Expert Consensus	☼ <0.1 mSv	☼ <0.03 mSv [ped]	3	3	1	5	4	1	2	0	0	1	0
CT chest without and with IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	2	6	2	1	1	1	0	1	0
		References	Study Quality												
		16 (23803756)	4												
		18 (20495216)	4												
		71 (16404359)	3												

Variant 4: Assessment of complications: GTD and GTN.

CT abdomen and pelvis without IV contrast	May be appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	5	5	0	0	0	1	7	4	1	1	0
		References	Study Quality												
		16 (23803756)	4												
CT abdomen and pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	☹☹☹☹ 10-30 mSv	☹☹☹☹☹ 10-30 mSv [ped]	5	6	1	0	1	2	3	5	1	1	0
		References	Study Quality												
		16 (23803756)	4												
CT chest without IV contrast	May be appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	5	5	0	0	0	0	10	2	1	1	0
		References	Study Quality												
		44 (25126425)	4												
		45 (22085657)	4												
CT chest without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	5	5	0	2	1	2	5	1	2	1	0
		References	Study Quality												
		44 (25126425)	4												
		45 (22085657)	4												
CT head with IV contrast	May be appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹ 0.3-3 mSv [ped]	5	5	0	0	2	0	7	3	4	0	0
		References	Study Quality												
		16 (23803756)	4												
CT head without and with IV contrast	May be appropriate	Limited	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	5	5	0	0	0	0	11	2	0	1	0
		References	Study Quality												
		16 (23803756)	4												
MRI head without IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	5	5	0	0	0	0	11	2	0	1	0

		References		Study Quality														
		16 (23803756)		4														
MRI pelvis without IV contrast	May be appropriate	Limited	0 mSv	0 mSv [ped]	5	5	0	0	1	1	7	4	0	1	0			
		References		Study Quality														
		75 (29052024)		4														
MRI pelvis without and with IV contrast	May be appropriate	Limited	0 mSv	0 mSv [ped]	5	5	0	0	0	2	8	4	2	0	0			
		References		Study Quality														
		75 (29052024)		4														
US pelvis transabdominal	May be appropriate	Limited	0 mSv	0 mSv [ped]	5	5	0	0	0	1	7	4	1	1	0			
		References		Study Quality														
		32 (23416812)		3														
		37 (23999759)		4														
Radiography chest	May be appropriate	Limited	<0.1 mSv	<0.03 mSv [ped]	5	5	0	0	1	2	7	3	0	1	0			
		References		Study Quality														
		44 (25126425)		4														
		45 (22085657)		4														
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	10-30 mSv	10-30 mSv [ped]	2	2	5	5	2	0	2	1	0	0	1			

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.