

20 (-3131525)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
37 (23999759)	4

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
------------------------------	-------------------------	---------	--------------	---------------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
19 (16816073)	4
36 (28287945)	4
20 (-3131525)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
37 (23999759)	4

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
---------------------------------------	-------------------------	---------	--------------	---------------------	---	---	---	----	---	---	---	---	---	---	---

References	Study Quality
19 (16816073)	4
36 (28287945)	4
20 (-3131525)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Limited	☢☢☢☢ 10-30 mSv	☢☢☢☢ 3-10 mSv [ped]	2	2	8	6	0	0	2	0	0	0	0
		References		Study Quality											
		47 (26868372)		4											
MRI head without IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	1	1	10	4	1	0	0	0	0	1	0
		References		Study Quality											
		43 (26896825)		4											
		37 (23999759)		4											
MRI head without and with IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	1	1	9	4	0	0	2	0	0	1	0
		References		Study Quality											
		43 (26896825)		4											
		37 (23999759)		4											

Variant 2: Staging and risk assessment: suspected or established diagnosis of gestational trophoblastic neoplasia (GTN).

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	○ 0 mSv	○ 0 mSv [ped]	9	9	0	0	1	0	0	1	2	3	9
		References		Study Quality											
		44 (25126425)		4											
		15 (23159816)		4											
		37 (23999759)		4											
		45 (22085657)		4											
		51 (22696814)		4											
		52 (21738043)		4											
		53 (25396428)		3											
		54 (9808132)		4											

			55 (22807194)		4													
US duplex Doppler pelvis	Usually appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	8	8	0	0	0	0	0	1	4	7	2			
		References		Study Quality														
			34 (26735221)		4													
			56 (22374461)		3													
			57 (22262502)		3													
			58 (23759086)		3													
			59 (26257463)		2													
US pelvis transabdominal	Usually appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	8	8	0	0	0	0	1	0	5	7	1			
		References		Study Quality														
			32 (23416812)		3													
Radiography chest	Usually appropriate	Limited	⊕ <0.1 mSv	⊕ <0.03 mSv [ped]	8	8	0	0	1	1	1	1	3	4	5			
		References		Study Quality														
			6 (26092638)		4													
			7 (25341573)		4													
			36 (28287945)		4													
			20 (-3131525)		4													
			38 (26270122)		4													
			39 (3016626)		3													
			60 (22730711)		4													
CT abdomen and pelvis with IV contrast	Usually appropriate	Limited	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	7	7	0	0	1	0	6	1	5	1	2			
		References		Study Quality														
			6 (26092638)		4													
			36 (28287945)		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			

References	Study Quality
7 (25341573)	4
19 (16816073)	4
36 (28287945)	4
20 (-3131525)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
37 (23999759)	4
60 (22730711)	4

MRI pelvis without and with IV contrast	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	7	7	0	0	0	0	3	0	7	4	0
---	---------------------	---------	---------	---------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
44 (25126425)	4
14 (26775357)	4
15 (23159816)	4
17 (27424358)	2
46 (28189211)	3
52 (21738043)	4
61 (16546459)	4
65 (27001388)	4

MRI head without and with IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	4	6	2	2	0
---------------------------------------	--------------------	---------	---------	---------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
6 (26092638)	4
12 (25118474)	4
16 (23803756)	4
61 (16546459)	4
62 (20795342)	4

CT chest without IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	0	0	1	8	1	2	2	0
------------------------------	--------------------	---------	--------------	---------------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
7 (25341573)	4
19 (16816073)	4
36 (28287945)	4
20 (-3131525)	4
38 (26270122)	4
39 (3016626)	3
40 (19480243)	3
41 (19019416)	4
42 (17765466)	3
37 (23999759)	4
60 (22730711)	4

CT head with IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	5	5	0	0	1	2	10	2	1	0	0
--------------------------	--------------------	---------	--------------	---------------------	---	---	---	---	---	---	----	---	---	---	---

References	Study Quality
6 (26092638)	4
12 (25118474)	4
16 (23803756)	4
43 (26896825)	4
37 (23999759)	4
61 (16546459)	4
62 (20795342)	4

MRI pelvis without IV contrast	May be appropriate (Disagreement)	Expert Opinion	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	2	1	6	3	1	1	0
--------------------------------	-----------------------------------	----------------	---------	---------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
44 (25126425)	4
14 (26775357)	4
15 (23159816)	4

17 (27424358)	2
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	⊕⊕⊕⊕ 3-10 mSv [ped]	5	5	0	0	1	1	9	0	3	0	0
------------------------------------	--------------------	---------	----------------	---------------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
67 (17218850)	4
47 (26868372)	4
66 (16220307)	3
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
---	-------------------------	---------	--------------	---------------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
6 (26092638)	4
36 (28287945)	4

MRI head without IV contrast	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	3	3	0	5	3	0	5	0	1	0	0
------------------------------	-------------------------	---------	---------	---------------	---	---	---	---	---	---	---	---	---	---	---

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
--	-------------------------	---------	----------------	-----------------------	---	---	---	---	---	---	---	---	---	---	---

References	Study Quality
------------	---------------

CT chest with IV contrast	Usually appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	0	1	0	5	2	3	3	2
		References	Study Quality												
		44 (25126425)	4												
		45 (22085657)	4												
US pelvis transvaginal	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	7	7	0	0	0	0	4	1	4	3	4
		References	Study Quality												
		44 (25126425)	4												
		61 (16546459)	4												
CT head without IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	6	6	0	0	0	1	6	6	0	1	0
		References	Study Quality												
		16 (23803756)	4												
MRI head without and with IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	7	4	3	1	0
		References	Study Quality												
		16 (23803756)	4												
US duplex Doppler pelvis	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	1	0	5	3	1	3	3
		References	Study Quality												
		44 (25126425)	4												
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	5	1	0	1	2	3	5	1	1	0

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	⊛⊛⊛⊛ 3-10 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.