

22 (19571281)	1
23 (16151765)	1
24 (15620991)	Good
25 (21587082)	2
26 (24082283)	3
27 (26013292)	4
28 (-3127897)	4
29 (18024539)	3
30 (17588407)	3
31 (21330566)	Good
32 (9724372)	2
33 (15140545)	3
34 (21354739)	Good
35 (19144446)	3
36 (12665681)	4
37 (9636830)	3

MRI head without and with IV contrast	Usually appropriate	Limited	0 0 mSv	0 0 mSv [ped]	8	8	0	0	0	0	0	3	2	3	5
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References	Study Quality
11 (23649440)	4
40 (14568686)	3
39 (17762336)	4
41 (10189463)	2
42 (6094117)	4

CT chest without IV contrast	Usually appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	7	7	0	1	0	0	2	2	3	3	2
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References	Study Quality
11 (23649440)	4
12 (12527573)	4
13 (16731115)	3
14 (18291191)	2

MRI head without IV contrast	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	5	5	0	0	4	1	5	3	0	0	0
		References	Study Quality												
		11 (23649440)	4												
		40 (14568686)	3												
Tc-99m bone scan whole body	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	1	0	1	4	5	2	0	0	0
		References	Study Quality												
		34 (21354739)	Good												
		35 (19144446)	3												
		38 (21094027)	Good												
CT abdomen and pelvis without IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	2	0	3	3	5	0	0	0	0
		References	Study Quality												
		11 (23649440)	4												
CT abdomen and pelvis without and with IV contrast	May be appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	4	4	1	0	3	3	4	2	0	0	0
		References	Study Quality												
		11 (23649440)	4												
MRI abdomen without IV contrast	May be appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	4	4	1	0	3	5	4	0	0	0	0
CT head without IV contrast	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	3	3	3	1	6	1	2	0	0	0	0
		References	Study Quality												
		11 (23649440)	4												
		43 (1902031)	4												
		44 (10084481)	3												

MRI chest without IV contrast	Usually not appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	3	3	2	1	4	4	1	1	0	0	0	
		References	Study Quality													
		45 (18349458)	4													
		46 (18373824)	3													
		47 (16028243)	3													
		48 (23593186)	2													
CT chest without and with IV contrast	Usually not appropriate	Limited	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	8	2	2	0	0	0	0	1	0	
		References	Study Quality													
		11 (23649440)	4													
		12 (12527573)	4													
		13 (16731115)	3													
		14 (18291191)	2													
		15 (28651988)	4													
Radiography chest	Usually not appropriate	Expert Consensus	⊕ <0.1 mSv	⊕ <0.03 mSv [ped]	1	1	7	1	4	0	0	0	0	1	0	

Variant 2: Noninvasive initial clinical staging of small-cell lung carcinoma.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations									
							1	2	3	4	5	6	7	8	9	
CT chest with IV contrast	Usually appropriate	Limited	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	9	9	0	0	0	0	0	1	1	2	9	
		References	Study Quality													
		50 (25310425)	4													
		51 (23649448)	4													
MRI head without and with IV contrast	Usually appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	9	9	0	0	0	0	0	0	1	4	8	

MRI abdomen without and with IV contrast	May be appropriate	Moderate	○ 0 mSv	○ 0 mSv [ped]	5	5	1	0	1	0	5	5	1	0	0
		References	Study Quality												
		49 (23549390)	4												
		31 (21330566)	Good												
MRI head without IV contrast	May be appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	5	5	0	0	3	3	6	1	0	0	0
Tc-99m bone scan whole body	May be appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	5	5	1	0	1	4	5	2	0	0	0
		References	Study Quality												
		51 (23649448)	4												
		62 (10473359)	4												
		63 (27877227)	3												
CT abdomen and pelvis without IV contrast	May be appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	4	4	2	0	1	7	2	1	0	0	0
		References	Study Quality												
		55 (3034008)	3												
CT abdomen and pelvis without and with IV contrast	May be appropriate	Limited	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗⊗ 10-30 mSv [ped]	4	4	1	0	4	3	3	2	0	0	0
		References	Study Quality												
		55 (3034008)	3												
CT head without and with IV contrast	May be appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	4	4	0	1	4	3	4	1	0	0	0
		References	Study Quality												
		51 (23649448)	4												
MRI abdomen without IV contrast	May be appropriate	Moderate	○ 0 mSv	○ 0 mSv [ped]	4	4	2	0	2	3	4	2	0	0	0
		References	Study Quality												

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.