



MRA chest abdomen pelvis without and with IV contrast	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	8	8	0	0	2	0	1	1	3	7	6
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References	Study Quality
76 (26720837)	2
29 (29313811)	Good
73 (28322426)	2
22 (29358285)	4
53 (29666047)	1
75 (28757178)	4
74 (25665823)	3
54 (26553537)	4

FDG-PET/CT whole body	Usually appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	8	8	1	0	0	0	0	1	7	5	5
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References	Study Quality
35 (27472684)	2
55 (27367985)	3
42 (26376404)	2
59 (25671403)	3
48 (25254211)	2
58 (24875577)	2
44 (24008434)	4
70 (28916549)	1
36 (28736805)	4
37 (28911987)	3
63 (28180963)	2
47 (29131857)	3
45 (27068039)	4
22 (29358285)	4
60 (28856429)	4
46 (29145713)	1
61 (29465347)	3

43 (25695092)	2
51 (27925577)	1
15 (30066157)	3
72 (29671039)	1
38 (29362158)	3
71 (24665112)	1
66 (29903537)	3
53 (29666047)	1
33 (29637252)	4
62 (29799393)	2
49 (25860208)	4
34 (29927635)	3
64 (28109928)	1
57 (26250689)	2
56 (29427822)	4
13 (30887249)	4
14 (30848549)	2
50 (30120746)	4
52 (-3185009)	4
54 (26553537)	4
65 (32145885)	4
67 (31081519)	1
68 (31649025)	2
69 (30976984)	3

MRA chest abdomen pelvis with IV contrast	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	8	8	0	0	0	0	2	0	3	8	7
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References	Study Quality
76 (26720837)	2
29 (29313811)	Good
73 (28322426)	2
22 (29358285)	4

53 (29666047)	1
75 (28757178)	4
74 (25665823)	3
54 (26553537)	4

CT chest abdomen pelvis with IV contrast	Usually appropriate	Limited	☼☼☼☼ 10-30 mSv		7	7	0	0	1	0	1	1	11	4	1
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References	Study Quality
32 (24643395)	3
34 (29927635)	3

CT chest abdomen pelvis without and with IV contrast	Usually appropriate	Limited	☼☼☼☼ 10-30 mSv		7	7	0	0	1	0	4	4	5	4	1
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References	Study Quality
32 (24643395)	3
34 (29927635)	3

CTA coronary arteries with IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv		6	6	0	0	0	2	7	8	2	0	0
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References	Study Quality
41 (24009351)	3

MRA chest abdomen pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	1	2	4	9	3	0	0
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References	Study Quality
76 (26720837)	2
29 (29313811)	Good
73 (28322426)	2
22 (29358285)	4
53 (29666047)	1
75 (28757178)	4
74 (25665823)	3
54 (26553537)	4

MRI chest abdomen pelvis without and with IV contrast	May be appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	2	0	6	3	5	3	0
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Arteriography chest abdomen pelvis	May be appropriate	Limited	Varies		4	4	4	1	2	3	7	0	1	1	0
		References	Study Quality												
		22 (29358285)	4												
CT chest abdomen pelvis without IV contrast	Usually not appropriate	Limited	⊕⊕⊕⊕ 10-30 mSv		3	3	8	2	6	1	2	1	0	0	0
		References	Study Quality												
		32 (24643395)	3												
		34 (29927635)	3												
US duplex Doppler lower extremity	Usually not appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	3	3	2	0	8	3	5	0	1	0	0
		References	Study Quality												
		77 (28503707)	2												
US duplex Doppler iliofemoral arteries	Usually not appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	3	3	7	1	4	5	2	0	0	0	0
MRI chest abdomen pelvis without IV contrast	Usually not appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	3	3	1	0	10	0	5	3	0	0	0
		References	Study Quality												
		76 (26720837)	2												
MRA coronary arteries without and with IV contrast	Usually not appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	2	2	9	7	1	1	0	1	0	0	0
MRI heart function and morphology without and with IV contrast	Usually not appropriate	Expert Consensus	○ ○ mSv	○ ○ mSv [ped]	2	2	6	6	6	1	0	0	0	0	0
US duplex Doppler aorta abdomen	Usually not appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	2	2	7	3	8	1	0	0	0	0	0
		References	Study Quality												
		77 (28503707)	2												
US duplex Doppler chest abdomen pelvis	Usually not appropriate	Limited	○ ○ mSv	○ ○ mSv [ped]	2	2	7	8	4	0	0	0	0	0	0
		References	Study Quality												



MRA chest abdomen pelvis with IV contrast	May be appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	6	6	0	0	1	0	8	5	2	3	0
CT chest abdomen pelvis without and with IV contrast	May be appropriate	Limited	☼☼☼☼ 10-30 mSv		5	5	1	0	0	0	9	8	0	0	1
		References		Study Quality											
		88 (26692417)		4											
MRA chest abdomen pelvis without IV contrast	May be appropriate (Disagreement)	Expert Opinion	0 0 mSv	0 0 mSv [ped]	5	5	1	0	8	1	5	1	2	1	0
MRA chest abdomen pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	0 0 mSv	0 0 mSv [ped]	5	5	0	0	1	6	7	1	1	3	0
MRI heart function and morphology without and with IV contrast	May be appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	4	4	4	5	0	3	5	2	0	0	0
MRI chest abdomen pelvis without and with IV contrast	May be appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	4	4	4	5	0	2	6	1	0	1	0
CT chest abdomen pelvis without IV contrast	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv		3	3	6	3	5	4	0	1	0	1	0
		References		Study Quality											
		88 (26692417)		4											
MRA coronary arteries without and with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	7	5	5	1	0	1	0	0	0
MRA neck without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	9	10	0	0	0	0	0	0	0
MRA neck without and with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	7	7	5	0	0	0	0	0	0
MRI heart function and morphology without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	8	3	0	2	5	1	0	0	0
FDG-PET/CT whole body	Usually not appropriate	Limited	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	7	7	5	0	0	0	0	0	0



		References	Study Quality												
		91 (29035930)	4												
US duplex Doppler aorta abdomen	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	9	8	2	0	0	0	0	0	0
US duplex Doppler lower extremity	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	8	10	1	0	0	0	0	0	0
US duplex Doppler upper extremity	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	8	9	2	0	0	0	0	0	0
US duplex Doppler iliofemoral arteries	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	8	10	1	0	0	0	0	0	0
MRI chest abdomen pelvis without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	9	2	4	2	1	2	0	0	0
MRA neck with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	7	7	5	0	0	0	0	0	0
US duplex Doppler chest abdomen pelvis	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	2	2	8	9	1	1	0	0	0	0	0
MRA coronary arteries without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	11	7	1	0	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](http://www.acr.org/ac).