



27 (19276325)	1
32 (21057129)	4
33 (19155404)	2
34 (16648154)	2
35 (20588038)	2
36 (17701255)	3
37 (18551336)	4
29 (18623171)	4
30 (12719900)	3
31 (17206719)	2
19 (17604930)	2
20 (19118968)	4
21 (15638233)	3
38 (23796374)	4

MR enterography	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	7	7	0	0	0	1	1	3	3	3	4
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References	Study Quality
65 (26179244)	4
54 (25222657)	4
24 (24912799)	Good
69 (24037299)	2
53 (17502220)	4
28 (18372465)	M
57 (19610137)	1
70 (21484959)	2
27 (19276325)	1
58 (18214582)	2
59 (19524458)	2
71 (12764646)	2
72 (19542402)	2
35 (20588038)	2

55 (17639383)	2
60 (19635832)	3
61 (19136510)	2
62 (20122516)	3
63 (16377481)	3
64 (15908538)	1
66 (15942733)	2
67 (16294149)	2
40 (21484958)	2
68 (21905974)	1
38 (23796374)	4
51 (16361048)	3
52 (16632735)	2
56 (15057562)	3

MRI abdomen and pelvis without and with IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	3	10	2	0	0
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References	Study Quality
77 (26959382)	4
78 (26457380)	Good
73 (25592192)	2
27 (19276325)	1
58 (18214582)	2
72 (19542402)	2
40 (21484958)	2
74 (12562451)	4
75 (19401571)	3
76 (19755971)	4

CT abdomen and pelvis without IV contrast	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	0	0	3	9	3	0	0	0
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References	Study Quality
22 (17963078)	2

25 (16436815)	2
27 (19276325)	1
42 (16373764)	2
41 (15710985)	3
36 (17701255)	3
40 (21484958)	2
39 (3680682)	4

Fluoroscopy small bowel follow-through	May be appropriate	Strong	⊙⊙⊙ 1-10 mSv	⊙⊙⊙⊙ 3-10 mSv [ped]	4	4	1	0	4	4	2	4	0	0	0
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References	Study Quality
18 (12944602)	2
81 (16696781)	M
79 (18513722)	1
50 (16799782)	2
80 (12873576)	2
27 (19276325)	1
82 (16279905)	4
42 (16373764)	2
46 (16304016)	2
83 (16020490)	3

MRI abdomen and pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	4	4	0	1	4	3	2	4	1	0	0
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References	Study Quality
77 (26959382)	4
78 (26457380)	Good
73 (25592192)	2
27 (19276325)	1
58 (18214582)	2
72 (19542402)	2
40 (21484958)	2
74 (12562451)	4

		75 (19401571)			3												
		76 (19755971)			4												
US abdomen and pelvis	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	4	4	0	3	2	3	5	2	0	0	0		

References	Study Quality
90 (23182513)	4
85 (27495028)	Good
94 (24344807)	3
84 (23921767)	Good
95 (23643057)	3
93 (22483566)	3
11 (27338853)	4
86 (15987966)	M
87 (14616167)	2
88 (19408327)	1
89 (23796373)	4
91 (19148846)	3
97 (21615440)	4
66 (15942733)	2
92 (18067121)	2
96 (17680844)	1

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	1	5	8	1	0	0	0	0	0		
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References	Study Quality
22 (17963078)	2
25 (16436815)	2
27 (19276325)	1
42 (16373764)	2
41 (15710985)	3
36 (17701255)	3





22 (17963078)	2
25 (16436815)	2
26 (17032911)	2
27 (19276325)	1
32 (21057129)	4
33 (19155404)	2
34 (16648154)	2
35 (20588038)	2
36 (17701255)	3
37 (18551336)	4
19 (17604930)	2
20 (19118968)	4
21 (15638233)	3

MR enterography	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	1	1	2	0	3	8
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References	Study Quality
65 (26179244)	4
54 (25222657)	4
24 (24912799)	Good
69 (24037299)	2
53 (17502220)	4
28 (18372465)	M
57 (19610137)	1
27 (19276325)	1
58 (18214582)	2
59 (19524458)	2
35 (20588038)	2
55 (17639383)	2
60 (19635832)	3
61 (19136510)	2
62 (20122516)	3



63 (16377481)	3
64 (15908538)	1
66 (15942733)	2
67 (16294149)	2
40 (21484958)	2
68 (21905974)	1
38 (23796374)	4
51 (16361048)	3
52 (16632735)	2
56 (15057562)	3

CT abdomen and pelvis with IV contrast	Usually appropriate	Strong	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	8	8	0	0	0	0	0	2	4	6	3
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References	Study Quality
22 (17963078)	2
25 (16436815)	2
27 (19276325)	1
42 (16373764)	2
36 (17701255)	3
40 (21484958)	2

MRI abdomen and pelvis without and with IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	6	6	0	0	0	1	5	6	2	1	0
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References	Study Quality
77 (26959382)	4
78 (26457380)	Good
73 (25592192)	2
27 (19276325)	1
58 (18214582)	2
72 (19542402)	2
40 (21484958)	2
74 (12562451)	4
75 (19401571)	3





Fluoroscopy contrast enema	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	4	2	4	3	1	1	0	0	0
		References		Study Quality											
		9 (23583097)		4											
US abdomen and pelvis	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	3	3	1	3	4	2	4	1	0	0	0
		References		Study Quality											
		90 (23182513)		4											
		85 (27495028)		Good											
		94 (24344807)		3											
		84 (23921767)		Good											
		95 (23643057)		3											
		93 (22483566)		3											
		11 (27338853)		4											
		86 (15987966)		M											
		87 (14616167)		2											
		88 (19408327)		1											
		89 (23796373)		4											
		91 (19148846)		3											
		97 (21615440)		4											
		66 (15942733)		2											
		92 (18067121)		2											
		96 (17680844)		1											
Radiography abdomen	Usually not appropriate	Expert Consensus	☼☼ 0.1-1mSv	☼☼ 0.03-0.3 mSv [ped]	3	3	2	3	3	3	2	2	0	0	0
HMPAO WBC scan	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	2	2	5	4	5	1	0	0	0	0	0
		References		Study Quality											
		28 (18372465)		M											
		98 (19522018)		4											



69 (24037299)	2
53 (17502220)	4
28 (18372465)	M
57 (19610137)	1
27 (19276325)	1
58 (18214582)	2
59 (19524458)	2
35 (20588038)	2
55 (17639383)	2
60 (19635832)	3
61 (19136510)	2
62 (20122516)	3
63 (16377481)	3
64 (15908538)	1
66 (15942733)	2
67 (16294149)	2
40 (21484958)	2
68 (21905974)	1
38 (23796374)	4
51 (16361048)	3
52 (16632735)	2
56 (15057562)	3
113 (24177375)	3
112 (29319414)	4

CT enterography	Usually appropriate	Strong	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	8	8	0	0	1	0	1	2	0	4	7
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References	Study Quality
24 (24912799)	Good
23 (15459329)	2
22 (17963078)	2
25 (16436815)	2

26 (17032911)	2
27 (19276325)	1
32 (21057129)	4
33 (19155404)	2
34 (16648154)	2
19 (17604930)	2
20 (19118968)	4
21 (15638233)	3
108 (21710535)	2
109 (25637127)	4
110 (21621641)	3

CT abdomen and pelvis with IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	6	6	0	0	0	1	5	9	0	0	0
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References	Study Quality
19 (17604930)	2

MRI abdomen and pelvis without and with IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	6	6	0	1	0	1	4	5	2	1	1
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References	Study Quality
77 (26959382)	4
78 (26457380)	Good
111 (25666967)	4
73 (25592192)	2
27 (19276325)	1
58 (18214582)	2
72 (19542402)	2
40 (21484958)	2
74 (12562451)	4
75 (19401571)	3
76 (19755971)	4
113 (24177375)	3
112 (29319414)	4

CT abdomen and pelvis without IV contrast	May be appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	2	2	3	8	0	0	0	0
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References	Study Quality
19 (17604930)	2

CT enteroclysis	May be appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	2	1	0	7	4	0	0	1
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References	Study Quality
9 (23583097)	4
107 (20177090)	1
46 (16304016)	2
45 (16552508)	3
41 (15710985)	3
108 (21710535)	2
43 (19121904)	4
44 (23182514)	4
47 (20959377)	2

Fluoroscopy small bowel follow-through	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	1	1	1	4	4	4	0	0	0
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References	Study Quality
18 (12944602)	2
81 (16696781)	M
79 (18513722)	1
50 (16799782)	2
80 (12873576)	2
27 (19276325)	1
82 (16279905)	4
42 (16373764)	2
46 (16304016)	2
83 (16020490)	3



MRI abdomen and pelvis without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	5	5	0	0	0	3	10	2	0	0	0
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References	Study Quality
77 (26959382)	4
78 (26457380)	Good
111 (25666967)	4
73 (25592192)	2
27 (19276325)	1
58 (18214582)	2
72 (19542402)	2
40 (21484958)	2
74 (12562451)	4
75 (19401571)	3
76 (19755971)	4
113 (24177375)	3
112 (29319414)	4

MR enteroclysis	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	5	5	0	0	1	1	9	3	1	0	0
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References	Study Quality
9 (23583097)	4
50 (16799782)	2
48 (22821694)	4
49 (17483955)	1

US abdomen and pelvis	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	4	4	3	2	2	4	3	1	0	0	0
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References	Study Quality
90 (23182513)	4
85 (27495028)	Good
114 (26231046)	4
94 (24344807)	3
84 (23921767)	Good

95 (23643057)	3
93 (22483566)	3
116 (27446873)	3
11 (27338853)	4
86 (15987966)	M
87 (14616167)	2
88 (19408327)	1
89 (23796373)	4
91 (19148846)	3
97 (21615440)	4
66 (15942733)	2
92 (18067121)	2
96 (17680844)	1
115 (21439749)	3

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Limited	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗⊗ 10-30 mSv [ped]	3	3	2	4	7	0	1	0	0	1	0
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References	Study Quality
19 (17604930)	2

Fluoroscopy contrast enema	Usually not appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	3	3	3	4	4	2	1	1	0	0	0
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References	Study Quality
9 (23583097)	4

HMPAO WBC scan	Usually not appropriate	Limited	⊗⊗⊗ 1-10 mSv	⊗⊗⊗ 0.3-3 mSv [ped]	2	2	6	7	1	1	0	0	0	0	0
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References	Study Quality
28 (18372465)	M
98 (19522018)	4
99 (15942487)	Inadequate

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	2	n/a	0	0	0	0	0	0	0	0	0	0
		References		Study Quality												
		101 (26436860)		2												
		103 (25192191)		Good												
		100 (24253895)		2												
		102 (23516311)		3												
		104 (21078803)		2												
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	4	4	5	1	1	0	0	0	0	0
		References		Study Quality												
		101 (26436860)		2												
		103 (25192191)		Good												
		100 (24253895)		2												
		102 (23516311)		3												
		104 (21078803)		2												
Radiography abdomen	Usually not appropriate	Expert Consensus	☼☼ 0.1-1mSv	☼☼ 0.03-0.3 mSv [ped]	2	2	3	8	3	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).