



25 (16436815)	2
26 (17032911)	2
27 (19276325)	1
28 (18372465)	M
29 (18623171)	4
30 (12719900)	3
31 (17206719)	2
32 (21057129)	4
33 (19155404)	2
34 (16648154)	2
35 (20588038)	2
36 (17701255)	3
37 (18551336)	4
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
38 (23796374)	4
51 (16361048)	3
56 (15057562)	3
55 (17639383)	2
54 (25222657)	4
53 (17502220)	4
52 (16632735)	2
60 (19635832)	3
59 (19524458)	2
58 (18214582)	2
57 (19610137)	1
64 (15908538)	1
63 (16377481)	3
62 (20122516)	3

61 (19136510)	2
69 (24037299)	2
68 (21905974)	1
67 (16294149)	2
66 (15942733)	2
65 (26179244)	4
72 (19542402)	2
71 (12764646)	2
70 (21484959)	2
24 (24912799)	Good
27 (19276325)	1
28 (18372465)	M
35 (20588038)	2
40 (21484958)	2

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
27 (19276325)	1
40 (21484958)	2
58 (18214582)	2
72 (19542402)	2
73 (25592192)	2
74 (12562451)	4
75 (19401571)	3
76 (19755971)	4
77 (26959382)	4
78 (26457380)	Good

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
36 (17701255)	3
39 (3680682)	4
40 (21484958)	2
41 (15710985)	3
42 (16373764)	2

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
50 (16799782)	2
27 (19276325)	1
18 (12944602)	2
79 (18513722)	1
80 (12873576)	2
42 (16373764)	2
46 (16304016)	2
81 (16696781)	M
82 (16279905)	4
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
27 (19276325)	1
40 (21484958)	2
58 (18214582)	2
72 (19542402)	2
73 (25592192)	2
74 (12562451)	4
75 (19401571)	3
76 (19755971)	4

			77 (26959382)		4													
			78 (26457380)		Good													
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
84 (23921767)	Good
85 (27495028)	Good
86 (15987966)	M
87 (14616167)	2
88 (19408327)	1
89 (23796373)	4
90 (23182513)	4
91 (19148846)	3
92 (18067121)	2
93 (22483566)	3
94 (24344807)	3
95 (23643057)	3
96 (17680844)	1
97 (21615440)	4
66 (15942733)	2
11 (27338853)	4

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
36 (17701255)	3
39 (3680682)	4
40 (21484958)	2





33 (19155404)	2
34 (16648154)	2
35 (20588038)	2
36 (17701255)	3
37 (18551336)	4

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
38 (23796374)	4
24 (24912799)	Good
66 (15942733)	2
67 (16294149)	2
51 (16361048)	3
52 (16632735)	2
53 (17502220)	4
54 (25222657)	4
55 (17639383)	2
56 (15057562)	3
57 (19610137)	1
58 (18214582)	2
59 (19524458)	2
60 (19635832)	3
61 (19136510)	2
62 (20122516)	3
63 (16377481)	3
64 (15908538)	1
65 (26179244)	4
27 (19276325)	1
28 (18372465)	M
35 (20588038)	2
40 (21484958)	2





42 (16373764)	2
22 (17963078)	2
25 (16436815)	2

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

CT enteroclysis	May be appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	0	0	2	10	3	0	0	0	0
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References	Study Quality
41 (15710985)	3
43 (19121904)	4
44 (23182514)	4
45 (16552508)	3
46 (16304016)	2
47 (20959377)	2

Fluoroscopy small bowel follow-through	May be appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	4	4	2	0	3	4	4	1	1	0	0
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References	Study Quality
50 (16799782)	2
79 (18513722)	1

80 (12873576)	2
27 (19276325)	1
18 (12944602)	2
42 (16373764)	2
46 (16304016)	2
81 (16696781)	M
82 (16279905)	4
83 (16020490)	3

MR enteroclysis	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	4	4	0	0	2	13	0	0	0	0	0
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References	Study Quality
49 (17483955)	1
50 (16799782)	2

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	0	4	10	1	0	0	0	0	0
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References	Study Quality
27 (19276325)	1
36 (17701255)	3
22 (17963078)	2
25 (16436815)	2
40 (21484958)	2
42 (16373764)	2

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
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References	Study Quality
9 (23583097)	4

US abdomen and pelvis	Usually not appropriate	Strong	0 0 mSv	0 0 mSv [ped]	3	3	1	3	4	2	4	1	0	0	0
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References	Study Quality
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11 (27338853)	4
66 (15942733)	2
84 (23921767)	Good
85 (27495028)	Good
86 (15987966)	M
87 (14616167)	2
88 (19408327)	1
89 (23796373)	4
90 (23182513)	4
91 (19148846)	3
92 (18067121)	2
93 (22483566)	3
94 (24344807)	3
95 (23643057)	3
96 (17680844)	1
97 (21615440)	4

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
Tc-99m HMPAO leucoscintigraphy	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
99 (15942487)	Inadequate

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	4	4	5	2	0	0	0	0	0
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References	Study Quality
100 (24253895)	2
101 (26436860)	2

102 (23516311)	3
103 (25192191)	Good
104 (21078803)	2

**Variant 3: Known Crohn disease, disease surveillance; monitoring therapy.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
MR enterography	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	0	1	0	0	2	12

References	Study Quality
38 (23796374)	4
24 (24912799)	Good
66 (15942733)	2
67 (16294149)	2
51 (16361048)	3
52 (16632735)	2
53 (17502220)	4
54 (25222657)	4
55 (17639383)	2
56 (15057562)	3
57 (19610137)	1
58 (18214582)	2
59 (19524458)	2
60 (19635832)	3
62 (20122516)	3
61 (19136510)	2
63 (16377481)	3
64 (15908538)	1
65 (26179244)	4
27 (19276325)	1

28 (18372465)	M
35 (20588038)	2
40 (21484958)	2
68 (21905974)	1
69 (24037299)	2
77 (26959382)	4
111 (25666967)	4
112 (29319414)	4
113 (24177375)	3

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
19 (17604930)	2
20 (19118968)	4
21 (15638233)	3
22 (17963078)	2
23 (15459329)	2
24 (24912799)	Good
25 (16436815)	2
26 (17032911)	2
27 (19276325)	1
32 (21057129)	4
33 (19155404)	2
34 (16648154)	2
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
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9 (23583097)	4
107 (20177090)	1
108 (21710535)	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
50 (16799782)	2
79 (18513722)	1
80 (12873576)	2
27 (19276325)	1
18 (12944602)	2
42 (16373764)	2
46 (16304016)	2
81 (16696781)	M
82 (16279905)	4
83 (16020490)	3

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



MR enteroclysis	May be appropriate	78 (26457380)	Good													
		Strong	0 0 mSv	0 0 mSv [ped]	5	5	0	0	1	1	9	3	1	0	0	

References	Study Quality
9 (23583097)	4
48 (22821694)	4
49 (17483955)	1
50 (16799782)	2

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
84 (23921767)	Good
85 (27495028)	Good
114 (26231046)	4
115 (21439749)	3
95 (23643057)	3
11 (27338853)	4
66 (15942733)	2
86 (15987966)	M
87 (14616167)	2
88 (19408327)	1
89 (23796373)	4
90 (23182513)	4
91 (19148846)	3
92 (18067121)	2
93 (22483566)	3
94 (24344807)	3
96 (17680844)	1
97 (21615440)	4
116 (27446873)	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
		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
		References	Study Quality												
		9 (23583097)	4												
Tc-99m HMPAO leucoscintigraphy	Usually not appropriate	Limited	☼☼☼ 1-10 mSv	☼☼☼ 0.3-3 mSv [ped]	2	2	6	7	1	1	0	0	0	0	0
		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	☼☼☼☼☼ 10-30 mSv [ped]	2	2	4	4	5	1	1	0	0	0	0
		References	Study Quality												
		100 (24253895)	2												
		101 (26436860)	2												
		102 (23516311)	3												
		103 (25192191)	Good												
		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

## **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).