

**American College of Radiology  
ACR Appropriateness Criteria®**

**Suspected Abdominal Neoplasm-Child**

**Variant 1: Child. Palpable abdominal mass. Suspected neoplasm. Initial imaging.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US abdomen	Usually appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	9	9	0	0	0	0	0	0	2	5	9
		References		Study Quality											
		1 (35718001)		3											
CT abdomen and pelvis with IV contrast	Usually appropriate	Moderate	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	7	7	0	1	0	0	1	1	9	1	2
		References		Study Quality											
		27 (36220725)		4											
		20 (23192775)		2											
		1 (35718001)		3											
		22 (26454401)		4											
		29 (25135711)		2											
		23 (27015902)		4											
Radiography abdomen	Usually appropriate	Strong	⊕⊕ 0.1-1mSv	⊕⊕ 0.03-0.3 mSv [ped]	7	7	0	1	0	0	1	3	7	1	2
CT chest abdomen pelvis with IV contrast	May be appropriate	Strong	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	5	5	0	1	0	0	7	6	0	0	1
		References		Study Quality											
		27 (36220725)		4											

20 (23192775)	2
1 (35718001)	3
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

MRI abdomen and pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	0 0 mSv	0 0 mSv [ped]	5	5	1	3	5	3	0	2	1	0	0
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

US pelvis transabdominal	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	5	5	0	1	0	1	6	3	2	1	1
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References	Study Quality
1 (35718001)	3

CT abdomen without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	6	2	2	3	2	1	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT abdomen and pelvis without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	3	3	5	2	6	1	2	0	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2

			22 (26454401)		4													
			29 (25135711)		2													
			23 (27015902)		4													
MRI abdomen and pelvis without IV contrast	Usually not appropriate	Strong	0 0 mSv	0 0 mSv [ped]	3	3	1	3	7	1	3	0	0	0	0			
			References		Study Quality													
			10 (24563179)		1													
			13 (23666206)		3													
			30 (27406610)		2													
			29 (25135711)		2													
CT abdomen with IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	4	8	2	1	0	0	0	0	0			
			References		Study Quality													
			27 (36220725)		4													
			20 (23192775)		2													
			1 (35718001)		3													
			22 (26454401)		4													
			29 (25135711)		2													
			23 (27015902)		4													
CT abdomen without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	5	4	4	1	2	0	0	0	0			
			References		Study Quality													
			27 (36220725)		4													
			20 (23192775)		2													
			22 (26454401)		4													
			29 (25135711)		2													
			23 (27015902)		4													
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	4	8	3	0	0	0	0	0	0			

References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT chest abdomen pelvis without IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	6	3	3	1	2	1	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

MRI abdomen without IV contrast	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	2	2	3	6	4	2	0	0	0	0	0
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

MRI abdomen without and with IV contrast	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	2	2	4	4	5	0	2	0	0	0	0
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	1	1	8	5	2	0	0	0	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	12	2	1	0	1	0	0	0	0
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References	Study Quality
10 (24563179)	1
31 (27609791)	3
37 (24481823)	2
42 (34372894)	Good
25 (34548851)	Good
39 (28072621)	3
40 (30683766)	4
38 (25572088)	4
32 (26901021)	2
36 (23955198)	4
8 (26417712)	4
41 (33629142)	4
11 (26049371)	2

FDG-PET/CT whole body	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	11	3	1	0	1	0	0	0	0
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References	Study Quality
34 (37160439)	4
10 (24563179)	1

37 (24481823)	2
31 (27609791)	3
25 (34548851)	Good
39 (28072621)	3
40 (30683766)	4
38 (25572088)	4
42 (34372894)	Good
32 (26901021)	2
36 (23955198)	4
8 (26417712)	4
41 (33629142)	4
11 (26049371)	2

US abdomen with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	9	4	1	0	1	0	0	0	0
FDG-PET/MRI skull base to mid-thigh	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	12	2	1	0	1	0	0	0	0

References	Study Quality
21 (28534182)	2
25 (34548851)	Good
33 (27048532)	2
32 (26901021)	2

FDG-PET/MRI whole body	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	11	2	2	0	1	0	0	0	0
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References	Study Quality
21 (28534182)	2
25 (34548851)	Good
33 (27048532)	2
32 (26901021)	2

MIBG scan whole body with SPECT or SPECT/CT area of interest	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv	Varies	1	1	13	1	1	0	1	0	0	0	0
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References	Study Quality
16 (31541036)	2
35 (27054367)	0
25 (34548851)	Good
8 (26417712)	4
9 (23341514)	4
7 (23440556)	0
12 (28383813)	4
11 (26049371)	2

MIBG scan whole body	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	13	1	1	0	1	0	0	0	0
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References	Study Quality
16 (31541036)	2
35 (27054367)	0
25 (34548851)	Good
8 (26417712)	4
9 (23341514)	4
7 (23440556)	0
12 (28383813)	4
11 (26049371)	2

**Variant 2: Child. Palpable abdominal mass. Suspected neoplasm. Radiography negative. Next imaging study.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US abdomen	Usually appropriate	Limited	○ 0 mSv	○ 0 mSv [ped]	9	9	0	0	0	0	0	1	1	5	9
CT abdomen and pelvis with IV contrast	Usually appropriate	Moderate	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	7	7	1	0	0	1	2	1	4	3	4

References	Study Quality
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27 (36220725)	4
20 (23192775)	2
1 (35718001)	3
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT chest abdomen pelvis with IV contrast	May be appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	5	5	0	1	0	0	7	4	2	0	1
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
1 (35718001)	3
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

MRI abdomen and pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	○ 0 mSv	○ 0 mSv [ped]	5	5	0	3	5	2	2	2	0	0	1
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

US pelvis transabdominal	May be appropriate (Disagreement)	Expert Opinion	○ 0 mSv	○ 0 mSv [ped]	5	5	1	1	0	2	3	2	5	1	0
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CT abdomen without and with IV contrast	May be appropriate	Moderate	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	4	4	5	1	2	2	4	2	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2

22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT abdomen without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	5	1	5	2	3	0	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT abdomen and pelvis without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	5	1	4	3	2	1	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT chest abdomen pelvis without IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 3-10 mSv [ped]	3	3	5	2	4	2	3	0	0	0	0
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References	Study Quality
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	3	1	6	0	4	1	0	1	0
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References	Study Quality
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27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

MRI abdomen without IV contrast	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	3	3	2	3	8	2	0	0	0	0	0
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

MRI abdomen without and with IV contrast	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	3	3	1	3	8	2	0	0	1	0	0
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References	Study Quality
10 (24563179)	1
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

MRI abdomen and pelvis without IV contrast	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	3	3	0	3	8	1	3	0	0	0	0
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References	Study Quality
13 (23666206)	3
30 (27406610)	2
29 (25135711)	2

CT abdomen with IV contrast	Usually not appropriate	Moderate	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	2	2	2	6	5	2	0	0	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2

1 (35718001)	3
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Moderate	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	4	8	2	0	1	0	0	0	0
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References	Study Quality
27 (36220725)	4
20 (23192775)	2
22 (26454401)	4
29 (25135711)	2
23 (27015902)	4

FDG-PET/MRI whole body	Usually not appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼☼ 3-10 mSv [ped]	2	2	8	3	4	1	0	0	0	0	0
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References	Study Quality
21 (28534182)	2
25 (34548851)	Good
33 (27048532)	2
32 (26901021)	2

FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 3-10 mSv [ped]	1	1	9	5	2	0	0	0	0	0	0
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References	Study Quality
10 (24563179)	1
37 (24481823)	2
42 (34372894)	Good
25 (34548851)	Good
8 (26417712)	4
39 (28072621)	3
40 (30683766)	4

38 (25572088)	4
32 (26901021)	2
36 (23955198)	4
41 (33629142)	4
11 (26049371)	2

FDG-PET/CT whole body	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	9	4	2	0	1	0	0	0	0
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References	Study Quality
34 (37160439)	4
10 (24563179)	1
37 (24481823)	2
31 (27609791)	3
25 (34548851)	Good
39 (28072621)	3
40 (30683766)	4
38 (25572088)	4
42 (34372894)	Good
32 (26901021)	2
36 (23955198)	4
8 (26417712)	4
41 (33629142)	4
11 (26049371)	2

US abdomen with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	9	5	0	1	0	0	0	0	0
FDG-PET/MRI skull base to mid-thigh	Usually not appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	9	4	3	0	0	0	0	0	0

References	Study Quality
31 (27609791)	3
21 (28534182)	2
33 (27048532)	2

			32 (26901021)																
			25 (34548851)																
MIBG scan whole body with SPECT or SPECT/CT area of interest	Usually not appropriate	Strong	☼☼☼ 1-10 mSv	Varies	1	1	9	3	2	0	2	0	0	0	0	0	0	0	0
		References		Study Quality															
		16 (31541036)		2															
		35 (27054367)		0															
		25 (34548851)		Good															
		8 (26417712)		4															
		9 (23341514)		4															
		7 (23440556)		0															
		12 (28383813)		4															
		11 (26049371)		2															
MIBG scan whole body	Usually not appropriate	Strong	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	9	3	2	0	2	0	0	0	0	0	0	0	0
		References		Study Quality															
		16 (31541036)		2															
		35 (27054367)		0															
		25 (34548851)		Good															
		8 (26417712)		4															
		9 (23341514)		4															
		7 (23440556)		0															
		12 (28383813)		4															
		11 (26049371)		2															

**Variant 3: Child. Palpable abdominal wall mass. Suspected abdominal wall neoplasm. Initial imaging.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US abdomen	Usually	Limited	0 0 mSv	0 0 mSv	9	9	0	0	0	0	1	1	2	3	9

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations												
							1	2	3	4	5	6	7	8	9				
	appropriate			[ped]															
		References		Study Quality															
		1 (35718001)		3															
CT abdomen and pelvis with IV contrast	Usually appropriate	Moderate	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	7	7	0	1	0	0	2	2	5	4	1				
CT chest abdomen pelvis with IV contrast	May be appropriate	Moderate	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	5	5	0	1	0	4	9	1	0	0	0				
MRI abdomen without and with IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	5	5	1	0	0	4	5	3	1	1	1				
		References		Study Quality															
		10 (24563179)		1															
		13 (23666206)		3															
		30 (27406610)		2															
MRI abdomen and pelvis without IV contrast	May be appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	5	5	0	1	0	4	6	4	0	0	0				
		References		Study Quality															
		10 (24563179)		1															
		13 (23666206)		3															
		30 (27406610)		2															
MRI abdomen and pelvis without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	○ 0 mSv	○ 0 mSv [ped]	5	5	0	1	1	1	2	3	3	2	2				
		References		Study Quality															
		10 (24563179)		1															
		13 (23666206)		3															
		30 (27406610)		2															

MRI abdomen without IV contrast	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	4	4	0	1	4	8	1	1	0	0	0
		References		Study Quality											
		10 (24563179)		1											
		13 (23666206)		3											
		30 (27406610)		2											
CT abdomen without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	4	2	5	3	2	0	0	0	0
CT abdomen and pelvis without IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	6	2	2	2	3	1	0	0	0
CT chest abdomen pelvis without IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	3	3	5	3	3	2	2	1	0	0	0
CT chest abdomen pelvis without and with IV contrast	Usually not appropriate	Strong	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	3	3	5	2	4	1	2	1	0	1	0
Radiography abdomen	Usually not appropriate	Strong	☼☼ 0.1-1mSv	☼☼ 0.03-0.3 mSv [ped]	3	3	4	3	3	0	5	0	0	0	0
CT abdomen with IV contrast	Usually not appropriate	Moderate	☼☼☼ 1-10 mSv	☼☼☼☼ 3-10 mSv [ped]	2	2	5	4	4	0	1	1	0	0	0
CT abdomen without and with IV contrast	Usually not appropriate	Moderate	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	5	8	2	0	0	0	0	0	0
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Moderate	☼☼☼☼ 10-30 mSv	☼☼☼☼☼ 10-30 mSv [ped]	2	2	5	8	2	0	0	0	0	0	0
US pelvis transabdominal	Usually not appropriate	Limited	0 0 mSv	0 0 mSv [ped]	2	2	7	3	4	1	0	0	0	0	0
		References		Study Quality											

		1 (35718001)		3														
FDG-PET/CT skull base to mid-thigh	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	12	1	3	0	0	0	0	0	0	0	0	0

References	Study Quality
10 (24563179)	1
31 (27609791)	3
37 (24481823)	2
42 (34372894)	Good
25 (34548851)	Good
39 (28072621)	3
40 (30683766)	4
38 (25572088)	4
32 (26901021)	2
36 (23955198)	4
8 (26417712)	4
41 (33629142)	4

FDG-PET/CT whole body	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	12	1	2	1	0	0	0	0	0	0	0	0
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References	Study Quality
10 (24563179)	1
31 (27609791)	3
37 (24481823)	2
42 (34372894)	Good
25 (34548851)	Good
39 (28072621)	3
40 (30683766)	4
38 (25572088)	4
32 (26901021)	2
36 (23955198)	4
8 (26417712)	4



35 (27054367)	0
25 (34548851)	Good
8 (26417712)	4
12 (28383813)	4
9 (23341514)	4
7 (23440556)	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).