## American College of Radiology ACR Appropriateness Criteria<sup>®</sup>

## Palpable Abdominal Mass-Suspected Neoplasm

Variant 1: Palpable abdominal mass. Suspected intra-abdominal neoplasm. Initial imaging.

	Appropriate	ness			-				I	Final	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT abdomen with IV contrast	Usually appropriate	e	େହେଇ 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	9	9	0	0	0	0	0	0	0	1	12
		References		Study	v Quality										
		10 (27377325)	)		4										
		5 (27452935)			4										
		11 (26321453)	)		4										
		6 (24901125)			4										
		7 (24764686)			3										
		13 (24724763)	)		4										
		12 (23381506)	)		4										
		4 (23212183)			4										
		8 (6112538)			1										
		9 (6734063)			3										
		14 (16371582)	)		3										
		15 (6561119)		1	4										
US abdomen	Usually appropriate	e Limited	O 0 mSv	O 0 mSv [ped]	7	7	0	0	0	1	0	1	5	6	0
		References		Study	v Quality										
		5 (27452935)			4										
		23 (25793296)	)		3										

		6 (24901125)			4										
		4 (23212183)			4										
		21 (15953224)			4										
		16 (7223287)			4										
		17 (2407418)			3										
		19 (7084598)			4										
		18 (3285944)			4										
		20 (2152047)			4										
		22 (26507695)					1		1	1				<del>,                                    </del>	
MRI abdomen without and with IV contrast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	0	0	7	2	1	3
		References		Study	Quality										
		10 (27377325)													
CT abdomen without IV contrast	May be appropriate	Strong	ଡେଡେ 1-10 mSv	ଡେଡେଡେ 3- 10 mSv [ped]	5	5	0	0	1	5	6	2	2	0	0
		References		Study	Quality		-								
		10 (27377325)			4										
		5 (27452935)		4											
		11 (26321453)			4										
		6 (24901125)			4										
		7 (24764686)			3										
		13 (24724763)			4										
		12 (23381506)			4										
		4 (23212183)			4										
		8 (6112538)			1										
		9 (6734063)			3										
		14 (16371582)			3										
		15 (6561119)			4					-					
MRI abdomen without IV contrast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	5	5	0	0	0	7	6	2	1	0	0
		References		Study	Quality										

		10 (27377325) 4														
CT abdomen without and with IV contrast	Usually approp		Strong	<del>ବହତବ</del> 10-30 mSv	<b>ବ୍ରବ୍ରବ୍ର</b> 10-30 mSv [ped]	3	3	1	4	4	4	1	2	0	0	0
			References		Study	y Quality										
			10 (27377325)			4										
			5 (27452935)			4										
			11 (26321453)			4										
			6 (24901125)													
			7 (24764686)													
			13 (24724763)			4										
			12 (23381506)			4										
			4 (23212183)			4										
			8 (6112538)			1										
			9 (6734063)			3										
			14 (16371582)			3										
			15 (6561119)		1	4										
FDG-PET/CT skull base to mid- thigh	Usually approp		Expert Consensus	ଡଡଡଡ 10-30 mSv	ଡଡଡଡଡ 3- 10 mSv [ped]	3	3	3	3	5	0	0	2	0	0	0
Radiography abdomen	Usually approp		Limited	֎֎ 0.1-1mSv	�� 0.03- 0.3 mSv [ped]	3	3	1	3	6	2	1	0	0	0	0
			References		Study	y Quality										
			27 (22524761)			4										
			26 (23079147)			4										
			24 (23224856)			4										
			25 (22200965)		-	4					•					
Fluoroscopy contrast enema	Usually approp		Limited	ତତତ 1-10 mSv	֎֎֎֎ 3- 10 mSv [ped]	2	2	3	6	3	1	0	0	0	0	0
			References		Study	y Quality										
			28 (23219189)			3										

Fluoroscopy upper GI series	Usuall <sub>2</sub> approp	Limited	ତେତେ 1-10 mSv	)	2	2	3	6	3	1	0	0	0	0	0
		References		Study											
		28 (23219189)													
Fluoroscopy upper GI series with small bowel follow-through	Usuall <sub>2</sub> approp	Limited	ଝେଝ 1-10 mSv	)	2	2	3	6	3	1	0	0	0	0	0
		References		Study Quality											
		28 (23219189)		3											

## Variant 2: Palpable abdominal mass. Suspected abdominal wall mass. Initial imaging.

	Appropriateness	COL			D. (1				F	inal	Tabul	latio	ıs		
Procedure	Category	SOE	Adults RRI	2 Peds RRL	Rating	Median	1	2	3	4	5	6	0 1 4	8	9
US abdomen	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	4	8
		References		Study	Quality										
		38 (22884230)			4										
		39 (28218772)			4										
		36 (27328495)			4										
		32 (26657747)			4										
		37 (26162574)			4										
		30 (25064764)			4										
		29 (24043554)			4										
		33 (24145938)			4										
		34 (23535226)			4										
		31 (19414084)			3										
CT abdomen with IV contrast	Usually appropriate	Limited	ତତତ 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	8	8	0	0	0	0	1	4	1	2	5
		References		Study	Quality										

		30 (25064764)			4										
		12 (23381506)			4										
		14 (16371582)			3										
		15 (6561119)			4										
		43 (28004137)			3										
		41 (15728607)			3										
		42 (29571558)			4										
MRI abdomen without and with IV contrast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	7	7	0	0	0	0	0	4	4	2	3
		References		Study	Quality										
		38 (22884230)			4										
		10 (27377325)			4										
		30 (25064764)			4										
		29 (24043554)			4										
		35 (23763857)			3										
		40 (14975977)			3										
MRI abdomen without IV contrast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	5	3	5	2	1	0
		References		Study	Quality										
		38 (22884230)			4										
		10 (27377325)			4										
		30 (25064764)			4										
		29 (24043554)			4										
		35 (23763857)			3										
		40 (14975977)			3										
CT abdomen without IV contrast	May be appropriate	Limited	ଡଡଡ 1-10 mSv	ଡଡଡଡ 3- 10 mSv [ped]	4	4	0	0	5	6	3	1	1	0	0
		References		Study	Quality										
		30 (25064764)			4										
		12 (23381506)			4										
		14 (16371582)			3										

		 15 (6561119)			4										
		43 (28004137)			3										
		41 (15728607)			3										
		 42 (29571558)			4										
CT abdomen without and with IV contrast	Usually r appropria	Limited	<del>ତତତତ</del> 10-30 mSv	<del>ବହତ୍ତୁହୁ</del> 10-30 mSv [ped]	3	3	1	7	6	2	0	0	0	0	0
		References		Study	V Quality										
		30 (25064764)			4										
		12 (23381506)			4										
		14 (16371582)													
		15 (6561119)			4										
		43 (28004137)			3										
		41 (15728607)			3										
		42 (29571558)			4										
FDG-PET/CT skull base to mid- thigh	Usually r appropria	Expert Consensus	ଡେଡେଡ 10-30 mSv	ତତତତ 3- 10 mSv [ped]	2	2	3	7	2	1	0	0	0	0	0
Radiography abdomen	Usually r appropria	Expert Consensus	֎֎ 0.1-1mS∖	0.03- 0.3 mSv [ped]	2	2	6	3	3	0	1	0	0	0	0
Fluoroscopy contrast enema	Usually r appropria	Expert Consensus	େଟେହ 1-10 mSv	ଡଡଡଡ 3- 10 mSv [ped]	1	1	8	4	1	0	0	0	0	0	0
Fluoroscopy upper GI series	Usually r appropria	Expert Consensus	<del>ଡେଡ</del> େ 1-10 mSv	≎≎≎ 0.3- 3 mSv [ped]	1	1	9	3	1	0	0	0	0	0	0
Fluoroscopy upper GI series with small bowel follow-through	Usually r appropria	Expert Consensus	ଝେଝ 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	1	1	8	4	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.