American College of Radiology ACR Appropriateness Criteria®

Suspected Small-Bowel Obstruction

Variant 1: Suspected small-bowel obstruction. Acute presentation. Initial imaging.

Procedure	Appropriateness	COL	A L L DDI	D I DDI	D (1	76.11	Final Tabulations												
	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9				
CT abdomen and pelvis with IV contrast	Usually appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	9	9	1	0	0	0	0	0	0	4	12				
CT abdomen and pelvis without IV contrast	May be appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	6	6	1	0	0	2	4	5	5	0	0				
MRI abdomen and pelvis without and with IV contrast	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	5	5	0	0	1	7	7	2	0	0	0				
Radiography abdomen and pelvis	May be appropriate (Disagreement)	Expert Opinion	ଡ େଡ 1-10 mSv	��� 0.3- 3 mSv [ped]	5	5	0	1	1	1	9	2	2	0	1				
Fluoroscopy small bowel follow-through	May be appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	4	4	2	0	2	6	5	1	1	0	0				
MRI abdomen and pelvis without IV contrast	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	4	4	0	0	2	9	4	2	0	0	0				
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	୫୫୫୫ 10-30 mSv	����� 10-30 mSv [ped]	3	3	1	1	9	5	0	0	0	1	0				
CT enteroclysis	Usually not appropriate	Expert Consensus	���� 10-30 mSv	���� 3- 10 mSv [ped]	3	3	5	3	8	0	1	0	0	0	0				

CT enterography	Usually not appropriate	Expert Consensus	���� 10-30 mSv	���� 3- 10 mSv [ped]	3	3	3	2	8	2	1	1	0	0	0
MR enterography	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	3	3	3	4	8	0	1	0	0	1	0
US abdomen and pelvis	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	3	3	4	3	5	2	2	0	1	0	0
Fluoroscopy small bowel enteroclysis	Usually not appropriate	Expert Consensus	��� 1-10 mSv		2	2	6	4	6	1	0	0	0	0	0
MR enteroclysis	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	2	2	4	5	7	1	0	0	0	0	0

Variant 2: Suspected intermittent or low-grade small-bowel obstruction. Indolent presentation.

Procedure	Appropriateness	COE	A J14- DDI	D. J., DDI	tode DDI Poting Median							Final Tabulations								
	Category	SOE	Adults RRL	Peds RRL	Rating M	Median	1	2	3	4	5	6	7	8	9					
CT abdomen and pelvis with IV contrast	Usually appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	7	7	0	0	0	0	1	3	5	5	3					
CT enterography	Usually appropriate	Expert Consensus	���⊕ 10-30 mSv	���� 3- 10 mSv [ped]	7	7	1	0	0	0	3	1	7	2	3					
CT enteroclysis	May be appropriate	Expert Consensus	���� 10-30 mSv	���� 3- 10 mSv [ped]	6	6	0	0	0	1	4	11	1	0	0					
MR enterography	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	1	5	9	1	1	0					
CT abdomen and pelvis without IV contrast	May be appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	5	5	0	0	1	5	5	5	1	0	0					
Fluoroscopy small bowel enteroclysis	May be appropriate	Expert Consensus	≎≎≎ 1-10 mSv		5	5	0	0	4	3	7	3	0	0	0					

Fluoroscopy small bowel follow-through	May be appropriate	Expert Consensus	ଡ େଫ 1-10 mSv	���� 3- 10 mSv [ped]	5	5	0	0	3	1	11	2	0	0	0
MRI abdomen and pelvis without and with IV contrast	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	5	5	0	0	2	1	12	1	1	0	0
MRI abdomen and pelvis without IV contrast	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	4	4	0	0	1	11	3	1	1	0	0
MR enteroclysis	May be appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	4	4	0	0	1	8	3	5	0	0	0
CT abdomen and pelvis without and with IV contrast	Usually not appropriate	Expert Consensus	ଡେଡେଡ 10-30 mSv	����� 10-30 mSv [ped]	3	3	2	5	6	1	1	0	1	0	1
US abdomen and pelvis	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	3	3	4	2	6	5	0	0	0	0	0
Radiography abdomen and pelvis	Usually not appropriate	Expert Consensus	≎≎≎ 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	1	4	4	4	2	1	0	0	1

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.