American College of Radiology ACR Appropriateness Criteria®

Suspected Placenta Accreta Spectrum Disorder

Variant 1: Low risk for placenta accreta spectrum disorder. No known clinical risk factors. Initial Imaging.

	Appropri	ateness	GOT			D 1 DD1	- ·	3.5 11			F	inal '	Tabu	latio	ns		
Procedure	Categ	gory	SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US pregnant uterus transabdominal	Usua approp		Limited	O 0 mSv	,	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	1	11
		References			•			•		•	•	•	•				
			15 (-3112890)			Study Quality 4											
US duplex Doppler pregnant uterus	May approp		Limited	O 0 mSv	,	O 0 mSv [ped]	6	6	0	0	0	2	0	5	2	1	3
			References		•			•		•		•	•	•			
			4 (27875472)			4											
			14 (19001647)			4											
US pregnant uterus transvaginal		May be appropriate Lir		O 0 mSv	,	O 0 mSv [ped]	6	6	0	0	0	0	3	6	3	1	0
			References			Study	Quality			•		•	•	•	•		
			15 (-3112890)				4										
MRI abdomen and pelvis without IV contrast	Usually approp		Limited	O 0 mSv	,	O 0 mSv [ped]	2	2	6	6	1	0	0	0	0	0	0
			References		·	Study	Quality										
			13 (30471891)				4										
MRI abdomen and pelvis without and with IV contrast	Usually approp		Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	12	1	0	0	0	0	0	0	0
			References			Study	Quality		_								

13 (30471891)	4
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Variant 2: High risk for placenta accreta spectrum disorder. Initial Imaging.

	Appropriaten	ness		n 1 nn	- ·	3.5.11			F	inal	Tabu	latio	ns					
Procedure	Category		Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9			
US duplex Doppler pregnant uterus	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	2	1	10			
		References	Study	Quality		•	•		•	•		•	•					
		37 (15118654)	-	3														
		45 (12047546)		4														
		14 (19001647)			4													
US pregnant uterus transabdominal	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	1	11			
		References	Study			,			•	!		•						
		2 (24176160)		_	4													
		6 (21907956)			2													
		10 (26428505)			4													
		11 (29405319)		4														
		16 (10776009)		3														
		37 (15118654)		3														
		38 (9393534)			3													
		46 (1522623)			4													
US pregnant uterus transvaginal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	1	0	1	3	8			
		References		Study	Quality		'	,						•				
		15 (-3112890)		4														
MRI abdomen and pelvis without IV contrast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	1	3	4	4	1	0			
		References		Study	Quality													

		11 (29405319)			4										
		14 (19001647)			4										
		20 (16946217)			3										
		26 (20070704)			4										
		28 (23020968)			2										
		29 (24210438)			4										
		30 (22109310)			3										
		31 (23489020)			3										
		32 (26295658)			2										
		33 (17222719)		2											
		34 (22268173)			4										
		41 (16582134)			4										
		43 (28293719)			3										
		44 (25748486)			2										
MRI abdomen and pelvis without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	2	2	5	6	0	2	0	0	0	0	0
		References		Stud	y Quality										
		14 (19001647)			4										
		20 (16946217)			3										
		26 (20070704)			4										
		27 (-3112580)			4										

Variant 3: Follow-up of placenta accreta spectrum disorder.

Procedure	Appropriateness		COF	A L LA DDI	, D 1 DD1	D 4	N. 1.	Final Tabulations										
	Catego	I	SOE	Adults RRL	L Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9		
US duplex Doppler pregnant uterus	Usua approp		Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	0	4	9		
		D . C			G.	1 0 114												

References Study Quality
14 (19001647) 4

		45 (12047546)		4											
US pregnant uterus transabdominal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	1	11
		References		Study	y Quality										
		5 (21055510)													
		10 (26428505)													
US pregnant uterus transvaginal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	1	0	0	4	8
		References		Study											
		15 (-3112890)													
MRI abdomen and pelvis without IV contrast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	5	5	0	0	0	3	6	4	0	0	0
		References		Study											
		32 (26295658)		2											
		49 (26195324)		4											
MRI abdomen and pelvis without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	2	2	5	6	0	2	0	0	0	0	0
		References		Study Quality											
		14 (19001647)		4 4											
		17 (18716136)													
		26 (20070704)			4										
		27 (-3112580)			4										

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.