## American College of Radiology ACR Appropriateness Criteria®

## First Trimester Vaginal Bleeding

Variant 1: First trimester vaginal bleeding. Initial imaging.

Procedure	Appropriateness	COF	A L L DDI	D I DDI	Rating	24.11	Final Tabulations											
	Category	SOE	Adults RRL	Peds RRL		Median	1	2	3	4	5	6	7	8	9			
US pelvis transvaginal	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	0	1	0	0	0	0	1	2	10			

References       Study Quality         21 (23262929)       4         22 (24106937)       4         32 (26400869)       3         17 (24658951)       3         34 (25336492)       4         36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4         1 (30887596)       4		
22 (24106937)       4         32 (26400869)       3         17 (24658951)       3         34 (25336492)       4         36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	References	Study Quality
32 (26400869)       3         17 (24658951)       3         34 (25336492)       4         36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	21 (23262929)	4
17 (24658951)       3         34 (25336492)       4         36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	22 (24106937)	4
34 (25336492)       4         36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	32 (26400869)	3
36 (27696434)       2         23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	17 (24658951)	3
23 (24567458)       4         37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	34 (25336492)	4
37 (-3112580)       4         33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	36 (27696434)	2
33 (30157093)       4         35 (27420402)       4         31 (30702252)       4         30 (35225369)       4         28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	23 (24567458)	4
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28 (35988056)       4         29 (35602250)       4         2 (20538195)       4         8 (23674774)       4         4 (30570248)       4	31 (30702252)	4
29 (35602250) 4 2 (20538195) 4 8 (23674774) 4 4 (30570248) 4	30 (35225369)	4
2 (20538195) 4 8 (23674774) 4 4 (30570248) 4	28 (35988056)	4
8 (23674774) 4 4 (30570248) 4	29 (35602250)	4
4 (30570248) 4	2 (20538195)	4
	8 (23674774)	4
1 (30887596)	4 (30570248)	4
	1 (30887596)	4

		27 (31306310)			4										
		20 (32045016)			4										
		19 (32780427)			4										
		3 (28948411)	4												
		13 (32889610)			4										
		25 (31483898)													
		26 (32036643)		4											
,		24 (21508763)	24 (21508763)		Good										
US pelvis transabdominal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	8	8	0	0	2	0	0	0	3	4	5
		References		Study											
		17 (24658951)		3											
		19 (32780427)													
		13 (32889610)													
US duplex Doppler pregnant uterus	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	5	5	0	0	1	3	5	4	0	0	0
		References		Study Quality 4									•		
		16 (34077607)													
,		15 (-3198422)		4											
MRI pelvis without IV contrast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	4	4	3	0	4	4	2	1	0	0	0
		References		Study Quality 4 4 4									•		
		8 (23674774)													
		6 (21257883)													
		5 (24660723)													
		12 (24315547)		3 3											
		11 (27599330)													
		14 (26476825)		2											
		9 (-3188538)		4											
		10 (35441841)		3											
		13 (32889610)			4										

MRI pelvis without and with IV contrast	Usually approp		Limited	O 0 mSv	,	O 0 mSv [ped]	2	2	7	3	4	0	0	0	0	0	0
			References			Study					•						
			10 (35441841)														
		9 (-3188538)			4												
		6 (21257883)					4										
		11 (27599330)			3												
CT pelvis with IV contrast	Usually approp		Limited	<b>���</b> 1-10 mSv	0	���� 3- 10 mSv [ped]	1	1	8	4	2	0	0	0	0	0	0
		References															
		5 (24660723)			4												
		8 (23674774)			4												
		6 (21257883)			4												
		7 (-3188535)				4											
CT pelvis without IV contrast	Usually approp		Limited	<b>≎≎≎</b> 1-10 mSv	0	���� 3- 10 mSv [ped]	1	1	9	2	3	0	0	0	0	0	0
		References			Study												
		8 (23674774)			4												
		6 (21257883)			4												
		5 (24660723)				4											
CT pelvis without and with IV contrast	Usually approp			30	���� 3- 10 mSv [ped]	1	1	13	1	0	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.