

American College of Radiology
ACR Appropriateness Criteria®

Assessment of Gravid Cervix

Variant 1: Assessment of gravid cervix. Nulliparous or no history of prior preterm birth. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US cervix transabdominal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	1	1	2	5
		References		Study Quality											
		25 (25935775)		3											
		24 (23246815)		2											
US cervix transvaginal	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	6	6	0	0	0	0	2	5	0	0	2
		References		Study Quality											
		32 (28291893)		2											
		29 (26928150)		3											
		30 (26874299)		3											
		31 (25162252)		3											
		4 (8569824)		3											
		33 (8469465)		4											
US cervix transperineal	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	1	2	2	0	5	1	0	0
		References		Study Quality											
		27 (15904442)		3											
		26 (11339192)		3											
		28 (11587014)		2											

Variant 2: Assessment of gravid cervix. History of prior preterm birth. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US cervix transvaginal	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	0	1	8
		References		Study Quality											
		37 (27133011)		4											
		38 (26223688)		4											
		39 (25425376)		4											
		6 (17671254)		1											
		8 (21472815)		1											
		36 (22996126)		4											
		7 (22475493)		1											
		5 (21446209)		Good											
		33 (8469465)		4											
US cervix transperineal	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	4	1	0	6	0	0	0
		References		Study Quality											
		27 (15904442)		3											
		26 (11339192)		3											
		28 (11587014)		2											
US cervix transabdominal	Usually not appropriate	Strong	O 0 mSv	O 0 mSv [ped]	3	3	0	0	6	2	0	2	1	0	0
		References		Study Quality											
		25 (25935775)		3											
		35 (24702669)		3											
		34 (23590553)		3											
		24 (23246815)		2											

Variant 3: Assessment of gravid cervix. Suspected preterm labor. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US cervix transvaginal	Usually appropriate	Limited	O O mSv	O O mSv [ped]	9	9	0	0	0	0	0	0	0	1	8
		References		Study Quality											
		45 (27872420)		3											
		44 (24201691)		3											
		42 (15746658)		3											
		33 (8469465)		4											
		43 (30668186)		3											
US cervix transperineal	May be appropriate	Strong	O O mSv	O O mSv [ped]	6	6	0	0	1	0	2	4	1	0	1
		References		Study Quality											
		41 (27158943)		2											
		40 (24728104)		2											
US cervix transabdominal	May be appropriate	Expert Consensus	O O mSv	O O mSv [ped]	4	4	0	1	4	2	2	1	1	0	0

Variant 4: Assessment of gravid cervix. Induction of labor or active term labor. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US cervix transperineal	May be appropriate (Disagreement)	Expert Opinion	O 0 mSv	O 0 mSv [ped]	5	5	1	1	6	1	0	2	0	0	0
		References		Study Quality											
		47 (26496894)		1											

		48 (25846302)		1											
		46 (23024020)		2											
US cervix transvaginal	Usually not appropriate	Strong	○ 0 mSv	○ 0 mSv [ped]	3	3	1	0	7	1	0	2	0	0	0
		References		Study Quality											
		52 (26742573)		2											
		54 (27018468)		2											
		53 (26068943)		4											
		51 (24832011)		2											
		20 (23716514)		1											
		49 (23533137)		Good											
		50 (27924657)		2											
		33 (8469465)		4											
US cervix transabdominal	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	3	3	3	1	4	0	1	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.