

**American College of Radiology
ACR Appropriateness Criteria®**

Nuchal Translucency Evaluation at 11 to 14 Weeks Gestational Age

Variant 1: Routine nuchal translucency measurement at 11 to 14 weeks of gestation for single or twin gestations. Initial imaging.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US pregnant uterus transabdominal	Usually appropriate	Strong	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	0	0	0	0	1	10
		References	Study Quality												
		2 (27101120)	4												
		17 (28295158)	Good												
		27 (14634564)	Good												
		22 (16055577)	4												
		24 (16282175)	3												
		12 (21210475)	4												
		5 (1392745)	4												
		23 (11981911)	4												
		26 (24201688)	Inadequate												
		21 (28108156)	4												
		18 (25813012)	4												
		25 (25689240)	4												
US pregnant uterus transvaginal	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	1	2	5	1	2	0
		References	Study Quality												
		29 (7640926)	3												
		28 (12389656)	4												

22 (16055577)	4
24 (16282175)	3
23 (11981911)	4
26 (24201688)	Inadequate
21 (28108156)	4
31 (20638573)	4
50 (19155913)	4

US echocardiography fetal	Usually appropriate	Moderate	0 0 mSv	0 0 mSv [ped]	9	9	0	0	0	1	1	1	0	2	6
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References	Study Quality
20 (23716531)	4
2 (27101120)	4
42 (25052917)	4
40 (12636327)	4
41 (23751926)	4
44 (25258423)	Good
38 (28385862)	4
26 (24201688)	Inadequate
43 (17267839)	4
39 (21210483)	4

US duplex Doppler pregnant uterus	May be appropriate	Strong	0 0 mSv	0 0 mSv [ped]	6	6	0	0	0	0	2	6	0	1	2
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References	Study Quality
19 (-3112890)	4
37 (21606749)	4
32 (19031473)	4
36 (18307193)	4
17 (28295158)	Good
35 (11339183)	4
34 (19338027)	4
33 (28482343)	Good

US pregnant uterus transvaginal	May be appropriate	31 (20638573)		4		0	0	0	1	2	5	1	1	1	
		Limited	O 0 mSv	O 0 mSv [ped]	6										6
		References	Study Quality		29 (7640926)										3

Variant 3: Increased nuchal translucency in dichorionic twins at 11 to 14 weeks of gestation.

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
US pregnant uterus transabdominal	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	2	8
		References		Study Quality											
		59 (24176159)		4											
		45 (27875472)		4											
		58 (18771984)		4											
		2 (27101120)		4											
		57 (27101119)		4											
		60 (27661652)		4											
		56 (20033999)		3											
		53 (15644291)		4											
		55 (24339187)		4											
		54 (24916689)		Inadequate											
US echocardiography fetal	Usually appropriate	Moderate	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	1	0	0	4	6
		References		Study Quality											
		20 (23716531)		4											
		44 (25258423)		Good											
		26 (24201688)		Inadequate											

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.