

Figure 1

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

Clinical Condition: Headache — Child

Variant 1: Primary headache (chronic or recurrent headache including migraine without permanent neurologic signs or signs of increased intracranial pressure).

Radiologic Procedure	Rating	Comments	RRL*
MRI head without contrast	3		O
MRI head without and with contrast	3		O
CT head without contrast	2		☼☼☼
CT head with contrast	1		☼☼☼
CT head without and with contrast	1		☼☼☼☼
CTA head with contrast	1		☼☼☼☼
MRA head without contrast	1		O
MRA head without and with contrast	1		O
Arteriography cerebral	1		☼☼☼☼
Rating Scale: 1,2,3 Usually not appropriate; 4,5,6 May be appropriate; 7,8,9 Usually appropriate			*Relative Radiation Level

Figure 2

Relative Radiation Level Designations		
Relative Radiation Level*	Adult Effective Dose Estimate Range	Pediatric Effective Dose Estimate Range
O	0 mSv	0 mSv
☼	<0.1 mSv	<0.03 mSv
☼☼	0.1-1 mSv	0.03-0.3 mSv
☼☼☼	1-10 mSv	0.3-3 mSv
☼☼☼☼	10-30 mSv	3-10 mSv
☼☼☼☼☼	30-100 mSv	10-30 mSv
*RRL assignments for some of the examinations cannot be made, because the actual patient doses in these procedures vary as a function of a number of factors (eg, region of the body exposed to ionizing radiation, the imaging guidance that is used). The RRLs for these examinations are designated as "Varies".		

From: American College of Radiology Expert Panel on Pediatric Imaging: Hayes LL, Coley BD, Karmazyn B, et al. ACR Appropriateness Criteria: Headache — child. American College of Radiology, revised 2012. Available at: <https://acsearch.acr.org/docs/69439/Narrative/> accessed April 21, 2015.

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