







		References	Study Quality												
		22 (22264184)	2												
MRI complete spine with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	11	0	3	0	1	0	1	0	0
CT complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	14	1	0	1	0	0	0	0	0
CT complete spine without IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	15	0	0	0	1	0	0	0	0
CT complete spine with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕⊕ 10-30 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	14	2	0	0	0	0	0	0	0

**Variant 2: Adult. Orthostatic headache from suspected intracranial hypotension within 72 hours of dural puncture or other spinal intervention that could cause CSF leakage. Initial imaging.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT head with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕ 0.3-3 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT head without IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕ 0.3-3 mSv [ped]	1	1	11	0	2	0	1	1	1	0	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	⊕⊕⊕ 1-10 mSv	⊕⊕⊕⊕ 3-10 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
MRI head without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	13	0	2	0	1	0	0	0	0
MRI head without and with IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	13	0	2	0	0	0	1	0	0
MRI complete spine without IV contrast	Usually not appropriate	Expert Consensus	0 0 mSv	0 0 mSv [ped]	1	1	14	0	1	0	1	0	0	0	0

MRI complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	14	0	1	0	1	0	0	0	0
CT head cisternography	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv		1	1	15	1	0	0	0	0	0	0	0
DTPA cisternography	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv		1	1	14	0	1	1	0	0	0	0	0
MRI complete spine with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT myelography complete spine	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗⊗ 30-100 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	13	0	1	1	1	0	0	0	0
CT complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT complete spine without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	0	0	0	1	0	0	0	0
CT complete spine with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
MRI head with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT myelography dynamic complete spine	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗⊗ 30-100 mSv		1	1	15	0	0	0	1	0	0	0	0
Radiographic myelography digital subtraction complete spine	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv		1	1	15	1	0	0	0	0	0	0	0
MR myelography complete spine	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	13	0	1	1	1	0	0	0	0

**Variant 3: Adult. Orthostatic headache from suspected intracranial hypotension without improvement post 72 hours of dural puncture or other spinal intervention that could cause CSF leakage. Initial imaging.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT head with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗ 0.3-3 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT head without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗ 0.3-3 mSv [ped]	1	1	10	0	1	1	2	1	0	1	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
MRI head without IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	11	0	1	2	1	0	1	0	0
MRI head without and with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	11	0	1	2	1	0	1	0	0
MRI complete spine without IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	12	0	2	0	0	1	1	0	0
MRI complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	12	1	1	0	0	0	2	0	0
CT head cisternography	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv		1	1	15	1	0	0	0	0	0	0	0
DTPA cisternography	Usually not appropriate	Expert Consensus	⊗⊗⊗ 1-10 mSv		1	1	13	0	2	0	1	0	0	0	0
MRI complete spine with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT myelography complete spine	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗⊗ 30-100 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	12	0	2	0	1	0	1	0	0
CT complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	1	0	0	0	0	0	0	0
CT complete spine without IV contrast	Usually not appropriate	Expert Consensus	⊗⊗⊗⊗ 10-30 mSv	⊗⊗⊗⊗ 3-10 mSv [ped]	1	1	15	0	0	0	1	0	0	0	0









24 (35261281)	4
39 (35614322)	2
38 (30226459)	2
37 (33602750)	2
44 (35332017)	4
43 (37128777)	4
42 (31518974)	2
41 (31857327)	4
40 (33122215)	4

Radiographic myelography digital subtraction complete spine	Usually appropriate	Strong	☢☢☢☢ 10-30 mSv		8	8	0	1	0	1	1	0	3	4	6
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References	Study Quality
24 (35261281)	4
54 (26849709)	4
53 (33484155)	2
44 (35332017)	4
43 (37128777)	4
42 (31518974)	2
41 (31857327)	4
40 (33122215)	4

DTPA cisternography	May be appropriate	Limited	☢☢☢ 1-10 mSv		5	5	0	0	0	1	14	1	0	0	0
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References	Study Quality
46 (22990687)	2
45 (26823556)	4

MR myelography complete spine	May be appropriate	Limited	0 0 mSv	0 0 mSv [ped]	5	5	0	0	0	0	12	4	0	0	0
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References	Study Quality
48 (22173753)	4
47 (34292360)	4
49 (24852289)	2

			50 (32354709)	4												
			51 (32720867)	4												
CT head cisternography	Usually not appropriate	Limited	☹☹☹ 1-10 mSv		1	1	14	1	0	0	1	0	0	0	0	
References				Study Quality												
22 (22264184)				2												

**Variant 6: Adult. Rebound headache following epidural blood patch or fibrin glue patch treatment for suspected intracranial hypotension. Initial imaging.**

Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	Final Tabulations								
							1	2	3	4	5	6	7	8	9
CT head with IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹ 0.3-3 mSv [ped]	1	1	14	2	0	0	0	0	0	0	0
CT head without IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹ 0.3-3 mSv [ped]	1	1	14	1	0	0	0	0	1	0	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv	☹☹☹☹ 3-10 mSv [ped]	1	1	14	1	0	0	1	0	0	0	0
MRI head without IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	12	1	1	1	0	0	0	1	0
MRI head without and with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	10	0	1	3	0	0	1	0	1
MRI complete spine without IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	12	0	1	2	1	0	0	0	0
MRI complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	13	0	1	0	1	0	1	0	0
CT head cisternography	Usually not appropriate	Expert Consensus	☹☹☹ 1-10 mSv		1	1	15	1	0	0	0	0	0	0	0

DTPA cisternography	Usually not appropriate	Expert Consensus	☼☼☼ 1-10 mSv		1	1	15	1	0	0	0	0	0	0	0
MRI complete spine with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	13	2	1	0	0	0	0	0	0
CT myelography complete spine	Usually not appropriate	Expert Consensus	☼☼☼☼☼ 30-100 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	14	1	0	0	0	0	1	0	0
CT complete spine without and with IV contrast	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	14	1	0	1	0	0	0	0	0
CT complete spine without IV contrast	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	14	2	0	0	0	0	0	0	0
CT complete spine with IV contrast	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv	☼☼☼☼ 3-10 mSv [ped]	1	1	14	2	0	0	0	0	0	0	0
MRI head with IV contrast	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	14	2	0	0	0	0	0	0	0
CT myelography dynamic complete spine	Usually not appropriate	Expert Consensus	☼☼☼☼☼ 30-100 mSv		1	1	14	1	0	0	0	1	0	0	0
Radiographic myelography digital subtraction complete spine	Usually not appropriate	Expert Consensus	☼☼☼☼ 10-30 mSv		1	1	14	1	0	1	0	0	0	0	0
MR myelography complete spine	Usually not appropriate	Expert Consensus	○ 0 mSv	○ 0 mSv [ped]	1	1	14	1	0	1	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](http://www.acr.org/ac).