American College of Radiology ACR Appropriateness Criteria®

Hearing Loss and/or Vertigo

Variant 1: Acquired conductive hearing loss in absence of clinically evident mass in the middle ear. Initial imaging.

	Appropriateness	207							F	inal	Tabu	latio	ns		
Procedure	Appropriateness Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT temporal bone without IV contrast	Usually appropriate	Strong	��� 1-10 mSv		9	9	0	0	0	1	0	0	0	2	12
		References		Study	Quality										
		5 (27430449)			4										
		1 (26491893)			4										
		10 (24625612)			2										
		11 (24162764)			2										
		12 (21739095)			4										
		8 (12563123)			2										
		9 (16424241)			2										
		2 (19733309)			4								_		
CT temporal bone with IV contrast	Usually not appropriate	Strong	��� 1-10 mSv		3	3	6	1	4	2	0	1	1	0	0
		References		Study	Quality										
		5 (27430449)			4										
		1 (26491893)			4										
		10 (24625612)			2										
		11 (24162764)			2										
		12 (21739095)			4										
		8 (12563123)			2										

		9 (16424241)			2										
		2 (19733309)			4										
CT temporal bone without and with IV contrast	Usually not appropriate	Strong	��� 1-10 mSv		2	2	7	1	3	0	2	2	0	0	0
		References		Study	y Quality							•		•	
		5 (27430449)			4										
		1 (26491893)			4										
		10 (24625612)			2										
		11 (24162764)			2										
		12 (21739095)			4										
		8 (12563123)			2										
		9 (16424241)			2										
		2 (19733309)		_	4			1			1				
CT head without IV contrast	Usually not appropriate	Expert Consensus	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	2	2	7	2	5	1	0	0	0	0	0
CTA head with IV contrast	Usually not appropriate	Expert Consensus	୭୭୭ 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	1	1	10	1	3	0	1	0	0	0	0
CT head with IV contrast	Usually not appropriate	Expert Consensus	୭୭୭ 1-10 mSv	��� 0.3- 3 mSv [ped]	1	1	10	3	1	1	0	0	0	0	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	��� 1-10 mSv	���� 3- 10 mSv [ped]	1	1	10	4	0	1	0	0	0	0	0
MRA head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	10	2	3	0	0	0	0	0	0
MRA head without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	3	0	0	0	0	0	0
MRI head and internal auditory canal without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	8	2	3	0	1	1	0	0	0
MRI head and internal auditory canal without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	8	2	4	0	0	0	0	1	0

MRV head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	2	0	0	0	0	0	0	
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Variant 2: Acquired conductive hearing loss secondary to cholesteatoma or neoplasm with suspected intracranial or inner ear extension. Surgical planning.

D 1	Appropriateness	COF	A L L DDI	D I DDI	D 41	3.6.11			I	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT temporal bone without IV contrast	Usually appropriate	Limited	��� 1-10 mSv		9	9	0	0	0	1	0	0	2	0	12
		References		Study	Quality										
		14 (26351038)			2										
		1 (26491893)			4										
		13 (23158050)			4										
		2 (19733309)			4								_		
MRI head and internal auditory canal without and with IV contrast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	1	0	0	1	0	2	3	8
		References		Study	Quality										
		5 (27430449)			4										
		13 (23158050)			4										
		15 (22877955)			4										
		2 (19733309)			4										
MRI head and internal auditory canal without IV contrast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	1	1	1	10	1	0	1
		References		Study	Quality		-								
		5 (27430449)			4										
		13 (23158050)			4										
		15 (22877955)			4										
		2 (19733309)			4										
CTA head with IV contrast	May be appropriate (Disagreement)	Expert Opinion	��� 1-10 mSv	���� 3- 10 mSv [ped]	5	5	2	2	4	3	2	0	2	0	0

CT temporal bone with IV contrast	May be appropriate	Limited	��� 1-10 mSv		5	5	1	0	0	6	6	2	0	0	0
		References		Study	y Quality		•								
		14 (26351038)			2										
		1 (26491893)			4										
		13 (23158050)			4										
		2 (19733309)			4										
CT temporal bone without and with IV contrast	Usually not appropriate	Limited	��� 1-10 mSv		3	3	6	1	3	1	2	1	1	0	0
		References		Study	y Quality										
		14 (26351038)			2										
		1 (26491893)			4										
		13 (23158050)			4										
		2 (19733309)			4										
MRA head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	3	3	3	2	8	1	0	0	1	0	0
MRA head without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	3	3	6	1	3	2	2	1	0	0	0
MRV head without IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	3	3	5	1	7	1	0	0	1	0	0
		References		Study	y Quality			•				•			
		5 (27430449)			4										
		13 (23158050)			4										
		15 (22877955)			4										
		2 (19733309)			4										
CT head with IV contrast	Usually not appropriate	Expert Consensus	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	2	2	6	2	3	2	0	1	0	0	1
CT head without IV contrast	Usually not appropriate	Expert Consensus	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	2	2	7	2	4	0	0	1	1	0	0

MRV head with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	2	2	1	7	3	2	0	0	2	0	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	1	1	8	3	1	0	1	2	0	0	0

Variant 3: Acquired sensorineural hearing loss. Initial imaging.

	Appropriateness	207		D 1 DD1		3.5.11			F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
MRI head and internal auditory canal without and with IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	2	2	11
		References		Study	Quality										
		5 (27430449)			4										
		27 (24370138)			4										
		18 (23681028)			3										
		19 (22980677)			4										
		24 (306012)			4										
		20 (15454755)			1										
		25 (1636533)			4										
		26 (8279324)			3										
		22 (14967854)			3										
		30 (10817038)			2										
		21 (10512225)			3										
		2 (19733309)			4										
		28 (10733180)			4										
		23 (10782723)			4										
		29 (9227246)		T	3				1	1	1				
MRI head and internal auditory canal without IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	8	8	0	0	0	0	0	2	4	4	5
		References		Study	Quality										

			5 (27430449)				4										
			27 (24370138)				4										
			18 (23681028)				3										
			19 (22980677)				4										
			24 (306012)				4										
			20 (15454755)				1										
			25 (1636533)				4										
			26 (8279324)				3										
			22 (14967854)				3										
			30 (10817038)				2										
			21 (10512225)				3										
			2 (19733309)				4										
			28 (10733180)				4										
			23 (10782723)				4										
			29 (9227246)				3										
CT temporal bone without IV contrast	May be appropria	e ate	Limited	��� 1-1(mSv)		5	5	0	0	1	1	7	3	3	0	0
			References			Study	Quality										
			16 (23713470)				3										
			13 (23158050)				4										
			2 (19733309)				4										
CT temporal bone with IV contrast	May be appropria	e ate	Limited	��� 1-1(mSv)		4	4	3	3	1	1	5	2	0	0	0
			References			Study	Quality										
			16 (23713470)				3										
			13 (23158050)				4										
			2 (19733309)				4										
CT head with IV contrast	Usually nappropria		Limited	��� 1-10 mSv)	��� 0.3- 3 mSv [ped]	3	3	3	4	3	2	2	1	0	0	0
			References			Study	Quality										
			17 (28461783)				3										

CT head without IV contrast	Usually not appropriate	Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	3	1	7	2	0	1	1	0	0
		References		Study	Quality										
		17 (28461783)			3										
CT temporal bone without and with IV contrast	Usually not appropriate	Limited	≎≎≎ 1-10 mSv		2	2	6	2	3	0	2	2	0	0	0
		References		Study	Quality										
		16 (23713470)			3										
		13 (23158050)			4										
		2 (19733309)			4										
CT head without and with IV contrast	Usually not appropriate	Limited	��� 1-10 mSv	���� 3- 10 mSv [ped]	2	2	5	3	4	1	1	1	0	0	0
		References		Study	Quality										
		17 (28461783)			3		_								
CTA head with IV contrast	Usually not appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	1	1	10	1	3	0	0	1	0	0	0
MRA head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	10	2	2	1	0	0	0	0	0
MRA head without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	2	1	0	0	0	0	0
MRV head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	2	1	0	0	0	0	0
MRV head with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	1	1	0	0	0	0	0	0

Variant 4: Mixed conductive and sensorineural hearing loss. Initial imaging.

The Approximation of the Appro	priateness	000	A I II DDI	D I DDI	D 4	3.5 11			F	inal	Tabu	llatio	ns		
Procedure	tegory	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9

	Appropriateness	907							F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT temporal bone without IV contrast	Usually appropriate	Limited	��� 1-10 mSv		9	9	0	0	1	0	1	0	0	1	12
		References		Study	Quality										
		31 (27364152)			3										
		32 (23235550)			4										
MRI head and internal auditory canal without and with IV contrast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	8	8	0	0	0	0	1	1	2	7	4
		References		Study	Quality										
		2 (19733309)			4										
MRI head and internal auditory canal without IV contrast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	7	7	1	0	0	0	2	4	6	1	1
		References		Study	Quality										
		2 (19733309)			4										
CT temporal bone with IV contrast	Usually not appropriate	Limited	≎≎≎ 1-10 mSv		3	3	4	1	4	2	3	1	0	0	0
		References		Study	Quality		-					-			
		31 (27364152)			3										
		32 (23235550)			4										
CT temporal bone without and with IV contrast	Usually not appropriate	Limited	≎≎≎ 1-10 mSv		3	3	6	1	4	1	2	1	0	0	0
		References		Study	Quality										
		31 (27364152)			3										
		32 (23235550)			4										
CT head with IV contrast	Usually not appropriate	Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	4	3	2	2	3	1	0	0	0
		References		Study	Quality										
		17 (28461783)			3										

CT head without IV contrast	Usuall approp	Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	3	2	6	2	0	1	1	0	0
		References		Study	Quality										
		17 (28461783)			3										
CT head without and with IV contrast	Usuall approp	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	2	2	6	3	3	2	1	0	0	0	0
CTA head with IV contrast	Usuall approp	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	1	1	9	1	3	1	1	0	0	0	0
MRA head without IV contrast	Usuall approp	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	3	0	0	0	0	0	0
MRA head without and with IV contrast	Usuall approp	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	3	0	0	0	0	0	0
MRV head without IV contrast	Usuall approp	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	1	3	0	0	0	0	0	0
MRV head with IV contrast	Usuall approp	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	2	0	0	0	0	0	0	0

Variant 5: Congenital hearing loss or total deafness or cochlear implant candidate. Surgical planning.

D 1	Appropriateness	COF	A L L DDI	n i nni	D 41	3.6 11			F	inal '	Гаbu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT temporal bone without IV contrast	Usually appropriate	Limited	≎≎≎ 1-10 mSv		9	9	0	0	0	0	0	0	0	2	13

References	Study Quality
35 (26810296)	3
33 (25573134)	3
34 (25208295)	4
36 (24232063)	3
24 (306012)	4

MRI head and internal auditory canal without and with IV contrast	Usually appropriat		O 0 mSv	O 0 mSv [ped]	8	8	0	0	0	0	1	2	4	5	3
		References		Study	y Quality										
		39 (24892366))		4										
		38 (16151346))		3										
		37 (11950658))		4										
MRI head and internal auditory canal without IV contrast	Usually appropriat		O 0 mSv	O 0 mSv [ped]	7	7	1	0	0	0	4	0	5	2	3
		References		Study	y Quality										
		39 (24892366))		4										
		38 (16151346))		3										
		37 (11950658))		4										
CT temporal bone with IV contrast	Usually no appropriat		��� 1-10 mSv		3	3	5	2	4	0	2	2	0	0	0
		References		Study	y Quality										
		35 (26810296))		3										
		33 (25573134))		3										
		34 (25208295))		4										
		36 (24232063))		3										
		24 (306012)			4			1				1			
CT temporal bone without and with IV contrast	Usually no appropriat		��� 1-10 mSv)	2	2	7	1	3	1	2	1	0	0	0
		References		Study	y Quality										
		35 (26810296))		3										
		33 (25573134))		3										
		34 (25208295))		4										
		36 (24232063))		3										
		24 (306012)			4										
CTA head with IV contrast	Usually no appropriat		��� 1-10 mSv	9	1	1	10	1	2	1	1	0	0	0	0

CT head with IV contrast	Usually not appropriate	Expert Consensus	≎≎≎ 1-10 mSv	��� 0.3- 3 mSv [ped]	1	1	8	2	5	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	9	0	5	0	0	0	0	1	0
CT head without and with IV contrast	Usually not appropriate	Expert Consensus	≎≎≎ 1-10 mSv	���� 3- 10 mSv [ped]	1	1	9	1	5	0	0	0	0	0	0
MRA head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	2	0	0	0	0	0	0
MRA head without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	2	0	0	0	0	0	0
MRV head without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	11	2	2	0	0	0	0	0	0
MRV head with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	1	0	0	0	0	0

Variant 6: Episodic vertigo with or without associated hearing loss or aural fullness (peripheral vertigo). Initial imaging.

.	Appropri	ateness	TOD	ALL DD	.	D 1 DD1	D 4	36.11			F	inal '	Tabu	latio	ns		
Procedure	Categ		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
CT temporal bone without IV contrast	Usua approp		Strong	≎≎≎ 1-10 mSv)		8	8	0	0	1	0	0	0	1	6	7
			References			Study	Quality										
			14 (26351038)				2										
			5 (27430449)				4										
			8 (12563123)				2										
			9 (16424241)				2										
MRI head and internal auditory canal without and with IV contrast	Usua approp		Strong	O 0 mSv		O 0 mSv [ped]	8	8	0	0	0	0	2	0	1	5	7
			References			Study	Quality										

ally	Strong	O 0 mSv	/	O 0 mSv	7	7
	3 (24314796)				4	
	4 (18646412)				4	
	43 (21330087)				2	
	42 (22201289)				3	
	48 (22201445)				3	
	50 (23474961)				3	
	47 (23995329)				4	
	51 (24769636)				3	
	44 (25251300)				2	
	52 (25457542)				2	
	49 (25742875)				2	
	54 (25956665)				3	
	45 (25985318)				2	
	53 (26333096)				3	
	5 (27430449)				4	
	46 (27300452)				3	

Referenc	ees	Study	Quality	
46 (273004	452)		3	
5 (274304	49)		4	
53 (263330	096)		3	
45 (259853	318)		2	
54 (259566	665)		3	
49 (257428	875)		2	
52 (254575	542)		2	
44 (252513	300)		2	
51 (247696	636)		3	
47 (239953	329)		4	
50 (234749	961)		3	
48 (222014	445)		3	

			42 (22201200)			2										
			42 (22201289)			3										
	_		43 (21330087)			2										
	_		4 (18646412)			4										
			3 (24314796)		1	4			1							1
CTA head and neck with IV contrast	May be appropri		Limited	��� 1-10 mSv	���� 3- 10 mSv [ped]	4	4	1	1	4	5	2	2	0	0	0
			References		Study	Quality										
			41 (28328808)			3										
MRA head and neck without and with IV contrast	May be appropri		Limited	O 0 mSv	O 0 mSv [ped]	4	4	1	2	3	5	2	2	0	0	0
		•	References		Study	Quality										•
			55 (10459295)			3										
CT temporal bone with IV contrast	Usually appropri		Expert Consensus	��� 1-10 mSv		3	3	5	2	3	1	2	2	0	0	0
CT head with IV contrast	Usually appropri		Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	4	2	5	1	3	0	0	0	0
			References		Study	Quality										
			40 (22940762)			4										
CT head without IV contrast	Usually appropri		Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	3	3	2	4	3	3	2	0	1	0	0
			References		Study	Quality		-								
			40 (22940762)		-	4										
CT head without and with IV contrast	Usually appropri		Limited	��� 1-10 mSv	≎≎≎≎ 3- 10 mSv [ped]	3	3	4	3	5	3	0	0	0	0	0
			References		Study	Quality										
			40 (22940762)			4										
MRA head and neck without IV contrast	Usually appropri		Limited	O 0 mSv	O 0 mSv [ped]	3	3	1	3	5	4	1	1	0	0	0
			References			Quality			•		•					•

			55 (10459295)				3										
CT temporal bone without and with IV contrast	Usuall approp		Strong	��� 1-1 mSv	0		2	2	7	1	3	1	1	2	0	0	0
			References			Study	Quality		•								
			14 (26351038) 5 (27430449)				2										
							4										
			8 (12563123)				2										
			9 (16424241)				2										
MRV head without IV contrast	Usuall approp		Expert Consensus	O 0 mSv	,	O 0 mSv [ped]	2	2	7	1	3	0	2	1	0	1	0
MRV head with IV contrast	Usuall approp		Expert Consensus	O 0 mSv	/	O 0 mSv [ped]	1	1	10	2	3	0	0	0	0	0	0

Variant 7: Persistent vertigo with or without neurological symptoms (central vertigo). Initial imaging.

	Appropriate	ness		, D 1 DD1	- ·	3.5.11			F	'inal	Tabu	latio	ns		
Procedure	Category		Adults RR	L Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
MRI head and internal auditory canal without and with IV contrast	Usually appropriat		O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	2	12
		References		Study	Quality										
		56 (27495834)			3										
		54 (25956665)			3										
		59 (24920847)			2										
		57 (23336972)			3										
		40 (22940762)			4										
		58 (11698800)			4										
		3 (24314796)			4										
MRI head and internal auditory canal without IV contrast	Usually appropriat		O 0 mSv	O 0 mSv [ped]	8	8	0	0	0	0	1	1	5	5	3
		References		Study	Quality										

			56 (27495834)			3										
			54 (25956665)			3										
			59 (24920847)			2										
			57 (23336972)			3										
			40 (22940762)			4										
			58 (11698800)			4										
			3 (24314796)			4										
CT head without IV contrast	May approp		Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	6	6	0	0	1	1	3	7	2	0	1
			References		Study	y Quality										
			56 (27495834)			3										
			54 (25956665)			3										
			40 (22940762)			4										
CTA head and neck with IV contrast	May approp		Limited	��� 1-10 mSv	���� 3- 10 mSv [ped]	6	6	0	0	1	0	1	8	5	0	0
			References		Study	y Quality										
			41 (28328808)			3										
MRA head and neck without IV contrast	May approp		Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	1	0	3	8	3	0	0
			References		Study	y Quality										
			55 (10459295)			3										
MRA head and neck without and with IV contrast	May approp	be oriate	Limited	O 0 mSv	O 0 mSv [ped]	6	6	0	0	1	0	1	7	6	0	0
			References		Study	y Quality										
			55 (10459295)			3										
CT head with IV contrast	May approp		Limited	��� 1-10 mSv	��� 0.3- 3 mSv [ped]	5	5	0	1	5	0	7	1	1	0	0
	·		References		Study	y Quality										
			56 (27495834)		3											
			54 (25956665)			3										

			40 (22940762)			4										
CT head without and with IV contrast	Usuall approp		Limited	��� 1-10 mSv	0 \$999 3 10 mSv [ped]		3	2	3	5	0	3	2	0	0	0
			References		St	ıdy Quality										
			56 (27495834)			3										
			54 (25956665)			3										
			40 (22940762)			4	_	_								
CT temporal bone without IV contrast		ally not Expert Consensus mSv 40 (22940762) Expert Consensus mSv		0	2	2	7	1	3	2	1	1	0	0	0	
CT temporal bone with IV contrast	Usuall approp		Expert Consensus	��� 1-10 mSv	0	1	1	10	1	2	2	0	0	0	0	0
CT temporal bone without and with IV contrast	Usuall approp		Expert Consensus	��� 1-10 mSv	0	1	1	9	2	2	2	0	0	0	0	0
MRV head without IV contrast	Usuall approp		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	8	3	2	1	1	0	0	0	0
MRV head with IV contrast	Usuall approp		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	10	3	1	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.