

**On-line Table 1: Follow-up symptoms for HRMRI vessel wall imaging**

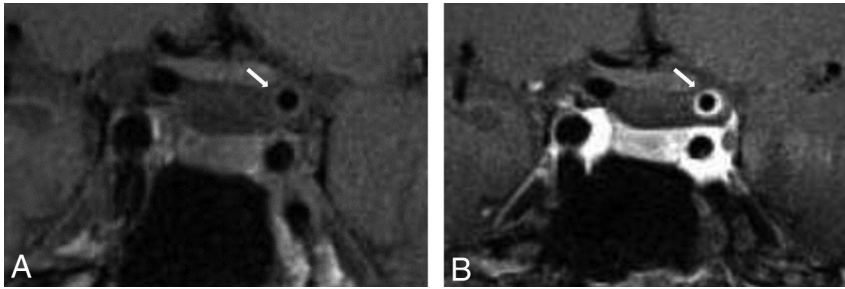
Patient	Initial Symptoms	Time from Initial Symptoms to 1st HRMRI (mo)	Symptoms at 1st MRI	Symptoms at Follow-Up HRMRI
V1	Diffuse HA, neurodeficits	72	Remission	Asymptomatic
V2	Neurodeficits	1.5	Active	Stable
V3	Diffuse HA, neurodeficits	2.7	Active	Stable
V4	Neurodeficit	9	Subacute	Active
V5	Thunderclap HA, neurodeficits	4.5	Stable	Improved
V6	Diffuse HA, neurodeficits	1.7	Remission	Improved
V7	Diffuse HA	15	Remission	No follow-up
V8	Diffuse HA	9	Active	No follow-up
V9	Neurodeficit	78	Remission	No follow-up
V10	Diffuse HA, neurodeficits	14	Remission	No follow-up
V11	Thunderclap HA, neurodeficits	171	Stable	No follow-up
V12	Diffuse HA, neurodeficits	122	Remission	No follow-up
V13	Diffuse HA, neurodeficits	1.7	Active	No follow-up
R14	Thunderclap HA, neurodeficit	0.5	Active	Active
R15	Thunderclap HA, neurodeficit	0.5	Active	Asymptomatic
R16	Thunderclap HA	0.4	Active	No follow-up
R17	Thunderclap HA, neurodeficit	0.3	Active	Mild deficit
R18	Thunderclap HA	0.4	Active	Asymptomatic
R19	Thunderclap HA	0.4	Active	Mild HA
R20	Throbbing HA	0.6	Active	Active
R21	Thunderclap HA, neurodeficit	0.2	Active	Mild deficit
R22	Throbbing HA, neurodeficit	1.9	Active	Asymptomatic
R23	Thunderclap HA	0.3	Active	No follow-up
R24	Thunderclap HA, neurodeficit	2.6	Active	No follow-up
R25	Thunderclap HA, neurodeficit	0.7	Active	No follow-up
R26	Thunderclap HA	1.7	Active	No follow-up

**Note:**—V indicates vasculitis; R, RCVS; HA, headache.

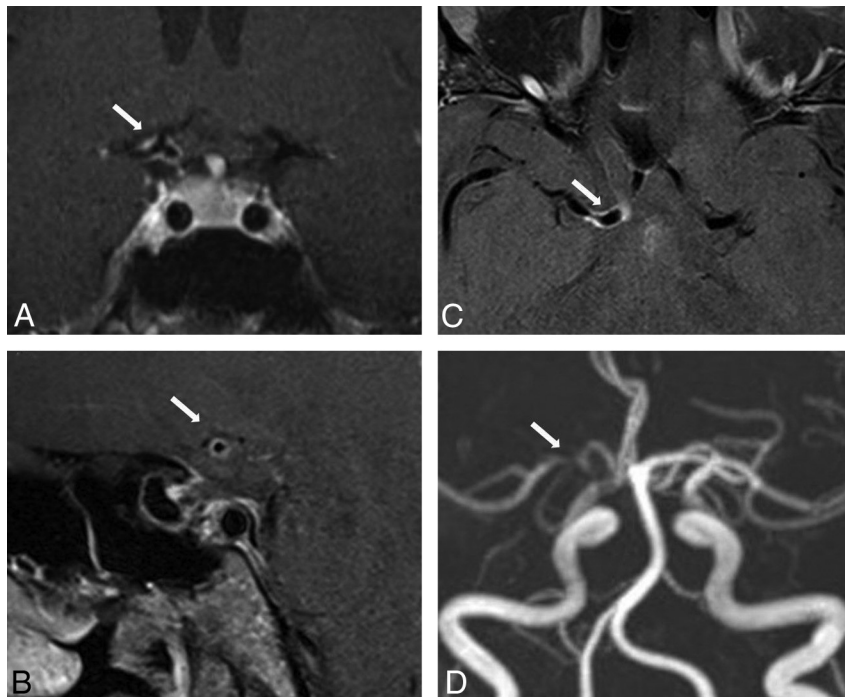
**On-line Table 2: Follow-up HRMRI vessel wall imaging characteristics for patients with a known clinical diagnosis**

Pt No.	Age (yr)	Vessel	First HRMRI Vessel Wall Imaging					F/U HRMRI Vessel Wall Imaging				
			MRA	Thickening	Enhancement	Concentric/ Eccentric	Treatment	F/U (mo)	MRA	Thickening	Enhancement	Concentric/ Eccentric
V1	42	M2	Normal	Yes	Yes	E	A	7.5	Normal	Resolved	Resolved	Resolved
V2	41	ICA, M1, P2	Stenosis	Yes	Yes	C	None	12	Patent	Mild/none	Mild/none	C/none
V3	23	A1	Irregularity	Yes	Yes	C	S,C,A	7	Resolving narrowing	Mild	Yes	C
V4	43	ICA	Occlusion, focal narrowing	Yes	Yes	C	S,C,A	11	Occlusion	Yes	Yes	C
V5	53	M1, ICA, M1	Severe focal	Yes	Yes	C-E	S,M,C	16	Focal stenosis	Yes	Yes	C
V6	34	A2	Mild stenosis	Yes	Yes	C	S,C,A	15	Mild stenosis left A2	Yes	Yes	C
V7	69	V4, Basilar	Narrowing	Yes	Yes	C	S,C,A					
V8	61	M3	Normal	Yes	Yes	E	S,M,C					
V9	38	Normal	Normal	No	No	None	S,A					
V10	50	A1, M1	Stenosis	Yes	Yes	E	S					
V11	18	ICA, P1, Basilar, A1	Narrowing	Yes	Yes	C-E	S,C					
V12	41	M1	Occlusion	Yes	Yes	C	S,M,C					
V13	61	ICA	Narrowing	Yes	Yes	C	A					
R1	18	M1	Normal	Yes	No	None	V	2	Normal	No	No	None
R2	54	M1, A2, A3	Irregularity	Yes	Mild	C	S,V	1	Improved	No	No	None
R3	53	A2, A3, P1	Irregularity	Yes	No	None	V	0.5	Normal	No	No	None
R4	51	A1, M1, P1	Irregularity	Yes	Mild	C	V	4	Subtle narrowing	Yes	Minimal	None
R5	54	A1,A2, P1	Irregularity	Yes	No	None	V	2	Normal	No	No	None
R6	39	A1, M3	Stenosis	Yes	No	None	V	2	Normal	Yes	No	None
R7	24	M1, A2	Narrowing	Yes	No	None	S,V	7	Normal	No	No	None
R8	52	M1	Normal	Yes	No	None	V,N,S	0	Normal	No	No	None
R9	61	ACA, MCA, PCA, ICA	Narrowing	Yes	Mild	C	S,V,A	3	Normal	No	No	None
R10	41	None	Normal	No	No	No	V,N					
R11	58	ACA, MCA, PCA	Irregularity	Yes	Mild	C	S,V					
R12	54	M1	Narrowing	No	No	None	N,V					
R13	15	None	Normal	No	No	None	V					

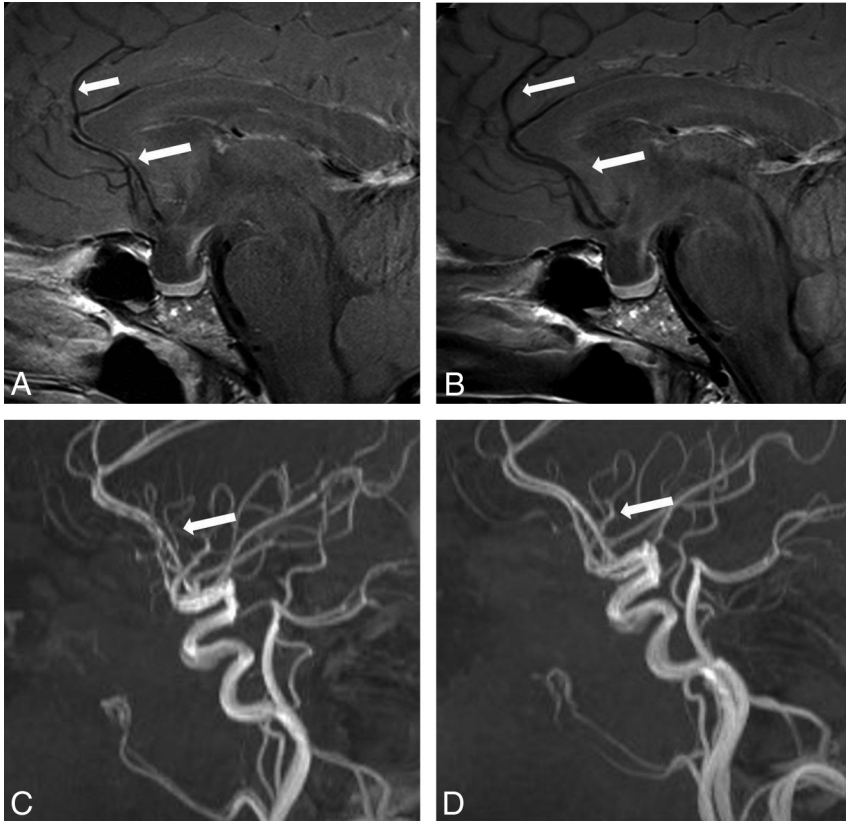
**Note:**—V indicates vasculitis (in Pt No. column); R, RCVS; C, concentric (in Concentric/Eccentric column); E, eccentric; V, verapamil (in Treatment column); S, steroids; M, methylprednisolone; N, nimodipine; C, cyclophosphamide (in Treatment column); A, azathioprine; F/U, follow-up; ACA, anterior cerebral artery; PCA, posterior cerebral artery.



**ON-LINE FIG 1.** A 61-year-old man with CNS vasculitis. 3T-HRMRI T1-weighted arterial wall with fat suppression and saturation band. *A*, Pregadolinium coronal image shows smooth concentric wall thickening of the left supraclinoid ICA compared with the contralateral supraclinoid ICA. *B*, Postgadolinium coronal image in the same plane shows strong enhancement of the smooth concentric wall thickening.



**ON-LINE FIG 2.** A 41-year-old woman with CNS vasculitis. 3T-HRMRI postgadolinium T1-weighted arterial wall with fat suppression and saturation band in 3 planes: coronal (*A*), sagittal (*B*), and axial (*C*) images of the terminal supraclinoid ICA and proximal M1 with smooth, concentric wall enhancement and thickening. *D*, MRA shows stenosis of lumen and narrowing of M1 and the terminal supraclinoid ICA.



**ON-LINE FIG 3.** A second example in a different plane of a 54-year old woman with RCVS. 3T-HRMRI postgadolinium T1-weighted arterial wall sagittal image (A) demonstrates minimal wall enhancement, wall thickening, and narrowing of the A2 and A3 anterior cerebral artery. B, Follow-up at 1.5 months shows resolution of wall enhancement, wall thickening, and narrowing of A2 and A3 anterior cerebral artery. Corresponding MRA demonstrates irregular narrowing of A2 (C) and subsequent resolution with patent vessels (D).