

SUPPLEMENTAL MATERIALS

Topographical Analysis of Aneurysm Wall Enhancement with 3D Mapping

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Supplementary Table S1. Technical parameters for HR-VWI acquisition in a 7T GE MR950 MRI Scanner.

Parameter	Image Sequence		
	T1 CUBE	T2 CUBE	3D TOF
TR (msec)	700	2500	40
TE (msec)	10.3 (minimum)	71.84	2.3
Flip angle	90	90	12
Bandwidth (Hz/pixel)	62.5	62.5	62.5
FOV (mm)	180 x 180	256 x 256	220x220
Matrix (mm)	384 x 384	256 x 256	512x512
Voxel size (mm)	0.5 x 0.5 x 1	1 x 1 x 1	0.43 x 0.43 x 1.0
Slice thickness (mm)	0.5	1.0	1.0
ETL	22	100	1

CE-MRA: contrast-enhanced MRA; ETL: echo train length; FOV: field of view; TE: echo time; TR: response time.

Supplementary Table S2. Demographic and location data for all aneurysms in cohort.

Location	Shape	Size (mm)	Size Ratio	Aspect Ratio	Sex	Age	HTN	HLD
PICA	Saccular*	3.8	1.24	1.75	F	82	Y	N
ACOM	Saccular	5.9	1.68	1.29	M	57	N	N
ACOM	Saccular*	3.2	1.25	2.00	M	77	N	N
ICA	Saccular*	16.7	7.52	6.35	F	61	N	N
ACOM	Saccular	6.4	2.89	1.16	M	77	Y	Y
ACOM	Saccular	4.4	1.65	1.07	M	71	Y	Y
BA	Saccular	3.8	1.87	1.67	F	69	Y	Y
ICA	Saccular*	3.9	1.09	1.44	F	63	Y	N
PCOM	Saccular	16.8	3.57	5.29	F	69	Y	Y
ICA	Saccular	5.9	0.68	0.95	F	73	Y	Y
ICA	Saccular	4.1	0.69	1.06	F	76	Y	N
ICA	Saccular	2.8	0.72	1.27	F	64	N	N
BA	Saccular	4.8	2.61	1.09	F	64	N	N
ICA	Saccular	5.9	1.05	0.93	F	71	N	Y
ICA	Saccular	10.2	3.27	2.87	F	61	N	N
MCA	Saccular	3.5	1.11	1.27	F	79	Y	Y
MCA	Saccular	7.8	3.52	0.91	M	68	Y	Y
ICA	Saccular	3.6	0.85	1.03	F	63	N	Y
ACOM	Saccular	8.2	3.78	2.32	M	61	Y	Y
BA	Saccular	13.1	6.48	6.24	F	60	Y	N
MCA	Saccular	7.0	2.16	0.69	M	51	Y	N
ACOM	Saccular	5.3	1.37	1.60	F	62	Y	N
MCA	Saccular	7.1	2.46	2.37	M	58	Y	N
ACA	Saccular	7.7	3.29	2.31	F	74	Y	Y
BA	Fusiform	11.3	N/A	N/A	F	68	Y	Y
BA	Fusiform	11.3	N/A	N/A	F	68	Y	Y
ICA	Fusiform	5.3	N/A	N/A	M	62	N	N
BA	Fusiform*	27.0	N/A	N/A	M	59	Y	Y
ICA	Fusiform	25.8	N/A	N/A	F	79	Y	Y
ICA	Fusiform	5.9	N/A	N/A	F	49	N	N
ICA	Fusiform	6.7	N/A	N/A	F	49	N	N
ICA	Fusiform*	29.3	N/A	N/A	F	60	Y	Y

*Indicates presence of intramural thrombosis