

On-line Table 1: Angioarchitecture (all ages)^a

Characteristic	No. (%)	Median Dx Age (yr)	95% CI	P Value ^b
AVM nidus size				.009
<3 cm	417 (55%)	37.1	34.1–40.2	
3–6 cm	305 (40%)	30.7	27.9–34.5	
>6 cm	38 (5%)	26.8	16.9–33.9	
AVM side				.087
Right	321 (44%)	32.8	29.8–35.9	
Left	363 (50%)	34.1	32.1–37.1	
Middle	39 (5%)	37.2	27.6–53.8	
Central location				.617
Yes	282 (38%)	29.5	27.4–33.6	
No	453 (62%)	36.6	33.8–38.4	
Dural location				.518
Yes	3 (<1%)	25.9	NA	
No	723 (>99%)	34.1	32.2–36.6	
Lobar location				.050
Yes	555 (76%)	34.5	32.7–37.0	
No	180 (24%)	30.1	26.8–39.8	
Posterior fossa location				<.001
Yes	110 (15%)	40.9	28.6–47.8	
No	616 (85%)	33.6	31.4–35.7	
Eloquence				<.001
Yes	452 (61%)	31.5	9.0–34.1	
No	292 (39%)	37.4	34.3–42.3	
AVM border				.707
Compact	573 (80%)	35.1	33.2–37.7	
Diffuse	140 (20%)	31.2	27.4–37.2	
Venous drainage				.040
Superficial	389 (51%)	37.8	34.9–40.6	
Superficial and deep	238 (31%)	31.5	28.1–35.1	
Exclusively deep	134 (18%)	26.2	21.9–32.2	
No. of draining veins				.572
1 vein	208 (39%)	33.2	28.4–36.9	
2+ veins	329 (61%)	34.9	32.2–37.5	
No. of veins reaching sinus				.678
0–1 veins	171 (34%)	32.3	28.3–37.0	
2+ veins	330 (66%)	34.1	31.4–37.0	
Venous stenosis (%)				.761
0–24	266 (47%)	32.2	28.3–36.1	
25–49	93 (16%)	38.1	32.2–42.4	
50–74	126 (22%)	34.4	31.1–40.0	
75–99	71 (12%)	33.2	28.4–39.0	
100	15 (3%)	41.6	27.4–50.3	
Venous thrombosis (%)				.551
0–24	504 (96%)	34.0	32.1–36.6	
25–49	4 (1%)	21.1	NA	
50–74	4 (1%)	18.0	NA	
75–99	1 (<1%)	NA	NA	
100	14 (3%)	34.1	2.2–50.3	
Venous ectasia				.040
Yes	273 (48%)	39.4	35.3–42.8	
No	292 (52%)	31.1	28.1–33.9	
Venous reflux				.159
Yes	161 (29%)	38.1	32.9–43.4	
No	387 (71%)	33.4	30.0–35.8	
Moyamoya type changes				.659
Yes	8 (1%)	27.4	21.4–49.3	
No	563 (99%)	33.9	31.5–36.5	
Pial-to-pial collateralization				.425
Yes	120 (21%)	36.1	29.5–39.8	
No	448 (79%)	33.8	31.3–36.6	
Aneurysm related to shunt flow				<.001
Yes	172 (25%)	44.1	28.9–33.9	
No	515 (75%)	31.6	40.0–47.8	
Aneurysm not related to shunt flow				.069
Yes	16 (2%)	47.1	2.1–36.5	
No	670 (98%)	33.9	34.5–53.8	
Intranidal aneurysm				0.143
Yes	107 (16%)	31.9	26.6–39.4	
No	575 (84%)	34.6	32.8, 37.0	

Note:—Dx indicates diagnosis; NA, not applicable.

^a All variables are missing varying amounts of data.

^b P values are from log-rank tests of survivor functions.

On-line Table 2: Angioarchitecture (children vs adults)^a

Characteristic	All (N = 833)	Child (0–18 yr) (n = 203)	Adult (≥19 yr) (n = 630)	P Value ^b
AVM nidus size				.069
<3 cm	417 (55%)	95 (53%)	322 (55%)	
3–6 cm	305 (40%)	68 (38%)	237 (41%)	
>6 cm	38 (5%)	15 (8%)	23 (4%)	
AVM side				.839
Right	321 (44%)	79 (46%)	242 (44%)	
Left	363 (50%)	84 (49%)	279 (51%)	
Middle	39 (5%)	10 (6%)	29 (5%)	
Central location				.075
Yes	282 (38%)	78 (44%)	201 (36%)	
No	453 (62%)	98 (56%)	355 (64%)	
Dural location				1.000
Yes	3 (<1%)	0 (0%)	3 (1%)	
No	723 (>99%)	174 (100%)	549 (99%)	
Lobar location				.131
Yes	555 (76%)	125 (71%)	430 (77%)	
No	180 (24%)	51 (29%)	129 (23%)	
Posterior fossa location				.809
Yes	110 (15%)	25 (14%)	85 (15%)	
No	616 (85%)	151 (86%)	465 (85%)	
Eloquence				.212
Yes	452 (61%)	112 (65%)	340 (59%)	
No	292 (39%)	60 (35%)	232 (41%)	
AVM border				.218
Compact	573 (80%)	126 (77%)	447 (81%)	
Diffuse	140 (20%)	38 (23%)	102 (19%)	
Venous drainage				<.001
Superficial	389 (51%)	67 (37%)	322 (55%)	
Superficial and deep	238 (31%)	61 (34%)	177 (30%)	
Exclusively deep	134 (18%)	51 (28%)	83 (14%)	
Number of draining veins				.046
1 vein	208 (39%)	58 (47%)	150 (36%)	
2+ veins	329 (61%)	66 (53%)	263 (64%)	
No. of veins reaching sinus				.117
0–1 veins	171 (34%)	46 (40%)	125 (32%)	
2+ veins	330 (66%)	68 (60%)	262 (68%)	
Venous stenosis (%)				.144
0–24	266 (47%)	75 (56%)	191 (44%)	
25–49	93 (16%)	22 (16%)	71 (16%)	
50–74	126 (22%)	24 (18%)	102 (23%)	
75–99	71 (12%)	12 (9%)	59 (14%)	
100	15 (3%)	2 (1%)	13 (3%)	
Venous thrombosis (%)				.607
0–24	504 (96%)	121 (96%)	383 (96%)	
25–49	4 (1%)	0 (0%)	4 (1%)	
50–74	4 (1%)	2 (2%)	2 (1%)	
75–99	1 (<1%)	0 (0%)	1 (<1%)	
100	14 (3%)	3 (2%)	11 (3%)	
Venous ectasia				<.001
Yes	273 (48%)	45 (35%)	228 (52%)	
No	292 (52%)	85 (65%)	208 (48%)	
Venous reflux				.075
Yes	161 (29%)	29 (23%)	132 (31%)	
No	387 (71%)	98 (77%)	289 (69%)	
Moyamoya type changes				.208
Yes	8 (1%)	0 (0%)	8 (2%)	
No	563 (99%)	135 (100%)	428 (98%)	
Pial-to-pial collateralization				.090
Yes	120 (21%)	21 (16%)	99 (23%)	
No	448 (79%)	112 (84%)	336 (77%)	
Aneurysm related to shunt flow				<.001
Yes	172 (25%)	21 (13%)	151 (29%)	
No	515 (75%)	139 (87%)	376 (71%)	
Aneurysm not related to shunt flow				.384
Yes	16 (2%)	2 (1%)	14 (3%)	
No	670 (98%)	158 (99%)	512 (97%)	
Intranidal aneurysm				.537
Yes	107 (16%)	28 (17%)	79 (15%)	
No	575 (84%)	134 (83%)	441 (85%)	

^a Table entries are No. (%) or mean ± SD. Note that all variables are missing varying amounts of data.

^b P values are from the Fisher exact test.