On-line Table 1: Clinical data of all children with Sturge-Weber syndrome

Patient	Gender	Age (yr) at MR Imaging	Age (yr) at First Seizure	Seizure Frequency	Last Seizure before MR Imaging	IQ[a]	Hemiparesis	Antiepileptic Drug
1	M	7.0	0.5	>10/day	2 h	47.00	Yes	VPA, LEV
2	F	2.0	0.1	1/yr	>1 yr	55.00	Yes	CBZ, PHB, CLOB
3	F	10.0	0.2	Monthly	1 yr	55.00	Yes	LAM
4	F	5.0	0.5	<1/yr	6 mo	117.00	No	PHB
5	M	5.0	5.0	Monthly	12 h	99.00	No	PHT, LEV
6	M	1.8	0.7	10/mo	2 days	105.00	No	PHB, LEV, OXC
7	F	0.8	0.2	Few/mo	1 mo		Yes	PHB, OXC, LEV
8	M	4.0	3.5	Weekly	10 days	110.00	No	OXC
9	M	9.0	0.6	1/yr	9 mo	93.00	Yes	CBZ
10	F	1.6	0.6	Few/yr	6 mo	71.00	Yes	LEV, VPA
11	M	1.8	1.6	Few/yr	4 mo	92.00	No	LEV
12	F	2.0		0		105.00	No	None
13	F	4.0	2.0	<1/yr	>1 yr	102.00	No	LAM
14	F	4.0	0.1	<1/yr	>1 yr	91.00	Yes	OXC

[a] IQ was not assessed for the child (patient 7) <1 year of age.
CBZ indicates carbamazepine; CLOB, clobazam; LAM, lamotrigine; LEV, levetiracetam; OXC, oxcarbazepine; PHB, phenobarbital; VPA, valproate.

On-line Table 2: Brain atrophy, rCBF, rCBV, and rMTT values measured in the white matter ipsi- and contralateral to the angioma[a]

Perfusion Group	Location of Angioma	BA-AI	rCBF CBF Ipsi	rCBF CBF Cont	rCBF CBF-AI$_s$	rCBV CBV Ipsi	rCBV CBV Cont	rCBV CBV-AI$_s$	rMTT MTT Ipsi	rMTT MTT Cont	rMTT MTT-AI$_s$
1	Left FPO	−0.17	16.65	39.67	−0.82	2.33	4.65	−0.67	4.58	7.17	−0.44
1	Left FPTO	−0.35	44.49	58.84	−0.28	4.77	5.41	−0.13	5.65	5.75	−0.02
1	Left FTPO	−0.23	29.04	58.42	−0.67	3.33	5.68	−0.52	3.46	5.95	−0.53
1	Left TO	−0.13	22.16	32.87	−0.39	3.49	4.88	−0.33	7.48	9.02	−0.19
1	Right PO	−0.05	35.08	41.26	−0.16	3.96	3.87	0.02	7.46	5.67	0.27
1	Left PTO	−0.13	30.77	49.03	−0.46	2.31	2.93	−0.24	1.22	3.63	−0.99
1	Right FPTO	−0.21	64.57	77.80	−0.19	5.82	6.27	−0.07	5.57	4.99	0.11
1	Left PO	−0.03	50.24	56.56	−0.12	4.88	5.31	−0.08	5.91	5.71	0.04
1	Left P	−0.07	20.17	25.14	−0.22	1.08	1.03	0.05	3.19	2.64	0.19
2	Right FPTO	−0.11	63.05	42.52	0.39	6.11	2.97	0.69	5.83	4.36	0.29
2	Right PTO	−0.04	20.40	14.70	0.32	6.00	4.38	0.31	17.64	17.57	0.00
2	Left PTO	0.01	19.66	15.11	0.26	5.73	4.52	0.24	17.85	18.14	−0.02
2	Left P	0.01	84.04	62.13	0.30	6.92	4.56	0.41	5.18	4.60	0.12
2	Left FP	−0.07	55.03	41.02	0.29	5.21	3.58	0.37	6.00	5.64	0.06
P value[a]		.01	.46	.32	<.001	.01	.21	<.001	.10	.74	.21

[a] P values were calculated by comparison of variables (using Mann-Whitney U-test) between low-perfusion (group 1) and high-perfusion (group 2) subgroups, based on CBF asymmetries comparing sides ipsi- versus contralateral to the angioma.
FP indicates frontal and parietal lobe; FPO, frontal, parietal and occipital lobe; FPTO, frontal, parietal, temporal and occipital lobe; P = parietal lobe; PO, parietal and occipital lobe; PTO, parietal, temporal and occipital lobe; TO, temporal and occipital lobe.