

Supplementary Table 1. Results of the voxel-based comparisons of rCBF, rCBV, rMTT, EF maps between participants with and without reappearing symptom after microvascular decompression surgery in the hemifacial spasm patients

Group analysis	Cluster size	Cluster location	BA	Talairach coordinates	Z score
rCBF					
No reappearing > reappearing	511865	Rt. cerebellum culmen		10.03, -46.99, -4.96	65535
		Rt. cingulate gyrus	32	12.68, 32.96, 28.33	65535
		Rt. precuneus	7	6.51, -64.78, 47.35	7.795
rCBV					
No reappearing > reappearing	46695	Rt. lingual gyrus	19	9.91, -61.62, 0.41	5.772
		Rt. cerebellum culmen		8.66, -46.86, -6.32	5.299
		Lt. cerebellum declive		-10.75, -72.65, -15.85	5.055
	5770	Rt. extra-nuclear		4.36, -13.6, 14.32	4.248
		Rt. middle frontal gyrus	6	41.45, -2.95, 48.39	3.910
		Rt. caudate body		18.12, -18.65, 22.19	3.505
	778	Rt. lentiform nucleus, lateral globus pallidus		18.53, -0.53, -4.47	3.986
	1174	Lt. superior frontal gyrus		-17.84, 51.02, 32.23	3.517
		Rt. superior frontal gyrus		5.55, 39.81, 45.08	3.225
	319	Rt. inferior parietal lobule		61.02, -30.83, 29.86	3.158
	145	Lt. superior parietal lobule	7	-33.74, -70.03, 44.82	3.096
	249	Lt. inferior temporal gyrus		-32.42, -2.72, -37.97	3.057
	364	Lt. frontal lobe sub-gyral		-16.97, -13.09, 53.2	3.055
		Lt. precentral gyrus		-23.92, -17.24, 52.69	3.011
	119	Rt. superior frontal gyrus		18.73, 62.61, -1.19	3.054
	130	Rt. brainstem*		2.12, -39.75, -35.49	2.879
	180	Lt. cerebellum culmen		-35.49, -44.67, -27.13	2.843
101	Rt. inferior occipital gyrus	17	12.68, -90.46, -7.68	2.775	
rMTT					
No reappearing < reappearing	429263	Rt. supramarginal gyrus		40.12, -39.5, 32.74	7.015
		Rt. superior temporal gyrus		38.92, -40.85, 17.73	6.920
EF					
No reappearing < reappearing	83085	Lt. medial frontal gyrus	8	-4.11, 41.65, 41.03	4.759
		Lt. superior frontal gyrus		-15.04, 48.47, 29.33	4.498
		Rt. temporal lobe sub-gyral		43.65, -3.81, -15.16	4.389
	152	Rt. lingual gyrus		9.81, -97.95, -3.04	3.245
	142	Lt. middle frontal gyrus	8	-26.43, 23.07, 44.3	3.153
	833	Lt. extra-nuclear		-28.87, -26.48, 3.08	3.091
	548	Rt. middle temporal gyrus		44.45, -68.44, 11.16	3.012
		Rt. middle occipital gyrus	19	40.3, -77.93, 7.48	2.764
	223	Lt. superior temporal gyrus		-56.73, -32.58, 8.79	2.985
		Lt. middle temporal gyrus		-58.07, -47.29, 0.62	2.477
	225	Rt. superior parietal lobule	7	30.11, -60.84, 49.47	2.888
	461	Lt. middle occipital gyrus		-37.45, -83.12, 5.68	2.879
		Lt. inferior occipital gyrus		-28.96, -88.84, -8.23	2.872
	138	Rt. inferior parietal lobule		46.93, -44.64, 41.83	2.821
	131	Inter-hemispheric*		-1.28, -64.88, 5.32	2.761
115	Rt. cuneus		22.08, -79.1, 20.57	2.649	

Subject's age was used as covariates. A significance level of $p=0.05$ was applied with correction for multiple comparisons using the false discovery rate (FDR) method and with the cluster size of at least 100 contiguous voxels. rCBF : relative cerebral blood flow, rCBV : relative cerebral blood volume, rMTT : relative mean transit time, EF : extraction fraction, BA : Brodmann area, Rt. : right, Lt. : left