

Table E1. Patient Data, Tumor Properties, and BOLD Functional MR Imaging Activation Measurements

Patient No./Age (y)/Sex	Tumor Type	Motor Deficit	FLAIR Abnormality (cm ³)	Tumor Volume (cm ³)	Tumor Distance to the PMC	Ipsilateral PMC Gyral Volume Difference (%)	Ipsilateral PMC Relative Activation Difference (%)	Ipsilateral PMC Adjusted Activation Difference (%)
1/68/F	GBM	Yes	9.1	10.2	Near	+81	-23	-67
2/62/M	GBM	No	57.3	17.7	Near	+23	-16	-32
3/55/M	GBM	No	3.1	5.9	Near	-25	-66	-54
4/61/M	GBM	No	14.4	5.3	Near	+12	+28	+15
5/69/M	GBM	No	21.6	15.8	Near	+12	-60	-65
6/75/M	GBM	Yes	59.7	13.5	Far	-23	-47	-31
7/63/M	GBM	Yes	105.7	45	Far	-10	-67	-61
8/59/M	GBM	No	16.8	17.9	Near	-7	-20	-15
9/54/F	GBM	Yes	66.2	11.5	Near	-10	-74	-71
10/56/M	GBM	No	7.9	35.4	Near	+32	+12	-15
11/50/F	GBM	No	85.1	80	Near	-18	-89	-86
12/69/F	GBM	Yes	28.2	7.6	Near	+9	-65	-68
13/61/M	GBM	Yes	15.8	47.1	Near	+3	-2	-5
14/62/F	GBM	No	9.7	3.3	Near	+5	+8	+2
15/77/F	GBM	Yes	12.6	8.9	Near	+34	-15	-36
16/74/M	GBM	No	55.1	16.3	Near	+54	-30	-55
17/60/F	GBM	Yes	12.6	48	Near	-15	-70	-65
18/68/F	GBM	No	33.9	40.3	Near	+48	-94	-96
19/27/M	GBM	No	125.4	45.4	Near	-3	-49	-48
20/59/M	GBM	No	68.8	84.3	Far	-9	-47	-31
Mean*			40.4 ± 35.6	28 ± 24.2		+10 ± 28	-39 ± 35	-44 ± 30
Range			3.1-125.4	3.3-84.3		-25 To +81	-94 To +28	-96 To +15
21/55/F	Metastasis	No	20.8	14.4	Near	-12	-34	-25
22/65/M	Metastasis	Yes	74.3	6.7	Near	+47	-57	-71
23/59/M	Metastasis	No	68	2.6	Far	+15	+66	+44
24/45/M	Metastasis	No	0.7	3.2	Near	-1	-6	-5
25/66/M	Metastasis	No	52.1	13	Near	+10	-13	-21
26/60/M	Metastasis	Yes	51.3	2.8	Near	+68	+18	-30
27/73/M	Metastasis	No	35.6	9.3	Near	-1	+31	+32
28/68/F	Metastasis	Yes	9.5	13.1	Near	+36	+14	-16
29/64/F	Metastasis	Yes	22.8	2.8	Near	-4	-41	-39
30/55/F	Metastasis	No	57.7	1.6	Near	-4	-60	-58
31/47/M	Metastasis	No	0.4	32.5	Near	-14	-18	-5
32/74/F	Metastasis	Yes	1.8	0.8	Near	+16	+14	-2
33/62/F	Metastasis	No	34.2	6	Near	+30	-18	-36
34/70/M	Metastasis	Yes	14.9	5.1	Near	+6	-16	-20
35/56/M	Metastasis	Yes	99.4	8.9	Far	+9	-34	-39
36/56/M	Metastasis	No	5.7	6.7	Near	+23	+9	-12
37/68/M	Metastasis	No	25.4	2.7	Far	+3	+71	+66
38/52/F	Metastasis	No	54.1	5.8	Near	+47	-59	-72

39/75/F	Metastasis	Yes	0.7	1.1	Near	+21	+14	-5
40/24/M	Metastasis	No	1.7	0.7	Near	+12	-29	-37
41/54/F	Metastasis	Yes	88.5	3	Near	+32	-39	-54
Mean *			34.3 ± 31	6.8 ± 7.2		+16 ± 21	-9 ± 37	-19 ± 35
Range			0.4-99.4	0.8-32.5		-12% To +68	-60 To +71	-72 To +66
42/67/M	Meningioma	No	13.5	25	Near	-19	+65	+105
43/60/M	Meningioma	No	0.9	14.6	Near	-16	-23	-9
44/93/F	Meningioma	No	0.04	45.7	Near	+21	+54	+27
45/67/F	Meningioma	No	37.8	70.1	Far	-19	-28	-11
46/64/F	Meningioma	No	1.9	11.5	Near	+4	-46	-48
47/64/M	Meningioma	No	0.2	1.9	Far	-17	+4	+26
48/63/F	Meningioma	Yes	21	26.5	Near	+23	+12	-9
49/59/F	Meningioma	No	0.2	12.7	Far	-20	-14	+8
50/32/M	Meningioma	No	0.1	2.6	Near	-4	+27	+33
51/76/M	Meningioma	No	84.8	23.6	Near	+32	-11	-32
52/29/F	Meningioma	No	0.2	40.9	Near	-23	-7	+21
53/62/F	Meningioma	No	0.1	4.5	Near	-12	+9	+24
54/72/M	Meningioma	No	2.5	15.4	Near	+49	+3	-31
55/75/F	Meningioma	No	33.0	38.4	Near	+68	+19	-29
56/72/F	Meningioma	No	0.5	36.9	Near	-1	+6	+7
57/63/F	Meningioma	No	11.6	6.2	Near	+14	+48	+30
58/66/F	Meningioma	No	0.4	142.4	Far	+2	+6	+4
59/70/F	Meningioma	No	17.9	16.6	Near	+45	+2	-30
60/56/M	Meningioma	No	25.4	11.7	Far	+10	-15	-22
61/55/F	Meningioma	No	4.1	43.1	Far	-9	-25	-18
62/66/F	Meningioma	No	0.1	40.9	Near	+2	-13	-15
63/62/F	Meningioma	No	52.1	28	Far	-1	-27	-26
Mean *			14 ± 21.7	30 ± 30.4		+6 ± 25	+2 ± 28	0 ± 34
Range			0.04-84.8	1.9-142.4		-23 To +68	-46 To +65	-48 To +105

* Data are means ± standard deviations.