

On-line Table: Demographic information for patients with tumor

Surgery/ Patient No.	Sex	Age (years)	Handedness	Pathology	Lesion Location	Intraoperative Mapping	Preoperative Neurology Report: Speech	Postoperative Neurology Report: Speech	Language Tasks
No Prior									
1	F	48	Left	Low grade	Right insula	Yes, discordant with fMRI prediction	Dysarthria	Dysarthria	Letter, verb
2	M	60	Right	Anaplastic astrocytoma	Left insula	Yes, concordant with fMRI prediction	Speech hesitation and word-finding difficulty	Speech hesitation and word-finding difficulty	Letter, verb
3	F	55	Right	Metastatic adenocarcinoma	Left frontal	No	Aphasia	Aphasia with dysarthria	Letter
4	F	50	Left	Anaplastic oligodendroglioma	Right frontotemporal	No	Fluent	Fluent	Category, letter, verb
5	F	65	Right	Glioblastoma multiforme	Right temporoparietal	No	Dysarthria	Dysarthria	Category, letter, verb
6	F	52	Left	Metastatic from anal melanoma	2 Right frontal, 1 right insula	No	Fluent	Fluent	Category, letter, verb
7	M	73	Right	Glioblastoma multiforme	Left frontal	No	Fluent	Fluent	Letter
8	F	30	Right	Anaplastic astrocytoma	Left insula, frontal and temporal	No	Word-finding difficulties and perseveration	N/A	Category, letter, verb
9	M	61	Ambidextrous	Glioblastoma multiforme	Left frontal	No	Dysarthria	Dysarthria with aphasia	Letter
Prior									
1	F	28	Right	Oligodendroglioma	Right frontal	No	Fluent	Fluent	Letter, verb
2	M	34	Left	Anaplastic astrocytoma	Right frontal	No	Fluent	Fluent	Letter
3	M	39	Left	Glioblastoma multiforme	Right frontal	No	Dysarthria	Dysarthria	Category, letter, verb
4	F	39	Right	Metastatic adenocarcinoma	Left frontal and right occipital	No	Fluent	Fluent	Letter

Note:—N/A indicates not applicable.