

Supplemental materials for

Quantitative approaches to guide epilepsy surgery from intracranial EEG

John M. Bernabei*, Adam Li*, Andrew Y. Revell, Rachel J. Smith, Kristin M. Gunnarsdottir, Ian Z. Ong, Kathryn A. Davis, Nishant Sinha, Sridevi Sarma**, Brian Litt**

Supplementary Table 1:

DATASET ID	SUBJECT ID	AGE	SEX	IMPLANT	THERAPY	ENGEL OUTCOME	DATA TYPE	SITE
DS003029	sub-jh101	n/a	n/a	ECOG	Resection	4	ictal	JHU
DS003029	sub-jh102	n/a	n/a	ECOG	Resection	NR	ictal	JHU
DS003029, DS003876	sub-jh103	n/a	n/a	ECOG	Resection	4	interictal+ictal	JHU
DS003029	sub-jh104	n/a	n/a	ECOG	Resection	NR	ictal	JHU
DS003029, DS003876	sub-jh105	n/a	n/a	ECOG	Resection	1	interictal+ictal	JHU
DS003029	sub-jh106	n/a	n/a	ECOG	Resection	NR	ictal	JHU
DS003029	sub-jh108	n/a	n/a	ECOG	Resection	4	ictal	JHU
DS003029, DS003876	sub-pt1	30	F	ECOG	Resection	1	interictal+ictal	NIH
DS003029, DS003876	sub-pt2	28	F	ECOG	Resection	1	interictal+ictal	NIH
DS003029, DS003876	sub-pt3	45	M	ECOG	Resection	1	interictal+ictal	NIH
DS003029	sub-pt10	44	F	ECOG	Resection	2	ictal	NIH
DS003029	sub-pt11	31	M	ECOG	Resection	1	ictal	NIH
DS003029	sub-pt12	43	F	ECOG	Resection	2	ictal	NIH
DS003029	sub-pt13	27	M	ECOG	Resection	1	ictal	NIH
DS003029	sub-pt14	49	F	ECOG	Resection	4	ictal	NIH
DS003029	sub-pt15	59	F	ECOG	Resection	1	ictal	NIH
DS003029	sub-pt16	52	F	ECOG	Resection	1	ictal	NIH
DS003029	sub-pt17	13	M	ECOG	Resection	1	ictal	NIH
DS003029	sub-pt6	33	M	ECOG	Resection	2	ictal	NIH
DS003029	sub-pt7	39	F	ECOG	Resection	3	ictal	NIH
DS003029	sub-pt8	25	M	ECOG	Resection	1	ictal	NIH
DS003029	sub-ummc001	23	M	SEEG	Resection	NR	ictal	UMMC
DS003029	sub-ummc002	17	M	SEEG	Resection	1	ictal	UMMC
DS003029	sub-ummc003	31	M	SEEG	Resection	1	ictal	UMMC
DS003029	sub-ummc004	38	M	SEEG	Resection	1	ictal	UMMC
DS003029	sub-ummc005	47	M	SEEG	Resection	1	ictal	UMMC
DS003029	sub-ummc006	36	M	SEEG	Resection	1	ictal	UMMC

DS003029	sub-ummc007	54	M	SEEG	Resection	NR	ictal	UMMC
DS003029	sub-ummc008	49	M	SEEG	Resection		1 ictal	UMMC
DS003029	sub-ummc009	36	M	SEEG	Resection		1 ictal	UMMC
DS003876	sub-NIH1	57	F	SEEG	Resection		1 interictal	NIH
DS003876	sub-NIH10	25	M	SEEG	Resection		2 interictal	NIH
DS003876	sub-NIH11	27	M	SEEG	Resection		2 interictal	NIH
DS003876	sub-NIH2	31	M	SEEG	Resection		1 interictal	NIH
DS003876	sub-NIH3	36	F	SEEG	Resection		1 interictal	NIH
DS003876	sub-NIH4	39	M	SEEG	Resection		1 interictal	NIH
DS003876	sub-NIH5	41	M	SEEG	Resection		1 interictal	NIH
DS003876	sub-NIH6	20	F	SEEG	Resection		3 interictal	NIH
DS003876	sub-NIH7	46	M	SEEG	Resection		3 interictal	NIH
DS003876	sub-NIH8	37	M	SEEG	Resection		2 interictal	NIH
DS003876	sub-NIH9	16	F	SEEG	Resection		3 interictal	NIH
DS003876	sub-PY18N002	62	M	SEEG	Resection		2 interictal	JHU
DS003876	sub-PY18N007	32	F	SEEG	Resection		4 interictal	JHU
DS003876	sub-PY18N013	24	F	SEEG	Resection		1 interictal	JHU
DS003876	sub-PY18N015	n/a	F	SEEG	Resection		1 interictal	JHU
DS003876	sub-PY19N012	48	M	SEEG	Resection		2 interictal	JHU
DS003876	sub-PY19N015	23	F	SEEG	Resection		3 interictal	JHU
DS003876	sub-PY19N023	32	M	SEEG	Resection		1 interictal	JHU
DS003876	sub-PY19N026	35	F	SEEG	Resection		1 interictal	JHU
DS003876	sub-rns002	36	F	SEEG	RNS		3 interictal	MIAMI
DS003876	sub-rns003	21	M	SEEG	RNS		3 interictal	MIAMI
DS003876	sub-rns004	52	M	SEEG	RNS		4 interictal	MIAMI
DS003876	sub-rns005	23	M	SEEG	RNS		3 interictal	MIAMI
DS003876	sub-rns006	49	M	SEEG	RNS		1 interictal	MIAMI
DS003876	sub-rns009	48	M	SEEG	RNS		3 interictal	MIAMI
DS003876	sub-rns011	24	F	SEEG	RNS		4 interictal	MIAMI
DS003876	sub-rns013	25	M	SEEG	RNS		2 interictal	MIAMI
DS003876	sub-rns014	36	M	SEEG	RNS		4 interictal	MIAMI
DS003876	sub-rns015	27	M	SEEG	RNS		2 interictal	MIAMI
DS003876	sub-umf001	37	F	ECOG	Resection		1 interictal+ictal	UMF
DS003876	sub-umf002	39	F	ECOG	Resection		2 interictal+ictal	UMF
DS003876	sub-umf003	43	M	ECOG	Resection		3 interictal+ictal	UMF
DS003876	sub-umf004	23	F	SEEG	Resection		1 interictal+ictal	UMF
DS003876	sub-umf005	32	F	ECOG	Resection		1 interictal+ictal	UMF
DS004100	sub-HUP060	42	F	SEEG	Ablation		3 interictal+ictal	HUP
DS004100	sub-HUP064	21	M	ECOG	Resection		1 interictal+ictal	HUP
DS004100	sub-HUP065	36	M	ECOG	Resection		1 interictal+ictal	HUP

DS004100	sub-HUP068	33	M	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-RID0064	25	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP075	57	F	ECOG	Resection	4	interictal+ictal	HUP
DS004100	sub-HUP080	n/a	F	ECOG	Resection	2	interictal+ictal	HUP
DS004100	sub-HUP082	56	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP086	25	F	ECOG	Resection	2	interictal+ictal	HUP
DS004100	sub-HUP087	24	M	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP088	35	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP089	n/a	n/a	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP094	48	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP097	n/a	n/a	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP105	39	M	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP106	45	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP107	36	M	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP111	40	F	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP112	21	F	SEEG	Ablation	3	interictal+ictal	HUP
DS004100	sub-HUP114	n/a	n/a	ECOG	Ablation	3	interictal+ictal	HUP
DS004100	sub-HUP116	59	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP117	39	M	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP123	n/a	n/a	ECOG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP126	n/a	n/a	ECOG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP130	46	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP132	n/a	n/a	SEEG	Ablation	3	interictal+ictal	HUP
DS004100	sub-HUP133	52	F	SEEG	Ablation	3	interictal+ictal	HUP
DS004100	sub-HUP134	n/a	n/a	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP135	37	M	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP138	38	M	SEEG	Ablation	4	interictal+ictal	HUP
DS004100	sub-HUP139	20	M	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP140	47	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP141	30	M	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP142	n/a	n/a	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP144	n/a	n/a	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP146	n/a	n/a	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP148	n/a	n/a	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP150	17	M	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP151	n/a	M	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP157	25	M	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP158	32	M	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP160	n/a	n/a	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP162	n/a	n/a	SEEG	Ablation	3	interictal+ictal	HUP

DS004100	sub-HUP163	42	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP164	34	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP165	21	F	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP166	n/a	n/a	SEEG	Resection	3	interictal+ictal	HUP
DS004100	sub-HUP171	50	M	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP172	28	F	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP173	24	F	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP177	42	F	SEEG	Resection	1	interictal+ictal	HUP
DS004100	sub-HUP179	20	F	SEEG	Resection	3	interictal+ictal	HUP
DS004100	sub-HUP180	28	F	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP181	31	F	SEEG	Ablation	3	interictal+ictal	HUP
DS004100	sub-HUP185	38	M	SEEG	Ablation	1	interictal+ictal	HUP
DS004100	sub-HUP187	n/a	n/a	SEEG	Ablation	2	interictal+ictal	HUP
DS004100	sub-HUP188	24	F	SEEG	Resection	3	interictal+ictal	HUP
DS004100	sub-HUP190	25	M	SEEG	Resection	3	interictal+ictal	HUP

Supplementary Table 1: Aggregate patient metadata from 122 subjects. Column 1: Dataset ID of open source data on OpenNeuro.org. Column 2: Subject name. Column 3: Age. Column 4: Sex. Column 5: Implant type – Electrocorticography (ECoG) vs Stereo EEG (SEEG). Column 6: Surgery type: Resection, Ablation, No Surgery, or Responsive Neurostimulation (RNS). Column 7: Engel outcome scale. Column 8: Type of data (interictal only, ictal only, or both). Column 9: Site of acquisition. HUP = Hospital of the University of Pennsylvania. JHU = Johns Hopkins University. NIH = National Institutes for Health Clinical Center. UMF = University of Miami. UMMC = University of Maryland Medical Center.