

Supplementary Table 1. Individual subject demographics and CT perfusion permeability-surface area product, cerebral blood flow, and cerebral blood volume values.

Subject	Group	Age	Sex	Disease Dur (yr)	Seizure Type	Sz Dur (s)	Time to Scan (min)	Time Last Sz (hr)	Captured Seizure Onset	ROI Category	Pathology	PS ROI			PS Ipsilateral			PS Contralateral			CBF ROI			CBF Ipsilateral			CBF Contralateral			CBV ROI			CBV Ipsilateral			CBV Contralateral		
												Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ	Base	Post	Δ
Non-lesional (n = 16)																																						
CTP005	NL	44	F	4	FIC	68	51	240	Left anterior temporal	Temporal	—	0.481	0.515	0.033	0.507	0.517	0.009	0.595	0.428	-0.167	29.2	29.9	0.6	38.6	50.4	11.9	37	45.6	8.6	2.61	2.68	0.08	3.09	4.13	1.03	3.08	3.73	0.65
CTP007	NL	51.3	M	24.3	FBTC	115	45	14.1	Left anterior-mid temporal	Temporal	—	0.287	1.521	1.234	0.36	1.168	0.808	0.341	0.842	0.501	24.1	20.9	-3.1	36.6	28.1	-8.6	35.2	29.7	-5.5	2.13	1.91	-0.22	3	2.23	-0.78	2.79	2.3	-0.49
CTP008	NL	52.8	F	30.8	FIC	73	43	27.7	Right anterior temporal	Temporal	—	0.31	0.372	0.062	0.302	0.385	0.084	0.303	0.372	0.069	27.1	28	0.9	36.4	32.6	-3.8	34.2	33.8	-0.4	2.1	2.16	0.06	2.69	2.49	-0.2	2.61	2.61	-0.01
CTP009	NL	32.5	F	27.5	FIC	131	41	278.1	Left posterior quadrant	Extratemporal	—	0.334	0.594	0.26	0.382	0.832	0.45	0.38	0.616	0.236	34.7	20.6	-14.1	35.9	22.8	-13.2	35.3	22.4	-12.9	2.89	1.72	-1.17	2.77	1.9	-0.87	2.71	1.81	-0.89
CTP010	NL	29	M	11	FIC	59	42	8.6	Left mesial temporal	Temporal	—	0.261	0.33	0.07	0.33	0.305	-0.025	0.262	0.306	0.044	28.7	23.1	-5.7	37.5	26.3	-11.1	33.1	25.8	-7.3	2.45	1.71	-0.74	3.04	1.93	-1.11	2.73	1.9	-0.83
CTP012	NL	23.9	M	10.9	FBTC	236	55	97.4	Right frontal-frontopolar	Extratemporal	—	0.671	0.898	0.227	0.575	0.842	0.267	0.534	0.83	0.296	29.6	29.9	0.3	37.6	31.6	-6	33.6	28.7	-4.9	2.45	2.21	-0.24	3.16	2.6	-0.55	2.81	2.32	-0.49
CTP013	NL	36.6	F	22.6	FPC	94	38	3.4	Right mesial temporal	Temporal	—	0.412	0.484	0.072	0.45	0.53	0.08	0.443	0.437	-0.007	33.9	30.3	-3.6	31.7	35	3.3	33.5	36.6	3	2.62	2.34	-0.28	2.49	2.75	0.26	3.63	2.72	0.98
CTP017	NL	26	M	20	FBTC	81	71	176.5	Left frontal	Extratemporal	—	0.567	0.602	0.035	0.606	0.476	-0.129	0.589	0.468	-0.121	37.6	31	-6.7	37.3	29.2	-8.1	35.7	31.2	-4.6	2.96	3.51	0.55	3.01	3.44	0.44	2.84	3.38	0.54
CTP022	NL	49.8	F	19.8	FBTC	112	39	130.2	Right insula	Temporal	—	0.21	0.583	0.373	0.203	0.473	0.27	0.225	0.546	0.321	60.1	81.8	21.7	34.1	43.4	9.4	38.5	48.6	10.1	4.05	5.41	1.36	2.59	3.26	0.67	2.81	3.46	0.65
CTP024	NL	28.1	F	23.1	FIC	62	58	7	Left mesial temporal	Temporal	—	0.301	0.255	-0.045	0.268	0.219	-0.049	0.271	0.236	-0.035	33.1	30.1	-3	32.3	31.2	-1	31.5	30.4	-1.1	2.61	2.33	-0.28	2.42	2.3	-0.13	3.38	2.27	-0.11
CTP026	NL	26.5	M	10.5	FBTC	93	59	9.4	Left posterior superior temporal	Temporal	—	0.245	0.204	-0.041	0.257	0.304	0.047	0.271	0.356	0.085	26	18	-8	34.1	24.4	-9.7	34.6	22.4	-12.2	2.04	1.6	-0.44	2.61	2.2	-0.41	2.71	1.92	-0.79
CTP027	NL	48.2	F	46.2	FIC	192	50	226.9	Left posterior temporal-occipital	Temporal	—	0.278	0.083	-0.194	0.246	0.13	-0.116	0.278	0.098	-0.18	32.8	12.6	-20.2	39	14.9	-24.1	37.4	13.4	-24	2.57	0.9	-1.67	2.99	1.11	-1.88	2.96	1.01	-1.95
CTP029	NL	35.1	F	20.1	FIC	9	73	17	Left SMA(primary motor)	Extratemporal	—	0.181	0.347	0.165	0.243	0.408	0.165	0.311	0.43	0.119	5.4	31.8	26.4	6	34.8	28.8	6.3	33.6	27.4	0.38	2.3	1.92	0.42	2.46	2.04	0.45	2.44	1.99
CTP030	NL	31.5	F	21.5	FIC	71	44	73.3	Left mesial temporal	Temporal	—	0.375	0.282	-0.093	0.517	0.527	0.01	0.51	0.314	-0.196	29.3	30	0.7	39	36.6	-2.4	36.4	38.9	2.5	2.25	2.39	0.14	2.85	2.79	-0.06	2.74	2.86	0.22
CTP034	NL	31.5	F	10.5	FIC	131	93	0.6	Left mesial temporal	Temporal	—	0.583	0.729	0.146	0.657	0.824	0.167	0.538	0.629	0.092	24.1	24.7	0.7	29.9	31.1	1.2	27.8	24.4	-3.4	2.21	2.29	0.08	2.71	2.62	-0.08	2.52	2.11	-0.41
CTP037	NL	48.9	M	43.9	FPC	17	49	26.2	Left anterior-mid temporal	Temporal	—	0.331	1.159	0.828	0.361	1.195	0.834	0.395	0.86	0.466	26.5	27.8	1.3	34.9	39.6	4.8	31.3	32.4	1	2.2	2.17	-0.03	2.92	3.23	0.31	2.56	2.64	0.07
Lesional (n = 9)																																						
CTP004	L	60.1	F	25.1	FBTC	147	68	34	Left anterior temporal	Temporal	MTS	0.301	0.422	0.121	0.271	0.403	0.132	0.311	0.548	0.237	37.8	25.9	-11.9	30.8	31.9	1.1	28.9	29.8	0.9	2.91	2.14	-0.77	2.36	2.44	0.09	2.22	2.4	0.18
CTP011	L	49.3	F	17.3	FPC	29	80	22.4	Right anterior temporal	Temporal	MTS	0.349	0.251	-0.098	0.363	0.294	-0.068	0.346	0.3	-0.046	39	40.6	1.7	49	45.8	-3.2	53.9	50.1	-3.9	3.21	3.53	0.32	3.6	3.49	-0.11	3.92	3.71	-0.21
CTP019	L	55.3	M	47.3	FIC	208	76	71.7	Left mesial temporal	Temporal	MTS	0.53	0.696	0.165	0.524	0.689	0.165	0.557	0.668	0.11	25.9	24.4	-1.4	26.3	24.2	-2.1	30	24.3	-5.7	2.24	2.21	-0.03	2.25	2.17	-0.08	2.46	2.15	-0.3
CTP020	L	39.1	F	11.1	FIC	151	48	92.4	Left mesial temporal	Temporal	MTS	0.384	0.432	0.047	0.376	0.434	0.058	0.428	0.42	-0.008	28.1	27.9	-0.2	39.7	34.3	-5.4	36.7	29	-7.7	2.46	2.54	0.08	3.09	2.72	-0.38	2.94	2.34	-0.6
CTP023	L	51.3	M	2.3	FIC	54	50	7.7	Bilateral mesial temporal	Temporal	MTS	0.41	0.334	-0.077	—	—	—	—	—	—	28.3	26.1	-2.2	—	—	—	—	—	—	2.45	2.33	-0.12	—	—	—	—	—	—
CTP032	L	47.4	F	42.4	FIC	70	49	12.2	Bilateral temporal	Temporal	FCD	0.608	0.245	-0.363	—	—	—	—	—	—	30.3	21.4	-8.9	—	—	—	—	—	—	2.31	1.88	-0.43	—	—	—	—	—	—
CTP033	L	48.7	M	3.7	FPC	102	96	0.3	Left mesial temporal	Temporal	MTS	0.899	0.484	-0.415	0.924	0.68	-0.244	0.764	0.684	-0.08	33.7	10.4	-23.3	41.2	16	-25.2	35.2	18	-17.2	2.51	0.72	-1.79	3.02	1.2	-1.82	2.55	1.4	-1.15
CTP036	L	35.4	M	27.4	FBTC	103	65	23.6	Left mesial temporal	Temporal	MTS	1.141	0.648	-0.493	0.951	0.729	-0.222	0.93	0.705	-0.224	28.6	13.7	-14.9	32.8	19.4	-13.4	32.8	18.9	-13.9	2.28	1.11	-1.18	2.65	1.52	-1.13	2.67	1.48	-1.19

Δ = postictal minus baseline; Base = baseline; Disease Dur = disease duration; FBTC = focal to bilateral tonic-clonic; FCD = focal cortical dysplasia; FIC = focal impaired consciousness; FPC = focal preserved consciousness; L = lesion(s); MRI = magnetic resonance imaging; MTS = mesial temporal sclerosis; NL = non-lesional; Post = postictal; PS = permeability-surface area product (mL/100 g/min); ROI = region of interest; Seizure Dur = seizure duration. "—" indicates not applicable. ROI size computed from baseline ROI voxel count assuming 0.5 × 0.5 × 5 mm voxels (0.00125 cm³/voxel).