

SUPPLEMENTAL TABLES

Supplemental Table 1. Additional beta power and coherence correlations with 18-month cognitive score

EEG Beta Power	Pearson Correlation	P Value
Left Temporal	0.161	0.6
Left Parietal	0.425	0.168
Left Occipital	0.375	0.207
Right Temporal	0.261	0.39
Right Parietal	0.351	0.24
Right Occipital	0.314	0.297
EEG Beta Coherence	Pearson Correlation	P Value
Left Temporal to Right Temporal	-0.223	0.463
Left Parietal to Right Parietal	-0.094	0.76
Left Occipital to Right Occipital	0.245	0.421

Alternative Supplemental Table 1. Beta power and coherence correlations with 18-month cognitive, language, and motor scores

EEG beta power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.583	0.04	.434	0.14	-.125	0.69
Left Frontal	.769*	0.002	.350	0.24	-.267	0.38
Left Temporal	.161	0.6	.416	0.16	.098	0.75
Left Parietal	.425	0.17	.845*	0.001	.562	0.06
Left Occipital	.375	0.21	.518	0.07	-.06	0.85
Right Frontal Polar	.492	0.09	.592	0.03	0	.99
Right Frontal	.375	0.21	.314	0.3	.047	0.88
Right Temporal	.261	0.39	.428	0.15	.166	0.59
Right Parietal	.351	0.24	.366	.22	.13	0.68
Right Occipital	.314	0.3	.477	0.1	.206	0.5
EEG beta Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.499	0.08	.16	0.6	-.278	0.36
Left Frontal to Right Frontal	.304	0.31	-.148	0.63	-.591*	0.03
Left Temporal to Right Temporal	-.223	0.46	-.237	0.44	-.404	0.17
Left Parietal to Right Parietal	-.094	0.76	-.203	0.5	-.394	0.18
Left Occipital to Right Occipital	.245	0.42	.191	0.53	.168	0.58
Left Frontal Polar to Left Occipital	.462	0.11	.127	0.68	-.241	0.43
Right Frontal Polar to Right Occipital	0.4	0.18	.446	0.13	.262	0.39

Supplemental Table 2: EEG alpha power and coherence correlations with 18 month scores

EEG Alpha power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.302	0.32	.344	0.25	-.021	0.95
Left Frontal	.433	0.14	.291	0.34	-.175	0.57
Left Temporal	-.055	0.86	.386	0.19	.102	0.74
Left Parietal	.255	0.4	.231	0.45	-.297	0.32
Left Occipital	-.002	0.99	.411	0.16	-.056	0.86
Right Frontal Polar	.209	0.49	.49	0.09	.118	0.7
Right Frontal	.094	0.76	.229	0.45	.177	0.56
Right Temporal	.163	0.59	.417	0.16	.257	0.4
Right Parietal	.155	0.613	.415	0.16	.247	0.42
Right Occipital	.241	0.43	.47	0.11	.075	0.81
EEG Alpha Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.226	0.46	.022	0.94	-.27	0.37
Left Frontal to Right Frontal	.038	0.9	-.510	0.075	-.532	0.061
Left Temporal to Right Temporal	-.203	0.5	.206	0.5	-.59	0.85
Left Parietal to Right Parietal	-.128	0.68	-.167	0.59	-.185	0.55
Left Occipital to Right Occipital	-.031	0.92	-.206	0.5	-.177	0.56
Left Frontal Polar to Left Occipital	-.088	0.78	-.137	0.66	-.283	0.35
Right Frontal Polar to Right Occipital	-.004	0.99	.092	0.77	-.003	.99

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Supplemental Table 3: EEG Delta power and coherence correlations with 18 month scores

EEG Delta power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.140	0.65	.394	0.18	.170	0.58
Left Frontal	.681*	0.01	.551	0.05	.099	0.75
Left Temporal	.303	0.31	.672*	0.01	.288	0.34
Left Parietal	.579*	0.04	.636*	0.02	-.094	0.76
Left Occipital	.155	0.61	.589*	0.03	.16	0.6
Right Frontal Polar	.328	0.27	.535	0.06	.219	0.47
Right Frontal	.312	0.3	.454	0.12	.366	0.22
Right Temporal	.303	0.31	.491	0.09	.412	0.16
Right Parietal	.535	0.06	.625*	0.02	.331	0.27
Right Occipital	.575*	0.04	.683*	0.01	.315	0.29
EEG Delta Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.28	0.36	-.16	0.6	-.308	0.31
Left Frontal to Right Frontal	0.0	1	-.407	0.17	-.002	0.99
Left Temporal to Right Temporal	.039	0.9	.397	0.18	.221	0.47
Left Parietal to Right Parietal	-.220	0.47	-.386	0.19	-.020	0.95
Left Occipital to Right Occipital	.123	0.69	-.336	0.26	-.078	0.8
Left Frontal Polar to Left Occipital	.023	0.9	-.128	0.68	.092	0.77
Right Frontal Polar to Right Occipital	.069	0.82	-.146	0.63	-.143	0.64

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Supplemental Table 4: EEG gamma power and coherence correlations with 18-month scores

EEG Gamma power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.132	0.67	.323	0.28	.199	0.52
Left Frontal	.693*	0.009	.482	0.1	.046	0.89
Left Temporal	.150	0.62	.330	0.27	.152	0.62
Left Parietal	.329	0.27	.139	0.65	-.347	0.25
Left Occipital	.132	0.67	.175	0.57	-.093	0.76
Right Frontal Polar	.15	0.63	.382	0.2	.123	0.69
Right Frontal	.262	0.39	.121	0.69	.164	0.59
Right Temporal	.214	0.48	.438	0.14	.32	0.29
Right Parietal	.134	0.66	.245	0.42	.371	0.21
Right Occipital	.094	0.76	.308	0.31	.19	0.53
EEG Gamma Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.362	0.22	-.163	0.59	-.367	0.22
Left Frontal to Right Frontal	.108	0.73	-.193	0.53	-.455	0.12
Left Temporal to Right Temporal	-.101	0.74	-.185	0.55	-.260	0.39
Left Parietal to Right Parietal	-.1	0.75	-.187	0.54	-.230	0.45
Left Occipital to Right Occipital	.036	0.91	-.127	0.68	-.036	0.91
Left Frontal Polar to Left Occipital	.185	0.55	-.059	0.85	-.102	0.74
Right Frontal Polar to Right Occipital	.121	0.69	-.083	0.79	-.038	0.9

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Supplemental Table 5: EEG low gamma power and coherence correlations with 18-month scores

EEG low gamma power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.487	0.09	.512	0.07	.132	0.67
Left Frontal	.783*	0.002	.419	0.16	-.081	0.79
Left Temporal	.159	0.6	.328	0.27	.118	0.7
Left Parietal	.369	0.2	.1	0.75	-.367	0.22
Left Occipital	.295	0.33	.38	0.2	.028	0.93
Right Frontal Polar	.34	0.26	.478	0.1	.112	0.72
Right Frontal	.344	0.25	.203	0.51	.087	0.78
Right Temporal	.216	0.48	.335	0.26	.172	0.58
Right Parietal	.076	0.81	.142	0.64	.225	0.46
Right Occipital	.148	0.63	.338	0.26	.188	0.54
EEG low gamma Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.486	0.09	.148	0.63	-.048	0.88
Left Frontal to Right Frontal	.137	0.65	-.095	0.76	-.312	0.3
Left Temporal to Right Temporal	-.264	0.38	-.36	0.23	-.334	0.27
Left Parietal to Right Parietal	-.098	0.75	-.161	0.6	-.217	0.48
Left Occipital to Right Occipital	.154	0.62	.331	0.27	.323	0.28
Left Frontal Polar to Left Occipital	.349	0.24	.236	0.44	.177	0.56
Right Frontal Polar to Right Occipital	.273	0.37	.346	0.25	.369	0.22

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Supplemental Table 6: EEG theta power and coherence correlations with 18-month scores

EEG theta power	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar	.053	0.86	.153	0.62	.047	0.88
Left Frontal	.117	0.7	.206	0.5	-.032	.92
Left Temporal	-.013	0.97	.391	0.19	.122	0.69
Left Parietal	.138	0.65	.154	0.62	-.285	0.35
Left Occipital	-.122	0.72	.367	0.22	-.028	.928
Right Frontal Polar	.044	0.89	.31	0.3	.12	0.7
Right Frontal	-.045	0.88	.117	0.71	.193	0.53
Right Temporal	.079	0.8	.319	0.29	.243	0.42
Right Parietal	.08	0.8	.338	0.26	.216	0.48
Right Occipital	.077	0.8	.344	0.25	.03	0.92
EEG theta Coherence	Pearson Correlation Cognitive Score	P value	Pearson Correlation Language Score	P value	Pearson Correlation Motor Score	P value
Left Frontal Polar to Right Frontal Polar	.024	0.94	-.274	0.37	-.315	0.3
Left Frontal to Right Frontal	-.006	0.99	-.369	0.22	-.055	0.86
Left Temporal to Right Temporal	-.034	0.91	.308	0.31	.179	0.56
Left Parietal to Right Parietal	-.241	0.43	-.286	0.34	-.211	0.49
Left Occipital to Right Occipital	-.022	0.94	-.352	0.24	-.146	0.64
Left Frontal Polar to Left Occipital	-.192	0.53	-.197	0.52	-.077	0.8
Right Frontal Polar to Right Occipital	-.173	0.57	-.046	0.88	-.002	0.99

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