

Table 1: Connectivity Before vs. During IEDs in Children with Right & Left Centrotemporal Spikes

	Left Hemispheric Spikes (n=15) C3-to-All Connectivity [Mean (SD)]			Right Hemispheric Spikes (n=20) C4-to-All Connectivity [Mean (SD)]		
	Pre-IED	IED	p-value	Pre-IED	IED	p-value
FP1	0.25 (0.04)	0.29 (0.04)	0.005	0.25 (0.04)	0.31 (0.04)	1.47*10 ⁻⁶
Fp2	0.26 (0.04)	0.32 (0.05)	1.6329E-05	0.23 (0.03)	0.26 (0.04)	0.002
F3	0.32 (0.07)	0.31 (0.68)	0.41	0.36 (0.07)	0.42 (0.07)	5.77*10 ⁻⁶
F4	0.36 (0.08)	0.43 (0.08)	3.37 x 10 ⁻⁶	0.29 (0.05)	0.28 (0.06)	0.87
F7	0.28 (0.05)	0.28 (0.05)	0.68	0.30 (0.06)	0.36 (0.05)	3.06*10 ⁻⁵
F8	0.30 (0.05)	0.37 (0.04)	8.07*10 ⁻⁶	0.25 (0.03)	0.28 (0.04)	0.002
T3	0.34 (0.08)	0.37 (0.09)	0.12	0.35 (0.06)	0.40 (0.07)	0.002
T4	0.33 (0.07)	0.41 (0.09)	2.01*10 ⁻⁶	0.33 (0.05)	0.37 (0.05)	0.0001
T5	0.32 (0.07)	0.36 (0.08)	0.05	0.31 (0.06)	0.37 (0.07)	1.21*10 ⁻⁰⁵
T6	0.34 (0.04)	0.40 (0.04)	7.77*10 ⁻⁸	0.32 (0.05)	0.36 (0.06)	0.004
P3	0.38 (0.07)	0.42 (0.08)	0.03	0.39 (0.08)	0.42 (0.09)	0.02
P4	0.40 (0.06)	0.46 (0.06)	1.41*10 ⁻⁶	0.39 (0.07)	0.41 (0.08)	0.17
O1	0.26 (0.04)	0.29 (0.04)	0.04	0.26 (0.04)	0.26 (0.05)	0.0002
O2	0.25 (0.03)	0.31 (0.03)	2.62*10 ⁻⁶	0.24 (0.04)	0.27 (0.04)	0.003
Fz	0.25 (0.03)	0.31 (0.04)	3.19*10 ⁻⁶	0.25 (0.03)	0.28 (0.05)	0.003
Cz	0.24 (0.02)	0.29 (0.03)	2.80*10 ⁻⁰⁵	0.24(0.04)	0.27 (0.04)	0.007
Pz	0.24 (0.03)	0.27 (0.03)	0.001	0.25 (0.03)	0.26 (0.01)	0.03
C4/C3	0.97 (0.01)	0.97 (0.01)	0.08	0.97 (0.01)	0.97 (0.01)	0.009

p-values are unadjusted. Those that meet significance criteria after multiple comparison correction ($p < 0.001$) are highlighted in red. The left column shows connectivity changes between C3 and all other electrodes in patients with left-hemispheric IEDs. The right column shows connectivity changes between C4 and all other electrodes in patients with right-hemispheric IEDs.