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| **Supplemental Data Table 1.** Mean Contingent Negative Variation (CNV) and Standard Error of the Mean (SEM) Values by Electrode |
| **Electrode** | **Mean CNV (uV)** | **SEM CNV (uV)** |
| C3 | -0.46 | 1.00 |
| C4 | -1.24 | 0.84 |
| CP1 | -1.12 | 0.81 |
| CP2 | -2.67 | 0.85 |
| CP5 | -0.43 | 1.87 |
| **CZ** | **-5.09** | **0.58** |
| F3 | -1.57 | 1.05 |
| F4 | -1.23 | 1.31 |
| FC1 | -4.18 | 0.83 |
| FC2 | -4.60 | 1.02 |
| FZ | -2.76 | 1.02 |
| P4 | -1.65 | 0.91 |
| POZ | -2.44 | 2.27 |
| PZ | -2.94 | 1.30 |
| T7 | -1.84 | 2.00 |

Bold values indicate the most active electrode.

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| **Supplemental Data Table 2.** Mean Event-Related Desynchronization (ERD) and Standard Error of the Mean (SEM) by Electrode: Morlet Coeffiicents, Normalized to Baseline |
| **Electrode** | **Mean Alpha ERD** | **SEM Alpha ERD** | **Mean Beta ERD** | **SEM Beta ERD** |
| C3 | 0.95 | 0.02 | 0.97 | 0.01 |
| C4 | 0.95 | 0.02 | 0.98 | 0.01 |
| **CP1** | **0.92** | **0.02** | 0.96 | 0.01 |
| CP2 | 0.94 | 0.02 | 0.97 | 0.01 |
| CP5 | 1.01 | 0.01 | 1.00 | 0.01 |
| CP6 | 0.99 | 0.02 | 0.99 | 0.01 |
| **CZ** | 0.97 | 0.01 | **0.94** | **0.01** |
| F3 | 0.98 | 0.02 | 0.98 | 0.01 |
| F4 | 0.99 | 0.01 | 0.98 | 0.01 |
| F7 | 0.98 | 0.02 | 0.98 | 0.01 |
| F8 | 1.00 | 0.02 | 0.99 | 0.01 |
| FC1 | 0.97 | 0.02 | 0.96 | 0.01 |
| FC2 | 0.99 | 0.02 | 0.95 | 0.01 |
| FC5 | 0.97 | 0.02 | 0.98 | 0.01 |
| FC6 | 1.01 | 0.01 | 0.99 | 0.01 |
| FP1 | 0.97 | 0.02 | 0.98 | 0.01 |
| FP2 | 0.98 | 0.02 | 0.98 | 0.01 |
| FPZ | 0.98 | 0.02 | 0.98 | 0.01 |
| FZ | 0.99 | 0.02 | 0.97 | 0.01 |
| O1 | 1.06 | 0.02 | 1.03 | 0.01 |
| O2 | 1.05 | 0.02 | 1.02 | 0.01 |
| OZ | 1.05 | 0.02 | 1.03 | 0.01 |
| P3 | 0.99 | 0.02 | 0.99 | 0.01 |
| P4 | 1.03 | 0.02 | 1.00 | 0.01 |
| P7 | 1.07 | 0.02 | 1.00 | 0.01 |
| P8 | 1.05 | 0.02 | 1.00 | 0.01 |
| POZ | 1.02 | 0.02 | 1.01 | 0.01 |
| PZ | 0.95 | 0.01 | 0.99 | 0.01 |
| T7 | 0.98 | 0.02 | 0.99 | 0.01 |
| T8 | 0.99 | 0.01 | 0.99 | 0.01 |

Bold values indicate the most active electrode within each frequency band (alpha or beta).