**Supplemental file 4**

**Non-rapid eye movement sleep and wake neurophysiology in schizophrenia**

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***Supplementary file 4 Association between clinical variables and EEG metrics in the SCZ sample***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EEG metric** | **SCZ Duration** | **PANSS 5 factors** | | | | |
| **Positive** | **Negative** | **Disorganized Concrete** | **Excited** | **Depressed** |
| SS Density (↓ in SCZ) |  |  | ↓ AF3,AF4,F8 | ↓ 24 channels |  |  |
| FS Density (↓ in SCZ) |  |  |  |  |  |  |
| SS Amplitude (↓ in SCZ) |  |  | ↓ 15 channels |  |  |  |
| FS Amplitude (↓ in SCZ) |  |  | ↓ 5 channels |  |  |  |
| SS ISA (↓ in SCZ) |  |  |  |  |  |  |
| FS ISA (↓ in SCZ) |  | ↑ F6,F7,F8,FC6 |  |  |  |  |
| FS Duration (↓ in SCZ) |  |  |  |  |  |  |
| FS Chirp (↓ in SCZ) |  |  |  |  |  |  |
| SO Density (↑ in SCZ) | ↓ 17 channels |  |  |  |  |  |
| SO Duration (↑ in SCZ) |  |  | ↓ F6 |  |  |  |
| SO Slope (↓ in SCZ) |  |  |  |  | ↑ FT8,T8,TP7 |  |
| SS overlap with SO (↓ in SCZ) |  |  |  |  |  |  |
| SO phase angle when SS occur  (↓ in SCZ) | ↑ FPZ,FP2 |  |  | ↓ FCZ | ↓ FC2,FCZ |  |
| SO phase angle when FS occur  (↓ in SCZ) | ↓ FT8,O1,P8,TP8 |  |  |  |  |  |
| PSD PC #4 (↓ in SCZ) |  |  |  |  |  |  |
| PSI PC #1 (↑ in SCZ) |  |  |  |  |  |  |
| MMN Amplitude (↓ in SCZ) |  |  | ↓ 7 channels | ↓ FT7,T7 |  |  |
| P50 S2/S1 ratio (↑ in SCZ) |  | ↑ FZ | ↑ C1,CZ |  | ↑ F1 |  |
| ASSR Power (↓ in SCZ) | ↓ O1 |  |  |  |  |  |
| ASSR Phase synchrony (↓ in SCZ) |  |  |  |  |  |  |

*A linear regression model with formula EEG metric ~ clinical variable + sex + age + error was fit for each channel / EEG metric. Channels with significant association (unadjusted p<0.01) are listed together with the direction of effect (↓ or ↑ in an EEG metric with clinical variable)*