**Supplemental file 2**

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

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***Supplementary file 2a: Prescribed medications in the SCZ sample***

|  |  |
| --- | --- |
| **Medication** | **Number of subjects (total 72\*)** |
| ***Antipsychotics*** | 69 |
| Amisulpride | 22 |
| Chlorpromazine Hydrochloride | 1 |
| Aripiprazole | 12 |
| Olanzapine | 26 |
| Clozapine | 12 |
| Quetiapine Fumarate | 6 |
| Risperidone | 14 |
| Paliperidone (sustained release) | 1 |
| ***Emotion stabilizer and Antiepileptic*** | 17 |
| ***Anticholinergics*** | 10 |
| ***Sedatives and Tranquilizers*** | 13 |
| ***Antidepressants*** | 4 |

\*- due to 4 subjects being removed there were 67 out of 68. The table above shows the full dataset

***Supplementary file 2b: Medication associations with EEG metrics within the SCZ sample***

|  |  |  |  |
| --- | --- | --- | --- |
| **EEG metric** | **CPZ equivalent antipsychotic dose** **(n=67)** | **Antipsychotic medication** | **Adjunctive medication** |
| **Amisulpride****(n=22)** | **Aripiprazole****(n=12)** | **Olanzapine****(n=26)** | **Clozapine****(n=12)** | **Quetiapine Fumarate****(n=6)** | **Risperidone****(n=14)** | **Sedatives and tranquilizers****(n=13)** | **Mood stabilizers and antiepileptics****(n=17)** | **Anticholinergics****(n=10)** |
| SS Density (↓ in SCZ) |  |  |  | ↑ FPZ,FP1,FP2 | ↓ AF3,F7,T7 |  |  |  |  |  |
| FS Density (↓ in SCZ) |  |  |  |  | ↓ 9 channels |  |  |  |  |  |
| SS Amplitude (↓ in SCZ) |  |  |  |  | ↓ AFZ,T7 |  |  |  |  | ↑ P2,P4 |
| FS Amplitude (↓ in SCZ) |  |  |  |  |  |  |  |  | ↓ AFZ |  |
| SS ISA (↓ in SCZ) |  |  | ↑ F2,F4 |  | ↓ T7 |  |  |  |  |  |
| FS ISA (↓ in SCZ) |  |  |  |  |  |  |  |  |  |  |
| FS Duration (↓ in SCZ) |  |  |  |  | ↓ 7 channels |  |  |  |  |  |
| FS Chirp (↓ in SCZ) | ↑FC6, ↓TP8 |  |  |  | ↓ 8 channels | ↓ FC1 |  |  |  |  |
| SO Density (↑ in SCZ) |  |  |  |  |  |  |  |  |  |  |
| SO Duration (↑ in SCZ) |  |  |  |  |  |  |  | ↑ 10 channels |  |  |
| SO Slope (↓ in SCZ) |  |  |  |  |  |  |  | ↓ 8 channels | ↓ 23 channels |  |
| SS overlap with SO (↓ in SCZ) |  |  | ↑ 6 channels |  | ↑ CP5,CZ,F5 |  |  |  | ↓ 6 channels |  |
| SO phase angle when SS occur (↓ in SCZ) |  |  | ↑ POZ |  |  |  |  |  | ↓ CPZ,CZ | ↑ C3,C4,C5 |
| SO phase angle when FS occur (↓ in SCZ) |  |  |  |  |  |  |  |  |  | ↑ CP3 |
| PSD PC #4 (↓ in SCZ) |  |  |  |  | ↓  |  |  |  |  |  |
| PSI PC #1 (↑ in SCZ) |  |  |  |  |  |  |  |  |  |  |
| MMN Amplitude (↓ in SCZ) |  |  | ↑ AF4 |  |  |  |  |  |  |  |
| P50 S2/S1 ratio (↑ in SCZ) |  |  |  |  |  |  |  |  |  |  |
| ASSR Power (↓ in SCZ) |  |  |  |  |  |  |  |  |  |  |
| ASSR Phase synchrony (↓ in SCZ) |  |  |  | ↑ 5 channels |  |  |  |  |  | ↓ F8 |

*A linear regression model with formula EEG metric ~ medication + sex + age + error was fit for each channel for each EEG metric, where medication was a vector with continuous data for Chlorpromazine (CPZ) equivalent antipsychotic dose and a binary vector (True or False for medication use) for other columns. Channels where the association was significant (unadjusted p<0.01) are provided in the table together with the direction of effect (↓ or ↑ in an EEG metric with medication)*