**Table S1.** Results from the correlation analyses between clinical measures and syntactic comprehension abilities in first episode psychosis (FEP) patients.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Educational level** | **PANSS-Positive**  | **PANSS-Negative**  | **PANSS-Psychopathology** | **PANSS Total scores** | **BRMRS Total scores** | **HDRS Total scores** | **GAF Total scores** | **Dose of antipsychotics****(chlorpromazine equivalents)** |
| **TCGB Grammatical Errors** | p-value=0.5Effect size=0.1 | p-value=0.6Effect size=0.01 | **p-value= 0.04****Effect size=0.06** | p-value= 0.2Effect size= 0.04 | p-value= 0.051Effect size= 0.06 | p-value= 1 Effect size= 0.001 | p-value=1Effect size= 0.003 | p-value= 0.2Effect size= 0.04 | p-value= 1Effect size= 0.009 |
| **TCGB Non Grammatical Errors** | p-value=1Effect size=0.02 | p-value= 1Effect size=0.005 | p-value= 0.5Effect size=0.04 | p-value= 1Effect size= 0.01 | p-value=1 Effect size= 0.01 | p-value= 1Effect size=0.005 | p-value= 1Effect size=-0.003 | p-value= 1Effect size=0.004 | p-value= 1Effect size= 0.009 |
| **TCGB Total Errors**  | p-value=1Effect size=0.08 | p-value=1 Effect size=0.001 | p-value= 0.09Effect size=0.06 | p-value= 0.5Effect size= 0.03 | p-value= 0.2Effect size= 0.04 | p-value=1 Effect size=0.003 | p-value= 1Effect size=-0.003 | p-value= 1Effect size=0.01 | p-value= 1Effect size= 0.009 |
| **TCGB Locative Item**  | p-value=0.2Effect size=0.05 | p-value= 1Effect size=0.003 | p-value= 1Effect size=0.0003 | p-value=1Effect size= 0.001 | p-value= 1Effect size=0.001 | p-value= 1Effect size=0.001 | p-value= 1Effect size-0.005 | p-value= 1Effect size=0.001 | p-value= 1Effect size= 0.009 |
| **TCGB Active Negative Item** | p-value=1Effect size=0.02 | p-value=1 Effect size=0.01 | p-value= 0.1Effect size=0.05 | p-value=0.9Effect size= 0.02 | p-value= 0.2Effect size=0.04 | p-value= 1Effect size=0.005 | p-value= 1Effect size=-0.002 | p-value= 1Effect size=0.004 | p-value= 1Effect size= 0.008 |
| **TCGB Passive Affirmative Item** | p-value=1Effect size=0.02 | p-value= 1Effect size=0.002 | p-value= 0.1Effect size=0.04 | p-value= 1Effect size=0.008 | p-value= 0.6Effect size=0.02 | p-value= 1Effect size=0.005 | p-value= 1Effect size=-0.005 | p-value= 1Effect size=0.01 | p-value= 1Effect size= 0.003 |
| **TCGB Passive Negative Item** | p-value=0.4Effect size=0.02 | p-value= 1Effect size=0.002 | p-value= 0.1Effect size=0.04 | p-value= 1Effect size=0.008 | p-value= 0.6Effect size=0.02 | p-value= 1Effect size=0.005 | p-value= 1Effect size=-0.005 | p-value= 1Effect size=0.01 | p-value= 1Effect size= 0.003 |
| **TCGB Relative Item** | p-value=1Effect size=0.07 | p-value= 1Effect size=0.002 | p-value= 0.1Effect size=0.04 | p-value=0.5Effect size=0.03 | p-value= 0.5Effect size=0.03 | p-value= 1Effect size=0.005 | p-value= 1Effect size=-0.003 | p-value= 1Effect size=0.006 | p-value= 1Effect size= 0.008 |

BRMRS= Bech-Rafaelsen Manic Rating Scale; PANSS= Positive and Negative Syndrome Scale; HDRS = Hamilton Depressive Rating Scale; FEP= first episode psychosis; GAF = Global Assessment of Functioning.

**Table S2.** Results from the correlation analyses between clinical measures and syntactic comprehension abilities in non-affective first episode psychosis (FEP-NA) patients.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Educational level** | **PANSS-Positive**  | **PANSS-Negative**  | **PANSS-Psychopathology** | **PANSS Total scores** | **BRMRS Total scores** | **HDRS Total scores** | **GAF Total scores** | **Dose of antipsychotics****(chlorpromazine equivalents)** |
| **TCGB Grammatical Errors** | p-value=1Effect size=0.02 | p-value=1Effect size=0.001 | p-value= 0.3Effect size=0.06 | p-value= 0.1Effect size= 0.03 | p-value= 0.6Effect size= 0.05 | p-value= 1 Effect size= 0.004 | p-value= 1Effect size= 0.002 | p-value= 1Effect size= 0.02 | p-value= 1Effect size= 0.01 |
| **TCGB Non Grammatical Errors** | p-value=0.8Effect size=0.002 | p-value= 1Effect size=0.003 | p-value= 1Effect size=0.03 | p-value= 1Effect size= 0.008 | p-value=1 Effect size= 0.009 | p-value= 1Effect size=0.007 | p-value= 1Effect size=-0.002 | p-value= 1Effect size=0.007 | p-value= 1Effect size= 0.01 |
| **TCGB Total Errors**  | p-value=1Effect size=0.01 | p-value=1 Effect size=0.006 | p-value= 0.7Effect size=0.05 | p-value= 1Effect size= 0.02 | p-value= 1Effect size= 0.03 | p-value=1 Effect size=0.002 | p-value= 1Effect size=-0.007 | p-value= 1Effect size=0.006 | p-value= 1Effect size= 0.01 |
| **TCGB Locative Item**  | p-value=1Effect size=0.02 | p-value= 1Effect size=0.007 | p-value= 1Effect size=0.004 | p-value=1Effect size= 0.005 | p-value= 1Effect size=0.005 | p-value= 1Effect size=0.01 | p-value= 1Effect size-0.004 | p-value= 1Effect size=0.006 | p-value= 1Effect size= 0.01 |
| **TCGB Active Negative Item** | p-value=1Effect size=0.007 | p-value=1 Effect size=0.006 | p-value= 0.1Effect size=0.05 | p-value=1Effect size= 0.01 | p-value= 0.5Effect size=0.03 | p-value= 1Effect size=0.007 | p-value= 1Effect size=-0.007 | p-value= 1Effect size=0.004 | p-value= 1Effect size= 0.01 |
| **TCGB Passive Affirmative Item** | p-value=1Effect size=0.006 | p-value= 1Effect size=0.006 | p-value= 0.3Effect size=0.04 | p-value= 1Effect size=0.0008 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.007 | p-value= 1Effect size=-0.007 | p-value= 1Effect size=0.006 | p-value= 0.7Effect size= 0.009 |
| **TCGB Passive Negative Item** | p-value=1Effect size=0.006 | p-value= 1Effect size=0.006 | p-value= 0.3Effect size=0.04 | p-value= 1Effect size=0.0008 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.007 | p-value= 1Effect size=-0.007 | p-value= 1Effect size=0.006 | p-value= 0.7Effect size= 0.009 |
| **TCGB Relative Item** | p-value=1Effect size=0.01 | p-value= 1Effect size=-0.006 | p-value= 0.9Effect size=0.04 | p-value=0.9Effect size=0.03 | p-value= 1Effect size=0.03 | p-value= 1Effect size=0.006 | p-value= 1Effect size=-0.004 | p-value= 1Effect size=0.006 | p-value= 1Effect size= 0.01 |

BRMRS= Bech-Rafaelsen Manic Rating Scale; PANSS= Positive and Negative Syndrome Scale; HDRS = Hamilton Depressive Rating Scale; FEP= first episode psychosis; GAF = Global Assessment of Functioning.

**Table S3.** Results from the correlation analyses between clinical measures and syntactic comprehension abilities in affective first episode psychosis (FEP-A) patients.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Educational level** | **PANSS-Positive** | **PANSS-Negative** | **PANSS-Psychopathology** | **PANSS Total scores** | **BRMRS Total scores** | **HDRS Total scores** | **GAF Total scores** | **Dose of antipsychotics****(chlorpromazine equivalents)** |
| **TCGB Grammatical Errors** | p-value=1Effect size=0.01 | p-value=1Effect size=0.03 | p-value= 0.9Effect size=0.003 | p-value= 0.5Effect size= 0.01 | p-value= 0.4Effect size= 0.02 | p-value= 1 Effect size= 0.0002 | p-value= 0.9Effect size= 0.003 | **p-value= 0.049****Effect size= 0.04** | p-value= 1Effect size= 0.04 |
| **TCGB Non Grammatical Errors** | p-value=0.2Effect size=0.2 | p-value= 1Effect size=-0.007 | p-value= 0.5Effect size=0.03 | p-value= 0.07Effect size= 0.05 | p-value=0.2 Effect size= 0.05 | p-value= 1Effect size=0.01 | p-value= 1Effect size=-0.006 | p-value= 1Effect size=0.002 | p-value= 1Effect size= 0.03 |
| **TCGB Total Errors**  | p-value=1Effect size=0.2 | p-value=1 Effect size=0.03 | p-value= 0.4Effect size=0.01 | p-value= 0.1Effect size= 0.02 | p-value= 1Effect size= 0.05 | p-value=1 Effect size=0.006 | p-value= 0.6Effect size=-0.01 | p-value= 0.06Effect size=0.03 | p-value= 1Effect size= 0.04 |
| **TCGB Locative Item**  | p-value=1Effect size=0.02 | p-value= 1Effect size=-0.01 | p-value= 1Effect size=0.01 | p-value=0.9Effect size= 0.01 | p-value= 1Effect size=0.002 | p-value= 1Effect size=0.05 | p-value= 0.4Effect size-0.02 | p-value= 0.2Effect size=0.05 | p-value= 1Effect size= 0.01 |
| **TCGB Active Negative Item** | p-value=1Effect size=0.03 | p-value=1 Effect size=0.04 | p-value= 1Effect size=0.006 | p-value=0.4Effect size= 0.04 | p-value= 0.5Effect size=0.05 | p-value= 1Effect size=0.01 | p-value= 0.8Effect size=-0.03 | p-value= 0.2Effect size=0.05 | p-value= 1Effect size= 0.01 |
| **TCGB Passive Affirmative Item** | p-value=0.4Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.02 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=-0.01 | p-value= 1Effect size=0.02 | p-value= 1Effect size= 0.02 |
| **TCGB Passive Negative Item** | p-value=0.4Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.02 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=-0.01 | p-value= 1Effect size=0.02 | p-value= 1Effect size= 0.02 |
| **TCGB Relative Item** | p-value=1Effect size=0.15 | p-value= 1Effect size=-0.01 | p-value= 1Effect size=0.01 | p-value= 1Effect size=0.01 | p-value= 0.7Effect size=0.008 | p-value= 1Effect size=0.003 | p-value= 1Effect size=-0.01 | p-value= 1Effect size=0.02 | p-value= 1Effect size= 0.03 |

BRMRS= Bech-Rafaelsen Manic Rating Scale; PANSS= Positive and Negative Syndrome Scale; HDRS = Hamilton Depressive Rating Scale; FEP= first episode psychosis; GAF = Global Assessment of Functioning.

**Table S4.** Results from the correlation analyses between educational level and TIB Total and syntactic comprehension abilities in healthy controls.

|  |  |
| --- | --- |
|  | **Educational level** |
| **TCGB Grammatical Errors** | p-value=1 Effect size=0.03 |
| **TCGB Non Grammatical Errors** | p-value=1 Effect size=0.02 |
| **TCGB Total Errors**  | p-value=1 Effect size=0.04 |
| **TCGB Locative Item**  | p-value=0.2 Effect size=0.01 |
| **TCGB Active Negative Item** | p-value=1 Effect size=0.01 |
| **TCGB Passive Affirmative Item** | p-value=1 Effect size=0.009 |
| **TCGB Passive Negative Item** | p-value=1 Effect size=0.07 |
| **TCGB Relative Item** | p-value=0.7 Effect size=0.03 |