

Supplementary table 1

|                             | Verbal<br>memory | Digit<br>sequence | Token<br>motor<br>task | Verbal<br>fluency | Symbol<br>coding | Towers<br>of<br>London | BACS<br>composite<br>score | SFS<br>composite<br>score |
|-----------------------------|------------------|-------------------|------------------------|-------------------|------------------|------------------------|----------------------------|---------------------------|
| Alda<br>( $\geq 7$ vs $<$ ) | 0.614            | 0.540             | 0.148                  | 0.156             | 0.352            | 0.376                  | 0.761                      | 0.365                     |
| <i>Covariates</i>           |                  |                   |                        |                   |                  |                        |                            |                           |
| Age                         | <b>0.003</b>     | 0.320             | 0.009                  | 0.251             | <b>0.001</b>     | 0.015                  | <b>0.001</b>               | -                         |
| Education<br>duration       | 0.568            | 0.967             | 0.358                  | 0.040             | 0.072            | 0.012                  | 0.176                      | 0.634                     |
| Premorbid IQ                | <b>&lt;0.001</b> | <b>&lt;0.001</b>  | 0.162                  | <b>0.001</b>      | 0.022            | <b>0.002</b>           | <b>&lt;0.001</b>           | 0.469                     |
| Age at onset                | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| Familial<br>history         | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| HAM-D                       | -                | -                 | 0.268                  | -                 | 0.619            | -                      | -                          | 0.466                     |
| YMRS                        | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| PANSS-P                     | -                | 0.432             | 0.357                  | 0.504             | 0.551            | -                      | 0.958                      | 0.786                     |
| PANSS-N                     | -                | 0.363             | 0.273                  | 0.476             | 0.035            | -                      | 0.078                      | <b>0.001</b>              |
| Number<br>of<br>episodes    | 0.031            | 0.158             | 0.057                  | -                 | 0.031            | 0.016                  | <b>0.003</b>               | 0.589                     |
| Psychotic<br>features       | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| Valproic acid               | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| Carbamazepine               | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| FGA                         | 0.018            | -                 | 0.142                  | 0.870             | 0.270            | -                      | 0.480                      | 0.282                     |
| SGA                         | -                | -                 | -                      | -                 | -                | -                      | -                          | -                         |
| Gender                      | -                | -                 | 0.015                  | -                 | -                | 0.491                  | -                          | -                         |
| BACS<br>composite<br>score  |                  |                   |                        |                   |                  |                        |                            | 0.097                     |

Alda scale, The Retrospective Criteria of Long-Term Treatment Response in Research Subjects with Bipolar Disorder scale; BACS, Brief Assessment of Cognition in Schizophrenia; FGA, first-generation antipsychotic ; HAM-D, Hamilton Rating Scale for Depression ; JART, Japanese Adult Reading Test; PANSS-P, Positive symptoms assessed by Positive and Negative Syndrome Scale; PANSS-N, Negative symptoms assessed by Positive and Negative Syndrome Scale; SFS,

Social Functional Scale; SGA, second-generation antipsychotic ; YMRS , Young mania rating scale.  
Values represent P values from one way ANOVA.