**Supplementary Material**

**for**

**Associations between cognitive impairment and quality of life in euthymic bipolar patients**

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**Supplementary Tables**

**Supplementary Table 1.** Partial correlations (controlled for 17-HAM-D) between the COBRA and QoL measurements (N = 40).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | *1* | *2* | *3* | *4* | *5* | *6* | *7* | *8* | *9* | *10* | *11* | *12* | *13* | *14* |
| 1. COBRA  | — |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. SDS work | .265 | — |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. SDS social | .492\*\* | .739\*\* | — |  |  |  |  |  |  |  |  |  |  |  |
| 4. SDS f/h | .285 | .648\*\* | .709\*\* | — |  |  |  |  |  |  |  |  |  |  |
| 5. SF-36 PF | -.365\* | -.35\* | -.464\*\* | -.352\* | — |  |  |  |  |  |  |  |  |  |
| 6. SF-36 RP | -.379\* | -.498\*\* | -.578\*\* | -.356\* | .493\*\* | — |  |  |  |  |  |  |  |  |
| 7. SF-36 BP | -.285 | -.019 | -.239 | -.138 | .210 | .140 | — |  |  |  |  |  |  |  |
| 8. SF-36 GH | -.341\* | -.301 | -.654\*\* | -.45\*\* | .474\*\* | .385\* | .245 | — |  |  |  |  |  |  |
| 9. SF-36 VT | -.56\*\* | -.273 | -.568\*\* | -.323\* | .354\* | .346\* | .205 | .513\*\* | — |  |  |  |  |  |
| 10. SF-36 SF | -.584\*\* | -.467\*\* | -.744\*\* | -.463\*\* | .435\*\* | .677\*\* | .193 | .570\*\* | .672\*\* | — |  |  |  |  |
| 11. SF-36 RE | -.66\*\* | -.484\*\* | -.61\*\* | -.412\*\* | .419\*\* | .741\*\* | .324\* | .485\*\* | .525\*\* | .757\*\* | — |  |  |  |
| 12. SF-36 MH | -.586\*\* | -.495\*\* | -.646\*\* | -.474\*\* | .503\*\* | .534\*\* | .315 | .463\*\* | .770\*\* | .716\*\* | .639\*\* | — |  |  |
| 13. SF-36 PCS | -.07 | -.105 | -.223 | -.177 | .787\*\* | .300 | .446\*\* | .443\*\* | -.021 | .021 | .144 | .101 | — |  |
| 14. SF-36 MCS | -.375\* | -.096 | -.425\*\* | -.27 | .062 | -.097 | .349\* | .537\*\* | .800\*\* | .431\*\* | .204 | .632\*\* | -.119 | — |
| 15. SF-36 RCS | -.544\*\* | -.519\*\* | -.585\*\* | -.369\* | .325\* | .862\*\* | .064 | .282 | .450\*\* | .834\*\* | .878\*\* | .606\*\* | -.062 | .036 |

*Abbreviations*:COBRA, cognitive complaints in bipolar disorder rating assessment; 17-HAM-D, Hamilton rating scale for depression; SDS, Sheehan disability scale; f/h, family life/home responsibilities; SF-36, Medical Outcomes Study-Short Form Health Survey; PF, physical functions; RP, role—physical; BP, bodily pain; GH, general health; VT, vitality; SF, social functioning; RE, role—emotional; MH, mental health; PCS, physical component summary; MCS, mental component summary; RCS, role component summary. \**p* < .05, \*\**p* < .01 (two-sided).

**Supplementary Table 2**. Neuropsychological assessment scores (N = 40).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test (unit) | Minimum | Maximum | Mean | SD |
| WCSTCA | 0 | 6 | 3.925 | 1.913 |
| PEM  | 0 | 26 | 3.7 | 5.729 |
| CPTerr | 0 | 16 | 3.775 | 4.209 |
| CPTRT (ms) | 261 | 629 | 395.925 | 77.649 |
| WFT | 6 | 54 | 27.8 | 11.355 |
| STRT (s) | 0 | 27 | 9.4 | 5.843 |
| STerr  | 0 | 5 | 0.925 | 1.228 |
| TMT-A (s) | 38 | 186 | 85.325 | 29.347 |
| TMT-B (s)  | 52 | 203 | 100.2 | 38.857 |
| AVLTi | 2 | 8 | 5.15 | 1.406 |
| AVLTr | 0 | 10 | 6.4 | 2.405 |

*Abbreviations*: WCSTCA, Wisconsin card sorting test number of categories achieved; PEM, number of perseverative errors (Milner type); CPTerr, continuous performance test errors; CPTRT, continuous performance test reaction time; WFT, word fluency test; STRT, Stroop test reaction time; STerr, Stroop test number of errors. TMT-A, trail making test numeric sequence; TMT-B, trail making test alternating numeric and alphabetic sequence; AVLTi, auditory verbal learning test instant recall; AVLTr, auditory verbal learning test delayed recall.

**Supplementary Table 3.** Partial correlations (controlled for 17-HAM-D) between the neuropsychological and QoL measurements (N = 40).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | WCSTCA | PEM | CPTerr | CPTRT | WFT | STRT | STerr | TMT-A | TMT-B | AVLTi | AVLTr |
| SDS work | -.095 | .058 | -.134 | .009 | -.146 | .092 | -.079 | .146 | .14 | -.067 | .006 |
| SDS social | -.377\* | -.005 | -.11 | -.026 | -.172 | .082 | -.27 | .225 | .037 | -.137 | .088 |
| SDS f/h | .033 | .212 | .129 | .057 | .103 | .006 | -.331\* | .307 | .106 | -.24 | -.145 |
| SF-36 PF | .253 | -.174 | .178 | -.276 | .306 | -.447\*\* | -.2 | -.536\*\* | -.563\*\* | .141 | -.024 |
| SF-36 RP | -.246 | -.084 | -.216 | -.008 | .026 | -.216 | -.038 | -.272 | -.228 | .409\* | .146 |
| SF-36 BP | .025 | .27 | -.175 | .116 | .029 | .204 | .087 | -.194 | -.102 | .187 | .005 |
| SF-36 GH | -.057 | -.014 | .059 | -.042 | .122 | .014 | .323\* | -.267 | -.103 | .184 | -.117 |
| SF-36 VT | .143 | -.121 | .005 | -.014 | .031 | .048 | .286 | -.31 | .012 | .038 | -.159 |
| SF-36 SF | .152 | -.112 | -.051 | .161 | .13 | -.167 | .203 | -.23 | -.016 | .232 | -.008 |
| SF-36 RE | .138 | -.11 | -.135 | .137 | -.012 | -.092 | .037 | -.394\* | -.15 | .133 | .005 |
| SF-36 MH | -.105 | -.244 | -.053 | -.037 | .166 | -.164 | .169 | -.444\*\* | -.191 | .387\* | .159 |
| SF-36 PCS | -.146 | .076 | .092 | -.279 | .211 | -.219 | -.195 | -.374\* | -.521\*\* | .143 | -.042 |
| SF-36 MCS | .27 | -.027 | .038 | .055 | .056 | .229 | .456 | -.152 | .168 | .066 | -.117 |
| SF-36 RCS | -.095 | -.157 | -.177 | .157 | .002 | -.199 | .009 | -.243 | -.076 | .247 | .104 |

*Abbreviations*:17-HAM-D, Hamilton rating scale for depression; SDS, Sheehan disability scale; f/h, family life/home responsibilities; SF-36, Medical Outcomes Study-Short Form Health Survey; PF, physical functions; RP, role—physical; BP, bodily pain; GH, general health; VT, vitality; SF, social functioning; RE, role—emotional; MH, mental health; PCS, physical component summary; MCS, mental component summary; RCS, role component summary; WCSTCA, Wisconsin card sorting test number of categories achieved; PEM, number of perseverative errors (Milner type); CPTerr, continuous performance test errors; CPTRT, continuous performance test reaction time; WFT, word fluency test; STRT, Stroop test reaction time; STerr, Stroop test number of errors. TMT-A, trail making test numeric sequence; TMT-B, trail making test alternating numeric and alphabetic sequence; AVLTi, auditory verbal learning test instant recall; AVLTr, auditory verbal learning test delayed recall. \**p* < .05, \*\**p* < .01 (two-sided).