Table S1. Descriptive statistics for global measures of Motivational Interview Treatment Integrity (MITI), behavior counts, summary scores, and interrater reliability

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Measures | Mean ± SD | Minimum | Maximum | ICC |
| **Global measures** |  |  |  |  |
| Evocation | 3.99 (0.65) | 2 | 5 | 0.69 |
| Collaboration | 3.31 (0.32) | 2 | 5 | 0.71 |
| Autonomy/support | 4.02 (0.51) | 1 | 5 | 0.73 |
| Direction | 3.99 (0.53) | 1 | 5 | 0.79 |
| Empathy  | 4.48 (0.50) | 1 | 5 | 0.70 |
| **Behavior counts** |  |  |  |  |
| Giving Information | 0.34 (0.40) | 0 |  | 0.81 |
| MI-Adherent | 5.47 (2.64) | 0 | 18 | 0.92 |
| MI-Non-Adherent | 0.88 (0.93) | 0 | 5 | 0.87 |
| Closed Questions | 12.83 (8.01) | 0 | 32 | 0.76 |
| Open Questions | 8.19 (4.03) | 0 | 30 | 0.81 |
| Simple Reflections | 11.61 (6.12) | 0 | 49 | 0.68 |
| Complex Reflections | 100.00 (5.81) | 1 | 30 | 0.80 |
| **Summary scores** |  |  |  |  |
| Global Spirit Rating | 3.99 (0.47) | 2.11 | 4.81 | 0.79 |
| Percent Complex Reflections | 50.38 (16.88) | 10.01 | 100.00 | 0.76 |
| Percent OpenQuestions | 60.73 (15.90) | 20.17 | 100.00 | 0.81 |
| Reflection-to-Question Ratio | 2.55 (2.13) | 0.37 | 19.46 | 0.77 |
| Percent MI Adherent | 96.68 (6.25) | 50.00 | 100.00 | 0.83 |

*Note.* MI = motivational interviewing. MITI = Motivational Interview Treatment Integrity. ICC = intraclass correlation coefficient; used for testing inter-rater reliability between two raters.

Table S2. Three-level Multiple Linear Regression Models Predicting Serum Levels

|  |  |  |  |
| --- | --- | --- | --- |
| Variable  | Serum Lithium level | Serum Carbamazepine level | Serum Sodium Valproate level |
|  | *Β* (*SE*) | *p*-value | *Β* (*SE*) | *p*-value | *Β* (*SE*) | *p*-value |
| Group (Ref: UC) | 0.02 (0.04) | 0.62 | 0.08 (0.32) | 0.80 | 0.69 (2.14) | 0.74 |
| Time (Ref: baseline)  |  |  |  |  |  |  |
| One month | 0.04 (0.01) | 0.002 | 0.19 (0.11) | 0.07 | 1.94 (0.52) | <0.001 |
| Six months | -0.06 (0.01) | <0.001 | -0.26 (0.11) | 0.016 | 2.70 (0.52) | <0.001 |
| Group × Time |  |  |  |  |  |  |
| EXP vs. UC at one month | 0.15 (0.02) | <0.001 | 1.61 (0.15) | <0.001 | 3.62 (0.73) | <0.001 |
| EXP vs. UC at six months | 0.20 (0.02) | <0.001 | 1.40 (0.16) | <0.001 | 5.28 (0.74) | <0.001 |
| Intercept | 0.80 (0.09) | <0.001 | 6.01 (0.73) | <0.001 | 44.54 (8.56) | <0.001 |
| $\hat{σ}\_{st}^{2}$ (patients)  | 0.04 (0.003) | <0.001 | 0.66 (0.18) | <0.001 | 18.71 (8.13) | 0.022 |
| $\hat{σ}\_{sc}^{2}$ (centers)  | 0.02 (0.002) | <0.001 | 1.06 (0.10) | <0.001 | 256.87 (15.35) | <0.001 |

*Note.* UC = usual care group. EXP = experimental group. ADR = Adverse drug reaction.

Table S3: Direct and Mediated Effects of Group on Medication Adherence and Quality of Life (QoL)

|  |  |  |  |
| --- | --- | --- | --- |
| Outcome | Time (Month) | Mediator | Coefficient (SE) |
| A. Intervention effect on outcome  | B. Intervention effect on mediator | C. Mediator effect on outcome | Mediated effect (=B\*C) |
| Medication adherence | 1 |  | 3.15 (0.23)\*\* |  |  |  |
| BMQ necessity |  | 4.33 (0.17)\*\* | 0.13 (0.01)\*\* | 0 55\*\* (0.04) |
| BMQ concerns |  | -6.67 (0.27)\*\* | -0.07 (0.01)\*\* | 0.45\*\* (0.08) |
| PBC |  | 0.59 (0.06)\*\* | 0.13 (0.10) | 0.08 (0.06) |
| Intention |  | 0.60 (0.05)\*\* | 0.432 (0.12)\*\* | 0.26 (0.07)\*\* |
| Self-monitoring |  | 0.55 (0.06)\*\* | 0.77 (0.110)\*\* | 0.42 (0.08)\*\* |
| Action planning |  | 0.76 (0.06)\*\* | 0.54 (0.10)\*\* | 0.41 (0.08)\*\* |
| Coping planning |  | 0.77 (0.06)\*\* | 0.56 (0.08)\*\* | 0.43 (0.07)\*\* |
| SRBIA |  | 0.45 (0.05)\*\* | 0.11 (0.11) | 0.05 (0.05) |
| 6 |  | 3.20 (0.23)\*\* |  |  |  |
| BMQ necessity |  | 4.77 (0.17)\*\* | 0.12 (0.01)\*\* | 0.57 (0.05)\*\* |
| BMQ concerns |  | -6.75 (0.28)\*\* | -0.06 (0.01)\*\* | 0.42 (0.07)\*\* |
| PBC |  | 0.58 (0.05)\*\* | 0.16 (0.10) | 0.09 (0.06) |
| Intention |  | 0.60 (0.05)\*\* | 0.478 (0.11)\*\* | 0.29 (0.07)\*\* |
| Self monitoring |  | 0.50 (0.06)\*\* | 0.79 (0.11)\*\* | 0.40 (0.07)\*\* |
| Action planning |  | 0.78 (0.06)\*\* | 0.54 (0.10)\*\* | 0.42 (0.08) |
| Coping planning |  | 0.78 (0.06)\*\* | 0.52 (0.09)\*\* | 0.40 (0.08)\*\* |
| SRBIA |  | 0.43 (0.05)\*\* | 0.142 (0.10) | 0.06 (0.04) |
| QoL.BD | 1 | Medication adherence  | 0.93 (0.55)\*\* | 3.15 (0.23)\*\* | 0.04 (0.02)\*\* | 0.12 (0.07)\*\* |
| 6 | Medication adherence | 1.17 (0.52)\* | 3.20 (0.23)\*\* | 0.23 (0.02)\*\* | 0.72 (0.09)\*\* |

BMQ= Beliefs about Medicines Questionnaire; PBC= Perceived behavioral control; SRBIA= Self-report Behavioral Automaticity Index; QoL.BD= Quality of Life in Bipolar Disorder scale. \**p* < 0.05, \*\**p* < 0.01