**Appendix**

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| Table S1. Patient Global Impression of Improvement (PGI-I) Scale |
| A categorical scale on which patients provide ratings of their overall impression of how they are feeling since treatment  began, with following choices: |
| 1. Very much better |
| 2. Much better |
| 3. A little better |
| 4. No change |
| 5. A little worse |
| 6. Much worse |
| 7. Very much worse |
| *Adopted from* Guy W: ECDEU assessment manual for psychopharmacology, vol. 76: US Department of Health, Education, and Welfare, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, National Institute of Mental Health, Psychopharmacology Research Branch, Division of Extramural Research Programs; 1976. |

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| Table S2. Clinician Global Impression of Improvement (CGI-I) Scale |
| Compared to the patient’s condition at admission to the project [prior to medication initiation], this patient’s condition is: |
| 1. Very much improved |
| 2. Much improved |
| 3. Minimally improved |
| 4. No change |
| 5. Minimally worse |
| 6. Much worse |
| 7. Very much worse |
| *Adopted from* Guy W: ECDEU assessment manual for psychopharmacology, vol. 76: US Department of Health, Education, and Welfare, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, National Institute of Mental Health, Psychopharmacology Research Branch, Division of Extramural Research Programs; 1976. |

Table S2 – The agreement between PGI-I and CGI-I: sub-group analyses for bipolar and major depressive disorder at all post baseline assessment time points.

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| Assessment time point | Number of pairs | CGI-I Mean ± SD | PGI-I Mean ± SD | Weighted agreement (%) | ICC unadjusted  ICC (95%CI) | | ICC Adjusted  ICC (95%CI) |
| Bipolar | | | | | | | |
| 4 weeks | 136 | 3.26±0.94 | 2.9±1.15 | 95.3 | | 0.88 (0.62, 0.97) | 0.87 (0.58, 0.97) |
| 6 weeks | 125 | 2.89±1.14 | 2.71±1.10 | 93.9 | | 0.88 (0.56, 0.98) | 0.90 (0.58, 0.98) |
| 8 weeks | 117 | 2.56±1.19 | 2.87±1.31 | 93.2 | | 0.77 (0.44, 0.94) | 0.74 (0.39, 0.93) |
| 12 weeks | 106 | 2.78±1.30 | 2.98±1.41 | 93.0 | | 0.79 (0.46, 0.94) | 0.75 (0.41, 0.93) |
| 16 weeks | 96 | 2.97±1.41 | 2.72±1.31 | 94.3 | | 0.83 (0.56, 0.95) | 0.74 (0.44, 0.92) |
| 20 weeks | 89 | 2.62 ± 1.34 | 2.55 ± 1.14 | 94.9 | | 0.81(0.52, 0.95) | 0.79 (0.47, 0.94) |
| 24 weeks | 83 | 2.53 ± 1.29 | 2.49 ± 1.20 | 96.1 | | 0.87 (0.63, 0.96) | 0.86 (0.60, 0.96) |
| 28 weeks | 88 | 2.43 ± 1.33 | 2.41 ± 1.32 | 94.3 | | 0.85 (0.54, 0.96) | 0.81 (0.48, 0.95) |
| Major depressive disorder | | | | | | | |
| 2 weeks | 308 | 3.40 ± 0.90 | 3.46 ± 0.92 | 98.7 | | 0.93(0.83, 0.98) | 0.92(0.81, 0.97) |
| 4 weeks | 301 | 3.24±1.03 | 3.19±0.99 | 98.3 | | 0.93 (0.82, 0.98) | 0.92 (0.97, 0.98) |
| 6 weeks | 222 | 2.90±1.11 | 2.97±1.07 | 96.9 | | 0.92 (0.70, 0.98) | 0.93 (0.69, 0.98) |
| 8 weeks | 274 | 2.79±1.14 | 2.89±1.08 | 97.6 | | 0.70 (0.37, 0.91) | 0.89 (0.76, 0.95) |
| 12 weeks | 259 | 2.72±1.26 | 2.82±1.14 | 97.2 | | 0.92 (0.81, 0.97) | 0.90 (0.77, 0.96) |
| 16 weeks | 257 | 2.92±1.27 | 3.01±1.21 | 97.2 | | 0.87 (0.71, 0.95) | 0.83 (0.66, 0.93) |

*Note*: SD: Standard deviation. ICC: Intra-class correlation, CI: Confident interval.

Table S3 – Convergent and divergent validity of PGI-I: subgroup analyses for bipolar and major depressive disorder at all post baseline assessment time points.

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| Assessment time point | CGI-I | | | | | | | | | PGI-I | | | | | | | |
| PGI-I | MADRS | SOFAS | Q-LES-Q | LIFE-RIFT | MADRS change | SOFAS change | Q-LES-Q change | LIFE-RIFT change | MADRS | SOFAS | Q-LES-Q | LIFE-RIFT | MADRS change | SOFAS change | Q-LES-Q change | LIFE-RIFT change |
| Bipolar | | | | | | | | | | | | | | | | | |
| Week 4 | 0.64 | 0.52 | -0.23 | -0.33 | 0.30 | 0.55 | -0.33 | -0.36 | 0.36 | 0.38 | -0.16 | -0.35 | 0.32 | 0.48 | -0.27 | -0.40 | 0.48 |
| Week 6 | 0.76 | 0.61 | -0.41 | -0.34 | 0.37 | 0.44 | -0.33 | -0.32 | 0.31 | 0.59 | -0.36 | -0.39 | 0.36 | 0.53 | -0.37 | -0.37 | 0.30 |
| Week 8 | 0.64 | 0.66 | -0.33 | -0.51 | 0.45 | 0.58 | -0.35 | -0.56 | 0.48 | 0.56 | -0.28 | -0.48 | 0.30 | 0.46 | -0.34 | -0.53 | 0.36 |
| Week 12 | 0.75 | 0.73 | -0.35 | -0.58 | 0.58 | 0.71 | -0.52 | -0.51 | 0.58 | 0.63 | -0.32 | -0.57 | 0.52 | 0.63 | -0.43 | -0.58 | 0.53 |
| Week 16 | 0.78 | 0.63 | -0.41 | -0.51 | 0.45 | 0.57 | -0.44 | -0.55 | 0.34 | 0.57 | -0.36 | -0.47 | 0.45 | 0.61 | -0.36 | -0.55 | 0.44 |
| Week 20 | 0.69 | 0.72 | -0.52 | -0.63 | 0.70 | 0.49 | -0.30 | -0.61 | 0.55 | 0.58 | -0.52 | -0.61 | 0.63 | 0.46 | -0.32 | -0.62 | 0.45 |
| Week 24 | 0.79 | 0.74 | -0.32 | -0.59 | 0.59 | 0.50 | -0.12 | -0.52 | 0.32 | 0.61 | -0.35 | -0.53 | 0.53 | 0.43 | -0.13 | -0.46 | 0.30 |
| Week 28 | 0.81 | 0.71 | -0.39 | -0.59 | 0.64 | 0.51 | -0.21 | -0.50 | 0.44 | 0.61 | -0.30 | -0.51 | 0.51 | 0.44 | -0.14 | -0.52 | 0.44 |
| Major depressive disorder | | | | | | | | | | | | | | | | | |
| Week 2 | 0.67 | 0.58 | -0.33 | -0.29 | 0.43 | 0.60 | -0.35 | -0.37 | 0.42 | 0.45 | -0.22 | -0.34 | 0.36 | 0.49 | -0.32 | -0.39 | 0.40 |
| Week 4 | 0.71 | 0.71 | -0.45 | -0.26 | 0.54 | 0.71 | -0.48 | -0.44 | 0.50 | 0.57 | -0.38 | -0.23 | 0.47 | 0.62 | -0.41 | -0.38 | 0.47 |
| Week 6 | 0.67 | 0.75 | -0.58 | -0.61 | 0.66 | 0.73 | -0.57 | -0.53 | 0.60 | 0.57 | -0.49 | -0.50 | 0.61 | 0.60 | -0.51 | -0.47 | 0.61 |
| Week 8 | 0.76 | 0.79 | -0.60 | -0.26 | 0.70 | 0.76 | -0.60 | -0.49 | 0.61 | 0.66 | -0.56 | -0.22 | 0.62 | 0.67 | -0.52 | -0.41 | 0.56 |
| Week 12 | 0.76 | 0.80 | -0.62 | -0.23 | 0.66 | 0.78 | -0.58 | -0.48 | 0.61 | 0.70 | -0.58 | -0.23 | 0.60 | 0.68 | -0.53 | -0.47 | 0.55 |
| Week 16 | 0.67 | 0.73 | -0.61 | -0.07 | 0.63 | 0.73 | -0.56 | -0.35 | 0.54 | 0.60 | -0.52 | -0.07 | 0.54 | 0.60 | -0.50 | -0.30 | 0.46 |