Supplemental Table 1 Primary Depression and Cognitive Outcomes: Questionnaire Scores

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|  | Methohexital Control Arm (n=27) | Ketamine Intervention Arm (n=23) | p value\* |
| Initial Baseline Score |
| PHQ-9 | 21.5 (±3.6) | 21.1 (±3.9) | 0.74 |
| MOCA | 26.7 (±3.9) | 27.4 (±2.0) | 0.25 |
| HAM-D | 28.8 (±5.2) | 27.6 (±8.7) | 0.54 |
| Scores at Final ECT Session |
| PHQ-9 | 8.7 (±5.3) | 7.2 (±4.4)  | 0.31 |
| MOCA | 24.4(±4.1)  | 25.6 (±3.8) | 0.42 |
| HAM-D | 15 (±6.9)  | 12.3 (±7.6)  | 0.22 |
| Scores at 72 Hour After ECT |
| PHQ-9 | 9.4 (±6.4)  | 8.6 (±6.7)  | 0.70 |

\*All p values calculated using two sided student’s t test given normal distribution of questionnaire data. ‡Psychiatrist was asked yes/no if patient had shown meaningful psychiatric improvement as a result of ECT at 2-4 week follow-up. Abbreviations are PHQ-9 Patient Health Questionnaire 9, HAM-D Hamilton Depression Rating Scale and MOCA Montreal Cognitive Assessment. All questionnaires are included in Appendix 1. On the PHQ-9 Questionnaire a score of 20-27 is severe depression, 15-19 moderately severe depression, 10-14 moderate depression, 5-9 mild depression and 1-4 minimal depression. On the HAM-D questionnaire scores greater than 23 are very severe depression, 19-22 severe depression, 14-18 moderate depression, 8-13 mild depression and 0-7 are normal.