**Supplementary table 2 The LMM analysis of HAMA, HAMD, PSQI and VAS**

| Effect | Time point | Comprehensive group (n=72) EMM (95% CI) | Control group (n=70) EMM (95% CI) | Between-group difference (95% CI) | t-value | P-value |
|---|---|---|---|---|---|---|
| **HAMA** | 7 d | 18.63 (17.69, 19.57) | 19.76 (18.78, 20.74) | -1.13 (-2.14, -0.12) | -2.19 | 0.030 |
| | 14 d | 14.72 (13.91, 15.53) | 17.19 (16.35, 18.03) | -2.47 (-3.31, -1.63) | -5.81 | <0.001 |
| | Discharge Day | 13.25 (12.52, 13.98) | 15.01 (14.25, 15.77) | -1.76 (-2.49, -1.03) | -4.73 | <0.001 |
| | 1 m | 7.19 (6.64, 7.74) | 9.34 (8.76, 9.92) | -2.15 (-2.77, -1.53) | -6.86 | <0.001 |
| **HAMD** | 7 d | 21.19(20.1,22.29) | 22.35(21,37,23.32) | -1.15(-1.78,-0.52) | -3.61 | <0.001 |
| | 14 d | 13.21(12.15,14.27) | 14.22(13.37,15.07) | -1.01(-1.66,-0.36 | -3.07 | 0.003 |
| | Discharge Day | 10.7(10.12,11.28) | 11.68(10.96,12.4) | -0.98(-1.64,-0.32 | -2.94 | 0.004 |
| | 1 m | 4.88(4.28,5.48) | 5.7(5.16,6.24) | -0.82(-1.45,-0.19) | -2.57 | 0.011 |
| **PSQI** | 7 d | 8.22 (7.83, 8.61) | 8.99 (8.59, 9.39) | -0.78 (-1.27, -0.29) | -3.16 | 0.002 |
| | 14 d | 6.58 (6.24, 6.92) | 7.68 (7.33, 8.03) | -1.10 (-1.51, -0.69) | -5.24 | <0.001 |
| | Discharge Day | 3.95 (3.65, 4.25) | 5.12 (4.81, 5.43) | -1.17 (-1.52, -0.82) | -6.56 | <0.001 |
| | 1 m | 1.68 (1.47, 1.89) | 2.34 (2.12, 2.56) | -0.66 (-0.96, -0.36) | -4.38 | <0.001 |
| **VAS** | 1 d | 7.24 (7.04, 7.44) | 7.40 (7.19, 7.61) | -0.16 (-0.39, 0.07) | -1.36 | 0.176 |
| | 2 d | 5.85 (5.66, 6.04) | 6.24 (6.04, 6.44) | -0.39 (-0.59, -0.19) | -3.82 | <0.001 |
| | 3 d | 4.89 (4.72, 5.06) | 5.16 (4.98, 5.34) | -0.27 (-0.44, -0.10) | -3.16 | 0.002 |
| | 5 d | 2.04 (1.89, 2.19) | 2.31 (2.15, 2.47) | -0.27 (-0.42, -0.12) | -3.53 | <0.001 |