Supplementary table 4. Evolution of cognitive scores before and after ECT in the whole sample

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| --- | --- | --- |
|  |  |  |
| **Before ECT (Baseline M-1)** | **After ECT (Day19)** | **Comparison** |
| Frequency or | Frequency or |  |
|  | Mean (SD) | Median [min;max] | Mean (SD) | Median [min;max] | p value | Size effect η2 / OR [Confidence interval] |
| **MMSE (n=50)** |
| Total sore  | 26.38 (3.08) | 27.00 [19;30] | 27.00 (2.08) | 27.00 [23;30] | 0.588a | 0.006 |
| **Doors test** |
| part A, scaled score | 6.91 (3.69) | 7.00 [0;13] | 7.11 (3.97) | 6.00 [0;13] | 0.720a | 0.003 |
| part B, scaled score | 7.11 (3.45) | 7.50 [0;15] | 6.89 (4.17) | 7.00 [0;15] | 0.711a | 0.003 |
| **D2 test (n=45)** |
| Total number of characters processed (TN)  | 84.59 (9.51) | 83.00 [70;105] | 88.77 (10.18) | 88.00 [70;113] | 0.028a | 0.107 |
| Concentration performance (CP)  | 91.18 (7.68) | 91.00 [72;108] | 95.31 (7.80) | 95.00 [80;114] | **0.001a**\* | 0.297 |
| **Rey figure (n=46)** |
| Z score  | -1.65 (2.38) | -1.23 [-9.24;0.84] | -1.02 (2.06) | 0.00 [-8.94;0.84] | 0.017a | 0.124 |
| **RL/RI-16 (n=41)** |
| Free Recall 1 (z score)  | -0.81 (1.05) | -0.86 [-2.73;1.25] | -0.97 (0.95) | -0.86 [-3.43;0.70] | 0.404a | 0.017 |
| Free Recall 2 (z score) | -0.84 (0.97) | -0.82 [-2.93;1.08] | -1.17 (1.04) | -1.12 [-3.02;0.81] | 0.060a | 0.086 |
| Free Recall 3 (z score)  | -0.89 (1.10) | -0.84 [-3.54;1.30] | -1.31 (1.24) | -1.39 [-3.09;1.07] | 0.050a | 0.094 |
| Delayed Free Recall (z score)  | -0.95 (1.11) | -0.71[-4.31;0.55] | -1.88 (1.19) | -1.98 [-3.87;0.68] | **<0.001a\*** | 0.495 |
| Pathological Total Recall 1 (%) | 19.5% | 21.4% | 1.00b | OR=1.25 [0.27;6.30] |
| Pathological Total Recall 2 (%) | 12.2% | 31% | 0.046b | OR=8.00 [1.07;354.98] |
| Pathological Total Recall 3 (%) | 14.6% | 35.7% | 0.027b | OR=5.50 [1.20;51.07] |
| Pathological Delayed Total Recall (%) | 14.6% | 50% | **0.002b**\* | OR=8.00 [1.88;71.72] |
| Pathological Correct Recognition (%) | 22% | 42.9% | 0.039b | OR=4.00 [1.08;22.09] |
| Pathological False Recognition (%) | 0% | 19% | - | - |