**Supplementary table. Relationship Between Cognitive Complaint Assessments and change of Z –score within cognitive tests at 1 year follow-up**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Executive** | | | | **Memory** | | | | **Language** | | | |
| **Question** | **Mean Δ Z –score (SD) Visual Verbal Test** | **p value** | **Mean Δ Z -score (SD) TMT-BA** | **p value** | **Mean Δ Z –score mean**  **(SD) CVLT-II** | **p value** | **Mean Δ Z –score mean (SD) RCFT Delayed Recall** | **p value** | **Mean Δ Z- score mean (SD) Category Fluency** | **p value** | **Mean Δ Z – score mean (SD) Boston Naming Test** | **p value** |
| **MDS-UPDRS Q1.1** |  |  |  |  |  |  |  |  |  |  |  |  |
| **0** | -0.12 (1.91) |  | 0.09 (1.68) |  | -0.42 (0.85) |  | 0.21 (1.2) |  | -0.6 (1.06) |  | -0.24 (0.54) |  |
| **≥1** | 0.38 (2.5) | 0.45 | -0.98 (2.81) | 0.09 | -0.04 (1.11) | 0.08 | 0.14 (1.31) | 0.8 | -0.75 (0.98) | 0.43 | -0.33 (0.51) | 0.35 |
| **NBI-Subject (# of complaints)** |  |  |  |  |  |  |  |  |  |  |  |  |
| **0** | 0.19 (2.38) |  | 0.06 (1.95) |  | -0.31 (0.83) |  | 0.17 (1.21) |  | -0.51 (0.91) |  | -0.23 (0.51) |  |
| **1** | -0.17 (1.56) |  | 0.33 (1.04) |  | -0.45 (0.78) |  | 0.33 (1.19) |  | -0.69 (1.86) |  | -0.34 (0.62) |  |
| **≥2** | 0 (2.14) | 0.41 | -0.81 (2.56) | 0.15 | -0.21 (1.13) | 0.84 | 0.14 (1.22) |  | -0.73 (1.07) |  | -0.28 (0.53) | 0.73 |
| **NBI-Close Contact ( # of complaints)** |  |  |  |  |  |  |  |  |  |  |  |  |
| **0** | 0.12 (2.09) |  | -0.1 (1.99) |  | -0.33 (0.89) |  | 0.17 (1.14) |  | -0.55 (1.02) |  | -0.32 (0.5) |  |
| **1** | -0.15 (1.82) |  | -1.25 (3.17) |  | -0.16 (0.94) |  | 0.016 (1.23) |  | -0.86 (0.93) |  | -0.01 (0.53) |  |
| **≥2** | -0.21 (2.82) | 0.86 | 0.14 (0.88) | 0.28 | -0.25 (1.33) | 0.72 | 0.51 (1.54) | 0.49 | -0.86 (1.23) | 0.36 | -0.32 (0.62) | 0.07 |
| **General complaint question** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Yes** | -0.22 (0.56) |  | -0.48 (2.62) |  | -0.39 (1.15) |  | 0.13 (1.32) |  | -0.67 (1.21) |  | -0.31 (0.55) |  |
| **No** | -0.17 (0.89) | 0.91 | -0.03 (1.82) | 0.8 | -0.18 (0.76) | 0.16 | 0.22 (1.15) | 0.67 | -0.63 (0.94) | 0.83 | -0.3 (0.52) | 0.89 |
| **Question** | **Visuospatial** | | | | **Attention** | | | |
| **Question** | **Mean Δ Z –score (SD) JLO** | **p value** | **Mean Δ Z –score (SD) RCFT Copy** | **p value** | **Mean Δ Z –score mean (SD) CWICN** | **p value** | **Mean Δ Z –score mean (SD) LNS** | **p value** |
| **MDS-UPDRS Q1.1** |  |  |  |  |  |  |  |  |
| **0** | -0.12 (1.3) |  | -0.22 (1.06) |  | -0.12 (0.74) |  | 0.09 (0.78) |  |
| **≥1** | -0.14 (1.19) | 0.91 | -0.08 (0.97) | 0.49 | -0,28 (0.81) | 0.16 | -0.15 (0.84) | 0.13 |
| **NBI-Subject (# of complaints)** |  |  |  |  |  |  |  |  |
| **0** | -0.24 (1.46) |  | -0.17 (1.09) |  | -0.04 (0.83) |  | 0.12 (0.81) |  |
| **1** | -0.11 (1.32) |  | 0 (0.92) |  | -0.26 (0.81) |  | -0.09 (0.88) |  |
| **≥2** | -0.33 (1.01) | 0.72 | -0.26 (1.02) | 0.53 | -0.25 (0.67) | 0.17 | -0.46 (0.75) | 0.47 |
| **NBI-Close Contact ( # of complaints)** |  |  |  |  |  |  |  |  |
| **0** | -0.24 (1.27) |  | -0.11 (0.98) |  | -0.1 (0.7) |  | 0.001 (0.76) |  |
| **1** | 0.05 (1.13) |  | -0.17 (0.94) |  | -0.28 (0.59) |  | 0 (0.97) |  |
| **≥2** | 0.34 (1.31) | 0.23 | -0.56 (1.39) | 0.38 | -0.57 (1.14) | 0.23 | 0.09 (0.86) | 0.92 |
| **General complaint question** |  |  |  |  |  |  |  |  |
| **Yes** | -0.1 (1.14) |  | -0.23 (1.01) |  | -0.22 (0.56) |  | -0.13 (0.81) |  |
| **No** | -0.09 (1.33) | 0.96 | -0.18 (1.09) | 0.61 | -0.17 (0.89) | 0.14 | 0.14 (0.8) | 0.08 |

The threshold for statistically significant considering correction for multiple comparisons = 0.0017.

TMT-BA: Trail Making Test B minus A; CVLT-II: California Verbal Learning Test-II Long Delay Free Recall test; RCFT: Rey Complex Figure Test; JLO: Benton Judgment of Line Orientation; CWICN: Color Word Interference Color Naming test; LNS: Wechsler Memory Scale-III letter-number sequencing test; NBI: Neurobehavioral Signs and Symptoms Abbreviated Inventory; MDS-UPDRS Q1.1 Movement Disorders Society Unified Parkinson’s Disease Rating Scale part I question 1.