**Table S1**

*Sample characteristic comparisons between OCS-TA and UK normative participant demographics*

|  | Version A | | | | Version B | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Demographic | statistic | *df* | *p* | effect size | statistic | *df* | *p* | effect size |
| Sex | 𝜒2 = 2.00 | 1.00 | .16 | 0.11 | 𝜒2= 2.00 | 1.00 | .16 | 0.15 |
| Age | *t=*17.11 | 261.83 | <.001 | 2.02 | *t=*4.47 | 63.84 | <.001 | 0.91 |
| Education | *t=*-3.93 | 290.21 | <.001 | -0.45 | *t=*3.22 | 115.10 | <.001 | 0.52 |

**Table S2**

*Statistical comparison between low and high education groups on the OCS-TA using Cohen’s d.*

| Task name | Measure | Low education M | High education M | *t* | Cohen’s *d* |
| --- | --- | --- | --- | --- | --- |
| Picture naming (0-4) | Overall accuracy | 3.66 | 3.98 | -2.12 | -0.84\* |
| Semantics (0-3) | Overall accuracy | 2.91 | 2.99 | -1.26 | -0.48 |
| Orientation (0-4) | Overall accuracy | 3.66 | 3.99 | -2.61 | -1.06\* |
| Visual field (0-4) | Overall accuracy | 3.71 | 3.98 | -2.31 | -0.82\* |
| Sentence reading (0-15) | Overall accuracy | 12.37 | 14.88 | -2.68 | -1.09\* |
| Number writing (0-3) | Overall accuracy | 2.51 | 2.99 | -2.59 | -1.07\* |
| Calculation (0-4) | Overall accuracy | 3.60 | 3.90 | -2.48 | -0.75\* |
| Broken hearts (0-50) | Overall accuracy | 43.46 | 48.09 | -3.34 | -1.16\*\* |
|  | Space Asym (left > 0, right <0 | -0.37 | -0.17 | -0.70 | -0.19 |
|  | Obj Asym (left > 0, right <0 | -0.03 | 0.02 | -0.24 | -0.08 |
| Imitation (0-12) | Overall accuracy | 11.54 | 11.93 | -1.80 | -0.64 |
| Recall and recognition (0-4) | Overall accuracy | 2.89 | 3.56 | -2.79 | -0.68\* |
| Episodic memory (0-4) | Overall accuracy | 3.63 | 3.98 | -2.97 | -1.07\* |
| Executive task (-12 to 12) | Exec score accuracy (sum of accuracy in single tasks versus mixed) | -0.20 | -0.77 | 2.04 | 0.62\* |

Note. Significance is noted as ‘\*\*’ for p<.001 and ‘\*’ for p<.05

**Table S3**

Comparison between OCS-TA and OCS version B including 5th (95th) centile cut scores.

|  |  | UK normative data | | | OCS-TA normative data | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Task name | Measure | Mean | 5th centile | 95th centile | Mean | 5th centile | 95th centile | Cohen’s *d* |
| Picture naming (0-4) | Overall accuracy | 3.96 | 3 |  | 3.92 | 3 |  | 0.12 |
| Semantics (0-3) | Overall accuracy | 3.00 | 3 |  | 2.98 | 3 |  | 0.29 |
| Orientation (0-4) | Overall accuracy | 3.98 | 4 |  | 3.98 | 4 |  | 0.01 |
| Visual field (0-4) | Overall accuracy | 4.00 | 4 |  | 4.00 | 4 |  |  |
| Sentence reading (0-15) | Overall accuracy | 14.82 | 14 |  | 14.85 | 15 |  | -0.05 |
| Number writing (0-3) | Overall accuracy | 2.95 | 3 |  | 3.00 | 3 |  | -0.28\* |
| Calculation (0-4) | Overall accuracy | 3.82 | 3 |  | 3.92 | 3 |  | -0.24 |
| Broken hearts (0-50) | Overall accuracy | 47.22 | 42 |  | 48.10 | 42 |  | -0.29 |
|  | Space Asym (left inattention > 0, right <0 | -0.02 |  | 3 | -0.15 |  | 0 | 0.12 |
|  | Obj Asym (left inattention > 0, right <0 | -0.02 |  | 0 | 0.00 |  | 0 | -0.06 |
| Imitation (0-12) | Overall accuracy | 10.58 | 8 |  | 12.00 | 12 |  | -0.93\*\* |
| Recall and recognition (0-4) | Overall accuracy | 3.99 | 3 |  | 3.88 | 3 |  | 0.23 |
| Episodic memory (0-4) | Overall accuracy | 3.93 | 3 |  | 4.00 | 4 |  | -0.22 |
| Executive task (-12 to 12) | Exec score accuracy (sum of accuracy in single tasks versus mixed) | -0.15 |  | 4 | -0.88 |  | 0 | 0.4\* |

*Note*. Significance is noted as ‘\*\*’ for p<.001 and ‘\*’ for p<.05

**Table S4**

Full *Final normative data and adjusted cut offs for impairment (scores on subtests lower than 5th centile or higher than 95th, separately for those over 59 yrs old) for OCS-TA*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Overall sample | | | | | Low education (n=35) | | High education (n=174) | | <40yrs  (n=90) | | 40- 59 yrs (n=76) | | >59yrs (n=43) | |
| Task name | Measure | Median | Min | Max | 5th | 95th | 5th | 95th | 5th | 95th | 5th | 95th | 5th | 95th | 5th | 95th |
| Picture naming (0-4) | Overall accuracy | 4 | 3 | 4 | 3 |  | 4 |  | 4 |  | 4 |  | 4 |  | 3 |  |
| Semantics (0-3) | Overall accuracy | 3 | 2 | 3 | 3 |  | 3 |  | 3 |  | 3 |  | 3 |  | 3 |  |
| Orientation (0-4) | Overall accuracy | 4 | 3 | 4 | 4 |  | 4 |  | 4 |  | 4 |  | 4 |  | 3 |  |
| Visual field (0-4) | Overall accuracy | 4 | 3 | 4 | 4 |  | 4 |  | 4 |  | 4 |  | 4 |  | 2 |  |
| Sentence reading (0-15) | Overall accuracy | 15 | 12 | 15 | 14 |  | 13 |  | 14 |  | 14 |  | 13 |  | 0 |  |
| Number writing (0-3) | Overall accuracy | 3 | 2 | 3 | 3 |  | 3 |  | 3 |  | 3 |  | 3 |  | 0 |  |
| Calculation (0-4) | Overall accuracy | 4 | 3 | 4 | 3 |  | 3 |  | 3 |  | 3 |  | 3 |  | 2 |  |
| Broken hearts (0-50) | Overall accuracy | 50 | 39 | 122 | 42 |  | 44 |  | 42 |  | 42 |  | 44 |  | 35 |  |
|  | Space Asym (left > 0, right <0 | 0 | -6 | 2 |  | 2 |  | 1 |  | 1 |  | 1 |  | 1 |  | 1 |
|  | Obj Asym (left > 0, right <0 | 0 | -2 | 2 |  | 1 | 0 |  | 0 | 1 |  | 1 |  | 0 |  | 1 |
| Imitation (0-12) | Overall accuracy | 12 | 10 | 12 | 12 |  | 12 |  | 12 |  | 12 |  | 12 |  | 9 |  |
| Recall and recognition (0-4) | Overall accuracy | 4 | 0 | 4 | 2 |  | 1 |  | 0 |  | 0 |  | 1 |  | 1 |  |
| Episodic memory (0-4) | Overall accuracy | 4 | 2 | 4 | 3 |  | 4 |  | 3 |  | 3 |  | 4 |  | 3 |  |
| Executive task (-12 to 12) | Exec score accuracy (sum of accuracy in single tasks versus mixed) | -1 | -1 | 2 |  | 1 |  | -1 |  | 1 |  | 1 |  | -1 |  | 3 |