|  |  |
| --- | --- |
| 15 included in Silhouettes-A | 15 excluded from Silhouettes-A |
| Item | RMCI(n=211)AD(n=139) | Item | RMCI(n=211)AD(n=139) |
| kangaroo | 0.624\*0.270.05 | deckchair | 0.354\*0.250.12 |
| rabbit | 0.559\*0.20 | glasses | 0.323\*0.170.10 |
| penguin | 0.552\*0.700.38 | crocodile | 0.307\*0.240.17 |
| bear | 0.549\*0.320.22 | rhinoceros | 0.277\*0.110.10 |
| tractor | 0.509\*0.560.41 | snail | 0.238\*0.080.02 |
| ladder | 0.495\*0.460.31 | pick axe | 0.204\*0.110.13 |
| binoculars | 0.492\*0.360.27 | watch | 0.190\*0.190.19 |
| spanner | 0.450\*0.620.54 | key | 0.162\*0.310.27 |
| bike | 0.489\*0.510.27 | dustpan | 0.161\*0.110.08 |
| pig | 0.487\*0.360.40 | cup | 0.155\*0.980.94 |
| elephant | 0.443\*0.800.63 | frog | 0.1270.030.01 |
| cow | 0.348\*0.550.50 | duck | 0.1200.030.04 |
| shoe | 0.305\*0.670.60 | cockscrew | 0.1150.050.04 |
| scissors | 0.291\*0.710.68 | sheep | 0.1020.280.37 |
| camel | 0.288\*0.950.89 | seal | 0.0930.040.03 |

Supplementary Table 1. Item-total score correlation coefficients of Silhouettes test.

Notes: Silhouettes-A: the Abbreviated version of Silhouettes test; R: Spearman correlation coefficients; \*: p<0.001.

Supplementary Table 2 Effect of age, gender, and education on Silhouettes-A in NC (multivariate linear regression)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Unstandardised coefficients | Standardised coefficients | P |
| B | Standard error | Beta | T |
| Constant | 12.920 | 1.327 | - | 9.737 | <0.001 |
| Gender | -0.764 | 0.282 | -0.176 | -2.707 | 0.007 |
| Age | -0.033 | 0.019 | -0.124 | -1.772 | 0.078 |
| Education | 0.139 | 0.055 | 0.177 | 2.531 | 0.012 |

Notes: NC: cognitively normal controls; Silhouettes-A: the Abbreviated version of Silhouettes test.

Supplemantary Table 3 Correlation analysis between Silhouettes-A and other neuropsychological tests

|  |  |  |
| --- | --- | --- |
| Test | R | P |
| BNT | 0.616 | <0.001 |
| AVLT-DR | 0.587 | <0.001 |
| ST | 0.432 | <0.001 |
| STT-B | -0.430 | <0.001 |
| CFT-C | 0.403 | <0.001 |
| DSST | 0.385 | <0.001 |
| JLO | 0.339 | <0.001 |

Notes: Silhouettes-A: the Abbreviated version of Silhouettes test. BNT: Boston Naming Test; AVLT-DR: Auditory Verbal Learning Test Delayed Recall; ST: Similarity Test; STT-B: Shape Trail test B; CFT-C: Rey Complex Figure Test Copy; DSST: Digit Symbol Substitution Test; JLO: Judgment of Line Orientation test; R: Spearman correlation coefficients.

Supplemantary Table 4 Effect of BNT, AVLT-DR, ST, STT-B, CFT-C, DSST and JLO.on Silhouettes-A

|  |  |  |  |
| --- | --- | --- | --- |
|  | Unstandardised coefficients | Standardised coefficients | P |
| B | Standard error | Beta | T |
| Constant | 0.237 | 0.886 | - | 0.267 | 0.789 |
| BNT | 0.228 | 0.024 | 0.333 | 9.410 | <0.001 |
| AVLT-DR | 0.387 | 0.041 | 0.335 | 9.453 | <0.001 |
| ST | 0.068 | 0.022 | 0.104 | 3.055 | 0.002 |
| STT-B | -0.003 | 0.001 | -0.075 | -2.097 | 0.036 |
| CFT-C | 0.049 | 0.023 | 0.075 | 2.133 | 0.033 |
| DSST | 0.001 | 0.008 | 0.003 | 0.080 | 0.936 |
| JLO | 0.035 | 0.018 | 0.062 | 1.974 | 0.049 |

Notes: Silhouettes-A: the Abbreviated version of Silhouettes test. BNT: Boston Naming Test; AVLT-DR: Auditory Verbal Learning Test Delayed Recall; ST: Similarity Test; STT-B: Shape Trail test B; CFT-C: Rey Complex Figure Test Copy; DSST: Digit Symbol Substitution Test; JLO: Judgment of Line Orientation test.

Supplementary Figure 1. Receiver Operating Characteristic Curve Analysis of Silhouettes-A and the Other Comparable Tests to Discriminate between NC, MCI and AD: (1) NC vs. MCI, (2) MCI vs. AD.

1.  (2)

Notes: NC: cognitively normal controls; MCI: mild cognitive impairment; AD: Alzheimer’s disease; Silhouettes-A: the Abbreviated version of Silhouettes test; CFT-C: Rey Complex Figure Test Copy; BNT: Boston Naming Test; STT-B: Shape Trail test B; BNT: Boston Naming Test; STT-B: Shape Trail test B; ST: Similarity Test; JLO: Judgment of Line Orientation test; MoCA-T: Total score of Montreal Cognitive Assessment.