**Supplementary Table.** Spatio-temporal gait parameters and cognitive performances (n = 41)

|  |  |
| --- | --- |
| Parameters | MS performance |
| *Motor* |  |
| Timed up and go, s | 9.27 ± 1.70 |
| Walking speed, m/s | 1.30 ± 0.18 |
| Stride length, m | 1.41 ± 0.13 |
| Stride time |  |
| Mean value, s | 1.10 ± 0.09 |
| CV (%) | 1.75 ± 1.10 |
| *Cognitive* |  |
| Memory |  |
| SRT |  |
| Number of words | 12.10 ± 1.03 |
| Learning (%) | 74.35 ± 17.52 |
| Delayed recall | 13.79 ± 1.44 |
| Executive functions |  |
| Verbal fluency |  |
| Semantic | 34.85 ± 9.55 |
| Phonemic | 24.48 ± 7.64 |
| Stroop (s) |  |
| Word | 14.90 ± 2.78 |
| Color | 22.14 ± 4.85 |
| Color/Dot | 1.75 ± 0.44 |
| TMT B (s) | 67.03 ± 20.28 |
| TAP divided attention (ms) |  |
| Visual | 809.4 ± 93.0 |
| Auditory | 619.3 ± 92.6 |
| Attention |  |
| WAIS-III digit span | 16.7 ± 3.4 |
| WAIS-III symbol digit modalities test | 72.8 ± 13.9 |
| Stroop dot (s) | 12.6 ± 2.4 |
| TMT A (s) | 29.1 ± 10.2 |
| *Behavior* |  |
| FES-I | 19.2 ± 4.2 |
| HAD |  |
| Anxiety | 6.20 ± 4.31 |
| Depression | 3.62 ± 3.37 |

TUG, Timed “Up & Go”

ms, milliseconds

CV, Coefficient of Variation

SRT, Selective Reminding Test

s, seconds

Dot, name color of dot; Word, name color print of non-color word ; Color, name color print of color word

TMT, Trail Making Test

TAP, Test of Attention Performance

WAIS-III, Wechsler Adult Intelligence Scale-III

WAIS-III digit span is the sum of forward and backward digit span

FES-I, 16-item Falls Efficacy Scale-International

HAD, Hospital Anxiety and Depression scale