

Supplementary Table 1. Principal Component Analysis (PCA) for cognitive variables

Neuropsychological domain	Neuropsychological Test	Pattern coefficients					Structure coefficients					Communalities
		C 1	C 2	C 3	C 4	C 5	C 1	C 2	C 3	C 4	C 5	
Verbal memory	TAVEC total trials 1–5	0.914	-0.003	0.042	-0.081	-0.015	0.917	0.032	0.234	-0.057	0.281	0.848
	TAVEC short-delay free recall	0.895	0.012	-0.013	0.069	0.033	0.907	-0.002	0.206	0.110	0.346	0.836
	TAVEC long-delay free recall	0.891	-0.046	-0.032	0.090	0.071	0.905	0.052	0.212	0.089	0.320	0.824
	TAVEC short-delay cued recall	0.868	0.025	-0.058	0.113	0.113	0.894	0.073	0.192	0.133	0.383	0.825
	TAVEC long-delay cued recall	0.854	-0.043	0.015	-0.051	0.035	0.865	-0.005	0.213	-0.028	0.301	0.754
	TAVEC trial 1	0.704	0.027	0.118	-0.054	-0.162	0.679	0.038	0.221	-0.034	0.097	0.492
Sustained attention	CPT-II Hit RT	-0.036	0.864	-0.113	0.072	-0.024	-0.034	0.859	-0.106	0.059	0.037	0.760
	CPT-II Response Style (β)	-0.023	0.863	-0.023	-0.023	-0.130	-0.035	0.847	-0.061	-0.031	-0.045	0.739
	CPT-II Commissions	-0.082	-0.565	-0.226	0.048	-0.287	-0.246	-0.605	-0.334	-0.016	-0.445	0.565
Processing speed	TMT-A	0.113	-0.153	0.792	0.036	0.022	0.296	-0.135	0.828	0.158	0.288	0.722
	Digit-Symbol-Coding	0.113	0.151	0.659	-0.012	0.190	0.329	0.187	0.744	0.106	0.447	0.640
Executive planning	TOL total number of moves	0.157	0.026	-0.180	0.898	0.067	0.157	0.045	0.012	0.880	0.140	0.823
	TOL total time	-0.171	-0.002	0.395	0.701	-0.081	-0.092	-0.007	0.436	0.750	0.046	0.710
Working memory	Letter-Number Sequencing	0.064	0.017	-0.060	-0.033	0.891	0.333	0.122	0.227	0.035	0.893	0.804
	Digit Span	-0.055	-0.068	0.144	0.053	0.817	0.235	0.028	0.392	0.142	0.841	0.736

The 15 neuropsychological variables were subjected to principal components analysis (PCA) using SPSS version 24. Prior to performing PCA, the suitability of data for factor analysis was assessed. The correlation matrix revealed the presence of many coefficients of 0.3 and above. The Kaiser-Meyer-Olkin value was 0.81, exceeding the recommended value of 0.6 and Bartlett's Test of Sphericity reached statistical significance, supporting the factorability of the correlation matrix ($p < 0.001$). Principal components analysis revealed the presence of four components with eigenvalues exceeding 1, explaining 35.15%, 13.14%, 11.76%, 8.24% and 5.57% of the variance respectively. The rotated solution revealed the presence of simple structure with five components showing a number of strong loadings and all variables loading substantially on only one component.

Abbreviations: C= Component; TAVEC= Verbal Learning Test Spain Complutense for adults; CPT-II= Continuous Performance Test–II; TMT= Trail Making Test; TOL= Tower Of London.