

Supplementary Material

MoCA Score (using cutoff)	Pearson Correlation	.347	.254	1	.347	.223	.100	-.265	.036	.289	-	-	.068	-	.307
	Sig. (2-tailed)	.134	.280		.134	.344	.676	.259	.879	.217	.101	.353	.776	.441	.188
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
RED OD	Pearson Correlation	-.089	-.183	.347	1	.630**	.662*	-.303	-.107	-	-	-	-	-	.186
	Sig. (2-tailed)	.708	.439	.134		.003	.001	.194	.654	.306	.033	.213	.285	.209	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GREEN OD	Pearson Correlation	-.164	-.027	.223	.630**	1	.625*	.200	-.049	-	-	-	-	-	.015
	Sig. (2-tailed)	.490	.909	.344	.003		.003	.398	.837	.069	.136	.410	.322	.006	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
BLUE OD	Pearson Correlation	-.073	-.112	.100	.662**	.625**	1	-.187	.106	-	.039	-	-	-	.173
	Sig. (2-tailed)	.759	.638	.676	.001	.003		.431	.657	.075		.228	.172	.026	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Big6craeC	Pearson Correlation	-.243	.144	-.265	-	.200	-.187	1	-.062	.203	-	-	.108	.341	-
	Sig. (2-tailed)	.302	.544	.259	.303	.398	.431		.795	.391	.066	.312		.520*	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Big6crveC	Pearson Correlation	.111	-.176	.036	-	-.049	.106	-.062	1	-	.310	.047	.022	.256	.074
	Sig. (2-tailed)	.643	.457	.879	.107	.837	.657	.795		.082	.732	.183	.844	.925	.757
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Big6avrC	Pearson Correlation	.166	.749**	.289	-	-.069	-.075	.203	-.082	1	-	-	.213	.105	-
	Sig. (2-tailed)			.306							.397	.517*			.279
	N														

	Sig. (2-tailed)	.484	.000	.217	.189	.772	.752	.391	.732		.083	.019	.367	.660	.233
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
cTORTa	Pearson Correlation	-.138	-.267	-.377	- .033	-.136	.039	-.066	.310	- .397	1	.333	- .261	.486 *	.373
	Sig. (2-tailed)	.561	.255	.101	.890	.568	.871	.782	.183	.083		.152	.266	.030	.105
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
BCa	Pearson Correlation	.268	-.378	-.219	- .213	-.410	-.228	-.312	.047	- .517 *	.333	1	- .221	.032	.410
	Sig. (2-tailed)	.254	.100	.353	.367	.073	.334	.181	.844	.019	.152		.348	.894	.073
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
AFa	Pearson Correlation	-.142	.136	.068	- .285	-.322	-.172	.108	.022	.213	- .261	- .221	1	- .047	- .425
	Sig. (2-tailed)	.549	.568	.776	.224	.166	.469	.649	.925	.367	.266	.348		.843	.062
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
cTORTv	Pearson Correlation	-.176	-.026	-.183	- .209	-.006	-.026	.341	.256	.105	.486 *	.032	- .047	1	.161
	Sig. (2-tailed)	.458	.914	.441	.377	.979	.912	.142	.276	.660	.030	.894	.843		.497
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
BCv	Pearson Correlation	.217	-.257	.307	.186	.015	.173	-.520 *	.074	- .279	.373	.410	- .425	.161	1
	Sig. (2-tailed)	.359	.274	.188	.432	.949	.466	.019	.757	.233	.105	.073	.062	.497	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
AFv	Pearson Correlation	-.204	-.401	-.052	.110	.171	.233	.027	-.016	- .412	.324	.299	- .285	.211	.556 *
	Sig. (2-tailed)	.389	.080	.829	.645	.472	.322	.911	.946	.071	.164	.200	.223	.373	.011
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Supplementary Material

cTORTt	Pearson Correlation	-.211	-.139	-.294	- .141	-.050	.031	.207	.327	- .105	.803 **	.118	- .131	.905 **	.287
	Sig. (2-tailed)	.373	.558	.208	.552	.835	.898	.381	.160	.661	.000	.620	.582	.000	.220
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
BCt	Pearson Correlation	.205	-.340	-.090	.062	-.247	-.074	-.533 [*]	.022	- .522 [*]	.463 *	.903 **	- .364	.068	.596 [*]
	Sig. (2-tailed)	.387	.143	.706	.797	.295	.758	.016	.928	.018	.040	.000	.114	.776	.006
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
AFt	Pearson Correlation	-.392	-.190	-.175	- .058	-.068	-.083	.022	-.275	- .341	- .092	.126	.589 **	- .270	- .296
	Sig. (2-tailed)	.087	.422	.461	.808	.776	.727	.927	.241	.141	.699	.595	.006	.250	.205
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
LDRt	Pearson Correlation	.070	.475 [*]	.156	- .056	-.403	-.403	-.227	-.129	.475 [*]	- .162	- .276	.154	- .078	- .263
	Sig. (2-tailed)	.771	.034	.511	.815	.078	.078	.335	.586	.034	.494	.239	.517	.742	.263
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Do	Pearson Correlation	.384	.644 ^{**}	.429	- .143	-.321	-.130	-.188	.028	.725 [*]	- .086	- .210	.328	- .004	- .009
	Sig. (2-tailed)	.095	.002	.059	.548	.167	.584	.427	.908	.000	.719	.373	.158	.987	.969
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
D1	Pearson Correlation	.353	.670 ^{**}	.425	- .146	-.309	-.134	-.160	.011	.751 [*]	- .094	- .248	.307	- .002	- .012
	Sig. (2-tailed)	.126	.001	.062	.539	.185	.572	.501	.964	.000	.694	.291	.188	.993	.958
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
D2	Pearson Correlation	.322	.690 ^{**}	.423	- .148	-.289	-.132	-.133	-.008	.772 [*]	- .102	- .285	.292	- .001	- .020
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Sig. (2-tailed)	.166	.001	.063	.534	.216	.579	.575	.974	.000	.669	.223	.212	.997	.932
N	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Correlations

		AFv	cTORTt	BCt	AFt	LDRt	Do	D1	D2
Flicker Amp	Pearson Correlation	-.204	-.211	.205	-.392	.070	.384	.353	.322
	Sig. (2-tailed)	.389	.373	.387	.087	.771	.095	.126	.166
	N	20	20	20	20	20	20	20	20
Flicker ImplT	Pearson Correlation	-.401	-.139	-.340	-.190	.475*	.644**	.670**	.690**
	Sig. (2-tailed)	.080	.558	.143	.422	.034	.002	.001	.001
	N	20	20	20	20	20	20	20	20
MoCA Score (using cutoff)	Pearson Correlation	-.052	-.294	-.090	-.175	.156	.429	.425	.423
	Sig. (2-tailed)	.829	.208	.706	.461	.511	.059	.062	.063
	N	20	20	20	20	20	20	20	20
RED OD	Pearson Correlation	.110	-.141	.062	-.058	-.056	-.143	-.146	-.148
	Sig. (2-tailed)	.645	.552	.797	.808	.815	.548	.539	.534
	N	20	20	20	20	20	20	20	20
GREEN OD	Pearson Correlation	.171	-.050	-.247	-.068	-.403	-.321	-.309	-.289
	Sig. (2-tailed)	.472	.835	.295	.776	.078	.167	.185	.216
	N	20	20	20	20	20	20	20	20
BLUE OD	Pearson Correlation	.233	.031	-.074	-.083	-.403	-.130	-.134	-.132
	Sig. (2-tailed)	.322	.898	.758	.727	.078	.584	.572	.579
	N	20	20	20	20	20	20	20	20
Big6craeC	Pearson Correlation	.027	.207	-.533*	.022	-.227	-.188	-.160	-.133
	Sig. (2-tailed)	.911	.381	.016	.927	.335	.427	.501	.575
	N	20	20	20	20	20	20	20	20
Big6crveC	Pearson Correlation	-.016	.327	.022	-.275	-.129	.028	.011	-.008
	Sig. (2-tailed)	.946	.160	.928	.241	.586	.908	.964	.974
	N	20	20	20	20	20	20	20	20

Big6avrC	Pearson Correlation	-.412	-.105	-.522*	-.341	.475*	.725**	.751**	.772**
	Sig. (2-tailed)	.071	.661	.018	.141	.034	.000	.000	.000
	N	20	20	20	20	20	20	20	20
cTORTa	Pearson Correlation	.324	.803**	.463*	-.092	-.162	-.086	-.094	-.102
	Sig. (2-tailed)	.164	.000	.040	.699	.494	.719	.694	.669
	N	20	20	20	20	20	20	20	20
BCa	Pearson Correlation	.299	.118	.903**	.126	-.276	-.210	-.248	-.285
	Sig. (2-tailed)	.200	.620	.000	.595	.239	.373	.291	.223
	N	20	20	20	20	20	20	20	20
AFa	Pearson Correlation	-.285	-.131	-.364	.589**	.154	.328	.307	.292
	Sig. (2-tailed)	.223	.582	.114	.006	.517	.158	.188	.212
	N	20	20	20	20	20	20	20	20
cTORTv	Pearson Correlation	.211	.905**	.068	-.270	-.078	-.004	-.002	-.001
	Sig. (2-tailed)	.373	.000	.776	.250	.742	.987	.993	.997
	N	20	20	20	20	20	20	20	20
BCv	Pearson Correlation	.556*	.287	.596**	-.296	-.263	-.009	-.012	-.020
	Sig. (2-tailed)	.011	.220	.006	.205	.263	.969	.958	.932
	N	20	20	20	20	20	20	20	20
AFv	Pearson Correlation	1	.316	.257	.216	-.677**	-.295	-.306	-.307
	Sig. (2-tailed)		.174	.275	.361	.001	.207	.190	.187
	N	20	20	20	20	20	20	20	20
cTORTt	Pearson Correlation	.316	1	.211	-.212	-.135	-.037	-.039	-.041
	Sig. (2-tailed)	.174		.372	.369	.571	.876	.870	.865
	N	20	20	20	20	20	20	20	20
BCt	Pearson Correlation	.257	.211	1	-.004	-.146	-.145	-.177	-.210
	Sig. (2-tailed)	.275	.372		.986	.540	.541	.455	.374
	N	20	20	20	20	20	20	20	20
AFt	Pearson Correlation	.216	-.212	-.004	1	-.269	-.193	-.221	-.229
	Sig. (2-tailed)	.361	.369	.986		.251	.414	.349	.331

	N	20	20	20	20	20	20	20	20
LDRt	Pearson Correlation	-.677**	-.135	-.146	-.269	1	.543*	.548*	.545*
	Sig. (2-tailed)	.001	.571	.540	.251		.013	.012	.013
	N	20	20	20	20	20	20	20	20
Do	Pearson Correlation	-.295	-.037	-.145	-.193	.543*	1	.996**	.985**
	Sig. (2-tailed)	.207	.876	.541	.414	.013		.000	.000
	N	20	20	20	20	20	20	20	20
D1	Pearson Correlation	-.306	-.039	-.177	-.221	.548*	.996**	1	.996**
	Sig. (2-tailed)	.190	.870	.455	.349	.012	.000		.000
	N	20	20	20	20	20	20	20	20
D2	Pearson Correlation	-.307	-.041	-.210	-.229	.545*	.985**	.996**	1
	Sig. (2-tailed)	.187	.865	.374	.331	.013	.000	.000	
	N	20	20	20	20	20	20	20	20

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 2. Pearson product moment correlations between significant variables

		Flicker ImplT	Big6avrC	LDRt	Do	D1
Flicker ImplT	Pearson Correlation	1	.749**	.475*	.644**	.670**
	Sig. (2-tailed)		.000	.034	.002	.001
	N	20	20	20	20	20
Big6avrC	Pearson Correlation	.749**	1	.475*	.725**	.751**
	Sig. (2-tailed)	.000		.034	.000	.000
	N	20	20	20	20	20
LDRt	Pearson Correlation	.475*	.475*	1	.543*	.548*
	Sig. (2-tailed)	.034	.034		.013	.012
	N	20	20	20	20	20
Do	Pearson Correlation	.644**	.725**	.543*	1	.996**
	Sig. (2-tailed)	.002	.000	.013		.000
	N	20	20	20	20	20
D1	Pearson Correlation	.670**	.751**	.548*	.996**	1
	Sig. (2-tailed)	.001	.000	.012	.000	

	N	20	20	20	20	20
D2	Pearson Correlation	.690**	.772**	.545*	.985**	.996**
	Sig. (2-tailed)	.001	.000	.013	.000	.000
	N	20	20	20	20	20

Correlations

		D2
Flicker ImplT	Pearson Correlation	.690**
	Sig. (2-tailed)	.001
	N	20
Big6avrC	Pearson Correlation	.772**
	Sig. (2-tailed)	.000
	N	20
LDRt	Pearson Correlation	.545*
	Sig. (2-tailed)	.013
	N	20
Do	Pearson Correlation	.985**
	Sig. (2-tailed)	.000
	N	20
D1	Pearson Correlation	.996**
	Sig. (2-tailed)	.000
	N	20
D2	Pearson Correlation	1
	Sig. (2-tailed)	
	N	20

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 3. Partial correlation between Flicker ImplT vs Big6avrc while controlling for LDRt, D₀, D₁, and D₂.

Control Variables		Flicker ImplT	Big6avrC
LDRt & Do & D1 & D2	Flicker ImplT	Correlation	1.000
		Significance (2-tailed)	.
		df	0
	Big6avrC	Correlation	.394
		Significance (2-tailed)	.131
		df	14

Table 4. Partial correlation between Flicker ImplT vs LDRt while controlling for Big6avrc, D₀, D₁, and D₂.

Control Variables			Flicker ImplT	LDRt
Do & D1 & D2 & Big6avrC	Flicker ImplT	Correlation	1.000	.152
		Significance (2-tailed)	.	.574
		df	0	14
	LDRt	Correlation	.152	1.000
		Significance (2-tailed)	.574	.
		df	14	0

Table 5. Partial correlation between Flicker ImplT vs D₀ while controlling for Big6avrc, LDRt, D₁, and D₂.

Control Variables			Flicker ImplT	Do
D1 & D2 & Big6avrC & LDRt	Flicker ImplT	Correlation	1.000	.005
		Significance (2-tailed)	.	.985
		df	0	14
	Do	Correlation	.005	1.000
		Significance (2-tailed)	.985	.
		df	14	0

Table 6. Partial correlation between Flicker ImplT vs D₁ while controlling for Big6avrc, LDRt, D₀, and D₂.

Control Variables			Flicker ImplT	D1
D2 & Big6avrC & LDRt & Do	Flicker ImplT	Correlation	1.000	-.045
		Significance (2-tailed)	.	.867
		df	0	14
	D1	Correlation	-.045	1.000
		Significance (2-tailed)	.867	.
		df	14	0

Table 7. Partial correlation between Flicker ImpIT vs D₂ while controlling for Big6avrC, LDRt, D₁, and D₂.

Control Variables		Flicker ImpIT	D2
Big6avrC & LDRt & Do & D1	Flicker ImpIT	Correlation	1.000
		Significance (2-tailed)	.
		df	0
	D2	Correlation	.091
		Significance (2-tailed)	.736
		df	14

