

Supplementary material 1 – Behavioral analyses

Table S1. Behavioral performance.

Difficulty Level	Timeframe	Error Score Patients (%)			Error Score Controls (%)			p-value
		Mean	SD	N	Mean	SD	N	
Moderate	Overall	4.43	3.73	12	4.80	2.41	11	0.784
	Repetition 1	3.40	4.01	12	3.70	3.31	11	-
	Repetition 4	4.94	4.56	12	7.07	3.08	11	-
	Early half	3.77	3.27	12	3.90	2.63	11	-
	Late half	5.29	5.13	12	5.77	3.44	11	-
Higher	Overall	7.20	6.04	12	5.39	2.02	11	0.347
	Repetition 1	8.33	8.07	12	6.76	3.21	11	-
	Repetition 4	6.17	5.55	12	4.71	3.35	11	-
	Early half	5.95	5.51	12	3.25	2.23	11	-
	Late half	8.33	6.37	12	7.69	3.22	11	-

Difficulty Level	Timeframe	Reaction Time Patients (Ms)			Reaction Time Controls (ms)			p-value
		Mean	SD	N	Mean	SD	N	
Moderate	Overall	360.55	78.18	12	313.19	30.78	11	0.074
	Repetition 1	362.36	101.97	12	311.79	27.51	11	-
	Repetition 4	363.96	78.70	12	317.29	44.07	11	-
	Early half	356.89	76.11	12	315.02	25.89	11	-
	Late half	364.87	81.56	12	311.00	38.68	11	-
Higher	Overall	362.53	75.79	12	311.06	33.59	11	0.049
	Repetition 1	360.78	93.35	12	300.50	32.01	11	-
	Repetition 4	361.06	81.24	12	315.21	55.39	11	-
	Early half	368.99	87.33	12	312.80	33.02	11	-
	Late half	354.74	78.99	12	308.55	36.26	11	-

Supplementary S2. Behavioral change from moderate to higher difficulty level.

Group	Outcome Measure	Moderate Difficulty		Higher Difficulty		p-value
		Mean	SD	Mean	SD	
Patients	Error score (%)	4.43	3.73	7.20	6.04	0.011
	Reaction time (ms)	360.55	78.18	362.53	75.79	0.834
Controls	Error score (%)	4.80	2.41	5.39	2.02	0.365
	Reaction time (ms)	313.19	30.78	311.06	33.59	0.361

Supplementary S3. Overall behavioral analyses.

Outcome Measure	Source	Sum Of Squares	Df ₁	Df ₂	Mean Square	F	p-value	η_p^2
Error score	Difficulty level	32.42	1	21	32.42	9.04	0.007	0.30
	Group	5.89	1	21	5.89	0.21	0.648	0.01
	Difficulty level x Group	13.50	1	21	13.50	3.77	0.066	0.15
Reaction time	Difficulty level	0.06	1	21	0.06	0.00	0.988	0.00
	Group	28033.39	1	21	28033.39	4.05	0.057	0.16
	Difficulty level x Group	48.37	1	21	48.37	0.17	0.682	0.01

Supplementary S4. Behavioral time-on-task over repetitions analyses.

Difficulty Level	Outcome Measure	Source	Sum Of Squares	Df ₁	Df ₂	Mean Square	F	p-value	η_p^2
Moderate	Error score	Repetition number	69.18	1	21	69.18	11.88	0.002	0.36
		Group	17.10	1	21	17.10	0.74	0.401	0.03
	Reaction time	Repetition number x Group	9.54	1	21	9.54	1.64	0.214	0.07
		Repetition number	144.54	1	21	144.54	0.13	0.724	0.01
		Group	27126.41	1	21	27126.41	3.07	0.095	0.13
		Repetition number x Group	43.59	1	21	43.59	0.04	0.846	0.00
Higher	Error score	Repetition number	50.80	1	21	50.80	3.27	0.085	0.14
		Group	26.37	1	21	26.37	0.59	0.452	0.03
		Repetition number x Group	0.04	1	21	0.04	0.00	0.962	0.00

Reaction time	Repetition number	644.62	1	21	644.62	0.36	0.556	0.02
	Group	32320.55	1	21	32320.55	3.96	0.060	0.16
	Repetition number x Group	597.08	1	21	597.08	0.33	0.571	0.02

Supplementary S5. Behavioral time-on-task within blocks analyses.

Difficulty Level	Outcome Measure	Source	Sum Of Squares	df ₁	df ₂	Mean square	F	p-value	η^2
Moderate	Error score	Block half	33.03	1	21	33.03	4.98	0.037	0.19
		Group	1.07	1	21	1.07	0.05	0.826	0.00
		Block half x Group	0.36	1	21	0.36	0.05	0.818	0.00
	Reaction time	Block half	45.28	1	21	45.28	0.13	0.723	0.01
		Group	26301.90	1	21	26301.90	3.65	0.070	0.15
		Block half x Group	413.18	1	21	413.18	1.18	0.290	0.05
Higher	Error score	Block half	133.79	1	21	133.79	25.37	<0.001	0.55
		Group	32.12	1	21	32.12	0.82	0.375	0.04
		Block half x Group	12.23	1	21	12.23	2.32	0.143	0.10
	Reaction time	Block half	982.51	1	21	982.51	0.74	0.400	0.03
		Group	30076.31	1	21	30076.31	4.25	0.052	0.17
		Block half x Group	287.70	1	21	287.70	0.22	0.647	0.01