

**Table S1** Associations between neuropsychiatric manifestations and cognitive performance: confirmatory analysis.

NPS		Episodic memory		Language		Semantic Memory		Attention		Processing speed		Executive function	
		B	p	B	p	B	p	B	p	B	p	B	p
Depression	0-1	.291	.690	.528	.493	-.302	.307	.094	.628	1.761	.224	1.872	.675
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Anxiety	0-1	1.227	.090	-.739	.334	<b>.883<sup>(1)</sup></b>	<b>.003</b>	<b>.377<sup>(2)</sup></b>	<b>.049</b>	-1.726	.230	<b>-10.424<sup>(3)</sup></b>	<b>.019</b>
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Agitation	0-1	.652	.451	.024	.979	-.280	.425	.021	.926	-1.209	.481	-2.081	.694
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Apathy	0-1	.872	.459	1.563	.209	-.021	.966	.161	.606	-.915	.695	-2.636	.714
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Disinhibition	0-1	.358	.772	-.191	.884	.046	.928	.030	.927	1.017	.678	-9.671	.200
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Irritability	0-1	.762	.268	-.167	.818	-.057	.837	-.176	.333	-2.408	.077	-2.558	.543
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Night-time	0-1	.472	.411	.716	.237	.143	.540	.071	.642	.849	.456	4.179	.233
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Appetite	0-1	.268	.744	1.412	.103	.589	.077	.144	.508	-2.530	.120	-8.696	.083
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	

Elation	No	1.148	.296	.917	.429	.197	.659	<b>.740<sup>(4)</sup></b>	<b>.011</b>	-2.421	.267	-4.819	.473
	Yes	Ref		Ref		Ref		Ref		Ref		Ref	
Motor	No	1.662	.073	<b>2.420<sup>(5)</sup></b>	<b>.013</b>	-.222	.554	.094	.702	1.719	.350	-.870	.878
	Yes	Ref		Ref		Ref		Ref		Ref		Ref	
Delusions	No	1.025	.400	.966	.453	.457	.355	.431	.181	-2.265	.349	-3.933	.597
	Yes	Ref		Ref		Ref		Ref		Ref		Ref	
Hallucinations	No	3.825	.082	.084	.971	.404	.651	.097	.868	<b>-10.702<sup>(6)</sup></b>	<b>.014</b>	<b>-45.112<sup>(7)</sup></b>	<b>.001</b>
	Yes	Ref		Ref		Ref		Ref		Ref		Ref	

Ref: reference group; the numbering of the neuropsychiatric symptoms corresponds to: 0-1= absent-mild; and 2-3 moderate-severe symptomatology; 95%CIs <sup>(1)</sup> (.307, 1.458); <sup>(2)</sup> (.001, .753); <sup>(3)</sup> (-19.101, -1.747); <sup>(4)</sup> (.169, 1.310); <sup>(5)</sup> (.502, 4.338); <sup>(6)</sup> (-19.255, -2.148); <sup>(7)</sup> (-71.473, -18.750)

**Table S2** Associations between neuropsychiatric manifestations and cognitive performance: exploratory analysis.

NPS		Episodic memory		Language		Semantic Memory		Attention		Processing speed		Executive function	
		B	p	B	p	B	p	B	p	B	p	B	p
Depression	0-1	.218	.765	.423	.582	-.326	.269	.116	.549	2.148	.137	3.324	.456
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Anxiety	0-1	1.269	.080	-.583	.446	<b>.914<sup>(1)</sup></b>	<b>.002</b>	<b>.385<sup>(2)</sup></b>	<b>.045</b>	-1.876	.192	<b>-11.172<sup>(3)</sup></b>	<b>.012</b>
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Agitation	0-1	.771	.370	.231	.799	-.210	.547	.046	.842	-1.180	.489	-3.128	.552
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Apathy	0-1	.760	.520	1.519	.223	-.013	.978	.162	.604	-1.040	.657	-3.456	.632
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Disinhibition	0-1	.383	.758	-.170	.897	.170	.735	.041	.900	1.513	.538	-9.586	.207
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Irritability	0-1	.689	.319	-.204	.780	-.085	.762	-.170	.352	-2.386	.081	-2.373	.574
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Night-time	0-1	.503	.382	.850	.161	.163	.483	.067	.659	.640	.574	3.406	.332
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Appetite	0-1	.209	.799	1.366	.116	.620	.063	.147	.500	-1.788	.273	-7.775	.123
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	

Elation	0-1	1.990	.336	2.514	.250	-.735	.381	<b>1.228<sup>(4)</sup></b>	<b>.025</b>	<b>-12.604<sup>(5)</sup></b>	<b>.002</b>	-6.308	.618
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Motor	0-1	2.946	.129	.832	.685	-.093	.906	.291	.571	1.830	.634	-5.517	.642
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Delusions	0-1	4.098	.100	3.859	.142	1.428	.157	.236	.720	<b>-14.262<sup>(6)</sup></b>	<b>.004</b>	<b>-33.401<sup>(7)</sup></b>	<b>.028</b>
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	
Hallucinations	0-1	5.923	.265	-3.027	.589	-.630	.770	.808	.566	16.674	.113	16.745	.606
	2-3	Ref		Ref		Ref		Ref		Ref		Ref	

Ref: reference group; the numbering of the neuropsychiatric symptoms corresponds to: 0-1 absent-mild; and 2-3= moderate-severe symptomatology; 95%CIs <sup>(1)</sup>(.338, 1.490); <sup>(2)</sup>(.008, .761); <sup>(3)</sup>(-19.862, -2.481); <sup>(4)</sup>(.154, 2.302); <sup>(5)</sup>(-20.642, 4.566); <sup>(6)</sup>(-23.925, -4.598); <sup>(7)</sup>(-63.216, -3.585)