

Supplementary Table S1. Demographic and clinical characteristics of all participants.

GAF = Global Assessment of Functioning; PANSS = Positive and Negative Syndrome Scale.

^a One-way analysis of variance *F* test. ^b Chi-squared test. ^c Student's *t* test.

* After Holm-Bonferroni *p*-value correction for multiple comparisons.

Supplementary Table S2. Relationship between DTI measures of the corpus callosum (CC) and cognitive functions in all participants (Pearson's r correlation coefficient).

Variable	Fractional anisotropy (FA)										Mean diffusivity (MD)									
	Region 1		Region 2		Region 3		Region 4		Region 5		Region 1		Region 2		Region 3		Region 4		Region 5	
	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>
Patients with first-episode schizophrenia (FES)																				
(n = 18)																				
WMS-SSSF: visuospatial short-term memory	0.06	0.816	0.14	0.591	0.41	0.087	0.01	0.954	-0.03	0.915	-0.14	0.592	0.08	0.752	-0.21	0.393	-0.08	0.765	-0.03	0.905
WMS-SSSB: visuospatial working memory	0.15	0.547	0.18	0.465	0.20	0.433	-0.01	0.975	0.05	0.838	0.23	0.363	0.36	0.140	0.17	0.504	0.42	0.084	0.37	0.133
LNST: verbal working memory	-0.10	0.689	-0.17	0.511	-0.13	0.605	0.11	0.662	-0.29	0.240	-0.22	0.376	-0.13	0.602	0.24	0.348	0.03	0.916	0.15	0.553
NABMS: planning independent on speed of processing	0.08	0.738	0.19	0.455	-0.06	0.825	0.06	0.823	-0.03	0.906	-0.15	0.544	-0.15	0.549	-0.14	0.568	-0.45	0.061	-0.24	0.344
NABMSP: planning dependent on speed of processing	0.27	0.273	0.40	0.103	0.20	0.423	0.10	0.707	0.04	0.874	-0.28	0.265	-0.35	0.155	-0.38	0.115	-0.53	0.023	-0.27	0.274
BACSSCS: speed of visual processing	-0.31	0.217	-0.29	0.245	-0.23	0.359	-0.30	0.224	-0.58	0.012	-0.13	0.611	0.09	0.711	0.15	0.550	0.05	0.852	0.19	0.441
Patients with chronic schizophrenia (CS)																				

	(n = 55)																			
WMS-SSSF: visuospatial short-term memory	0.17	0.205	0.15	0.260	0.14	0.309	0.19	0.171	0.22	0.111	-0.19	0.173	-0.11	0.417	-0.16	0.241	-0.12	0.391	-0.10	0.477
WMS-SSSB: visuospatial working memory	0.05	0.704	0.11	0.426	0.06	0.688	0.07	0.624	0.13	0.355	-0.09	0.521	-0.03	0.806	-0.04	0.749	0.02	0.912	-0.11	0.411
LNST: verbal working memory	0.08	0.542	0.1	0.456	0.23	0.095	0.03	0.820	0.10	0.456	-0.21	0.131	-0.20	0.141	-0.34*	0.010	-0.14	0.294	-0.12	0.371
NABMS: planning independent on speed of processing	0.08	0.577	0.11	0.414	0.19	0.173	0.09	0.508	0.07	0.62	-0.14	0.318	-0.11	0.415	-0.17	0.221	-0.10	0.456	-0.04	0.744
NABMSP: planning dependent on speed of processing	0.07	0.607	0.09	0.504	0.15	0.271	0.04	0.749	0.05	0.712	-0.12	0.369	-0.07	0.591	-0.16	0.244	-0.19	0.160	-0.09	0.507
BACSSCS: speed of visual processing	-0.01	0.926	-0.06	0.650	0.11	0.441	0.00	0.987	0.20	0.145	-0.19	0.162	-0.07	0.607	-0.19	0.170	-0.17	0.208	-0.17	0.213
	Healthy controls (HC) (n = 30)																			
WMS-SSSF: visuospatial short-term memory	0.28	0.137	0.34	0.064	0.06	0.770	0.15	0.441	0.20	0.300	0.17	0.365	-0.05	0.808	0.07	0.721	0.08	0.679	0.14	0.471
WMS-SSSB: visuospatial working memory	0.12	0.518	0.03	0.875	0.07	0.723	0.16	0.400	0.43	0.019	0.09	0.626	0.11	0.562	0.04	0.854	-0.04	0.848	-0.14	0.475
LNST: verbal working memory	0.14	0.468	0.32	0.084	0.05	0.808	0.11	0.550	-0.09	0.632	-0.02	0.929	-0.16	0.393	-0.03	0.887	0.09	0.638	0.08	0.678
NABMS: planning independent on speed of processing	0.00	0.994	0.11	0.560	0.09	0.647	0.24	0.194	0.13	0.495	0.10	0.602	-0.03	0.862	-0.20	0.286	-0.09	0.643	0.25	0.176
NABMSP: planning dependent on speed of processing	0.33	0.074	0.53*	0.003	-0.01	0.954	0.23	0.222	-0.08	0.663	0.02	0.920	-0.32	0.081	-0.20	0.297	0.00	0.996	0.31	0.092
BACSSCS: speed of visual processing	0.05	0.773	-0.06	0.736	0.09	0.629	-0.16	0.410	0.24	0.200	0.28	0.132	0.20	0.283	0.13	0.481	0.17	0.372	-0.09	0.646

* $p < 0.05$ (after Holm-Bonferroni p -value correction for multiple correlations).