

Supplementary materials

Table S1: Baseline demographic and clinical characteristics of the FEP patients, 1-year follow-up vs follow-up loss

Characteristics	1-year follow-up		Follow-up loss		Statistics*
	(N=22)		(N=18)		
	Mean	SD	Mean	SD	p
Age (years)	22.0	5.4	23.9	5.9	0.310
Sex (Male/Female)	9/13		1.3		0.356
Handedness (Right/Left)	20/2		15/3		0.642
IQ	95.0	13.1	103.5	12.8	0.050
DUP (months)	3.8	3.8	5.3	4.4	0.236
Prior antipsychotic exposure (months)	1.9	2.7	1.4	1.7	0.518
Olanzapine equivalent dose (mg/day)	6.9	8.2	7.0	4.4	0.990
Amotivation score	9.5	2.6	8.6	2.7	0.326
Diminished expression score	9.6	3.5	9.2	4.1	0.726
Psychoticism score	9.3	3.0	9.1	3.5	0.765
PANSS					
Total	68.4	12.5	69.8	16.5	0.767
Positive symptoms	16.2	4.5	16.8	5.4	0.727
Negative symptoms	17.7	4.9	17.1	6.6	0.736
General symptoms	34.5	6.1	35.9	9.3	0.561
GAF	46.3	9.3	46.2	11.1	0.988

Abbreviations: FEP, first episode psychosis; HC, healthy control; IQ, intelligent quotient; DUP, duration of untreated psychosis; PANSS, Positive and Negative Syndrome Scale; HAMD, Hamilton Depression Rating Scale; HAMA, Hamilton Anxiety Rating Scale; GAF, Global Assessment of Functioning.

*Independent t test for continuous data, chi-square analysis for categorical data.

Table S2: Multiple regression models for positive and general symptoms during 1-year follow-up.

Outcome variables	Significant predictors	R ²	Beta	<i>p</i>	95% CI	
					Lower	Upper
PANSS positive	FC between the Right DRP–ACC	0.775	−14.403	0.020	−26.260	−2.546
	Baseline PANSS positive score		0.608	0.001	0.300	0.917
	IQ		−0.134	0.016	−0.239	−0.028
PANSS general	Baseline PANSS general score	0.868	1.400	<0.001	1.114	1.686
	Education		−0.868	0.047	−1.722	−0.014

Abbreviations: PANSS, Positive and Negative Syndrome Scale; CI, confidence interval; FC, functional connectivity; DRP, dorsal rostral putamen; ACC, anterior cingulate cortex; IQ, intelligence quotient.

Table S3: Patients' individual antipsychotics protocol and dosages at baseline MRI

Patient Number	Antipsychotics
1	Risperidone 1.5 mg
2	Olanzapine 5 mg, Risperidone 2 mg
3	Risperidone 5 mg
4	Aripiprazole 30 mg
5	Olanzapine 20 mg
6	Olanzapine 10 mg
7	Risperidone 1 mg
8	<i>No medication</i>
9	Paliperidone 6 mg
10	Haloperidol 11 mg, Ziprasidone 100 mg
11	Risperidone 2 mg, Quetiapine 200 mg
12	<i>No medication</i>
13	Risperidone 4 mg
14	Quetiapine 400 mg, Olanzapine 10 mg
15	Risperidone 1 mg
16	Risperidone 6 mg
17	Aripiprazole 5 mg
18	Aripiprazole 27.5 mg
19	Olanzapine 20 mg
20	<i>No medication</i>
21	<i>No medication</i>
22	Risperidone 1.5 mg, Quetiapine 50 mg
23	Paliperidone 3 mg
24	Olanzapine 30 mg
25	Risperidone 3 mg
26	Olanzapine 7.5 mg
27	Paliperidone 3 mg
28	Risperidone 1 mg
29	Paliperidone 3 mg
30	Paliperidone 6 mg
31	Olanzapine 10 mg, Risperidone 3 mg
32	Olanzapine 20 mg, Quetiapine 25 mg
33	<i>No medication</i>
34	<i>No medication</i>
35	Aripiprazole 5 mg, Risperidone 0.75 mg

36	<i>No medication</i>
37	Risperidone 2 mg
38	<i>No medication</i>
39	<i>No medication</i>
40	Paliperidone 3 mg
