Supplementary 1. Comparison of FEP patients included and not included in clusters of Cognitive Reserve.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Not in cluster** | | **In clusters** | | **Total** | |  |  |  |
|  | **N=170** | | **N=424** | | **N=594** | |  |  |  |
|  | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Statistic** | **Value** | **p** |
| Age at inclusion | 30.3 | 9.2 | 30.4 | 10.0 | 30.4 | 9.8 | t | -0.180 | 0.857 |
| Age at psychosis onset | 28.9 | 8.7 | 29.5 | 9.8 | 29.3 | 9.5 | t | -0.624 | 0.533 |
| DUI, months | 25.7 | 45.1 | 20.3 | 33.8 | 21.9 | 37.4 | W | 35907.0 | 0.067 |
| DUP, months | 16.3 | 38.2 | 12.0 | 26.0 | 13.2 | 30.0 | W | 38235.0 | 0.067 |
| Education, years | 9.4 | 3.1 | 10.4 | 3.3 | 10.1 | 3.3 | t | -3.256 | 0.001 |
| Premorbid adjusment | 4.2 | 2.5 | 3.1 | 2.2 | 3.3 | 2.3 | t | 4.003 | <0.001 |
| Clinical variables |  |  |  |  |  |  |  |  |  |
| CGI | 6.3 | 0.7 | 6.3 | 0.8 | 6.3 | 0.8 | W | 36750.0 | 0.644 |
| BPRS Total | 65.1 | 14.4 | 63.5 | 14.4 | 64.0 | 14.4 | t | 1.204 | 0.229 |
| SAPS Total | 13.9 | 4.3 | 13.8 | 4.6 | 13.9 | 4.5 | t | 0.246 | 0.805 |
| SANS Total | 6.8 | 6.5 | 6.5 | 6.2 | 6.6 | 6.3 | W | 35998.0 | 0.768 |
| Positive Dimension | 7.7 | 2.5 | 7.3 | 2.4 | 7.4 | 2.5 | t | 1.848 | 0.065 |
| Disorganized Dimension | 6.2 | 3.4 | 6.5 | 3.6 | 6.4 | 3.5 | t | -0.968 | 0.334 |
| Negative Dimension | 5.2 | 6.0 | 4.6 | 5.5 | 4.8 | 5.7 | W | 37714.5 | 0.340 |
| CDSS | 2.3 | 3.2 | 2.1 | 3.2 | 2.2 | 3.2 | W | 36947.5 | 0.438 |
| YMRS | 13.6 | 6.7 | 12.9 | 6.0 | 13.1 | 6.2 | t | 1.254 | 0.210 |
| DAS global | 1.5 | 1.6 | 1.4 | 1.5 | 1.4 | 1.5 | t | 0.612 | 0.541 |
| GAF | 57.3 | 34.4 | 52.4 | 31.4 | 53.5 | 32.2 | t | 1.210 | 0.229 |
|  |  |  |  |  |  |  |  |  |  |
| Sex (Male) | 99 | 58.2 | 235 | 55.4 | 334 | 56.2 | X2 | 0.390 | 0.533 |
| Ethnicity (White) | 151 | 88.8 | 407 | 96.0 | 558 | 93.9 | X2 | 10.948 | 0.001 |
| Diagnosis (Schizophrenia) | 95 | 55.9 | 203 | 47.9 | 298 | 50.2 | X2 | 3.110 | 0.078 |
| Family psychiatric history | 45 | 26.6 | 93 | 22.0 | 138 | 23.3 | X2 | 1.455 | 0.228 |
| Hospitalization at inclusion | 119 | 70.0 | 291 | 68.6 | 410 | 69.0 | X2 | 0.106 | 0.745 |
| Student | 23 | 14.0 | 102 | 24.1 | 125 | 21.3 | X2 | 7.178 | 0.007 |
| SES of parents (Low) | 98 | 62.4 | 216 | 51.2 | 314 | 54.2 | X2 | 5.820 | 0.016 |
| Urban area | 126 | 74.1 | 301 | 71.2 | 427 | 72.0 | X2 | 0.527 | 0.468 |
| Living with parents | 76 | 46.9 | 227 | 53.7 | 303 | 51.8 | X2 | 2.138 | 0.144 |
| Single | 117 | 71.3 | 310 | 73.3 | 427 | 72.7 | X2 | 0.225 | 0.635 |
| Unemployed | 83 | 51.2 | 167 | 39.5 | 250 | 42.7 | X2 | 6.614 | 0.010 |
| Alcohol | 80 | 47.1 | 208 | 49.9 | 288 | 49.1 | X2 | 0.385 | 0.535 |
| Tobacco | 96 | 56.8 | 230 | 55.3 | 326 | 55.7 | X2 | 0.112 | 0.738 |
| Cannabis | 77 | 45.3 | 173 | 40.8 | 250 | 42.1 | X2 | 1.005 | 0.316 |
| Cocaine | 35 | 20.6 | 73 | 17.3 | 108 | 18.2 | X2 | 0.879 | 0.348 |

DUI=Duration of Untreated Illness, DUP=Duration of Untreated Psychosis, CGI=Clinical Global Impression, BPRS=Brief Psychiatric Rating Scale, SAPS=Scale for the Assessment of Positive Symptoms, SANS=Scale for the Assessment of Negative Symptoms, CDSS=Calgary Depression Scale for Schizophrenia, YMRS=Young Mania Rating Scale, DAS=Disability Assessment Scale, GAF=Global Assessment of Functioning, GCF=Global Cognitive Functioning, SES=Socioeconomic Status.

Supplementary 2. Repeated measures ANOVA.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **C1** | | **C2** | | **C3** | | **C4** | | **C5** | | **Group** | | **Time** | | **Group x Time** | |  |
|  | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **F** | **p** | **F** | **p** | **F** | **p** | **PH** |
| CGI | N=26 | | N=47 | | N=23 | | N=39 | | N=32 | | 8.077 | <0.001 | 451.206 | <0.001 | 2.837 | 0.005 | 1b>5b 1c>4c 1c>5c \*\*\*; 1b>4b; 1c>2c \* |
| Baseline | 6.4 | 0.9 | 6.4 | 0.6 | 6.0 | 0.8 | 6.4 | 0.8 | 6.2 | 0.8 |  |  |  |  |  |  |  |
| 3Y | 4.0 | 1.6 | 2.8 | 1.8 | 2.9 | 1.5 | 2.5 | 1.5 | 2.3 | 1.6 |  |  |  |  |  |  |  |
| 10Y | 3.8 | 1.9 | 2.6 | 1.8 | 2.5 | 1.2 | 1.9 | 1.1 | 2.0 | 1.1 |  |  |  |  |  |  |  |
| BPRS Total | N=26 | | N=47 | | N=23 | | N=39 | | N=32 | | 8.336 | <0.001 | 430.044 | <0.001 | 8.336 | <0.001 | 1c>4c \*\*\*; 1c>5c \*\*; 1b>5b 1c>3c \* |
| Baseline | 66.3 | 13.1 | 61.9 | 12.4 | 62.9 | 13.4 | 61.8 | 11.6 | 58.8 | 16.8 |  |  |  |  |  |  |  |
| 3Y | 39.4 | 15.4 | 32.7 | 12.6 | 31.9 | 10.3 | 30.5 | 9.2 | 28.1 | 8.7 |  |  |  |  |  |  |  |
| 10Y | 40.8 | 12.6 | 31.5 | 10.1 | 29.3 | 4.4 | 28.1 | 5.3 | 28.9 | 3.8 |  |  |  |  |  |  |  |
| SAPS Total | N=26 | | N=47 | | N=23 | | N=39 | | N=32 | | 5.624 | <0.001 | 536.547 | <0.001 | 1.132 | 0.341 | ns |
| Baseline | 14.5 | 4.6 | 13.2 | 3.9 | 13.6 | 4.5 | 14.1 | 4.4 | 12.9 | 5.0 |  |  |  |  |  |  |  |
| 3Y | 4.3 | 4.8 | 2.8 | 4.8 | 1.7 | 3.7 | 1.2 | 3.2 | 0.8 | 2.6 |  |  |  |  |  |  |  |
| 10Y | 3.7 | 4.6 | 1.6 | 4.0 | 0.8 | 1.8 | 0.4 | 1.4 | 0.4 | 0.9 |  |  |  |  |  |  |  |
| SANS Total | N=26 | | N=47 | | N=23 | | N=39 | | N=31 | | 11.006 | <0.001 | 17.654 | <0.001 | 0.418 | 0.910 | ns |
| Baseline | 11.7 | 7.8 | 7.0 | 5.1 | 7.1 | 5.9 | 6.9 | 5.8 | 5.2 | 4.9 |  |  |  |  |  |  |  |
| 3Y | 8.1 | 6.4 | 3.3 | 5.0 | 4.7 | 4.6 | 3.7 | 4.9 | 2.9 | 4.8 |  |  |  |  |  |  |  |
| 10Y | 9.3 | 7.8 | 4.3 | 5.5 | 4.7 | 4.5 | 3.1 | 4.0 | 3.8 | 3.5 |  |  |  |  |  |  |  |
| Positive Dimension | N=26 | | N=47 | | N=23 | | N=39 | | N=31 | | 6.703 | <0.001 | 541.780 | <0.001 | 2.415 | 0.015 | 1b>5b 1c>4c \*\*; 1b>4b 1c>5c |
| Baseline | 7.7 | 2.4 | 7.1 | 2.3 | 7.9 | 2.4 | 7.9 | 2.3 | 6.7 | 2.2 |  |  |  |  |  |  |  |
| 3Y | 2.8 | 2.9 | 1.5 | 2.5 | 1.1 | 2.6 | 0.8 | 1.7 | 0.5 | 1.4 |  |  |  |  |  |  |  |
| 10Y | 2.4 | 2.9 | 0.9 | 2.2 | 0.4 | 1.1 | 0.2 | 0.8 | 0.3 | 0.7 |  |  |  |  |  |  |  |
| Disorganized Dimension | N=26 | | N=47 | | N=23 | | N=39 | | N=32 | | 1.993 | 0.098 | 246.012 | <0.001 | 0.436 | 0.899 | ns |
| Baseline | 6.8 | 3.8 | 6.0 | 3.2 | 5.7 | 3.8 | 6.1 | 3.4 | 6.3 | 4.2 |  |  |  |  |  |  |  |
| 3Y | 1.5 | 3.2 | 1.3 | 2.9 | 0.5 | 1.3 | 0.4 | 1.7 | 0.3 | 1.3 |  |  |  |  |  |  |  |
| 10Y | 1.3 | 2.0 | 0.8 | 2.2 | 0.4 | 1.2 | 0.2 | 0.8 | 0.1 | 0.6 |  |  |  |  |  |  |  |
| Negative Dimension | N=26 | | N=47 | | N=23 | | N=39 | | N=31 | | 9.663 | <0.001 | 6.271 | 0.002 | 0.450 | 0.890 | ns |
| Baseline | 9.5 | 7.0 | 4.7 | 4.7 | 5.3 | 6.0 | 4.7 | 5.2 | 4.0 | 4.3 |  |  |  |  |  |  |  |
| 3Y | 6.4 | 5.7 | 2.9 | 4.6 | 4.3 | 4.5 | 3.3 | 4.4 | 2.7 | 4.4 |  |  |  |  |  |  |  |
| 10Y | 8.2 | 6.6 | 3.6 | 4.7 | 4.2 | 4.1 | 2.8 | 3.6 | 3.6 | 3.3 |  |  |  |  |  |  |  |
| CDSS | N=25 | | N=47 | | N=23 | | N=38 | | N=32 | | 0.474 | 0.755 | 21.973 | <0.001 | 0.623 | 0.758 | ns |
| Baseline | 2.9 | 4.4 | 2.7 | 3.5 | 1.6 | 1.9 | 2.1 | 3.4 | 1.8 | 2.8 |  |  |  |  |  |  |  |
| 3Y | 0.4 | 1.3 | 0.6 | 1.7 | 0.6 | 1.2 | 0.7 | 1.7 | 0.6 | 1.7 |  |  |  |  |  |  |  |
| 10Y | 0.6 | 1.4 | 0.8 | 2.6 | 0.7 | 1.3 | 0.4 | 1.5 | 0.8 | 2.6 |  |  |  |  |  |  |  |
| YMRS | N=26 | | N=47 | | N=23 | | N=38 | | N=32 | | 1.688 | 0.155 | 425.973 | <0.001 | 2.306 | 0.020 | ns |
| Baseline | 12.9 | 5.5 | 11.7 | 4.5 | 14.4 | 7.6 | 13.0 | 4.9 | 12.8 | 5.6 |  |  |  |  |  |  |  |
| 3Y | 4.3 | 5.4 | 2.6 | 5.6 | 1.0 | 2.6 | 1.4 | 2.8 | 1.8 | 3.7 |  |  |  |  |  |  |  |
| 10Y | 3.1 | 4.0 | 1.9 | 3.3 | 0.5 | 2.0 | 0.3 | 1.4 | 0.9 | 3.0 |  |  |  |  |  |  |  |
| Verbal Memory | N=17 | | N=34 | | N=19 | | N=29 | | N=21 | | 3.211 | 0.015 | 12.730 | <0.001 | 0.600 | 0.777 | ns |
| Baseline | -2.8 | 1.6 | -2.7 | 1.1 | -2.3 | 1.2 | -2.1 | 1.4 | -1.7 | 1.3 |  |  |  |  |  |  |  |
| 3Y | -2.3 | 1.4 | -1.9 | 1.3 | -1.7 | 1.5 | -1.5 | 1.5 | -1.2 | 1.1 |  |  |  |  |  |  |  |
| 10Y | -2.6 | 1.2 | -2.3 | 1.3 | -1.7 | 1.3 | -1.5 | 1.5 | -1.6 | 1.2 |  |  |  |  |  |  |  |
| Visual Memory | N=17 | | N=34 | | N=18 | | N=29 | | N=21 | | 1.809 | 0.132 | 25.203 | <0.001 | 1.834 | 0.072 | ns |
| Baseline | -0.5 | 0.9 | -0.8 | 1.1 | -0.4 | 0.8 | -0.6 | 1.0 | -0.1 | 1.0 |  |  |  |  |  |  |  |
| 3Y | -0.1 | 0.9 | -0.3 | 0.8 | -0.1 | 1.0 | 0.1 | 0.9 | 0.0 | 0.8 |  |  |  |  |  |  |  |
| 10Y | -0.9 | 0.9 | -0.8 | 0.8 | -0.3 | 0.6 | -0.5 | 0.8 | -0.2 | 0.8 |  |  |  |  |  |  |  |
| Processing Speed | N=17 | | N=34 | | N=19 | | N=28 | | N=21 | | 13.456 | <0.001 | 44.193 | <0.001 | 1.624 | 0.119 | ns |
| Baseline | -2.1 | 1.0 | -2.0 | 0.8 | -1.5 | 1.0 | -1.2 | 1.0 | -0.8 | 1.2 |  |  |  |  |  |  |  |
| 3Y | -1.7 | 1.0 | -1.4 | 0.8 | -1.1 | 0.9 | -0.3 | 1.2 | -0.4 | 1.0 |  |  |  |  |  |  |  |
| 10Y | -1.6 | 0.9 | -0.8 | 0.9 | -0.8 | 0.7 | -0.1 | 1.0 | 0.1 | 0.6 |  |  |  |  |  |  |  |
| Working Memory | N=17 | | N=34 | | N=19 | | N=28 | | N=21 | | 4.806 | 0.001 | 0.396 | 0.673 | 1.529 | 0.148 | ns |
| Baseline | -0.7 | 0.7 | -0.6 | 0.7 | -0.7 | 0.8 | -0.1 | 1.1 | 0.0 | 0.7 |  |  |  |  |  |  |  |
| 3Y | -0.8 | 0.6 | -0.5 | 0.7 | -0.4 | 0.9 | 0.1 | 0.9 | -0.2 | 0.7 |  |  |  |  |  |  |  |
| 10Y | -1.0 | 0.8 | -0.5 | 0.8 | -0.4 | 0.8 | -0.2 | 0.9 | -0.2 | 0.8 |  |  |  |  |  |  |  |
| Executive Functioning | N=15 | | N=34 | | N=18 | | N=29 | | N=21 | | 2.120 | 0.083 | 1.493 | 0.227 | 0.814 | 0.590 | ns |
| Baseline | -0.8 | 1.1 | -1.4 | 2.0 | -1.2 | 2.0 | -0.3 | 1.4 | -0.6 | 1.0 |  |  |  |  |  |  |  |
| 3Y | -1.0 | 1.4 | -0.6 | 1.1 | -1.0 | 3.8 | 0.0 | 1.0 | -0.3 | 1.5 |  |  |  |  |  |  |  |
| 10Y | -1.0 | 1.7 | -1.0 | 1.9 | -1.0 | 1.4 | -0.3 | 1.5 | -0.1 | 1.1 |  |  |  |  |  |  |  |
| Motor Dexterity | N=16 | | N=33 | | N=17 | | N=26 | | N=20 | | 3.749 | 0.007 | 7.908 | <0.001 | 1.371 | 0.211 | ns |
| Baseline | -3.6 | 7.0 | -1.1 | 1.4 | -1.0 | 1.3 | -1.0 | 1.2 | -0.3 | 1.0 |  |  |  |  |  |  |  |
| 3Y | -1.7 | 2.5 | -0.2 | 1.1 | -0.7 | 1.7 | -0.4 | 1.1 | 0.0 | 1.3 |  |  |  |  |  |  |  |
| 10Y | -2.3 | 3.6 | -1.0 | 1.9 | -0.7 | 1.6 | -1.1 | 1.7 | -0.2 | 1.3 |  |  |  |  |  |  |  |
| Attention | N=11 | | N=27 | | N=16 | | N=26 | | N=20 | | 1.064 | 0.379 | 5.692 | 0.004 | 1.096 | 0.368 | ns |
| Baseline | -1.3 | 2.5 | -3.8 | 4.4 | -3.1 | 5.8 | -1.7 | 3.9 | -1.4 | 2.6 |  |  |  |  |  |  |  |
| 3Y | -2.5 | 5.0 | -2.1 | 3.4 | -1.8 | 5.5 | -0.8 | 2.7 | -1.3 | 2.1 |  |  |  |  |  |  |  |
| 10Y | -1.0 | 1.6 | -1.6 | 3.6 | -0.7 | 2.0 | -0.7 | 2.6 | -0.8 | 2.0 |  |  |  |  |  |  |  |
| GCF | N=11 | | N=27 | | N=15 | | N=23 | | N=19 | | 2.793 | 0.031 | 14.714 | <0.001 | 1.852 | 0.070 | ns |
| Baseline | 1.4 | 0.7 | 1.8 | 1.0 | 1.4 | 1.1 | 1.2 | 0.9 | 0.9 | 0.7 |  |  |  |  |  |  |  |
| 3Y | 1.3 | 0.9 | 1.0 | 0.6 | 1.0 | 1.0 | 0.7 | 0.7 | 0.7 | 0.6 |  |  |  |  |  |  |  |
| 10Y | 1.5 | 0.8 | 1.1 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.6 | 0.6 |  |  |  |  |  |  |  |

C1=Low IQ/Low education/Poor PAS, C2=Low IQ/Low education/Good PAS. C3=High IQ/Low education/Poor PAS, C4=High IQ/Medium education/Good PAS, C5=High IQ/High education/Good PAS, CGI=Clinical Global Impression, BPRS=Brief Psychiatric Rating Scale, SAPS=Scale for the Assessment of Positive Symptoms, SANS=Scale for the Assessment of Negative Symptoms, CDSS=Calgary Depression Scale for Schizophrenia, YMRS=Young Mania Rating Scale, GCF=Global Cognitive Functioning, SES=Socioeconomic Status.

a=Baseline assessment, b=3-Year assessment, c=10-Year assessment

Supplementary 3A. Baseline secondary analyses limited to schizophrenia diagnosis.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **C1** | | **C2** | | **C3** | | **C4** | | **C5** | |  |  |  |  |
|  | **N=45** | | **N=53** | | **N=39** | | **N=40** | | **N=26** | |  |  |  |  |
|  | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Statistic** | **Value** | **p** | **Post-Hoc** |
| Age at inclusion | 25.6 | 8.5 | 27.8 | 6.4 | 31.6 | 11.8 | 32.2 | 9.9 | 39.1 | 9.0 | F-w | 11.585 | <0.001 | 1<5 2<5 \*\*\*; 1<4 \*\*; 1<3 3<5 4<5 \* |
| Age at psychosis onset | 23.7 | 7.1 | 26.9 | 6.3 | 29.3 | 11.2 | 30.9 | 9.6 | 36.4 | 9.6 | F-w | 10.122 | <0.001 | 1<5 2<5 \*\*\*; 1<4 \*\*; 1<3 3<5 \* |
| DUI, months | 36.5 | 48.3 | 25.0 | 31.8 | 40.0 | 47.4 | 24.4 | 20.6 | 55.2 | 65.6 | X2 | 6.831 | 0.145 |  |
| DUP, months | 23.3 | 39.9 | 11.1 | 17.6 | 27.2 | 45.5 | 18.4 | 24.1 | 32.1 | 41.6 | X2 | 11.239 | 0.024 | 2<5 \* |
| Clinical variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CGI | 6.6 | 0.6 | 6.3 | 0.7 | 6.4 | 0.8 | 6.4 | 0.6 | 6.6 | 0.6 | X2 | 7.870 | 0.096 |  |
| BPRS Total | 69.9 | 14.7 | 61.1 | 14.3 | 65.7 | 14.1 | 63.5 | 12.8 | 63.2 | 14.3 | F | 2.570 | 0.039 | 1>2 \* |
| SAPS Total | 15.5 | 4.5 | 12.3 | 3.8 | 13.6 | 4.3 | 14.3 | 4.5 | 14.5 | 4.3 | F | 3.788 | 0.005 | 1>2 \*\* |
| SANS Total | 9.9 | 7.6 | 6.7 | 5.1 | 9.1 | 6.4 | 7.0 | 6.5 | 6.3 | 6.1 | F | 2.560 | 0.040 | ns |
| Positive Dimension | 8.4 | 2.2 | 7.0 | 2.2 | 7.4 | 2.6 | 8.3 | 2.2 | 7.6 | 2.4 | F | 3.012 | 0.019 | 1>2 \* |
| Disorganized Dimension | 7.2 | 3.6 | 5.3 | 3.2 | 6.2 | 3.4 | 6.0 | 3.6 | 6.9 | 3.0 | F | 2.095 | 0.083 |  |
| Negative Dimension | 8.0 | 6.8 | 4.8 | 4.7 | 7.1 | 6.0 | 5.1 | 5.9 | 5.2 | 5.2 | F | 2.666 | 0.034 | ns |
| CDSS | 2.6 | 4.0 | 3.2 | 4.0 | 2.6 | 2.7 | 1.6 | 2.5 | 1.7 | 2.7 | X2 | 8.796 | 0.066 |  |
| YMRS | 13.6 | 6.4 | 11.3 | 5.0 | 11.7 | 5.6 | 13.1 | 4.4 | 12.9 | 4.6 | F | 1.425 | 0.227 |  |
| DAS global | 2.3 | 1.5 | 1.3 | 1.4 | 2.4 | 1.5 | 1.2 | 1.4 | 2.2 | 1.6 | F | 6.173 | <0.001 | 1>4 3>4 \*\*; 1>2 2<3 \* |
| GAF | 31.4 | 18.8 | 50.3 | 27.5 | 34.1 | 23.9 | 54.9 | 31.4 | 41.2 | 23.3 | F-w | 4.270 | 0.004 | 1<2 1<4 3<4 \* |
| Cognitive variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Verbal Memory | -3.0 | 1.3 | -2.8 | 1.0 | -2.4 | 1.3 | -1.8 | 1.5 | -1.9 | 1.5 | F | 6.196 | <0.001 | 1<4 \*\*\*; 2<4 \*\*; 1<5 \* |
| Visual Memory | -1.2 | 1.0 | -0.8 | 1.0 | -0.6 | 0.9 | -0.4 | 1.0 | -0.4 | 1.0 | F | 4.797 | 0.001 | 1<4 \*\*; 1<3 1<5 \* |
| Processing Speed | -2.1 | 0.9 | -1.9 | 1.0 | -1.5 | 1.0 | -1.2 | 0.9 | -0.7 | 1.0 | F | 12.384 | <0.001 | 1<4 1<5 2<5 \*\*\*; 2<4 \*\*; 1<3 3<5 \* |
| Working Memory | -0.8 | 0.9 | -0.6 | 0.7 | -0.6 | 0.8 | -0.2 | 1.0 | -0.2 | 0.7 | F | 3.939 | 0.004 | 1<4 1<5 \* |
| Executive Functioning | -2.8 | 3.0 | -1.8 | 1.8 | -1.8 | 2.6 | -0.5 | 1.3 | -0.9 | 1.4 | X2 | 26.353 | <0.001 | 1<4 2<4 \*\*\*; 3<4 \*\* |
| Motor Dexterity | -2.8 | 4.6 | -1.4 | 1.8 | -2.0 | 2.9 | -0.8 | 1.2 | -0.4 | 1.0 | X2 | 23.969 | <0.001 | 1<5 \*\*\*; 1<4 \*\*; 3<5 \* |
| Attention | -5.9 | 6.1 | -3.1 | 4.4 | -2.9 | 5.2 | -0.9 | 2.5 | -2.0 | 4.3 | X2 | 23.286 | <0.001 | 1<4 \*\*\*; 1<5 \* |
| GCF | 2.3 | 1.0 | 1.8 | 0.9 | 1.6 | 0.9 | 1.0 | 0.7 | 1.0 | 0.8 | F | 13.820 | <0.001 | 1>4 1>5 2>4 \*\*\*; 1>3 2>5 \*\*; 3>4 \* |
|  | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** |  |  |  |  |
| Sex (Male) | 32 | 71.1 | 39 | 73.6 | 20 | 51.3 | 22 | 55.0 | 12 | 46.2 | X2 | 10.051 | 0.040 | ns |
| Ethnicity (White) | 42 | 93.3 | 50 | 94.3 | 38 | 97.4 | 38 | 95.0 | 26 | 100.0 | Fisher | 2.276 | 0.766 |  |
| Family psychiatric history | 11 | 24.4 | 9 | 17.0 | 9 | 23.7 | 11 | 27.5 | 4 | 15.4 | X2 | 2.377 | 0.667 |  |
| Hospitalization at inclusion | 29 | 64.4 | 33 | 62.3 | 29 | 74.4 | 31 | 77.5 | 19 | 73.1 | X2 | 3.648 | 0.456 |  |
| Student | 6 | 13.3 | 7 | 13.2 | 10 | 25.6 | 12 | 30.0 | 7 | 26.9 | X2 | 6.604 | 0.158 |  |
| SES of parents (Low) | 33 | 73.3 | 33 | 63.5 | 14 | 35.9 | 20 | 50.0 | 7 | 26.9 | X2 | 21.574 | <0.001 | 1>3 1>5 \*\*; 2>5 \* |
| Urban area | 32 | 71.1 | 39 | 73.6 | 29 | 74.4 | 22 | 55.0 | 21 | 80.8 | X2 | 6.461 | 0.167 |  |
| Living with parents | 32 | 71.1 | 30 | 56.6 | 25 | 64.1 | 16 | 40.0 | 12 | 46.2 | X2 | 10.396 | 0.034 | 1>4 \* |
| Single | 42 | 93.3 | 41 | 77.4 | 31 | 79.5 | 28 | 70.0 | 18 | 69.2 | X2 | 9.051 | 0.060 |  |
| Unemployed | 34 | 75.6 | 14 | 26.4 | 22 | 56.4 | 8 | 20.0 | 13 | 50.0 | X2 | 36.811 | <0.001 | 1>2 1>4 \*\*\*; 3>4 \*\*; 2<3 \* |
| Alcohol | 23 | 52.3 | 37 | 69.8 | 18 | 47.4 | 17 | 43.6 | 8 | 30.8 | X2 | 12.836 | 0.012 | 2>5 \*\* |
| Tobacco | 26 | 61.9 | 38 | 71.7 | 18 | 48.6 | 21 | 53.8 | 12 | 46.2 | X2 | 7.455 | 0.114 |  |
| Cannabis | 21 | 46.7 | 24 | 45.3 | 11 | 28.2 | 14 | 35.0 | 7 | 26.9 | X2 | 5.726 | 0.221 |  |
| Cocaine | 7 | 15.6 | 9 | 17.0 | 8 | 21.1 | 7 | 17.5 | 2 | 7.7 | X2 | 2.116 | 0.715 |  |

C1=Low IQ/Low education/Poor PAS, C2=Low IQ/Low education/Good PAS. C3=High IQ/Low education/Poor PAS, C4=High IQ/Medium education/Good PAS, C5=High IQ/High education/Good PAS,DUI=Duration of Untreated Illness, DUP=Duration of Untreated Psychosis, CGI=Clinical Global Impression, BPRS=Brief Psychiatric Rating Scale, SAPS=Scale for the Assessment of Positive Symptoms, SANS=Scale for the Assessment of Negative Symptoms, CDSS=Calgary Depression Scale for Schizophrenia, YMRS=Young Mania Rating Scale, DAS=Disability Assessment Scale, GAF=Global Assessment of Functioning, GCF=Global Cognitive Functioning, SES=Socioeconomic Status.

Supplementary 3B. Secondary analyses limited to schizophrenia diagnosis at 3-year follow-up.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **C1** | | **C2** | | **C3** | | **C4** | | **C5** | |  |  |  |  |
|  | **N=38** | | **N=45** | | **N=35** | | **N=35** | | **N=24** | |  |  |  |  |
|  | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Statistic** | **Value** | **p** | **Post-Hoc** |
| Clinical variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CGI | 3.5 | 1.7 | 2.6 | 1.8 | 3.1 | 1.5 | 2.3 | 1.6 | 2.5 | 1.8 | F | 3.061 | 0.018 | 1>4 \* |
| BPRS Total | 36.4 | 12.0 | 31.8 | 11.8 | 31.4 | 8.7 | 29.4 | 7.8 | 29.8 | 10.2 | X2 | 13.399 | 0.009 | 1>4 1>5 \* |
| SAPS Total | 3.3 | 3.8 | 2.0 | 3.7 | 1.1 | 3.0 | 0.7 | 1.6 | 0.8 | 2.7 | X2 | 19.339 | 0.001 | 1>4 1>5 \*\*; 1>3 \* |
| SANS Total | 7.3 | 6.8 | 3.3 | 5.1 | 6.2 | 6.2 | 3.8 | 5.2 | 4.1 | 5.8 | X2 | 14.363 | 0.006 | 1>2 \* |
| Positive Dimension | 2.3 | 2.9 | 1.3 | 2.3 | 0.7 | 2.2 | 0.5 | 1.0 | 0.5 | 1.4 | X2 | 20.251 | <0.001 | 1>3 \*\*; 1>4 1>5 \* |
| Disorganized Dimension | 1.0 | 2.2 | 0.7 | 1.6 | 0.5 | 1.5 | 0.2 | 0.7 | 0.3 | 1.4 | X2 | 8.586 | 0.072 |  |
| Negative Dimension | 6.0 | 5.8 | 3.0 | 4.6 | 5.6 | 5.6 | 3.4 | 4.8 | 3.9 | 5.4 | X2 | 11.653 | 0.020 | 1>2 \* |
| CDSS | 0.4 | 1.2 | 0.9 | 2.1 | 0.6 | 1.4 | 0.4 | 1.1 | 0.4 | 1.4 | X2 | 4.081 | 0.395 |  |
| YMRS | 2.8 | 3.7 | 1.6 | 3.7 | 0.9 | 2.4 | 0.9 | 2.1 | 1.7 | 3.3 | X2 | 13.316 | 0.010 | 1>3 \* |
| DAS global | 2.0 | 1.5 | 1.2 | 1.4 | 1.9 | 1.5 | 0.9 | 1.3 | 1.3 | 1.6 | F | 3.979 | 0.004 | 1>4 3>4 \* |
| GAF | 63.8 | 25.3 | 79.5 | 21.0 | 68.5 | 23.9 | 82.3 | 21.0 | 76.2 | 24.5 | F | 2.642 | 0.037 | ns |
| Cognitive variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Verbal Memory | -2.6 | 1.5 | -2.5 | 1.2 | -2.2 | 1.5 | -1.7 | 1.5 | -1.5 | 1.3 | F | 3.214 | 0.015 | ns |
| Visual Memory | -0.9 | 1.2 | -0.5 | 0.8 | -0.3 | 0.9 | -0.1 | 0.9 | 0.0 | 0.8 | F | 4.190 | 0.003 | 1<4 1<5 \*\* |
| Processing Speed | -1.8 | 1.1 | -1.6 | 0.9 | -1.0 | 0.8 | -0.6 | 1.0 | -0.4 | 0.9 | F | 11.668 | <0.001 | 1<4 1<5 2<4 2<5 \*\*\*; 1<3 \*\* |
| Working Memory | -1.0 | 0.7 | -0.6 | 0.7 | -0.3 | 0.9 | -0.2 | 1.0 | -0.2 | 0.6 | F | 5.319 | <0.001 | 1<3 1<4 1<5 \*\* |
| Executive Functioning | -2.1 | 2.8 | -1.1 | 1.6 | -1.5 | 3.7 | -0.4 | 1.3 | -0.6 | 1.5 | X2 | 12.987 | 0.011 | 1<4 \* |
| Motor Dexterity | -1.6 | 2.2 | -0.6 | 1.2 | -1.3 | 2.1 | -0.5 | 1.0 | -0.5 | 1.3 | X2 | 8.689 | 0.069 |  |
| Attention | -4.1 | 4.9 | -2.1 | 3.3 | -1.7 | 4.8 | -1.4 | 3.5 | -1.6 | 3.1 | X2 | 12.080 | 0.017 | ns |
| GCF | 1.8 | 1.1 | 1.4 | 0.8 | 1.2 | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | F | 5.890 | <0.001 | 1>4 1>5 \*\*\* |
|  | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** |  |  |  |  |
| Same diagnosis | 35 | 97.2 | 39 | 97.5 | 32 | 94.1 | 31 | 100.0 | 22 | 100.0 | Fisher | 3.019 | 0.688 |  |
| Student | 4 | 10.5 | 7 | 15.6 | 14 | 40.0 | 6 | 17.1 | 3 | 12.5 | X2 | 12.774 | 0.012 | 1<3 \* |
| Living with parents | 25 | 71.4 | 31 | 70.5 | 26 | 76.5 | 17 | 48.6 | 15 | 62.5 | X2 | 7.402 | 0.116 |  |
| Unemployed | 13 | 37.1 | 12 | 27.3 | 8 | 23.5 | 6 | 17.1 | 2 | 8.3 | X2 | 7.742 | 0.101 |  |
| Alcohol | 15 | 39.5 | 18 | 40.0 | 6 | 17.1 | 10 | 28.6 | 9 | 37.5 | X2 | 6.246 | 0.181 |  |
| Tobacco | 24 | 63.2 | 31 | 68.9 | 18 | 51.4 | 18 | 51.4 | 10 | 41.7 | X2 | 6.374 | 0.173 |  |
| Cannabis | 9 | 23.7 | 6 | 13.3 | 1 | 2.9 | 4 | 11.4 | 1 | 4.2 | Fisher | 9.252 | 0.065 |  |
| Cocaine | 1 | 2.6 | 1 | 2.2 | 0 | 0.0 | 2 | 5.7 | 1 | 4.2 | Fisher | 2.304 | 0.743 |  |

C1=Low IQ/Low education/Poor PAS, C2=Low IQ/Low education/Good PAS. C3=High IQ/Low education/Poor PAS, C4=High IQ/Medium education/Good PAS, C5=High IQ/High education/Good PAS,CGI=Clinical Global Impression, BPRS=Brief Psychiatric Rating Scale, SAPS=Scale for the Assessment of Positive Symptoms, SANS=Scale for the Assessment of Negative Symptoms, CDSS=Calgary Depression Scale for Schizophrenia, YMRS=Young Mania Rating Scale, DAS=Disability Assessment Scale, GAF=Global Assessment of Functioning, GCF=Global Cognitive Functioning.

Supplementary 3C. Secondary analyses limited to schizophrenia diagnosis at 10-year follow-up.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **C1** | | **C2** | | **C3** | | **C4** | | **C5** | |  |  |  |  |
|  | **N=20** | | **N=27** | | **N=13** | | **N=19** | | **N=14** | |  |  |  |  |
|  | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Statistic** | **Value** | **p** | **Post-Hoc** |
| Clinical variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CGI | 3.3 | 2.1 | 2.7 | 1.7 | 2.3 | 1.0 | 1.8 | 1.0 | 2.3 | 1.2 | X2 | 5.449 | 0.244 |  |
| BPRS Total | 41.0 | 14.8 | 31.3 | 10.2 | 29.3 | 4.7 | 27.1 | 2.4 | 28.5 | 3.8 | X2 | 9.756 | 0.045 | ns |
| SAPS Total | 4.1 | 5.1 | 1.9 | 4.7 | 1.0 | 2.0 | 0.5 | 0.9 | 0.2 | 0.6 | X2 | 8.867 | 0.065 |  |
| SANS Total | 8.9 | 8.6 | 4.4 | 5.2 | 3.5 | 3.0 | 2.8 | 2.7 | 4.4 | 4.4 | X2 | 3.616 | 0.460 |  |
| Positive Dimension | 2.7 | 3.2 | 1.1 | 2.3 | 0.7 | 1.4 | 0.1 | 0.5 | 0.2 | 0.6 | X2 | 12.467 | 0.014 | 1>4 \* |
| Disorganized Dimension | 1.3 | 2.2 | 0.8 | 2.5 | 0.3 | 0.9 | 0.4 | 0.9 | 0.0 | 0.0 | X2 | 6.273 | 0.180 |  |
| Negative Dimension | 7.8 | 7.3 | 3.9 | 4.5 | 3.0 | 2.4 | 2.4 | 2.6 | 4.2 | 4.2 | X2 | 5.176 | 0.270 |  |
| CDSS | 0.7 | 1.6 | 0.4 | 1.0 | 1.0 | 1.7 | 0.2 | 0.7 | 0.2 | 0.6 | X2 | 6.400 | 0.171 |  |
| YMRS | 3.1 | 4.2 | 2.2 | 3.5 | 0.7 | 2.5 | 0.8 | 2.0 | 0.2 | 0.8 | X2 | 9.436 | 0.051 |  |
| DAS global | 1.5 | 1.7 | 1.3 | 1.2 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.9 | X2 | 3.629 | 0.459 |  |
| GAF | 74.2 | 23.5 | 80.0 | 19.4 | 83.1 | 9.3 | 89.1 | 10.0 | 86.2 | 13.7 | X2 | 4.139 | 0.388 |  |
| Cognitive variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Verbal Memory | -2.6 | 1.1 | -2.3 | 1.3 | -1.5 | 1.4 | -1.9 | 1.5 | -1.8 | 1.4 | F | 1.546 | 0.198 |  |
| Visual Memory | -0.7 | 0.8 | -0.8 | 0.8 | -0.2 | 0.5 | -0.3 | 0.8 | -0.3 | 0.9 | F | 2.390 | 0.059 |  |
| Processing Speed | -1.5 | 0.8 | -0.7 | 1.1 | -0.9 | 0.9 | -0.5 | 0.7 | 0.1 | 0.6 | F | 6.324 | <0.001 | 1<5 \*\*\*; 1<4 \* |
| Working Memory | -0.9 | 0.8 | -0.7 | 0.6 | -0.3 | 0.6 | -0.4 | 0.9 | -0.2 | 0.8 | X2 | 7.485 | 0.112 |  |
| Executive Functioning | -0.9 | 1.7 | -1.0 | 1.9 | -1.1 | 1.8 | -0.8 | 1.7 | -0.4 | 1.1 | X2 | 0.819 | 0.936 |  |
| Motor Dexterity | -3.2 | 4.8 | -1.3 | 2.0 | -0.5 | 1.5 | -1.1 | 1.7 | -0.7 | 1.3 | X2 | 5.908 | 0.206 |  |
| Attention | -4.5 | 7.4 | -2.4 | 4.3 | -1.8 | 5.1 | -1.1 | 3.0 | -1.0 | 2.6 | X2 | 5.966 | 0.202 |  |
| GCF | 1.6 | 0.8 | 1.2 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 | 0.8 | 0.7 | X2 | 10.590 | 0.032 | ns |
|  | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** |  |  |  |  |
| Clinical Stability | 13 | 72.2 | 20 | 80.0 | 11 | 84.6 | 17 | 100.0 | 11 | 84.6 | Fisher | 5.321 | 0.191 |  |
| Same diagnosis | 18 | 100.0 | 21 | 84.0 | 11 | 84.6 | 16 | 94.1 | 11 | 84.6 | Fisher | 3.974 | 0.344 |  |
| Student | 1 | 6.7 | 5 | 18.5 | 2 | 15.4 | 3 | 16.7 | 4 | 28.6 | Fisher | 2.502 | 0.664 |  |
| Single | 14 | 93.3 | 15 | 55.6 | 9 | 69.2 | 9 | 50.0 | 11 | 78.6 | Fisher | 9.481 | 0.042 | ns |
| Living with parents | 8 | 53.3 | 12 | 44.4 | 5 | 38.5 | 9 | 50.0 | 10 | 71.4 | X2 | 3.653 | 0.455 |  |
| Disability | 13 | 86.7 | 16 | 59.3 | 9 | 69.2 | 7 | 38.9 | 6 | 42.9 | X2 | 9.795 | 0.044 | ns |
| Dependency | 3 | 20.0 | 2 | 7.4 | 1 | 7.7 | 0 | 0.0 | 0 | 0.0 | Fisher | 6.405 | 0.178 |  |
| Financial support | 7 | 46.7 | 3 | 11.1 | 1 | 7.7 | 3 | 16.7 | 2 | 14.3 | Fisher | 10.128 | 0.068 |  |
| Alcohol | 5 | 25.0 | 8 | 29.6 | 0 | 0.0 | 3 | 15.8 | 4 | 28.6 | Fisher | 5.544 | 0.192 |  |
| Tobacco | 12 | 60.0 | 17 | 63.0 | 8 | 61.5 | 9 | 47.4 | 5 | 35.7 | X2 | 3.666 | 0.453 |  |
| Cannabis | 5 | 25.0 | 2 | 7.4 | 0 | 0.0 | 1 | 5.3 | 1 | 7.1 | Fisher | 7.451 | 0.180 |  |
| Cocaine | 2 | 10.0 | 1 | 3.7 | 0 | 0.0 | 1 | 5.3 | 0 | 0.0 | Fisher | 2.858 | 0.792 |  |

C1=Low IQ/Low education/Poor PAS, C2=Low IQ/Low education/Good PAS. C3=High IQ/Low education/Poor PAS, C4=High IQ/Medium education/Good PAS, C5=High IQ/High education/Good PAS,CGI=Clinical Global Impression, BPRS=Brief Psychiatric Rating Scale, SAPS=Scale for the Assessment of Positive Symptoms, SANS=Scale for the Assessment of Negative Symptoms, CDSS=Calgary Depression Scale for Schizophrenia, YMRS=Young Mania Rating Scale, DAS=Disability Assessment Scale, GAF=Global Assessment of Functioning, GCF=Global Cognitive Functioning.