

Chronic fatigue syndrome and fibromyalgia-like symptoms are an integral component of the phenome of schizophrenia: neuro-immune and opioid system correlates.

Short title: biomarkers of fibro-fatigue symptoms in schizophrenia

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ESF. Table 1 Demographic and biomarker data in healthy controls (HC), and schizophrenia (SCZ) patients divided into low versus high scores on the Fibromyalgia and Chronic Fatigue Syndrome Rating or FibroFatigue (FF) scale

Dependent Variables in z scores	HC^A n=43	SCZ+FF < median^B n=55	SCZ+FF ≥ median^C n=60
List learning	0.810 (0.126) ^{B,C}	-0.031 (0.107) ^{A,C}	-0.606 (0.112) ^{A,B}
Digit Sequencing Task	1.375 (0.074) ^{B,C}	-0.319 (0.063) ^{A,C}	-0.740 (0.066) ^{A,B}
Token Motor Task	0.369 (0.148) ^C	0.196 (0.124) ^C	-0.502 (0.131) ^{A,B}
Category Instances	0.840 (0.133) ^{B,C}	-0.188 (0.112) ^A	-0.449 (0.118) ^A
COWA	1.40 (0.071) ^{B,C}	-0.324 (0.060) ^{A,C}	-0.748 (0.063) ^{A,B}
Symbol Coding	1.598 (0.034) ^{B,C}	-0.542 (0.029) ^{A,C}	-0.629 (0.030) ^{A,B}
Tower of London	1.159 (0.093) ^{B,C}	-0.244 (0.078) ^{A,C}	-0.645 (0.083) ^{A,B}
Psychosis	-1.145 (0.103) ^{B,C}	0.165 (0.088) ^{A,C}	0.714 (0.093) ^{A,B}
Hostility	-1.061 (0.111) ^{B,C}	0.110 (0.094) ^{A,C}	0.710 (0.100) ^{A,B}
Excitement	-1.109 (0.105) ^{B,C}	0.095 (0.090) ^{A,C}	0.763 (0.095) ^{A,B}
Mannerism	-1.301 (0.093) ^{B,C}	0.391 (0.079) ^A	0.590 (0.083) ^A
FTD	-1.229 (0.096) ^{B,C}	0.230 (0.081) ^{A,C}	0.711 (0.086) ^{A,B}
PMR	-0.938 (0.118) ^{B,C}	0.017 (0.101) ^{A,C}	0.715 (0.106) ^{A,B}
PANSS negative	-1.198 (0.101) ^{B,C}	0.257 (0.086) ^{A,C}	0.656 (0.091) ^{A,B}
SANS total	-1.343 (0.086) ^{B,C}	0.326 (0.073) ^{A,C}	0.695 (0.077) ^{A,B}

^{A,B,C}: pairwise comparisons between group means.

COWA: Controlled Oral Word Association Test, FTD: Formal thought disorders; PMR: psychomotor retardation, PANSSneg: negative subscales of the Positive and Negative Syndrome Scale, SANS: Scale for the Assessment of Negative Symptoms.