Patients were divided into four diagnostic groups. According to the diagnosis (ICD-10) and the current health condition, the spectrum disorders and in a control group (rs1801133) polymorphism for patients with schizophrenia, affective gene C677T polymorphism for genes, have a greater risk to become ill psychiatric illness correlates with elevated level of Hcy [4]. Men, who have MTHFR C677T polymorphism for genes, have a greater risk to become ill with schizophrenia than women do; for their part, it is a greater risk to get bipolar affective disorders (BAD) [5].

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Aim of study

The aim of the study was to get information about a serum level of Hcy and examine the associations between the level of Hcy and MTHFR gene C677T (rs1801133) polymorphism for patients with schizophrenia, affective spectrum disorders and in a control group.

Material and methods

There was 198 patients from Children’s Psychiatric Hospital. According to the diagnosis (ICD-10) and the current health condition, the patients were divided into four diagnostic groups.

The level of Hcy was stated by isocratic HPLC (High-performance liquid chromatography) system with fluorometric detection (Shimadzu LC-20, model RF-10AXL). DNA isolation from venous blood by phenol-chloroform method, in order to detect MTHFR C677T polymorphism, the RFLP–PCR (restriction fragment length polymorphism - polymerase chain reaction) analyses were used.

Results

The average level of Hcy was 11.94±5.6 μmol/L for patients with schizophrenia’s spectrum disorders, 11.26±3.3 μmol/L for patients with affective disorders, 7.47±2.9 μmol/L in a control. There were found known association between MTHFR gene polymorphism C677T and Hcy level by additive model (r=1.41; p=0.029).

Conclusions

The data are indicative of a link among the level of Hcy and the pronounced affect in schizophrenia and affective disorders, and its severity and course. The association between the level of Hcy, schizophrenia and affective disorders and the MTHFR C677T polymorphism was not found.

List of references:


Statement of conflicts of interest

There is no potential conflict of interest.

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