

# 6<sup>TH</sup> LUBLIN INTERNATIONAL MEDICAL CONGRESS FOR STUDENTS AND YOUNG DOCTORS LUBLIN, 28<sup>TH</sup> - 30<sup>TH</sup> NOVEMBER 2019



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STUDENTS' SCIENTIFIC SOCIETY  
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## USE OF TRANSCRANIAL MAGNETIC STIMULATION IN A CASE OF SCHIZOPHRENIA WITH AUDITORY HALLUCINATIONS

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**Background:** Transcranial magnetic stimulation (TMS) provides an ability to modulate specific brain areas. The most common indication for this treatment is depression, however it is also found to be useful for obsessive compulsive disorder, substance abuse and schizophrenia. We present a clinical case of a patient who is diagnosed with schizophrenia and has achieved remission of the auditory hallucinations after treatment with TMS.

**Case Report:** A patient is 19-year-old woman. She was born prematurely at 34 weeks after the physical trauma of her mother. Apgar score 6. At the early childhood the patient was lacking of concentration and was struggling to get in contact with other children. Since 10-year-old the patient was experiencing auditory, visual and tactile hallucinations. At the age of 14 was diagnosed with anorexia nervosa. She was hospitalized in psychiatric hospital multiple times due to mood swings, suicidal thoughts and actions, intensified auditory hallucinations. The woman is constantly hearing humiliating, insulting voices which are telling her to commit a suicide. The patient received treatment of various antipsychotic drugs, mood stabilizers and antidepressants with no significant effect. On 2015 after being hospitalized in psychiatric hospital and receiving electroconvulsive therapy a few months of the remission period was achieved, however the patient is refusing to get ECT, because after the procedure was feeling sick. For the past 2 years the woman is taking clozapine 300-350mg/d, haloperidol 12,5-15mg/d, agomelatine 12,5mg/d and clonazepam 2mg/d. Due to the medicament resistant constant auditory pseudohallucinoses the patient decided to be hospitalized in Republican Vilnius Psychiatric Hospital and get the treatment of repeated transcranial magnetic stimulation. After performing electroencephalogram and finding no signs of epileptiform patterns 17 procedures of TMS on the left temporoparietal junction were performed. The patient got in to remission period even with a lower amount of medications being used. Both positive and negative symptoms as well as general psychopathological state of the patient got significantly better and the patient did not have auditory hallucinations anymore.

**Conclusions:** The patient who was constantly experiencing auditory hallucinations got in to the remission after course of repeated transcranial magnetic stimulation.

**Keywords:** transcranial magnetic stimulation, auditory hallucinations.