

## **P-397 - A CASE STUDY - BIOFEEDBACK EEG AS A PART OF THERAPY OF A PATIENT WITH POST-TRAUMATIC CEREBRASTHENIA**

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**Introduction:** EEG Biofeedback is a technique that enables the recognition and modification of the bioelectrical activity of the brain which can be used to improve the patient's concentration, control of impulses and reduce disturbance of emotions.

**Aim of the study:** The aim of this research is to show the case of the patient with post-traumatic cerebrasthenia who was treated with a combination of both pharmacotherapy (tianeptine) and neurotherapy using mainly EEG BF in the bilateral module training SMR/beta + beta/delta.

**Material and methods:** This research is based on a case history of a patient with an implantable cardioverter-defibrillator (ICD) who suffered from blood circulation obstruction caused by catecholaminergic polymorphic ventricular tachycardia. Due to a transient cerebral hypoxia the patient later showed symptoms of posttraumatic cerebrasthenia: problems with concentration, short-term memory and depressive symptoms.

**Results:** The therapy resulted in increasing of the SMR and beta potential as well as the stabilization of the cognitive dysfunction and emotional disorders.

**Conclusions:** Biofeedback is a useful and effective technique and can be also used in therapy of the patients with posttraumatic cerebrasthenia.