Epilepsy

HORMONAL CHANGES IN YOUNG MEN SUFFERING IN EPILEPSY

A. Voitiuk[1,2], T. Litovchenko[1], G. Selyukov[3]

[1]*Department of Neurology and Child Neurology, Kharkiv Medical Academy of Postgraduate Education, Ukraine*
[2]*Neurological, Medical Centre "Neiron", Ukraine*
[3]*Department of Psychiatry and Addiction, Bogomolets National Medical University, Ukraine*

Comorbidity of epilepsy and neuroendocrine disorders is up to 2/3 of all cases. The combination of epilepsy and neuroendocrine disorders may be due to the consequences of organic brain damage, such as deep frontal and temporal lobes or reticular formation of the trunk involved in neuroendocrine regulation. In some cases, hormonal imbalance caused by neuroendocrine disorders serves as an epilepsy-inducing factor due to the epileptogenic effect of androgens, insulin and a number of other hormones. On the other hand, generalized seizures lead increased secretion of prolactin by the adenohypophysis, which may cause the development of neuroendocrine disorders in patients with epilepsy. The purpose of this research is to study the features of hormonal changes in men 18-44 years with epilepsy. We were used clinical anamnestic, neurological, biochemical methods (determination of hormones in blood serum). EEG and EEG video monitoring were used as screening methods. When examining 90 people after losing consciousness when determining the concentration of prolactin in the blood serum, it was found that only 40 patients (44%) have epileptic seizures. The remaining men (n=50; 56%) had non-epileptic paroxysmal conditions: conversion, withdrawal paroxysms, syncope, panic attacks, sleep disturbances. The 16 men (40%) had low testosterone levels after a seizure. In 14 patients (35%), there was a violation of the release of follicle-stimulating and luteinizing hormones. 10 men (25%) showed a decrease in testosterone levels while taking an antiepileptic drug, which can be manifested as a decrease in overall activity, mood, decreased libido, changes in bone density and other manifestations.