

World Congress on

NEUROSCIENCE AND EPILEPSY

November 16-17, 2018 Tokyo, Japan

Balance disorders in patients with epilepsy

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Epilepsy is a chronic disease characterized by a tendency to recurrent and unprovoked seizures. Often, in patients with epilepsy we observe difficulties in maintaining the balance, in this mechanism coordination of the visual, somatosensory and vestibular system is necessary. The cortical representation of these systems is possible to analyze in the electroencephalographic study. Registering a cortical response allowed to assess cortical dysfunctions and to implement selective rehabilitation. The aim of our study was assessment of the impact of balance disorders on the quality of life of patients with idiopathic epilepsy. Patients with idiopathic epilepsy were examined 3 times every month using EEG (32 channels), SF-36 test and stabilometric platform (post urography test). In the SF-36 test, everyone declared improvement. In addition, the study group was subjected to physiotherapy aimed at balance disorders (3 times a week, each 30-minute session). In a study 11 patients were involved. One of them was excluded due to frontal lobes trauma. We present only EEG and post urography test analysis. Finally, a statistically significant improvement was maintained after the end of physiotherapy in the EEG with somatosensory and visual functions and in post urography test in stability index in anterior/posterior plane. On the basis of the presented experiment it is difficult to determine the final conclusions. Rehabilitation in patients with epilepsy should be combined with pharmacotherapy. There are no standards for the physiotherapy of patients with idiopathic epilepsy.

Biography

Elżbieta Szczygieł Pilut since 2012 is a Doctor of Medical Sciences with clinical experience in a group of adult neurological patients. She improves her knowledge at courses and scientific congresses.

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