

1 Summary

Title: Mechanisms of effect of new antiepileptic drugs (An evaluation of adverse effects)

Author: Lucie Butorová

Supervisor: Doc. MUDr. Josef Herink, DrSc.

Department: Department of biological and medicinal sciences

Epilepsy is frequent neurological disease. It is characterised by spontaneously repeated epileptic seizures, which are caused by abnormalities of neuronal activity of the brain. Therapy of epilepsy consists in prophylaxis of epileptic seizures, and that is why it is necessary to use the antiepileptic drugs for a long time. This administration is accompanied by the increased risk of adverse effects. Present thesis classifies particular epileptic seizures, describes pathophysiology of epilepsy and the principles of therapy with antiepileptic drugs. The principal aim of my work was to find out and evaluate side effects of antiepileptic drugs by the help of the questionnaire. The results proved higher efficacy and fewer adverse effects of monotherapy in a comparison with combined therapy and also 3rd generation antiepileptic drugs in a comparison with the 1st generation of antiepileptic drugs. In conclusion of my work I aimed to compare efficacy and the occurrence of adverse effects concerning antiepileptic drugs used and hereafter compare these results with published data concerning particular antiepileptic drugs.