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Author´s first name and surname: Lenka Boťchová, BA

Title of the master thesis: Does status epilepticus during early postnatal period influence laboratory rat psychomotor development?

Department: Department of Rehabilitation and Exercise Medicine

Supervisor: doc. PharmDr. H. Kubová, DrSc.

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Abstract: The purpose of this study is to evaluate the influence of status epilepticus (SE) in postnatal development early phase on laboratory rat psychomotor development. Experimentally caused (SE) is the most common mode of epileptogenesis, which is the process leading to the epilepsy creation, and typical comorbidities. The influence of the early SE was studied when using lithium/pilocarpine model of SE induced on 12 days old rat cubs, which were repeatedly exposed to the "open field" test until 32nd day of their lives that means until the puberty beginning. The evaluation is focused on cognition and overall locomotion changes and anxiety demonstrations. The results show that in short periods after SE (up to 1 month) the cognitive functions regarding the habituation disorder are not worsened. However, hyperactivity short-term disposition and worse adaptability to experimental conditions due to animal anxiety increase were detected. Motor skills of SE animals and the control group did not differ.