BACHELOR THESIS ABSTRACT

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Thesis opponent:

Title of the Bachelor Thesis: Cognitive Rehabilitation Cognitive Rehabilitation in Multiple Sclerosis Patients by an Occupational Therapist: Testing a New Application for Touch Devices

Abstract:

This bachelor thesis deals with cognitive rehabilitation in patients with multiple sclerosis (MS) from the perspective of an occupational therapist, who together with a psychologist or a speech therapist practise cognitive function training. The extent of cognitive functions is variable, occur mild to moderate disorders, therefore has cognitive rehabilitation in patients with MS great importance. There are many cognitive rehabilitation software available, but none of them is primarily focused on MS patients.

The aim of this thesis is to evaluate feasibility of the new software for cognitive rehabilitation in people with MS (called Kote). In bachelor thesis is used the research method of a written questionnaire survey and on the basis of the evaluation of the non – standardized questionnaire the authors will be provided with suggestions for further software upgrades. Another aim is to prepare instructions for every game and to assign the area of cognitive functions that is trained in the game.

The thesis is divided into the theoretical and practical part. The theoretical part describes pathogenesis, epidemiology, symptoms, disease course and rehabilitation. The theoretical part characterise common cognitive deficit in MS and its possible treatment. The practical part contains analysis of non – standardized questionnaire and neuropsychological examination.

The thesis showed feasibility of this new software for cognitive rehabilitation in people with MS. The answers in questionnaire showed motivation of patients for further research with this software. The next step is to edit software according to provide patients feedback. And the evaluate its effect in larger cohort of people with MS.

Key words: occupational therapy, cognitive rehabilitation, cognitive training, multiple sclerosis