

Abstract:

The aim of the thesis is to find out clinical usability of tablet application Cognitive for training of memory and attention of patients after stroke, in occupational therapist's view.

Occupational therapists train cognitive functions (for instance memory and attention) of patients in various ways. Therapy using modern technologies, particularly tablet, is involved. Whereas in foreign countries tablets are used in occupational therapy in many means, in the Czech Republic their use is still minimal. The theoretical part contains a summary about this area. The application Cognitive, which is currently being developed, might help change the situation in the Czech Republic. Cognitive application contains two games, one for memory and the other one for attention. Is this application usable in occupational therapist's practice, though?

Within the practical part, a study has been created, that found out the usability of new application Cognitive in practice with six patients after stroke. Occupational therapist trained memory and attention with them for 3 weeks, every weekday, each for 30 minutes. Data was processed in a form of a case study and using statistical methods.

The study has found out that the application has a major drawback in poor variability of game elements, which is necessary for individual setting of occupational therapy intervention. The application Cognitive is suitable for training of memory and attention in occupational therapy of patients after stroke, however, it would be convenient to carry out further research in this domain.

Key words: occupational therapy, training of cognitive functions, tablet, stroke