

ABSTRACT OF DIPLOMA THESIS

Title of diploma thesis: Clinical Utility of Rivermead Behavioural Memory Test in Patients after Brain Damage

Objective: The main goal of this diploma thesis was to monitor the relationship between memory functions measured by the Rivermead Behavioral Memory Test (RBMT-3) and their subsequent influence on occupational performance in ADL (pADL) in patients after brain damage. The partial objective was to determine whether self-sufficiency in ADL can be predicted from RBMT-3 results. The last partial goal was to create a working version of the RBMT-3 and translate it from the original English version.

Methods: The research group consisted of 40 probands (22 males and 18 females) after brain damage. For data collection, the Rivermead Behavioral Memory Test (RBMT-3) for assessing the memory function level was used. FIM (version 5.2) was used for evaluating the level of occupational performance in ADL (pADL). Hypothesis verification was performed by correlation analysis and corrected Spearman's correlation coefficient and *p-values*. For this pre-research, the level of significance $\alpha_1 < 0.05$ and $\alpha_2 < 0.01$ was chosen.

Results: The pre-research did not confirm the dependence between the RBMT-3 memory level and the level of self-sufficiency measured by FIM. The *P value* ($p = 0.526$) from the test of the two parameters was higher than the chosen significance level ($0.526 > 0.05$). The predictive validity of RBMT-3 has also not been demonstrated, a higher *p value* than the chosen significance level was found.

Conclusion: The pre-research did not confirm the direct relationship between the memory function level and the level of self-sufficiency. The pre-research did not confirm the predictive validity of RBMT-3. For occupational therapists, however, it is necessary to examine the relationship between the level of memory functions and self-sufficiency. Memory impairments can affect varying degrees of day-to-day performance, whether personal or instrumental.

Key words: brain damage, memory impairment, personal ADL, FIM, RBMT-3