

## **ABSTRACT**

**Title:** Inter-rater Reliability of the Purdue Pegboard Test in Adults after a Stroke

**Abstract:**

The Purdue Pegboard Test (PPT) is a standardized tool which evaluates fine motor skills, finger and hand dexterity. This test is used to assess and evaluate not only neurological patients. The official Czech translation of the manual has not been available in the Czech Republic yet.

To unify the administration of PPT, a new Czech extended version of the manual for PPT: Model 32020A was created. It includes new evaluation rules, unification of scoring and interpretation of tested individuals' performance and also provides exact instructions for administration of recommended three trials of each subtest.

The main aim of this study was to determine inter-rater reliability of the PPT administered according to new Czech extended manual version. Therefore, 31 Czech-speaking adult patients after a stroke were tested by PPT at the Rehabilitation Center Kladruby. The evaluation of these patients, based on the analysis of the video documentation obtained from their testing, was performed by two independent occupational therapists.

Data from the results of both evaluators were analyzed using Spearman's correlation coefficient. The correlation coefficient ranged from 0,967 to 1,000 for all subtests which is considered a very high correlation, except for Both hand subtest when a value of 0,895 is considered a high correlation.

The results indicate that two raters agree on the way they administer and score the performance of patients after a stroke, when using the new Czech extended version of the manual for PPT. Thus, confirms the high inter-rater reliability of PPT administered according to the new manual.

**Key words:** Purdue Pegboard Test, standardized test, reliability, stroke, occupational therapy