

Evaluation of Jebsen Taylor Hand Function Test in an Italian population with Parkinson disease

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Objective: The purpose of this study was to evaluate and validate the Italian version of the Jebsen Taylor Hand Function Test (JTHFT) in Italian people with Parkinson's Disease (PD) [1-3].

Methods: The test's reliability and validity were assessed by following international guidelines. Its internal consistency was evaluated with Cronbach's alpha, and intra-rater reliability was examined using the intraclass correlation coefficient. Its concurrent validity was evaluated using Pearson's correlation coefficient with the HAQ scale. It evaluated a cross-cultural validity between dominant hand and age, H&Y, diagnosis' years, gender, dyskinesia, motor fluctuation.

Results: The test was administered to 29 Italian people with PD. Cronbach's alpha (α) reported 0,59 for the non-dominant hand and 0,69 for the dominant hand. The test-retest analysis showed that the instrument is stable with ICC values between 0,754 and 0,988. Pearson's correlation coefficient showed significant correlations between JTHFT and HAQ. Finally, for PD's population, Pearson correlation showed statistically significant correlations between "handwriting" "hand turning pages" items of the JTHFT with age [3-5].

Conclusions: Jebsen Taylor Hand Function Test is a reliable tool to evaluate the upper limb and hand functionalities in PD patients [6].

References:

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