Abstract

Background: Motor Activity Log (MAL) a structured interview for stroke patients to assess the use of their paretic arm. MAL was translated and validated in Spanish. Objective: Examine the reliability and construct validity between MAL, Action Research Arm (ARA), age, pain and Stroke Impact Scale 3.0 (SIS). Methods: 40 patients from the Public Health System were evaluated. The first measurement in which clinical and socio demographic background, MAL-30 and ARA were applied. A month later; the second measurement was applied using MAL-30, ARA, and SIS 3.0. Outcome measures: The reliability was evaluated, as the internal consistency for scores of quantity and quality of movement, as well as for scores of ARA and hand function subscale SIS 3.0. The degree of agreement MAL scales, assessed through the Pearson r. Construct validity assessed by correlating scores of the first and second measurement of quantity and quality of MAL, ARA, age, pain and spasticity. As well as between the scores of the second measurement of MAL and hand function of SIS 3.0, using the Pearson r and Spearman rho. Results: The quantity and quality scores of MAL-30 showed adequate levels of both internal consistency and temporal stability. In addition to an appropriate construct validity by correlating, significantly and in the expected direction, with ARA and the hand function, as well as with age, pain and spasticity. Conclusions: The evidence indicates that MAL-30 is a reliable and valid instrument to evaluate the use of the paretic arm in Spanish language patients.

Keywords
Upper extremity, stroke, functional evaluation.