Quantitative assessment of handedness is required in various clinical and research settings in psychology, neuroscience, and medicine. In the present study we tested the reliability and validity of a Japanese version of the FLANDERS handedness questionnaire, which was a new measure of skilled hand preference originally reported by Nicholls, Thomas, Loetscher, and Grimshaw (2013). Participants (N = 431) completed three types of handedness questionnaires: the FLANDERS handedness questionnaire, Edinburgh Handedness Inventory, and H・N handedness test. Factor analysis revealed that the Japanese version of FLANDERS handedness questionnaire had a single-factor structure and high internal consistency. This questionnaire also possessed high test-retest reliability and criterion-referenced validity. These results indicated that the Japanese version of the FLANDERS handedness questionnaire is a valid and useful measure of skilled hand preference for Japanese participants.

Keywords: Handedness, laterality, handedness questionnaire, left-handed, right-handed, mixed-handed.

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