

## 研究業績 英文表記

和文	
表題	急性期脳血管障害患者の麻痺側上肢における手指感覚回復のための効果的訓練
著者名	梅木奈穂, 村田 潤, 東嶋美佐子
所属	長崎大学
英文	
Title	Effects of Training for Finger Perception on Functional Recovery of Hemiplegic Upper Limbs in Acute Stroke Patients
Author	Naho Umeki, Jun Murata , and Misako Higashijima
Affiliation	Department of Physical and Occupational Therapy, Graduate School of Biomedical Sciences, Nagasaki University
Abstract	<p>Background. Stroke causes severe disability, including motor and sensory impairments. We hypothesized that upper limb functional recovery after stroke may be augmented by combining treatments for motor and sensory functions. In order to examine this hypothesis, we conducted a controlled trial on rehabilitation for sensory function to the plegic hand.</p> <p>Methods. The sensory training program consisted of several types of discrimination tasks performed under blind conditions. The sensory training program was performed for 20 min per day, 5 days a week. An experimental group of 31 patients followed this sensory program, while a control group of 25 patients underwent standard rehabilitation. The efficacy of the intervention was evaluated by the tactile-pressure threshold, handgrip strength, and the completion time of manipulating objects. A two-way repeated measures analysis of variance was used to assess interactions between group and time. Moreover, to provide a meaningful analysis for comparisons, effect sizes were calculated using Cohen's d.</p> <p>Results. The mean change in the tactile pressure threshold was significantly larger in the experimental group than in the control group (<math>p &lt; 0.05</math>, <math>d = 0.59</math>). Moreover, the completion times to manipulate a middle-sized ball (<math>d = 0.53</math>) and small ball (<math>d = 0.80</math>) and a small metal disc (<math>d = 0.81</math>) in the experimental group were significantly different from those in the control group (<math>p &lt; 0.05</math>).</p> <p>Conclusion. The present results suggest that the sensory training program to enhance finger discrimination ability contributes to improvements in not only sensory function but also manual function in stroke patients. The trial is registered with the UMIN Clinical Trials Registry (UMIN000032025).</p>
keyword	Acute Stroke Patient, Hemiplegic Upper Limbs, Finger Perception

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