

研究業績 英文表記

和文	
表題	箸を使用した食事動作の運動イメージ中の脳血流動態:利き手と非利き手の違い
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英文	
Title	Cerebral haemodynamics during motor imagery of self-feeding with chopsticks: differences between dominant and non-dominant hand
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Abstract	<p>Purpose: Motor imagery is defined as a dynamic state during which a subject mentally simulates a given action without overt movements. Our aim was to use near-infrared spectroscopy to investigate differences in cerebral haemodynamics during motor imagery of self-feeding with chopsticks using the dominant or non-dominant hand. Materials and methods: Twenty healthy right-handed people participated in this study. The motor imagery task involved eating sliced cucumber pickles using chopsticks with the dominant (right) or non-dominant (left) hand. Activation of regions of interest (pre-supplementary motor area, supplementary motor area, pre-motor area, pre-frontal cortex, and sensorimotor cortex) was assessed. Results: Motor imagery vividness of the dominant hand tended to be significantly higher than that of the non-dominant hand. The time of peak oxygenated haemoglobin was significantly earlier in the right pre-frontal cortex than in the supplementary motor area and left pre-motor area. Haemodynamic correlations were detected in more regions of interest during dominant-hand motor imagery than during non-dominant-hand motor imagery. Conclusions: Haemodynamics might be affected by differences in motor imagery vividness caused by variations in motor manipulation.</p>
keyword	Imagery (psychotherapy), haemodynamics; motor cortex, spectroscopy nearinfrared, rehabilitation, mental practice

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