研究業績　英文表記

和文	
表題	脳波信号を用いた注意課題パフォーマンスの解読
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英文	
Title	Decoding Attentional Task Performance Using Electroencephalogram Signals
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Abstract	**Background:** Electroencephalogram patterns help in evaluating the extent of ischemic brain injury and predicting functional performance. **Aim:** To determine a possible correlation between attentional task performance and electroencephalogram waves. **Methods:** The cerebral activity of 12 healthy young adults was investigated using an electroencephalogram while they underwent the Trail-Making Test-A and B as attentional tasks. **Results:** A significant correlation was observed between a stronger occipital delta power during rest and higher error rates, as well as weaker temporal and central delta power during the Trail-Making Test-B and longer task completion times. Delta waves during both the resting-state and task conditions correlated with task performance, which might be affected by the induced cerebral lobes. **Conclusion:** The default mode network might predict attention deficits. Our findings further our understanding of the correlation between the default mode network and attentional task performance.
keyword	Attentional function; Brain function; Brain injury; Electroencephalography; Neuroimaging

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