A Study on regional cerebral blood flow during contingent negative varidtion in Schizophrenics.

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A Study on regional cerebral blood flow during contingent negative varidtion in Schizophrenics.

Research Project

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05670803

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Allocation Type

Single-year Grants

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Psychiatric science

Research Institution

Kanazawa University

Principal Investigator

JIBIKI Itsuki Kanazawa University, Faculty of Medicine, Department of Neuropsychiatry, Associated Professor, 医学部・神経精神医学, 助教授 (60110532)

Co-Investigator(Kenkyū-buntansha)

TSUJI Shirou Hospital of Kanazawa University School of Medicine, Assistant, 医学部・付属病院・核医学, 助手 (70227388)

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regional cerebral blood flow / contingent negative variation / eventrelated potential / SPECT / Schizophrenic

Research Abstract

To study the generation mechanism of the contingent negative variation (CNV) , CNV and regional cerebral flow (rCBF) measured by SPECT were simultaneously recorded in 10 normal male subjects. Three days after or before the simultaneous recording, resting rCBF was measured. Both the

early and late components of CNV were analyzed in 12 EEG recording sites. The relative rCBF values and absolute rCBF values were analyzed in 32 regions of interest (ROIs) . The rCBF during CNV recording showed no significant changes in any of ROIs compared with rCBF.However, the early CNV components in F4 significantly correlated with r CBF in right middle frontal gyrus and orbitofrontal cortex. And, the late CNV components in Cz and C3 significantly correlated with rCBF in the left thalamus. These results suggest that the frontal cortex and the left thalamus play an important in the generation of CNV.

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