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BRAIN ELECTRICAL ACTIVITY RECORDING IN SOME ELECTROMAGNETIC ENVIRONMENTS

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Abstract

The impact of electromagnetic environment on the nervous system is a subject for many research papers. Electromagnetic fields (EMFs) interfere with the electrical signals that govern the body and may influence the response of the body at specific stimuli. The aim of this study is to identify the electroencephalographic (EEG) and visual evoked potential (VEP) signal modifications in two conditions: in a normal environment of the usual medical examination room and in a shielded room specially build for biomedical investigation. For these two electromagnetic environmental conditions, the standard 8 leads EEG signal and the response of the central nervous system (CNS) to the visual stimuli (visual evoked potential-VEP) were recorded, analyzed and compared.

Key words: brain electrical activity, electromagnetic environment, Visual Evoked Potentials (VEP)

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