PRELIMINARY COMMUNICATION

ELECTROCONVULSIONS ELEVATE THE LEVELS OF LIPID PEROXIDATION PRODUCTS IN MICE

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The objective of this study was to determine whether electroconvulsions lead to excessive lipid peroxidation. The concentrations of the conjugated dienes (CD) and malonyl dialdehyde (MDA) in the homogenates of the brains after seizures induced with 25 mA current (MES) measured immediately after seizures were significantly higher in comparison with the control brains. There were no significant differences between control group and animals treated with multiple MES. Significant rise in CD concentrations was also observed at 1 h following MES. The results indicate that electroconvulsions may lead to the increased formation of lipid peroxidation products.

Key words: mice, electroconvulsions, lipid peroxidation, seizures

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