

Abstract in English

Psychophysiological Indicators for Child Users of Mobile Communication. Message 1: Present State of the Problem

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An overview of the epidemiological and experimental evidence for exposure of humans and animals to electromagnetic radiation produced by mobile phones is provided. The effects of mobile phone radiation on the child's body are considered in detail. It has been shown that the children's organism is more sensitive to this kind of exposure than the adult one.

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Psychophysiological Indicators for Child Users of Mobile Communication. Message 2: Results of Four-year Monitoring

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This study submits the results of a four-year monitoring of a complex diagnostics of the psychophysiological indicators for 196 children aged 7 to 12 years old: 147 of them are child users of mobile communication (test group) and 49 are in the control group. We have identified the following major trends of the psychophysiological indicators for child users of mobile communication: an increased number of phonemic perception disorders, abatement of efficiency, reduced indicators for the arbitrary and semantic memory, an increased fatigue. A steady decline of the parameters from high values to bottom standards has been found.

Radiation Biology. RADIOECOLOGY, . 2011, V. 51, № 5, P.617-623

**The Probability of Developing Brain Tumours among Users of Cellular Telephones
(Scientific Information to the Decision of the International Agency for Research
on Cancer (IARC) Announced on May 31, 2011)**

Yu. G. Grigoriev

The WHO's International Agency for Research on Cancer (IARC) has made May 31 2011 PRESS RELEASE № 208 which classifies radiofrequency electromagnetic fields as possibly carcinogenic to humans (Group 2B). The decision is based on an increased risk of glioma, i.e., a malignant type of brain cancer associated with the wireless phone use. This paper reports the analysis of the long-term research on the issue in question that had been carried out in many countries around the world before the decision was made.

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New Data for Proving the Presence of Significant Effects of Electromagnetic Exposure

(To Autoimmune Changes in Rats)

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The study using statistical analysis methods and the generalized logarithmic parameter describing the change in the condition of biological systems represents additional substantiations and proofs of the presence of the expressed amplification of the immune reaction in experimental animals after a long exposure to EMF RF non-thermal intensity with a power density of 500 $\mu\text{W}/\text{cm}^2$. A substantial growth of titers of antibodies to the brain tissue on the 14th day and to a number of other antigens on the 7th and 14th days after irradiation is shown with high reliability of 99.9%. It is shown that EMF RF exposure to non-thermal intensity within 30 day causes transition of an organism to an active adaptation described by an amplified strengthening of intensity of the regulation systems of the organism.

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