30 Years of Cellular and Health Populations (There is a Realization, Forecast of Dangerous, Recommendations)

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Short Communication

At present, man-made electromagnetic pollution of the environment. It has increased by exposure cellular base stations.

The greatest danger for all populations is cell phones (CPh). It is an open source of electromagnetic radiation that has no protection available for all groups of the population do not have any restrictions and when there is local EMF irradiation exposure of the brain of the user.

Domestic and foreign results allow us to conclude about the possible adverse effects of RF EMF on health by CPh. EMF RF exposure of low level can cause infringements of function of a brain [1,2] (including convulsive syndrome [3,4]. We agree with the decision of the International Agency for Research on Cancer (IARC), WHO allocation EMI CPh in group 2B as a promoter of brain cancer and Hardell’s results [5].

Children have to stand in a special risk group, because using CPh brain child doubles as the absorbed dose and the irradiated volume of the brain. The brain of children is under development. The potential risk to children’s health is very high. It’s very important WHO publication: “CHILDREN ARE DIFFERENT FROM ADULTS. Children have a unique vulnerability. As they grow and develop, there are “windows of susceptibility”: periods when their organs and systems maybe particularly sensitive to the effect of certain environmental threats”. WHO, Backgrounder N.

Modern children will use mobile phones for longer periods than adults of the present generation because they started to use mobile phones at an early age and will continue use them when they became adults.

We have our own experience of long-term observation of children who are CPh users. In 2006, we began long-term physiological studies of children of primary school who are MP users [6].

It should be noted that in these studies, apart from the main group in which children use CPh, was formed a control group whose children did not have MP and did not use them. The study was performed at the Lyceum, Moscow.

Complex diagnostics of neurodynamic characteristics of children included psychophysiological indicators, assessment of neuropsychological status and level of language development, as well as analysis of anamnestic and biographical data.

The following functional changes (preliminary results) in CPh users have obtained:

- Fatigue (39.7%)
- Reduced ability to work in school and at home (50.7%)
- Decrease the stability of voluntary attention (production—14.3%, accuracy 19.4%)
- Weakening of semantic memory (accuracy—19.4%, increasing the time—30.1%)—change the speed auditory-motor reaction (55.5%)
- Violation of phonemic perception (all children-users)
- Similar results were obtained in India for the study of audition, but for the adult users of the MP [7].

RNCNIRP (April, 2008) made already the third decision on possible danger EMF RF for children "CHILDREN AND MOBILE PHONES: THE HEALTH OF THE FOLLOWING GENERATIONS IS IN DANGER". In this decision it has been paid attention of scientific community, Ministry of Health, that for the first time in history, we face a situation when most children and teenagers in the world are continuously exposed to the potentially adverse influence of the electromagnetic fields (EMF) from mobile phones. Children and teenagers became the target group for the marketing the mobile communications.

The WHO considers the protection of the children’s health from possible negative influence of the EMF of the mobile phones as a highest priority task. This problem has also been confirmed by the Scientific Committee of the European Commission. The potential risk for the children’s health is very high [8].

The existing standards have become outdated, do not correspond of real conditions and require reconsideration. In 2009 year the European parliament has required reconsideration of the standards: item 22 “Standards/limits of influence of electromagnetic fields (EMF), which are intended for the population, have become outdated”.

In our opinion, there is enough evidence to inform the public about the health hazards of CPh users and introduce the concept of “voluntary risk”, the principle of self-selection of the type of communication by the population with the maximum reduction of electromagnetic load on the user’s brain CPh.

References


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