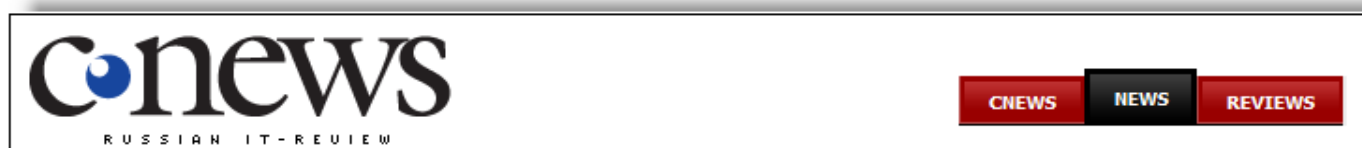




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Telecom Security

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Handsets pose danger for children

Handsets pose danger for children and teen-agers, state experts of the Russian National Committee on Non-Ionizing Radiation Protection having carried out experiments with animals of different age. The oncoming generation is recommended to reduce communication through handsets, as their nerves might be badly injured.

The Russian National Committee on Non-Ionizing Radiation Protection (RNCNIRP) has expressed its opinion regarding the possible influence of handset electromagnetic field on children and teen-ages. The experiments, consultations and discussions held led to the resolution 'Children and handsets: future generations' health is under threat'. The given resolution comprises opinions of leading Russian scientists in hygiene and radiobiology of Non-Ionizing Radiation. The given resolution is based on modern scientific knowledge and fundamental submission generated in many years of research into the influence of electromagnetic fields on human health.



Mobile phone communication might badly injure children's and teen-agers' nerves

Oleg Grigoriev, director of the Center for Electromagnetic Safety and RNCNIRP deputy chairman, told CNews the mentioned above resolution was, in particular, based on the analysis of experiments held on animals of different age, principally rats and their embryos. The experiments proved the influence of electromagnetic radiation on developing organisms was strong. **An electromagnetic field is an important biotropic factor that influences not only health but higher nervous activity including human behavior and mentality. When using a handset its electromagnetic field is influencing the user's brain.**

Although Sanitary rules and regulations recommend limiting handset usage by those under 18 (Sanitary norms and regulations 2.1.8/2.2.4.1190-03, item 6.9), **children and teen-agers have become the targeted**

marketing group for the mobile communication market, RNCNIRP experts say. The existing safety standards for handsets have been developed for adolescents regardless infant organism peculiarities.

Possible threat to human health is very high. One should not forget the electromagnetic field influences formation of higher nervous activity, while electromagnetic absorption in the head of a child is much higher as compared to adolescents (children's cerebral tissue is of higher conductivity, the head size is smaller, cranial bones are thinner, etc.). The children's organism is more sensitive to electromagnetic fields than that of adolescents; the children's brain has the peculiar propensity to accumulation of adverse reactions in case of re-irradiation.

Specialists assert modern children are using handsets since early age and continue using them having grown, so the period of contact with electromagnetic radiation is longer as compared to adolescents. According to RNCNIRP specialists, children using handsets are prone to the following disorders: weakening memory, decline of attention, reduction of mental and cognitive capacity, irritation, sleep

violation, increasing epileptic possibility. The other possible far-standing consequences are brain, auditory and vestibular nerve tumor (at the age of 25-30), Alzheimer's disease, 'acquired dementia', depressive syndrome and other forms of neuronal degeneration of brain structures (at the age of 50-60). According to Oleg Grigoriev, the given forecasts are based on the data analysis received and long scientific debates.

'Children using handsets are not able to understand that their brain and health are exposed to the electromagnetic field and risk, respectively, - the committee report reads. - The given risk is not inferior to the influence of tobacco and alcohol. Our duty is not to damage children's health - our future - doing nothing'.

RNCNIRP has already sent its resolution to **Gennady Onishenko**, chief sanitary doctor of Russia, requesting him to introduce a warning system about the electromagnetic threat to the children's health when using handsets.

'The simplest solution is to put brochures telling about the mentioned above problems into boxes with handsets, - believes Oleg Grigoriev. - Such practices are wide spread in Great Britain, for example. Parents should be informed about [the influence of the electromagnetic field on their children's health](#). One can also tell his child about the dangers related to handsets'.

Oleg Grigoriev reports till the end of May 2008 RNCNIRP intends to work out certain recommendations for handset usage by children and teen-ages under 18. 'The first recommendation is to limit children's communication through handsets but for cases of emergency', - says Mr. Grigoriev. He recollects the main recommendations for adolescents: not to talk more than 15 minutes on the handset, the ratio of the length of talk to resting before the next talk should be 1:5, which means having talked for one minute, one has to abstain from further calls for five minutes; when sleeping the handset should be 1 meter away from your head, or switched off, [Bluetooth](#) should be used