November 2008

Details


‘...Through experimental measurement we deduce that these fields can be sufficiently simulated by a 9 mm radius loop residing 10 mm beneath the front surface of the handset device and carrying enough current to generate peak fields of 25 microT at the surface of the handset.’


‘...Pooled analysis did not exhibit statistically significant EMF-dependent sleep parameters, neither on total RF-EMF immissions nor on base station signals. Volunteer-specific analysis mostly did not show any significant effect on sleep parameters...’

**Austria:** The Controversy about a Possible Relationship between Mobile Phone Use and Cancer, *Kundi, Environmental Health Perspectives*, Online 26 September 2008.

‘...The overall evidence speaks in favor of an increased risk, but its magnitude cannot be assessed at present due to insufficient information on long-term use.’

**Denmark:** An evaluation of exposure metrics in an epidemiologic study on radio and television broadcast transmitters and the risk of childhood leukemia, *Schmiedel et al.*, *Bioelectromagnetics*, Published Online: 21 Nov 2008.

‘...Thus, calculated RF-EMF is confirmed to be an appropriate exposure metric in large-scale epidemiological studies on broadcast transmitters.’

**Germany:** Mobile phone base stations and adverse health effects: Phase 1: A population-based cross-sectional study in Germany, *Blettner et al.*, *Occupational and Environmental Medicine*, Published Online: 18 November 2008.

‘...A substantial proportion of the German population is concerned about adverse health effects caused by exposure from mobile phone base stations. The observed slightly higher prevalence of health complaints near base stations can however not be fully explained by attributions or concerns.’

"...Due to the current state of knowledge about the impact of mobile phone use on health, we assume, that HF-EMF are harmless both for healthy people and patients with cochlea implants, provided that legal thresholds are observed."


"...Considering the large changes described in published experiments, it is questionable if the small alterations caused by a 24 h continuous microwave exposure would have any impact on the growth and reproduction of whole plants."

**Germany:** Exposure to mobile telecommunication networks assessed using personal dosimetry and well-being in children and adolescents: the German MobilEe-study, Thomas et al., *Environmental Health*, 7(1):54, Published: 4 November 2008.

"...In total, personal dosimetry was proofed to be a well accepted tool to study exposure to mobile phone frequencies in epidemiologic studies including health effects on children and adolescents."

**Global:** Brain tumor epidemiology: Consensus from the Brain Tumor Epidemiology Consortium, Bondy et al., *Cancer*, 113(S7):1953-1968, 1 October 2008.

"...These [INTERPHONE] results, which overall do not identify increased risks for malignant or nonmalignant tumors in most studies, suggest in some studies a non-significant increase in the risk associated with longer duration of use or longer follow-up. Publication of the combined results on cell phone use related to the risk for these tumors, ie, the INTERPHONE study, will be forthcoming..."

**Italy:** Cognitive effects of radiation emitted by cellular phones: The influence of exposure side and time, Luria et al., *Bioelectromagnetics*, Published Online: 17 Nov 2008.

"...These results confirmed the existence of an effect of exposure on RT, as well as the fact that exposure duration (together with the responding hand and the side of exposure) may play an important role in producing detectable RFR effects on performance..."


"...In conclusion, our results show no effect of in vivo exposure to GSM-modulated RF fields on the ability of bone marrow precursor cells to home and colonize lymphoid organs and differentiate in phenotypically and functionally mature T and B lymphocytes."

**Japan:** Effects of gestational exposure to 1.95-GHz W-CDMA signals for IMT-2000 cellular phones: Lack of embryotoxicity and teratogenicity in rats, Ogawa et al., *Bioelectromagnetics*, Published Online: 17 Nov 2008.

"...No adverse effects of EMF exposure were observed on any reproductive and embryotoxic parameters such as number of live..., dead or resorbed embryos, placental weights, sex ratios, weights or external, visceral or skeletal abnormalities of live fetuses."
**Japan:** Effect of Heterogeneity of Tissues on RF Energy Absorption in the Brain for Exposure Assessment in Epidemiological Studies on Mobile Phone Use and Brain Tumors, Varsier et al., *IEICE-Transactions on Communications*, E91-B(11):3792-3795, November 1, 2008.

‘...Our results proved a good correlation between SAR values in lobes of the brain where tumors may arise more frequently. However SAR values at some specific locations were shown to be under or overestimated.’


‘...The preponderance of published research works over several decades including some with over ten years of follow up have not demonstrated any significant increase in cancer among mobile phone users...’

**Serbia:** Melatonin Reduces Oxidative Stress Induced by Chronic Exposure of Microwave Radiation from Mobile Phones in Rat Brain, Sokolovic et al., *Journal of Radiation Research*, Release Date: September 29, 2008.

‘...We demonstrated two important findings; that mobile phones caused oxidative damage biochemically by increasing the levels of MDA, carbonyl groups, XO activity and decreasing CAT activity; and that treatment with the melatonin significantly prevented oxidative damage in the brain.’


‘...From these results, we could not find any evidence of the induction of cellular responses, including cell cycle distribution, DNA damage, stress response and gene expression, after 1763 MHz RF exposure at an SAR of 20 W/kg in HEI-OC1 auditory hair cells.’

**Spain:** FDTD assessment of human exposure to electromagnetic fields from WiFi and bluetooth devices in some operating situations, Martínez-Búrdalo et al., *Bioelectromagnetics*, Published Online: 20 Oct 2008.

‘...Results show that the exposure levels in worst-case situations studied are lower than those obtained when analyzing the exposure to mobile phones, as could be expected because of the low power of the signals and the distance between the human and the antennas...’


‘...In this study, no significant alteration of any these histopathological parameters was found, when comparing the GSM exposed animals to the sham exposed controls.’

**Sweden:** Mobile phone exposure and spatial memory, Wiholm et al., *Bioelectromagnetics*, Published Online: 15 September 2008.

‘...Results revealed a main effect of RF exposure and a significant RF exposure by group effect on distance traveled during the trials. The symptomatic group improved their performance during RF exposure while there was no such effect in the non-symptomatic group...’
**Sweden:** Use of wireless telephones and serum S100B levels: A descriptive cross-sectional study among healthy Swedish adults aged 18–65 years, Söderqvist et al., *Science of The Total Environment*, Available online 5 November 2008.

>'...This study failed to show that long- or short-term use of wireless telephones was associated with elevated levels of serum S100B as a marker of BBB [blood-brain-barrier] integrity...'

**Switzerland:** Source of funding and results of studies of health effects of mobile phone use: systematic review of experimental studies, Huss et al., *Ciência & Saúde Coletiva*, 13(3):1005-1012, 2008.

>'...Studies funded exclusively by industry reported the largest number of outcomes, but were least likely to report a statistically significant result. The interpretation of results from studies of health effects of radiofrequency radiation should take sponsorship into account.'

**UK:** Exposure to low level GSM 935 MHz radiofrequency fields does not induce apoptosis in proliferating or differentiated murine neuroblastoma cells, Moquet et al., *Radiation Protection Dosimetry*, Published Online: June 10, 2008.

>'...These data suggest that RF exposures, characteristic of GSM mobile phones, do not significantly affect the apoptosis levels in proliferating and differentiated murine neuroblastoma cell line N2A.'

**USA:** Cell phones: modern man's nemesis?, Makker et al., *Reproductive BioMedicine Online*, 18, Published Online: 3 November 2008.

>'...A novel study is described, which is looking at changes in semen parameters, oxidative stress markers and sperm DNA damage in semen samples exposed in vitro to cell phone radiation.'

The MMF is an international association of wireless communications manufacturers established to support scientific research in relation to mobile telephony and health [www.mmfai.info](http://www.mmfai.info)

The GSM Association (GSMA) is the global trade association that exists to promote, protect and enhance the interests of GSM mobile operators throughout the world. [http://www.gsmworld.com/health](http://www.gsmworld.com/health)

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