May 2008

Details


'...If adults are advised to minimise their exposure, this is even more justified for children. However, circular reasoning must be avoided: the uncertainty-triggered application of precaution must not be misinterpreted as evidence for definite risk.'

Belgium: Gene and Protein Expression Following Exposure to Radiofrequency Fields from Mobile Phones, Vanderstraeten et al., Environmental Health Perspectives, Online 13 May 2008.

'...to date, the results of HTST-based [high-throughput screening techniques] studies of transcriptomics and/or proteomics after exposure to RF fields relevant to human exposure are still inconclusive, most of the positive reports being flawed by methodological imperfections or shortcomings....'

Bulgaria: An investigation of the effects from the user’s hand and head over received level and adaptive power control of a GSM mobile phone in typical operating environment, Atanasov et al., The Environmentalist, 27(4):585-591, December 2007.

'...The presence of the user’s hand and head increased the output power level of mobile station with 12 dBm to 14 dBm (man) and with 10 dBm to 12 dBm (woman) compare to output power level without user’s hand and head.'


'...The long-term exposure to HF EMF did not significantly influence the ability to learn in the Morris water maze. However, significant lower swimming speed was found in the irradiated +/-Lc as well as lower motor activity of +/+ in the open field when compared to controls. No significant differences were found between HF EMF irradiated animals and controls in examination of the CNS excitability and motor functions.'

Denmark: Prenatal and Postnatal Exposure to Cell Phone Use and Behavioral Problems in Children, Divan et al., Epidemiology, Published Online: 13 May 2008.

'...Exposure to cell phones prenatally-and, to a lesser degree, postnatally-was associated with behavioral difficulties such as emotional and hyperactivity problems around the age of school entry. These associations may be noncausal and may be due to unmeasured confounding...'

'...The rate of subjects significantly affected is similar in all groups except for the 1000 Hz group: in first group 3 subjects (16%) at 7 Hz modulation; in second group 4 subjects (31%) at 14 Hz modulation and 3 subjects (23%) at 21 Hz modulation; in third group 3 subjects (20%) at 40 Hz and 2 subjects (13%) at 70 Hz modulation; in fourth group 3 subjects (16%) at 217 Hz and 0 subjects at 1000 Hz modulation frequency.'

India: Effect of mobile phone radiation on heart rate variability, Ahamed et al., Computers in Biology and Medicine, Available online 19 May 2008.

'...The result indicates an increase in both the parameters when MP [mobile phone] is kept close to the chest and a decrease when kept close to the head. MP has caused changes in HRV [heart rate variability] indices and the change varied with its position, but the changes cannot be considered significant as the p values are high.'

INTERPHONE: Recall bias in the assessment of exposure to mobile phones, Vrijheid et al., Journal of Exposure Science and Environmental Epidemiology, Published online 21 May 2008.

'...In conclusion, there was little evidence for differential recall errors overall or in recent time periods. However, apparent overestimation by cases in more distant time periods could cause positive bias in estimates of disease risk associated with mobile phone use.'


'...The SAR distribution appears to be fairly similar across phone models, between older and newer phones and between phones with different antenna types and positions.'


'...We conclude that, although the 1.95 GHz signal (UMTS modulated) does not exacerbate the yield of aberrant cells caused by ionizing radiation, the overall burden of X-ray-induced chromosomal damage per cell in first-mitosis lymphocytes may be enhanced at 2.0 W/kg SAR.'


'...Our data suggested the 30 min single exposure of 1.5 GHz RF-EMF at the brain average SARs of 9.5 W/kg for adult and 10.4 W/kg for juvenile, did not affect BCB function in rats under the experimental conditions.'


'...In all age groups there were significant linear trends with higher prevalence of involuntary childlessness with higher self-reported exposure to radiofrequency fields. However, the degree of exposure to radiofrequency radiation and the number of children were not associated. For self-reported
exposure both to high-frequency aerials and communication equipment there were significant linear trends with lower ratio of boys to girls at birth when the father reported a higher degree of radiofrequency electromagnetic exposure.'


'...data from real workplace are presented, focusing: spatial distribution of electromagnetic fields affecting worker's body, complex characteristics of the frequency content, workers activities/moving in the workplace...'

**Spain:** EEG bioeffects on cochlear deaf from cellular phones, Bardasano et al., The Environmentalist, 27(4):519-523, December 2007.

'...By correlating the spectra of frequencies of corresponding EEG records for the same brain areas, we have not observed significative differences for both groups...'

**Switzerland:** Effects of weak mobile phone - Electromagnetic fields (GSM, UMTS) on event related potentials and cognitive functions, Kleinlogel et al., Bioelectromagnetics, Published Online: 17 April 2008.

'...The results do not give any evidence for a deleterious effect of the EMF on normal healthy mobile phone users.'

**Switzerland:** Effects of weak mobile Phone - Electromagnetic fields (GSM, UMTS) on well-being and resting EEG, Kleinlogel et al., Bioelectromagnetics, Published Online: 22 April 2008.

'...Neither the UMTS- nor the GSM-EMF produced any significant changes in the measured parameters compared to sham exposure...'


'...The overall data indicated that (1) the difference between RF-radiation-exposed and sham-/unexposed controls as well as the effect size or standardized mean difference due to RF-radiation exposure was small with very few exceptions; (2) at certain RF radiation exposure conditions, there were statistically significant increases in genotoxicity for some end points; and (3) the mean indices for chromosomal aberrations and micronuclei in RF-radiation-exposed and sham-/unexposed controls were within the spontaneous levels reported in the historical database. Considerable evidence for publication bias was found in the meta-analysis.'

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

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. www.gsmworld.com

*Disclaimer:* The views expressed in the abstracts mentioned in this document are those of the authors and do not necessarily reflect the views of either the MMF or GSMA.

*If you are aware of an article published this month that isn’t mentioned here please email articles@mmfai.info*