July 2009

Details


‘...Our results indicated that tilts influence SAR more than rotations. SAR values obtained at both 900/1800 MHz for the HMPs were well below ICNIRP limits for the general public. The phones were compliant with both international and Australian standards.’

Austria: The relation between the specific absorption rate and electromagnetic field intensity for heterogeneous exposure conditions at mobile communications frequencies, Neubauer et al., Bioelectromagnetics, Published Online: 23 Jun 2009.

‘...Therefore, the results of this work indicate the need to extend the investigations to numerical simulations with additional human phantoms representing parts of the human population having different anatomy and morphology compared to the phantom used within the frame of this project...’

Finland: No effects of mobile phone electromagnetic field on auditory brainstem response, Kwon et al., Bioelectromagnetics, Published Online: 16 Jul 2009.

‘...ABR waveforms showed no significant differences due to exposure, suggesting that short-term exposure to mobile phone EMF did not affect the transmission of sensory stimuli...’

Germany: The association between socioeconomic status and exposure to mobile telecommunication networks in children and adolescents, Thomas et al., Bioelectromagnetics, Published Online: 13 Jul 2009.

‘...No association between SES and measured exposure to mobile telecommunication networks was seen for children or adolescents. Mobile phone use may differ between status groups with higher use among disadvantaged groups...’


‘...The results indicated that power densities at public access points varied from as low as 0.01 {micro}W m-2 to as high as 10 {micro}W m-2 for the frequency of 900 MHz. At a transmission frequency of 1800 MHz, the variation of power densities is from 0.01 to 100 {micro}W m-2...’
Global: Epidemiologic Evidence on Mobile Phones and Tumor Risk: A Review, Ahlbom et al., Epidemiology, Published Online: 10 July 2009.

'...Overall the studies published to date do not demonstrate an increased risk within approximately 10 years of use for any tumor of the brain or any other head tumor. Despite the methodologic shortcomings and the limited data on long latency and long-term use, the available data do not suggest a causal association between mobile phone use and fast-growing tumors such as malignant glioma in adults (at least for tumors with short induction periods). For slow-growing tumors such as meningioma and acoustic neuroma, as well as for glioma among long-term users, the absence of association reported thus far is less conclusive because the observation period has been too short.'


'...results of an international intercomparison of specific absorption rate (SAR) measurements made with actual wireless telephones, following a similar program involving standard dipole antennas and flat phantoms. This study involved 17 laboratories in 11 different countries...' 

India: Radio frequency electromagnetic radiation (RF-EMR) from GSM (0.9/1.8GHz) mobile phones induces oxidative stress and reduces sperm motility in rats, Mailankot et al., Clinics (Sao Paulo), 64(6):561-565, June 2009.

'...No significant difference was observed in total sperm count between controls and RF-EMR exposed groups. However, rats exposed to RF-EMR exhibited a significantly reduced percentage of motile sperm...' 

Italy: Effects of UMTS Cellular Phones on Human Hearing: Results of the European Project "EMFnEAR", Parazzini et al., Radiation Research, 172(2):244-251, August 2009.

'...It is concluded that UMTS short-term exposure at the maximum output of consumer mobile phones does not cause measurable immediate effects on the human auditory system.'


'...dark neurons, assessed using hematoxylin and eosin staining, were rarely present, with no statistically significant difference between exposed and sham-exposed animals. This study thus failed to confirm the results of Salford et al.'

South Africa: Low-intensity microwave irradiation does not substantially alter gene expression in late larval and adult Caenorhabditis elegans, Dawe et al., Bioelectromagnetics, Published Online: 16 Jun 2009.

'..We conclude that the pattern of gene expression in L4/adult C. elegans is substantially unaffected by low-intensity microwave radiation; the minor changes observed in this study could well be false positives...' 

South Korea: Hypersensitivity to RF fields emitted from CDMA cellular phones: A provocation study, Nam et al., Bioelectromagnetics, Published Online: 23 Jun 2009.

'...RF exposure did not have any effects on physiological parameters or subjective symptoms in either group. As for EMF perception, there was no evidence that the EHS group better perceived EMF than the non-EHS group.'

‘...In a complex electromagnetic environment, knowledge of the radiofrequency spectrum is essential in order to quantify the contribution of each type of emission to the public's exposure...’


‘...Overall highest OR for mobile phone use was found in subjects with first use at age <20 years, OR=5.0, 95% CI 1.5-16 whereas no association was found for cordless phone in that group, but based on only one exposed case...’


‘...Current studies provide evidence of reporting bias insofar as cases appear to over-report the side of the head where the tumour occurred as the one that they preferred in the past when using mobile phones...’


‘...whole-body absorption generally determines the maximum permissible antenna output power for collinear array antennas. Local exposure depends on various effects that fluctuate strongly among individuals...’


‘...No significant difference in pyramidal cell number of total Cornu Ammonis (CA) sectors of hippocampus was found between the control and the mobile phone exposed groups...’

UK: FDTD Calculations Of SAR For Child Voxel Models In Different Postures Between 10 MHz And 3 GHz, Findlay et al., *Radiation Protection Dosimetry*, ncp118, Published online: July 9, 2009.

‘...These showed that, under certain worst-case exposure conditions, the reference levels may not be conservative.'

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. http://www.gsmworld.com/health

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