



Recent scientific publications relevant to mobile telephony

March 2009

Details

Australia: Mobile phones and brain tumours: a review of epidemiological research, [Croft et al., Australas Phys Eng Sci Med](#), Dec 31(4):255-67, 2008.

'...Although there have been individual reports of associations between MP-use and tumours, this research is not consistent and on balance does not provide evidence of an association. There are reports of small associations between MP-use ipsilateral to the tumour for greater than 10 years, for both acoustic neuroma and glioma, but the present paper argues that these are especially prone to confounding by recall bias. The reported associations are in need of replication with methods designed to minimise such bias before they can be treated as more than suggestive.'

Austria: Genotoxic effects of radiofrequency electromagnetic fields, [Ruediger, Pathophysiology](#), Available online 13 March 2009.

'...Taking altogether there is ample evidence that RF-EMF can alter the genetic material of exposed cells in vivo and in vitro and in more than one way...'

Austria: Mobile phone base stations—Effects on wellbeing and health [Kundi et al., Pathophysiology](#), Available online 4 March 2009.

'...It cannot be accepted that studying base stations is postponed until there is firm evidence for mobile phones.'

Germany: Blood laboratory findings in patients suffering from self-perceived electromagnetic hypersensitivity (EHS), [Dahmen et al., Bioelectromagnetics](#), Published Online: 3 Mar 2009.

'...Clinically it is recommended to check for signs of treatable somatic conditions when caring for individuals suffering from self-proclaimed EHS.'

Italy: Acute mobile phones exposure affects frontal cortex hemodynamics as evidenced by functional near-infrared spectroscopy, [Curcio et al., Journal of Cerebral Blood Flow & Metabolism](#), Advance Online Publication: 25 February 2009.

'...Given the short-term effects observed in this study, the results should be confirmed on a larger sample size and using a multichannel instrument that allows the investigation of a wider portion of the frontal cortex.'

Italy: No effects of UMTS exposure on the function of rat outer hair cells, [Galloni et al., Bioelectromagnetics](#), Published Online: 25 Feb 2009.

'...The analysis of the data shows that no statistically significant differences were found between the audiological signals recorded from the different experimental groups...'

Turkey: 900 MHz electromagnetic field exposure affects qualitative and quantitative features of hippocampal pyramidal cells in the adult female rat [Bas et al., Brain Research](#), Available online 20 February 2009.

'... These results may encourage researchers to evaluate the chronic effects of 900 MHz EMF on teenagers' brains.'

Saudi Arabia: Adverse Effects of Excessive Mobile Phone Use, [Khan, International Journal of Occupational Medicine and Environmental Health](#), 21(4):289-293, 2008.

'...The findings of the present study indicate that mobile phones play a large part in the daily life of medical students. Therefore, its impact on psychology and health should be discussed among the students to prevent the harmful effects of mobile phone use.'

Sweden: Epidemiological evidence for an association between use of wireless phones and tumor diseases, [Hardell et al., Pathophysiology](#), Available online 5 March 2009.

'... We conclude that current standard for exposure to microwaves during mobile phone use is not safe for long-term exposure and needs to be revised.'

UK: Risk of pituitary tumors in cellular phone users: A case-control study, [Schoemaker et al., Epidemiology](#), Published Online: 9 March 2009.

'... Tumor risk was not associated with cellular phone use overall...and was not appreciably increased 10 or more years after first use...or after 10 or more years of cumulative use... We found no evidence that the risk of developing pituitary tumors is associated with cellular phone use for the induction time periods and intensities of use observed.'

USA: Long-term exposure to magnetic fields and the risks of Alzheimer's disease and breast cancer: Further biological research, [Davanipour et al., Pathophysiology](#), Available online 13 March 2009.

'...It is important to mitigate ELF and RF MF exposures through equipment design changes and environmental placement of electrical equipment, e.g., AC/DC transformers....'

USA: Electromagnetic fields stress living cells, [Blank et al., Pathophysiology](#), Available online 5 March 2009.

'...It is clear that in order to protect living cells, EMF safety limits must be changed from the current thermal standard, based on energy, to one based on biological responses that occur long before the threshold for thermal changes.'

USA: Cell phone radiation: Evidence from ELF and RF studies supporting more inclusive risk identification and assessment, [Blackman, Pathophysiology](#), Available online 4 March 2009.

'...This paper will review some of the salient evidence that demonstrates the existence of NTE and the exposure complexities that must be considered and understood to provide appropriate, more thorough evaluation and guidance for future studies and for assessment of potential health consequences...'

USA: Public health implications of wireless technologies, [Sage et al., Pathophysiology](#), Available online 14 March 2009.

'...Regardless of whether or not the associations are causal, the strengths of the associations are sufficiently strong that in the opinion of the authors, taking action to reduce exposures is imperative, especially for the fetus and children...'

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>

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