September 2005

Summary


Details

**Finland**: Comparison of radio frequency energy absorption in ear and eye region of children and adults at 900, 1800 and 2450 MHz, *Keshvari and Lang, Physics in Medicine and Biology*, 50(18):4355-4369, 21 September 2005.

‘... the SAR difference between adults and children is more likely caused by the general differences in the head anatomy and geometry of the individuals rather than age…’


‘...High levels of concern by the public have urged mobile phone operators, manufacturers and governmental authorities to finance a number of scientific projects aimed at defining adapted and effective regulations.’

'...The SAR over 1 g in specific tissue is assessed in different children's head models based on magnetic resonance imaging (MRI) and on non-uniformly down-scaled adult heads...'


'...We did not find any evidence of RF-field-induced disturbance of the function of the BBB...'

Germany: Electromagnetic fields (GSM 1800) do not alter blood-brain barrier permeability to sucrose in models in vitro with high barrier tightness, Franke et al, Bioelectromagnetics, 26(7):529-535

'...We thus could not confirm enhanced permeability of the BBB in vitro after EMF exposure as reported before since the in vitro barrier tightness in these experiments is now more like that of the in vivo situation.'

Germany/WHO: Mobile phone use and exposures in children, Schüz, Bioelectromagnetics, 26(S7):S45-S50.

'...As long as adverse health effects cannot be ruled out with some degree of certainty, it appears to be appropriate to instruct children and their parents about a prudent use of MPs.'


'...The prolonged use of cell phones may have negative effects on the sperm motility characteristics.'


'...Statistical analysis of the data showed that 10 min of EMF exposure at the maximum power (2 W at 900 MHz or 1 W at 1800 MHz) does not induce any changes in either DPOAE generation mechanism.'


'...subgridding is important only when both the numerical resolution of the computational grid and the spatial resolution of the model are increased together.'

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