

EFFECT OF MOBILE PHONE RADIATION AT 940MHZ ELECTROMAGNETIC FIELD ON BLOOD BRAIN BARRIER

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The health effects of cell phone radiation exposure are a growing public concern. The aim of this study was to investigate the effects of mobile phone exposure at 940 MHz frequency magnetic field on brain tissue. study carried out on 30 Wistar adult male rats (15-20 weeks, weighing 290 g). 30 male rats were completely divided into 5 groups. Exp1, group that Rats were exposed to 940 Mhz frequency for 30 minute in 30 Days and 2,3,4 experimental groups were exposed to 940 MHz frequency for 1h,2h,3h respectively for 30 Days. Histopathological and immunohistochemistry methods were used to determine possible damages . Our results showed electromagnetic fields cause increase blood–brain barrier permeability in Rats after exposure to mobile phone radiation(30minute to 3h) duration 30 days and with increasing duration of use , rate of these changes increased.