

Mobile Telephony [Invisible Environmental Pollution] and its Effect on Human Male Reproductive System: An Original Piece of Work †

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Abstract: Present study was designed to assess the possible effects of mobile phones (Electro-magnetic-radiation) on seminal human profile. 80-human male volunteers attending our infertility Clinic were assessed for semen profile according to the WHO Method Manual (Parameters included: abstinence period, liquefaction time, color, volume, viscosity, density, motility, debris, and sperm abnormalities). Personal details of these human volunteers like – profession, cell phone placing (shirt pocket and belt pocket), talk time/day (approximately), and a number of total years of mobile phone use were also recorded. Results of our study reveal that 55-human volunteers (out of 80) were in the state of oligospermia with increased sperm abnormalities. These volunteers used mobile phones 3- 11 hours/day for a period ranging 3-10 years. While 25 volunteers showed normospermic state, these volunteers used the mobile phone for 15 -45 min /day approximately and a number of total years ranged 1-3 years. Our study reflects the possible impact of mobile phones (electro-magnetic- radiation) on sperm characteristics which may be associated with the use of a mobile phone for a longer duration along with other environmental factors; future studies are needed to confirm the effect of mobile phones on the male reproductive system to ascertain its safety and formulate guidelines for mobile users.

Keywords: mobile phone; human semen profile.

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Conflicts of Interest

The authors declare no conflict of interest.