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TITLE

Mobile phone use: As it a risk to develop diabetes mellitus?

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Objectives: Mobile phones are low power radio devices, transmit and receive radio frequency radiation at 900-2200 MHz. The recent reports claim that the number of mobile phone subscribers worldwide has surpassed four billion milestones. The extensive use of mobile phones has been accompanied by public debate about possible adverse effects on human health. Therefore, the aim was to study the effects of mobile phone radiation exposure on fasting blood glucose level in albino rats.

Methods: Forty male albino Wistar rats were assigned into five groups containing 8 rats each. First group was control, second group received a dose for 15 minutes daily, third group 30 minutes, fourth group 45 minutes and fifth group 60 minutes daily dose of mobile phone radiation for the period of three months. Blood glucose was determined by Elisa.

Results: Albino rats, with mobile phone radiation longer than 30 minutes, for the period of three months, showed a significant increased in fasting blood glucose level relative to their control group.

Conclusion: Fasting blood glucose in albino rats was increased and stratification of results shows a dose-effect of duration of exposure of mobile phone radiation on fasting blood glucose. It is suggested that long term and / or excessive use of mobile phones should be avoided by health promotion activities such as group discussions, public presentations and through electronic and print media sources.

Biography

Prof. Meo is a medical graduate [MBBS] with higher postgraduate degree [M.Phil] and Doctorate [Ph.D] in Physiology. He is a Fellow of Royal College of Physicians of Ireland [FRCP], Fellow of Royal College of Physicians of London, Glasgow and Edinburgh. In addition, he also obtained higher postgraduate Diploma in Medical Education, University of Dundee, Scotland UK. Prof. Meo Has a teaching experience of about 18 years and actively involved in undergraduate and post graduate teaching in physiology and research. He is author of 7 books and published 65 scientific papers in peer reviewed national / International bio-medical Journals. Prof. Meo is Associate Editor of International Journal of Diabetes Mellitus. Prof. Meo have been invited as a speaker to deliver talk in about 60 National / International conferences in different countries including Kingdom of Saudi Arabia, Kingdom of Bahrain, United Arab Emirates, Pakistan, China, Turkey, United Kingdom and USA.