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Radiation induced oxidative stress mediated toxicity and possible protective measures

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An increasing rate of cancer is likewise confronted with an array of environmental, health and lifestyle factors. Cigarette smoke, consumption of alcohol, heavy use of cellphone are a part of lifestyle factors and equally responsible for the cancer. Cancer is likely to be affected by the intense exposure to heat and extreme exposure to pesticides, radiations, radioactivity and other hazardous substances. The present evidence on cell phone or other electronic gadgets are based on scientific research and public policy initiative to give an overview of what is known of biological effects that occur at radiofrequency (RF)/ electromagnetic fields (EMFs) exposure. Several types of ionizing and non-ionizing radiations surround us and both have recognized causative effects on biological system. The reviews of last few decades on health endpoints reported to be associated

with RF include childhood leukemia, brain tumors, genotoxic effects, neurological effects and neurodegenerative diseases, immune system deregulation, allergic and inflammatory responses, infertility and some cardiovascular effects. Most of the reports conclude a reasonable suspicion of cell phone risk based on clear evidence of bio-effects. In the present scenario, limited studies found a solution against protection to these radiations. There are many known compounds which can act as antioxidants, anti-cancerous leads; mainly green tea, melatonin, hydroxyl apatite nanoparticle etc. These antioxidants play an important role against RF-EMF radiations. The study will explore the possible mechanism of RF-EMF radiation interaction and protection against these radiations

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