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2021/0598/P	Camilla	01/05/2021 16:09:22	OBJ
	Scaramanga		

Response:

Children are particularly vulnerable to Electro magnetic frequency (EMF), and studies show a link between EMF and childhood leukaemia (1) brain cancer (2) and impaired brain function (3).

Mounting scientific evidence, dating back to WWII (4) indicates serious biological and health harms to all living species at non thermal levels of electro magnetic radiation (EMR). The ICNIRP and telecoms industry with which it is linked, refuse to acknowledge this, observing only thermal (heating) effects, rather than non thermal. The Radiation Research Trust notes that the non thermal biological effects are made at very low levels, (2-10 μ W/cm2) which are well below the current safety limits (10,000,000 μ W/m2) set by the ICNIRP. Ofcom's published results at 5G sites (1.5% of 10,000,000 μ W/m2 for 3G-5G) and (0.039%of 10,000,000 μ W/m2 for 5G only) yet amount to 150,000 times higher and 3,900 times higher than the safe levels (<1 μ W/m2) set by the Building Biology and Austrian Medical Association standards, which, unlike the EU and US regulatory bodies, observe the negative effects.

5G will increase exposure to radio frequency electromagnetic fields (RF-EMF) at unprecedented levels of radiation, and it has not been tested. Hertzgaard and Dowie (2018) state that "the wireless industry has obstructed a full and fair understanding of the current science, aided by government agencies that have prioritized commercial interests over human health, and news organizations that have failed to inform the public about what the scientific community really thinks. In other words, this public-health experiment has been conducted without the informed consent of its subjects, even as the industry keeps its thumb on the scale."

(5). This constitutes a breach of human rights, and many campaigners have recalled the Nuremberg code created in 1945, protecting humans from experimentation without their consent. (6)

Over 300 scientists and doctors from 36 countries have appealed for a moratorium on the roll out of 5G pending appropriate testing. (7)

Public Health England should not be relying on the ICNIRP for guidelines (8) Pall, M (2018), (9) Hardell and Nyberg (2020), (10) Naren et al (2020), and Hertzgaard and Dowie (2018), as this private company actually denies the existence of studies showing harmful effects below its guidelines. The National Toxicology Programme study of 2018 (11) and Ramazzini Institute's well documented animal studies of 2019 (12) corroborate evidence of brain and heart cancer in male rats exposed to EMF radiation, yet from this the ICNIRP concluded 'there is no verified mechanism for RF radiation carcinogens.'

After children and animals, birds and insects are most vulnerable to EMF, and studies have shown bee and bird decline in locations near phone masts. Greater monitoring of this largely neglected area is urgently required (13).

In America, wireless companies have replied to U.S. Senator Richard Blumenthal that they are not aware of any independent scientific studies on the safety of 5G technologies. (14)

No one should be exposed to untested, evidently dangerous levels of radiation. A moratorium on the proliferation of 5G millimetre wave bands pending genuine, independent studies is vital, for the sake of all.

(1) Török S, Borgulya G, Jakab Z, Schuler D, Fekete G.¿ Epidemiological surveillance of childhood leukaemia in Hungary

over the past 21 years (1980-2000) Orv Hetil Dec 1 2002;143(48): 26759. PMID: 12501576 Review. Hungarian.

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- (2) David A. Savitz, Howard Wachtel, Frank A. Barnes, Esther M. John, Sir G. Tvrdik. Case control study of childhood cancer and Exposure to 60-HZ Magnetic fields. American Journal of Epidemiology, Volume 128, Issue 1, July 1988, Pages 21-38, https://doi.org/10.1093/oxfordjournals.aje.a114943. Published: 01 July 1988
- (3) Sultan Ayoub Meo, Mohammed Almahmoud, Qasem Alsultan, Mobile Phone Base Station Tower Settings Adjacent to School Buildings: Impact on Students' Cognitive Health. American Journal of Men's Health, Dec 2018.
- (4) Naval Medical Research Institute. Bibliography of reported biological phenomena ('effects') and clinical manifestations attributed to microwave and radio-frequency radiation. NTIS. 1972.

https://ecfsapi.fcc.gov/file/1001034847591/Naval-Medical-Research-Institute-1972.pdf

- (5) Mark Hertzgaard and Mark Dowie, The Inconvenient Truth about Cancer and Mobile Phones, Guardian newspaper, 14th July 2018
- (6) Natalie Jarmusik, The Nuremberg code and its impact on clinical research. imarcresearch.com April 9 2019
- (7) 5gspaceappeal.org. International Appeal
- (8) Professor Martin L. Pall. 5G: Great risk for EU, U.S. and International Health. Compelling Evidence for Eight Distinct Types of Great Harm Caused by Electromagnetic Field (EMF) Exposures and the Mechanism that Causes Them. 2018
- (9) Lennard Hardell and Rainer Nyberg. Appeals that matter or not on a moratorium on the deployment of the fifth generation, 5G, for microwave radiation. Jan 2020. Molecular and Clinical Oncology, spandidospublications.com
- (10)Naren, Anubhav Elhence et al. Electromagnetic Radiation due to Cellular, Wi-Fi and Blue Tooth Technologies: How safe are we? 27 Feb, 2020
- (11)National Toxicology Programme. Cell Phone Radio Frequency Radiation. ntp.niehs.nih.gov Nov 2018
- (12)L.Falcioni, L.Bua, E.Tibaldi, M.Lauriola, L.DeAngelis et al Report of final results regarding brain and heart tumors in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radiofrequency field representative of a 1.8¿GHz GSM base station environmental emission. Ramazzini Institute, 2018
- (13)Czerwinski M, Januszkiewicz L, Vian A, Lázaro.A. Effects of Wireless Radiation on Birds and Other Wildlife.

Review. The influence of bioactive mobile telephony radiation at the Level of plant community - Possible mechanisms and indicators of the effects. January, 2020.

www.saferemr.com/2016/07/effects-of-wireless-radiation-on-birds

(14) 'Flying blind' on the health effects of 5G wireless technology

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Confirmed at US Senate hearing after Senator Blumenthal questions Industry. Environmental Health Trust, Feb 8, 2019