

June 24, 2020

CBC News
Eyeopener
Attn: Mr. Rob Brown and Mr. David Gray

Sent via email: eyeopener@cbc.ca

Subject: Need for a balanced report versus the CBC report *Calgary Eyeopener podcast - Tuesday June 23*

Dear Mr. Brown and Mr. Gray

We believe the report aired on June 23rd, *Calgary Eyeopener podcast - Tuesday June 23* does not meet the journalistic standards we expect and rely on from CBC.

We request that you review the material we present here on 5G and pre-5G radiation, and subsequently broadcast a truly balanced story.

First, we want to make clear that we do not believe that 5G causes COVID 19.

To briefly provide you with our credentials, ABM is a physician-epidemiologist who worked on the monograph prepared by the International Agency for Research on Cancer (IARC) when it classified non-ionizing radiofrequency radiation (RF) as a 2B *possible* carcinogen. ABM has since written an update, published in a scientific peer-reviewed journal, providing the rationale for raising the classification to that of a Group 1, *known* carcinogen¹. Tobacco and asbestos are classified in Group 1. A balanced report would have mentioned that in 2019, IARC agreed that, based on new evidence, non-ionizing RF radiation should be a high priority for re-evaluation of the classification.²

FC is former president of Microsoft Canada and now CEO of the non-profit organization Canadians for Safe Technology³.

The June 23rd report lacked balance and downplayed many aspects of the serious concerns about 5G technology. To suggest those raising concerns about 5G health effects is a conspiracy is dismissive of the hundreds of international scientists and medical doctors who have signed appeals stating their concerns about the potential harmful effects of wireless devices, especially 5G. As of April 30, 2020, 253 EMF scientists from 44 nations have signed an appeal to the WHO and United Nations member states⁴ expressing their concerns about the effects of wireless radiation on humans, including 5G. These scientists have published over 2,000 studies on non-ionizing radiation in the peer-reviewed literature.

¹ Cancer epidemiology update, following the 2011 IARC evaluation of radiofrequency electromagnetic fields (Monograph 102) <https://www.sciencedirect.com/science/article/abs/pii/S0013935118303475?via%3Dihub>

² https://monographs.iarc.fr/wp-content/uploads/2019/10/IARCMonographs-AGReport-Priorities_2020-2024.pdf

³ c4st.org

⁴ International EMF Scientists Appeal. <https://www.emfscientist.org/>

The 5G Appeal⁵ was prepared by scientists and doctors who are urgently calling for the EU to halt the roll out of 5G due to serious potential health effects from this new technology. As of April 29, 2020, 361 scientists and medical doctors have signed the appeal. The BioInitiative Group⁶ has reviewed 1,800 studies that show harm to humans and our environment from wireless radiation without heating tissue.

Wireless transmitters emit RF radiation, which is scientifically demonstrated to cause or contribute to numerous health effects including cancers,^{7,8} sperm damage,⁹ reproductive harms,¹⁰ learning and memory deficits,¹¹ and neurodegenerative, cellular and genetic damage.^{12,13,14}

Mr. Taylor dismisses the fear of 5G and relates to early concerns about Wi-Fi in schools in 2014. Unfortunately for Mr. Taylor and for students and teachers, concerns about constant exposure to Wi-Fi are real. In a comprehensive literature review, *Wi-Fi is an important threat to human health*, Pall states that “Wi-Fi causes oxidative stress, sperm/testicular damage, neuropsychiatric effects including EEG changes, apoptosis [cell death], cellular DNA damage, endocrine changes, and calcium overload,” that the effects from continuous, long-term exposure may be cumulative, and that pulsed signals are more biologically active than a smooth carrier wave.¹⁵ There is significantly more published scientific research on this topic that we would be happy to review with you.

5G has not undergone any long-term health safety testing, despite Mr. Taylor’s claim that the World Health Organization has studied it.¹⁶ What we know about the pre 5G frequencies (2G, 3G and 4G) is of

⁵ <http://www.5gappeal.eu/about/>

⁶ <https://bioinitiative.org/>

⁷ Miller, A. B., Morgan, L. L., Udasin, I., & Davis, D. L. (2018). Cancer epidemiology update, following the 2011 IARC evaluation of radiofrequency electromagnetic fields (Monograph 102). *Environmental Research*, 167, 673–683. <https://doi.org/10.1016/j.envres.2018.06.043>

⁸ Hardell, L., & Carlberg, M. (2018). Comments on the US National Toxicology Program technical reports on toxicology and carcinogenesis study in rats exposed to whole-body radiofrequency radiation at 900 MHz and in mice exposed to whole-body radiofrequency radiation at 1,900 MHz. *International Journal of Oncology*. <https://doi.org/10.3892/ijo.2018.4606>

⁹ Houston, B. J., Nixon, B., King, B. V., De Iuliis, G. N., & Aitken, R. J. (2016). The effects of radiofrequency electromagnetic radiation on sperm function. *Reproduction (Cambridge, England)*, 152(6), R263–R276. <https://doi.org/10.1530/REP-16-0126>

¹⁰ Magras, I. N., & Xenos, T. D. (1997). RF radiation-induced changes in the prenatal development of mice. *Bioelectromagnetics*, 18(6), 455–461. <https://bit.ly/2wPRfTL>

¹¹ Aldad, T. S., Gan, G., Gao, X.-B., & Taylor, H. S. (2012). Fetal radiofrequency radiation exposure from 800-1900 mhz-rated cellular telephones affects neurodevelopment and behavior in mice. *Scientific Reports*, 2, 312. <https://doi.org/10.1038/srep00312>

¹² Panagopoulos, D. J. (2019). Comparing DNA damage induced by mobile telephony and other types of man-made electromagnetic fields. *Mutation Research/Reviews in Mutation Research*, 781, 53–62. <https://doi.org/10.1016/j.mrrev.2019.03.003>

¹³ National Toxicology Program, National Institute of Environmental Health Sciences. (2018). Toxicology and carcinogenesis studies in Hsd: Sprague Dawley SD rats exposed to whole-body radio frequency radiation at a frequency (900 MHz) and modulations (GSM and CDMA) used by cell phones. *NTP Technical Report 595*, 384.

¹⁴ National Toxicology Program, National Institute of Environmental Sciences. (2018). Toxicology and carcinogenesis studies in B6C3F1/n mice exposed to whole-body radio frequency radiation at a frequency (1,900 mHz) and modulations (GSM and CDMA) used by cell phones. *NTP Technical Report 596*, 260.

¹⁵ <https://www.sciencedirect.com/science/article/pii/S0013935118300355?via%3Dihub>

¹⁶ <https://www.youtube.com/watch?v=ekNC0J3xx1w&feature=youtu.be>

great concern. 5G will use these pre 5G frequencies as well as others not widely used previously for modern day devices such as cell phones. A well-balanced program of 5G fully exploring the health issues would be timely, and we urge you to consider another program in this topic.

We would be glad to be interviewed in a program on 5G and health risks. Please contact us for more information or for suggestions on others you could interview.

Yours sincerely,



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Dr. Miller, Professor Emeritus at the Dalla Lana School of Public Health of the University of Toronto, is a physician epidemiologist specializing in cancer etiology, prevention, and screening. He has been a longtime advisor to the WHO and was Senior Epidemiologist at the International Agency for Research on Cancer (IARC). He served as Director of the Epidemiology Unit of the National Cancer Institute of Canada and Chair of the Department of Preventive Medicine and Biostatistics at the University of Toronto. He has been awarded the Medal of Honour by the WHO's International Agency for Research on Cancer, and in 2019 was named a Member of the Order of Canada.

Frank Clegg has spent his 40 year career in the technology industry, most recently as President of Microsoft Canada. He cofounded Canadians for Safe Technology. C4ST is a volunteer coalition of parents, scientists and citizens whose mission is to educate Canadians and policy makers about the dangers of exposures to unsafe levels of radiofrequency/microwave radiation from commonly used wireless devices and cellular antennas and to provide information on how to use wireless devices more safely. C4ST works with all levels of government to create healthier communities for children and families.