

Appendix: Selected Research Excerpts

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Below is a selection of excerpts from various publications related to EMF exposure. Please note, this list is not exhaustive, and individuals are encouraged to perform their own research to draw their own conclusions.

- Research studies
 - World Health Organization (WHO)
 - "...exposures from [mobile phone] base stations and wireless technologies in publicly accessible areas (including schools and hospitals) are normally thousands of times below international standards"
 - "...the body absorbs up to five times more signal from FM radio and television than from [mobile phone] base stations."
 - "Radio and television...have been in operation for...50 or more years without any adverse health consequence being established"
 - "From all evidence accumulated so far, no adverse short- or long-term health effects have been shown to occur from the RF signals produced by base stations. Since wireless networks produce generally lower signals than base stations, no adverse health effects are expected from exposure to them."
 - "Some individuals have reported...symptoms upon exposure to RF fields... EMF has not been shown to cause such symptoms. Nonetheless, it is important to recognize the plight of people suffering from these symptoms."
 - "...there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects."
 - "Whatever its cause, EHS can be a disabling problem for the affected individual. EHS has no clear diagnostic criteria, and there is no scientific basis to link EHS symptoms to EMF exposure. Further, EHS is not a medical diagnosis."
 - WHO International Agency for Research on Cancer (IARC)
 - "The WHO/IARC has classified radio frequency electromagnetic fields as possibly carcinogenic to humans (Group 2B), based on an increased risk for glioma...associated with wireless phone use. The evidence was limited among

users of wireless telephones for glioma, and inadequate to draw conclusions for other types of cancers."

- "...there could be some risk, and therefore we need to keep a close watch for a link between cell phones and cancer risk."
- "...it is important that additional research be conducted into the long-term, heavy use of mobile phones."
- BioInitiative Working Group
 - "...evidence for risks to health has substantially increased since 2007. The report reviews over 1800 new scientific studies. Cell phone users, parents-to-be, young children, and pregnant women are at particular risk."
 - "Overall, more than 1800 or so new studies report abnormal gene transcription; genotoxicity and single-and double-strand DNA damage;..."
 - "There is a consistent pattern of increased risk for glioma..."
 - "Bioeffects are clearly established and occur at very low levels of exposure to electromagnetic fields and radiofrequency radiation."
 - "The existing...public safety limits...are not adequate to protect public health."
- Government and industry regulations
 - U.S. Federal Communications Commission (FCC)
 - "While there is no federally developed national standard for safe levels of exposure to radio frequency (RF) energy, many federal agencies have addressed this important issue"
 - "Since 1996, the FCC has required that all wireless communication devices sold in the United States meet its minimum guidelines for safe human exposure..."
 - "All wireless devices sold in the US go through a formal FCC approval process to ensure that they do not exceed the maximum allowable SAR [specific absorption rate] level when operating at the devices highest possible power level."
 - Health Canada - SC6
 - From Health Canada:

- “Health Canada has a guideline, known as Safety Code 6, which recommends limits for safe human exposure to RF electromagnetic energy. The limits... incorporate large safety margins...for all Canadians, including those working near RF sources. Canada’s limits are consistent with...standards in other parts of the world and provide protection against all known adverse health effects from RF energy.”
- “Fact: Even a small child, following continuous exposure from multiple sources of RF energy, would not experience adverse health effects, provided that the exposure limits set in Safety Code 6 are respected.”
- “Fact: There is no evidence that children and teenagers are at increased risk when Safety Code 6 exposure limits are respected. The limits...are designed to protect people, of all ages and sizes, from all forms of exposure to RF energy, including continuous exposure (24 hours a day, seven days a week).

- From Industry Canada

- “...at a distance of 20 cm from the Wi-Fi access points, the maximum RF exposure levels...were 10.59% and 7.73% of the SC6 limits. In a typical scenario, in which a person is located several metres from the access point and surrounded by other users, the RF exposure level is thousands of times below the SC6 limits.”
- “Based on the results of this case study, the aggregated RF exposure of multiple Wi-Fi access points and Wi-Fi enabled devices in this indoor location was well below the SC6 limits. In addition...the results of this study are likely higher than typical equivalent setups...such as homes, schools, and businesses.”

- Other sources

- Frank Clegg, former head of Microsoft Canada, has founded Canadians for Safe Technology (C4ST) and warns against the dangers of exposure to radio frequencies
- “Since 2011, governments around the world have alerted their populations to approach wireless devices with caution.”
- “In Canada, various levels of government...are...hiding behind ‘Safety Code 6’, an archaic federal guideline....”

- “...the provinces are blindly following...outdated Safety Code 6....”
- “He made a simple decision to turn off the Wi-Fi.... His wife and his son’s symptoms reversed so quickly....”
- “Electrosensitivity is not like an allergy you are born with; it is an illness that builds up over increased time and radiation exposure.”

- Practices at other schools and cities

- The Independent Schools Association of the Central States (ISACS) is unaware of any of their member schools prohibiting the use of Wi-Fi
- New York City announced (Sept 20, 2013) “new initiatives to further expand wireless and broadband connectivity in New York City”