

Experts Question the FCC & Safety

✦ **US Government Accountability Office** reports limits and testing requirements for mobile phones fail to account for new research or for all exposures. *GAO-12-771. Jul 24, 2012*

✦ The **FCC** follows **IEEE ICES** guidelines, a tiny group manned by representatives of industry like Siemens, AT&T.

✦ **Harvard University's Edward J. Safra Center for Ethics** publishes "Captured Agency: How the FCC is Dominated by the Industries it Presumably Regulates." 2015

✦ **The US Environmental Protection Agency (EPA)** states FCC's exposure guidelines are "seriously flawed." *Docket ET 93-62, 1993*

✦ **American Academy of Pediatrics** asks the FCC to set stricter guidelines reflecting modern use to protect children "throughout their lifetimes." *Aug 29, 2013*

✦ **Department of Interior** says the FCC, "a Federal agency with no expertise in health," fails to protect wildlife from wireless radiation with "outdated" guidelines and calls for independent studies. 2014

⊕ **International EMF Appeal to the WHO and United Nations** from 200+ scientists from 40 nations with more than 2000 peer-reviewed research papers asks for science-based guidelines and says **present levels of this radiation are damaging our DNA, ecosystem, reproduction, learning, memory, & causing early death.** 2015

Some Electrical & Wireless Research

♥ Our brain & body operate electrically. *Nobel Prize 1963, 2013; The Body Electric, 1985*

⊕ **The International Agency for Research on Cancer (IARC)** classifies radiation from electrical equipment & wireless as **2B carcinogens**, the same as lead & chloroform. 2001 (electrical), May 2011 (radiofrequency)

⊕ Inside 1 mile of Sutro tower, kids had **9 times more brain cancer** than in the rest of San Francisco. *Neil Cherry, 2000*

⊕ Birds near a cell tower in Spain fought more, failed building nests or dropped sticks often, & had **40% fewer babies**; other studies show strong impact on bees & birds. *Balmori, 2005*

⊕ **WHO Russian Radiation Protection Agency** warns children will suffer rapid "disruption of memory, decline of attention, diminishing learning and cognitive abilities, increased irritability, [etc.]" 2009

⊕ Epidemiologist Dr. Samuel Milham shows **certain electrical designs**, like digital or energy-saving, can **increase health risks.** 2010

⊕ Random electromagnetic frequencies **open cell membranes** like the **blood-brain barrier.** *Bioinitiative Report §10, 2012; Pall M, 2013*

⊕ Apathy, hostility, **structural brain changes**, etc., linked. *Pall, 2016; Sahin et al, 2015*

⊕ **Ovarian damage** in rats prenatally exposed: holes, swelling (*Türedi et al, 2016*)

⊕ **The National Toxicological Program** finds *just one wireless frequency* at modern levels causes DNA, mitochondrial, cell, & heart damage and cancerous lesions. 2018

Actions Around the World

♣ In 2014 Korea & China find brain changes linked with self-control & emotional regulation loss in internet addicts: Korea limits online game access & China bans new internet cafes.

☞ France bans mobile phone use in colleges, kindergartens, primary schools, (2012) & WiFi (2014) in nursery schools. Cyprus and Israel enact similar wireless bans.

♣ The Maryland Department of Health and Mental Hygiene recommends hard-wired connections over wireless. 2016

♣ Swiss schools are hard wired, even though permitted exposure is 99% less than the USA & Swiss tech halts broadcast if not in use. 2007

♣ Like other insurers, Lloyd's of London has an "Electromagnetic Fields Exclusion" (Exclusion 32), excluding all illnesses caused by continuous long-term non-ionizing radiation exposure, i.e. electrical or wireless radiation.

♣ Australia, Italy, Alaska, etc. have provided workman's compensation for wireless effects.

♣ In Sweden, electromagnetic sensitivity was first officially recognized as a disability.

✦ Global satellites, balloons, drones, etc. keep raising power levels & adding new frequencies.

✦ The US FCC sets rules to bypass local control to install on public rights of way (sidewalks) and 5G on every block.

✦ In the USA, data collection will be worth more than sale of utilities, hence the rapid development of the "smart grid" that collects data from the Internet of Things with wireless meters found susceptible to hacking, fire, gross miscalculation, and power outage.

Possible Non-Ionizing Radiation Effects

Common

fatigue	concentration loss
allergies	facial flushing rashes
night sweats	memory troubles
headaches	mood changes indigestion
> mast cells	blurred vision insomnia
dehydration	blood coagulation
hair loss	nose bleed tinnitus

Neurological

decreased motor function & slow reactions
migraine muscle spasms & joint pain
nausea self-control impairment
irritability myelin damage
dizziness depression tingling
night sweats psychosis seizures

Reproductive, Immunological, & Genetic

infertility DNA damage
miscarriage higher toxin absorption
greater viral, bacterial access to brain & body

Cardiac & Respiratory

asthma inflammation clotting
bronchitis palpitations tachycardia
arrhythmia heart attack stroke

Associated by Lab Findings &/or Statistically

NO/peroxynitrite increase (oxidants)

Decline of birds, bees & trees MS

Alzheimer's **diabetes** **cancer**

epilepsy Parkinson's autism

ADHD ALS digital addiction

brain damage <empathy

Sources: emf-portal.org/en mdsafetech.org
www.bioinitiative.org www.saferemr.com

Reduce Electromagnetic Radiation

- ♣ Advocate for clean power and electric lines competent to carry electrical loads and that do not release harmful ground current. Reject wall warts and addition of transients/harmonics to lines from poor electrical design or poor filters.
- ♣ Keep chronic magnetic field exposures below 1 mG & acute below 10 mG. Keep distance.
- ♣ Choose direct current (DC), shielded electrical wires, and electric fields below 10 V/m².
- ♣ Hardwire for health: fiber optic is best, then Ethernet; use corded phones (landline).
- ♣ Avoid wireless baby monitors, TVs, sensors, phone, etc. At minimum, use airplane mode.
- ♣ Reject wireless utility meters, burglar alarms, “smart” appliances, etc.
- ♣ Disable WiFi and Bluetooth in computers—disable Xfinity public access if using Comcast.
- ♣ Use natural light, avoid CFLs, sleep when dark.

Flyer c. 2017 by Kirstin Beatty (Beatty.fyi), co-chair of Last Tree Laws, updated 2020.

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How Dangerous is Wireless and EMR?

Despite public relations & “science-for-hire,” electromagnetic radiation (EMR) emitted from electrical equipment, wireless internet, cell phones, wireless utility meters, etc. **poses serious risks to cardiac, neurological, and other systems**. Wireless devices emit medium or high frequencies. Electric devices emit low frequencies with variable power density depending on current & design.

“Adverse health effects from wireless radio frequency fields, such as learning disabilities, altered immune responses, and headaches, clearly exist and are well documented in the scientific literature.”

~ American Academy of Environmental Medicine, 2012