



I urge strenuous efforts to prevent any requirement for V2X (vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I), and vehicle-to-pedestrian (V2P)) communication, – indeed, I urge denial of permission for it – for the health of many.

Evidence documents that many people are already experiencing life altering symptoms and health problems from existing sources of nonionizing radiofrequency/microwave radiation (RF/MW), from cell towers, smart meters, wifi, etc, and in some cases also from extremely low frequency radiation (power line type). Though the fraction affected is small, the number affected is large. Each added source of RF/MW has created a new group of impaired individuals, and further curtails the freedom of movement of those already affected.

“Oxidative stress” (free radical injury) is a strongly documented mechanism of injury with even low intensity RF/MW (and also extremely low frequency radiation (ELF), well below exposure limits¹). This affects proteins, lipids, DNA and RNA, among other substances in the body – is an irrefutably documented mechanism of toxicity for *low level, nonionizing* RF/MW – affirmed in numerous studies. For instance, **Yakymenko** et al.² assessed 100 studies that evaluated whether low level RF/MW caused oxidative stress: 93 showed that it did. **De Luca** et al. assessed whether genetic variants that lead to less avid protections against oxidative stress, are tied to reported effects from RF/MW (and other electromagnetic radiation)³. They were. People cannot manipulate their genes by suggestibility: this is powerful evidence that the symptoms are from the oxidative-stress causing radiation. **Belpomme** et al. in France showed that affected people consistently have low levels of a metabolite of melatonin⁴.

Melatonin is a critical antioxidant, shown in scores of studies to protect against free radical injury from RF/MW⁵⁻¹⁷ (as well as ELF¹⁸, and every other kind of radiation – ultraviolet, x-ray, gamma ray...) – and also many, many chemicals.

RF/MW can itself depress melatonin, and its function¹⁹ in some settings²⁰⁻²⁴. So, more consistently, can ELF²⁵) (Low enough levels – for that person – may cause other injury, but upregulate antioxidant defenses²⁶.)

RF/MW can also reduce levels of other critical antioxidant defenses made by the body (such as glutathione²⁷⁻³¹, glutathione peroxidase³¹⁻³³, catalase³³, and superoxide dismutase^{32, 33}) – as can ELF³⁴⁻³⁶. (**Melatonin supports other antioxidant levels³⁷**.)

The oxidative stress reaction varies. “Low” levels of prooxidants, causing upregulation of antioxidant defenses, can be net antioxidant in some – but not in people whose defenses are already maximally upregulated, where they are prooxidant. The level that produces prooxidant effects varies, which is among a number of factors that can produce the appearance of inconsistent effects. This is likely a major reason that some individuals are progressively affected by levels of radiation that cause no problems in others.

Oxidative stress leads to many secondary causes of injury – to different degrees in different people. These include damage to mitochondria, the energy producing parts of cells (damage to mitochondria also produces oxidative stress), membrane damage, impaired blood flow (via so-called “endothelial dysfunction”), blood-brain barrier impairment, brain swelling, histamine elevation, cell death, and activation of clotting systems. Each of

these mechanisms are supported in studies, and/or in persons who experience “radiowave sickness”⁴. Oxidative stress also modifies substances in the body in a way that makes them more vulnerable to autoimmune attack. And subsets of those with radiowave sickness show antibodies to myelin^{4, 38}. Symptoms and signs in those who are affected match – qualitatively and quantitatively – with those of the “mystery illness” of diplomats in Cuba and China – which evidence ties to pulsed RF/MW³⁹. Though a smaller fraction are affected, by the lower intensity exposures used in communications, the features of illness, once present, are the same.

Combining different frequencies of radiation leads to synergistic toxicity, according to US government reports (like a Defense Intelligence Agency report on health effects of radiofrequency radiation⁴⁰) citing Russian studies. Russian exposure limits are 1 ten-thousandth of what ours are – Russia is doing a far better job of protecting their people. Adding V2X communication to existing radiation sources^{41, 42} is thus expected to synergistically increase injury.

Moreover, by depressing antioxidant defenses, RF/MW, especially combinations, can increase chemical toxicity⁴³⁻⁴⁵ (as may ELF^{46, 47}).

Therefore, proper testing of health impact must include other drugs and chemicals to which some may be exposed.

Because of this, V2X communication will likely magnify the burden of chronic diseases with a tie to oxidative stress and mitochondrial injury – conditions like hypertension, obesity, diabetes, autism, dementia, autism, amyotrophic lateral sclerosis (ALS), and chronic multisymptom illnesses like chronic fatigue syndrome.

Studies show women are more vulnerable than men, and other factors influence vulnerability. The most vulnerable among us deserve protection, too. Based on our preliminary data, other factors tied to greater risk of health problems with RF/MW include history of major electric shocks, past exposure to drugs/chemicals that cause damage through oxidative stress and toxicity to “mitochondria” (when damaged, these produce more oxidative stress; and vice versa), medical conditions tied to oxidative stress and mitochondrial injury – and family history of autoimmune disease. Higher body metal levels, which are tied to oxidative stress, may also increase risk⁴⁸.

Several factors suggest the best and brightest may be especially affected. Many ways of being very bright are at the expense of high energy demand, and oxidative stress impairs cell energy supply. (It is the chasm between these that determines the level of injury.) Indeed, autism, a condition tied to oxidative stress and mitochondrial impairment (and for which RF/MW might be a risk factor), has been tied to a genetic pattern that in others, is linked to higher intelligence⁴⁹.

Affected physicians among many include Dr. Gro Harlem Brundtland, former 3 time Prime Minister of Norway, and former Director General of the World Health Organization⁵⁰; Dr. Erica Mallory-Blythe who founded Physicians Health Initiative for Radiation and Environment (PHIRE); Dr. Scott Eberle, who published his experience as a case history⁵¹; and Dr. Roy Fox, Medical Director of the Capital Health Integrative Chronic Care Service in Halifax, Nova Scotia⁵². Arthur Firstenberg was young, just a medical student when affected; he heads The Cellular Phone Task Force and wrote *The Invisible Rainbow: A History of Electricity and Life*⁵³. Affected Techies include Matti Niemela, former Chief Technology Officer at Nokia⁵⁴; Per Segerbäck, former software designer at Ericsson⁵⁵; and from Silicon Valley, Jeromy Johnson, who has given a TED Talk on the subject⁵⁶; and Peter Sullivan, former Stanford graduate and millionaire software designer for Excite, Silicon Graphics, and Netflix⁵⁷. Affected lawyers include former Miami Organized Crime prosecutor Alan Bell – in whom blinded experiments documented seizure activity with exposure⁵⁸, and Dafna Tachover, who founded *We Are the Evidence* (Wireless Technologies Injury Advisory Group) and has argued related issues before the Israeli Supreme Court. Many other scientists and engineers are affected. So are teachers⁵⁹⁻⁶¹, and, sometimes tragically, children⁶².

Our preliminary survey data indicate that, among those employed at the time they become affected, fully half have been forced to leave their job, because the impairment that develops is not only to the new source of radiation, but individuals develop new problems with previously tolerated sources of radiation.

Newly adverse societal attitudes are leading to repercussions decades later, for behaviors adverse to women that were accepted at the time. Attitudes may in future be adverse to persons who contribute to decisions harmful to a subset of the populace, despite being apprised of the potential repercussions.

Just as diplomats in Cuba and China experience cognitive loss, hearing loss, sleep problems, headaches, anxiety, dizziness, and irritability – most likely due to pulsed RF/MW, and with brain swelling, and brain imaging that looks like traumatic brain injury – so do segments of the public, from communication sources of RF/MW³⁹. One who communicated with us, who has social security disability for his “electrosensitivity” – damage from communication sources of radiation – reported that his brain swelling was so severe it reportedly pushed his eyeball out of the orbit.

You will hear parties stating that there are no health problems, or that adverse findings are not consistent. Such denial of harms, in this^{63, 64} as in other industries with profitable products with potential for harm, is tied to industry conflicts of interest, known or in some cases unrevealed^{65, 66}.

“5G” (mm wave) communications for use in 5G have been claimed to be inherently safe due to their relatively high frequency, so allegedly shallow depth of absorption (so presumably just causing cataracts and melanoma, including ocular melanoma – both of which do occur with frequencies on either side of 5G – uv light is higher frequency, shallower penetration). A Russian report declassified in 2012 by the CIA shows otherwise. Mitochondria throughout the body – the energy powerhouses of cells – are damaged by mm waves, causing injury to the brain, heart, liver, kidneys, spleen, as well as nerve and blood systems⁶⁷.

This has not considered mounting evidence that RF/MW can increase brain cancer^{68, 69}, melanoma⁷⁰⁻⁷², breast cancer^{73, 74}, and hematological malignancies (leukemia-lymphoma)^{75, 76}.

In short, V2X communication will lead new people to be disabled. It will cause health problems, and magnify the debilities of a large number of those already suffering.

Sincerely,

Beatrice A. Golomb, MD, PhD
Professor of Medicine
UC San Diego School of Medicine

Comment: My assistant may have mistakenly uploaded early notes on this topic.

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