

Protecting the Maryland Public from Harm by Wireless Technology

Dear Maryland Legislators,

Kindly consider these questions:

- Do you care about the health of children?
- Do you care about the health of adults?
- Do you care about the exploding costs of health care?

If your answer to any of these questions is "Yes", then PLEASE LISTEN to the scientists and the physicians of the international biomedical research community. They are trying to warn everyone about the adverse health effects of the radiofrequency radiation that is employed by wireless devices. Simply stated:

Radiofrequency radiation is harmful to health.

Why so?

The levels of manmade radiofrequency radiation in our environment, including right here in Maryland, are increasing. This increase is caused by the introduction of more and more wireless devices, without an understanding of the health consequences. These consequences can manifest differently in different individuals. Examples include sleep disruption; stress, anxiety, or irritability; headaches; ringing in the ears; concentration, memory, or learning problems; fatigue; loss of balance; eye problems; heart palpitations or arrhythmia; nerve pain; cancer; and many more.

These problems arise because all living things are bioelectrical in nature, including human beings. That is why electroencephalograms and electrocardiograms work; they measure the tiny electrical voltages that operate the brain and the heart. Unfortunately, the radiofrequency radiation from wireless devices is strong enough to disrupt many natural biological processes. That disruption can cause, or exacerbate, a host of chronic illnesses, leading even to death.

Yet such illnesses can go unexplained for several reasons:

- Many of the symptoms caused by exposure to radiofrequency radiation can have other causes, too, complicating diagnosis.
- The public does not yet know which symptoms can be caused by exposure to radiofrequency radiation and thus may not recognize the possible cause.
- Physicians are not yet trained to recognize the symptoms of exposure to radiofrequency radiation and to recommend remediation.

No one is immune to harm from radiofrequency radiation. So you may already know someone who is showing the symptoms of overexposure, perhaps even someone in your own extended family. But the connection to radiofrequency radiation may not yet have been made. The result can be continued suffering and a lost opportunity for recovery.

What are examples of the sources of radiation?

Unfortunately, government has not served the public well in raising awareness of this problem. In fact, government has been part of the problem. The rising levels of radiofrequency radiation in our environment are often MANDATED or ENABLED by the U.S. Government, by the Maryland Government, by the Montgomery County Government, by other county governments, and by some local governments. Here are just three examples.

Wireless Smart Meters

These meters measure the use of electricity and report their readings back to the electric power companies by wireless means, not just once per month but repeatedly. They incorporate radiofrequency transmitters that bathe Maryland residents in bursts of radiofrequency radiation, day and night, forever.

Maryland residents have been FORCED to accept the installation of these meters on, or even inside, their homes and businesses by the Maryland Government, through the rulings of the Maryland Public Service Commission. The only way that residents can get relief from the radiation from their own meters is to pay both an initial fee, and monthly fees, forever, to “Opt Out” of having a Wireless Smart Meter. These Opt-Out fees can add hundreds of dollars per year to one's electric bill, which many residents cannot afford. But even paying these fees does not guarantee that the electric power companies won't force another type of transmitting meter on the residents, again with the approval of the Maryland Public Service Commission. And these fees don't protect residents from the radiation of the Wireless Smart Meters of their neighbors. Further, those paying the Opt-Out fees must still pay the rate increases to cover the costs of the expensive Wireless Smart Meter System. That is, those Opting Out are required to pay both “to not have” a Wireless Smart Meter and “to have” a Wireless Smart Meter, at the same time. This tragic saga is about to repeat itself for wireless gas meters and wireless water meters in various parts of Maryland.

The Maryland public, with the assistance of informed legislators, has sought legislative relief from both the radiation and the fees associated with Wireless Smart Meters. But, year after year, the public has been turned down by the cognizant committees of the Maryland General Assembly. According to testimony before these committees, something like 40,000 Maryland ratepayers are currently paying the monthly Opt-Out fees to protect their families from the radiation from Wireless Smart Meters. And that number would undoubtedly go higher if more residents understood what Wireless Smart Meters are and what they do, and if more residents could afford the fees.

Sadly, at the present time, the only effective way to protect one's family from the radiation from Wireless Smart Meters is to move to a community that does not have them.

Wi-Fi in Schools, and Cell Towers on School Grounds

The public schools of Montgomery County, and other Maryland counties, too, force the exposure of children to radiofrequency radiation from Wi-Fi throughout the school day. And many of these schools also force the exposure of children, and the surrounding communities, to radiofrequency radiation from cell towers that they have allowed to be placed on school grounds.

Sadly, the only alternative for parents who want to protect their children from such radiation is to FORFEIT a public school education or to move out of the Maryland counties promoting these wireless technologies.

Small-Cell Towers

Montgomery County is writing, RIGHT NOW, new zoning rules that will PERMIT the installation of "small-cell" towers up and down the residential and business streets in the County. These small-cell towers will be placed in the right-of-way in front of individual homes and businesses without the approval of the affected communities. These towers will further ensure that NO COUNTY RESIDENT can escape bombardment by radiofrequency radiation in every room of his home or business.

Sadly, once again, the only effective way to protect one's family from the radiation mandated for communities with small-cell towers will be to move out of those communities.

What is the evidence of harm?

Thousands of scientific papers published by the international biomedical research community have contributed to our current understanding of the harm caused by radiofrequency radiation. Let me cite just three sources of evidence here, and point you to many more.

World Health Organization

In 2011, the International Agency for Research on Cancer, of the World Health Organization, classified radiofrequency radiation, including cellular radiation, as a Group 2B Human Carcinogen, which means a "possible human carcinogen". (For references, see [https://www.scribd.com/document/320935636/.](https://www.scribd.com/document/320935636/))

National Institutes of Health

In 2016, the National Toxicology Program, of the National Institutes of Health, reported the first results from the largest animal study (\$25 million) that it has ever conducted of any toxin. That toxin is cellular radiofrequency radiation. This study found a link between exposure to cellular radiation and two forms of cancer: brain cancer (glioma) which is usually fatal; and nerve cancer (schwannoma) which can be fatal. In 2017, this same program linked cellular radiation to broader DNA damage. DNA, of course, is the formula for life. One of the frequencies studied is the same frequency (900 MHz) employed by Wireless Smart Meters in Maryland. (For references, see [https://www.scribd.com/document/320935636/.](https://www.scribd.com/document/320935636/))

Maryland Children's Environmental Health and Protection Advisory Council

This council advises the Governor of Maryland on the health of the environment in our schools. In 2016 this council recommended that Wi-Fi be phased out of Maryland's schools, in favor of safe wired connectivity, because of the adverse effects of Wi-Fi on children's health. To my knowledge, no action has yet been taken to implement the Council's recommendation on Wi-Fi, leaving the children at risk. The Council indicated that it will next address the use of cell phones in the schools.

(For references, see <https://phpa.health.maryland.gov/OEHFP/EH/Pages/WiFiCEHPAC.aspx>.)

Where can you learn more?

About wireless devices and health broadly: Please visit the web site of the Environmental Health Trust (<https://ehtrust.org/>). For Wi-Fi in schools, in particular, see letters from scientists and doctors around the world (<https://ehtrust.org/resources-to-share/letters-doctors-wifi-schools/>). This web site was created by

Devra Davis, MPH, Ph.D. Dr. Davis was a member of the United Nations' committee that shared in the 2007 Nobel Prize for Peace for its work on global climate change. Dr. Davis has a distinguished record of service to the public on health issues.

About small cell towers: Please visit this web site (<http://whatis5g.info/>). Small-cell towers are the key component of the plans of the U.S. Government for the so-called "Fifth Generation" (5G) of cellular technology. 5G is intended to support a virtually endless stream of new wireless devices, called the "Internet of Things". 5G is capable of inflicting a new level of harm on the entire population.

About Wireless Smart Meters: Please visit this web site (<https://smartgridawareness.org/>) for a comprehensive discussion of the many issues raised by Wireless Smart Meters.

What can you do?

- Listen to the scientists and the physicians of the biomedical research community. They study and write about the health impact of radiofrequency radiation from wireless devices.
- Support bills that REDUCE the levels of radiofrequency radiation in our environment, and oppose bills that INCREASE those levels.
- Oppose, especially, bills or policies that MANDATE or ENABLE radiation exposure for anyone, but especially for children.
- Support bills that reverse the fees or policies that penalize Maryland residents for trying to protect themselves, their families, and their communities from the harm caused by radiofrequency radiation.
- Take care of yourselves, your families, and your colleagues by lowering the exposure of them all to radiofrequency radiation, both at home and at work.

Who am I?

I am a retired U.S. Government career scientist (Ph.D., Applied Physics, Harvard University, 1975). During my Government career, I worked for the Executive Office of the President of the United States, the National Science Foundation, and the National Institute of Standards and Technology. For those organizations, respectively, I addressed Federal research and development program evaluation, energy policy research, and measurement development in support of the electronics and electrical-equipment industries and the biomedical research community. I currently interact with other scientists and with physicians around the world on the impact of electromagnetic fields, including radiofrequency radiation, on human health.

Thank you for devoting your time and energy to public service.

Regards,

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