

Dr. David Earl-Graef: Indiana University 1984, MD

Military: Lt Col, Chief of Aerospace Medicine USAF (Service Honorable)

Academic Faculty Appointments-Retired and no longer affiliated.

University of Illinois School of Medicine-Resident and Assist. Lecturer in Medicine

Georgetown University School of Medicine- Chief Nuclear Medicine Dept of Radiology

Uniformed Services University of the Health Sciences School of Medicine- Lecturer/Editor

Founding Faculty, Virginia Tech School of Medicine- Chief of Nuclear Medicine Dept of Radiology

Certifications:

American Board of Internal Medicine

American Board of Nuclear Medicine

USAF School of Aerospace Medicine

Financial disclosure: No Financial conflicts of interest

Adverse administrative actions/disciplinary/malpractice: None in over 30 years

Goals and an Essential Question



The City: It appears, based on their own actions and statements, their end goal is **100% compliance** with EMR emitting Smart meters on your water supply.

Our end goal: To restore the proper transparent relationship between local city government and the residents. To preserve your Constitutional Rights **so that you and not the city makes informed decisions** regarding those actions that **you feel impact on your families health, safety, privacy and property rights.**

Which of us has a financial conflict of interest???

Electro Magnetic Radiation and Smart Devices. What's the Problem??



In an age of mis-information, discernment is not so much being able to distinguish the truth from what is not true, it is being able to find the un-truth or lie hidden in the truth- Charles and Eileen (my beloved departed parents)

“EMR (Electro Magnetic Radiation) is already a classified 2B substance possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC) and pointing out the need for more studies”. - World Health Organization

Can you spot the truth and the lie hidden in the truth?

Is there a financial conflict of interest?

Largest donors to the World Health Organization (WHO) from 2020 to 2021 *(in millions U.S. dollars.)*

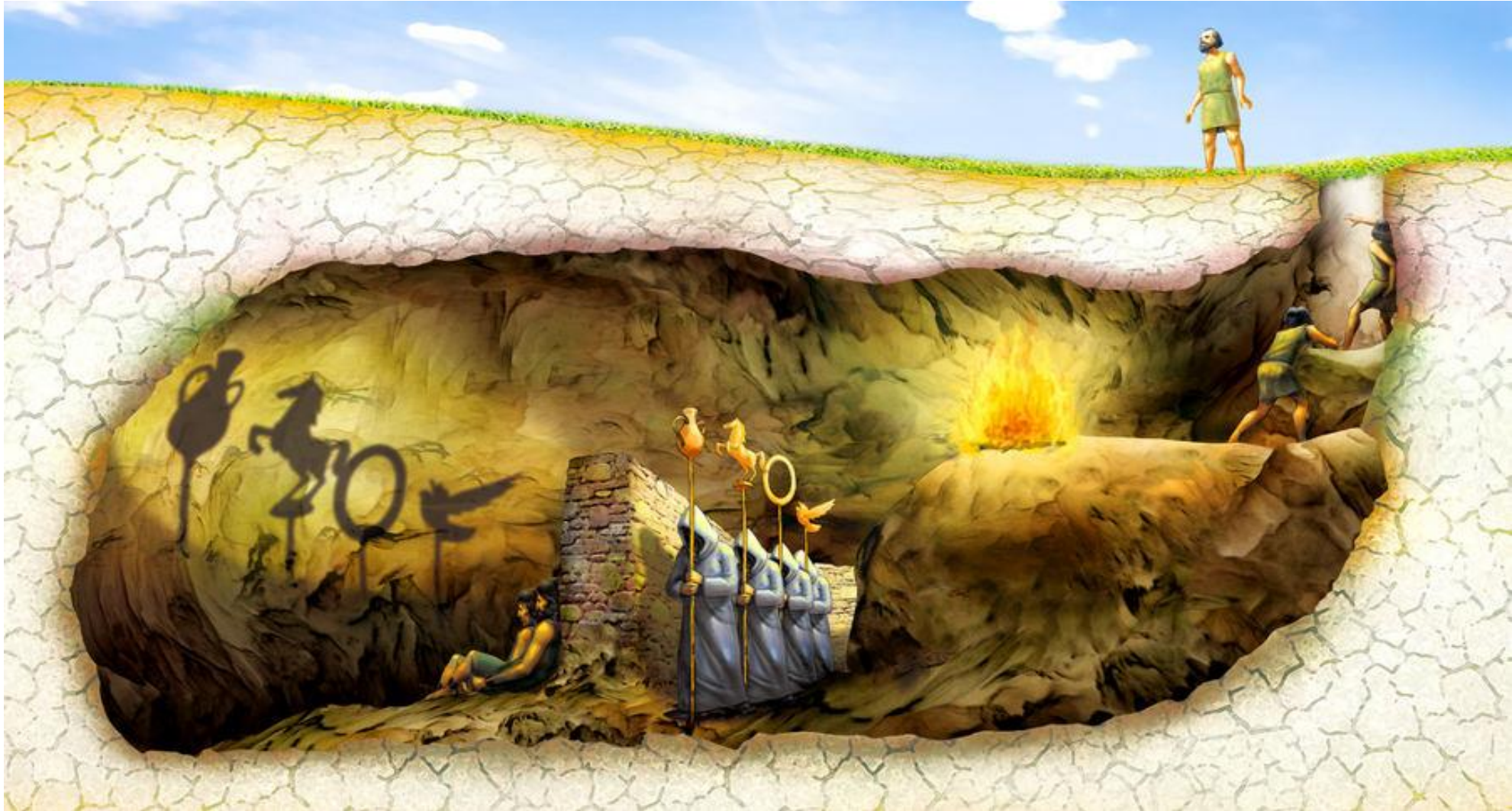
Germany 1,268

Bill and Melinda Gates Foundation 751

United States 693

Source: STATISTA

There is much we don't know about exposure to Electro Magnetic Radiation (EMR). **But they** know a lot more than you are being told !!



Independent scientists (no conflicts of interest) are sounding the alarm and calling for increased public awareness and practical limitations on exposure.

Based on my review of the scientific literature:

- 1. EMR is harmful to living tissue and EMR device deployment is exponentially increasing esp. 5G**
- 2. The effects are both Stochastic and Deterministic.**
- 3. The safe levels of exposure have NOT been fully established by the FCC EHT v FCC 2021 United States Court of Appeals and has not been overturned.**
- 4. There is a well known and clearly defined mechanism for oncogenesis (cancer) and this has been shown to occur in controlled laboratory studies and with a high degree of confidence in humans.**

Principle teaching point.

Dispelling bias is a difficult but necessary lifetime task in the search for truth.

This will only get worse **NOT BETTER** with Artificial Intelligence.



Which one of the pictures below represents a place that should **NOT** be a part of ones routine commute home from work?



Answer: Both of them **but why ??**

*Critical thinking begins with challenging underlying **beliefs/ biases** not simply accepting what you are told by “experts” **and that includes myself.**



Censorship is the the enemy of reason and results in false conclusions but is not stronger than the truth.



So what if I didn't censor additional
critical information???



Hint: One is stationary and one mobile but **both of them** share a **common purpose**



How many of the below emit a type of radiation that is known to be harmful to living tissue?



Answer: At least 3 and possible all 7 of them.



Technology and the Electro Magnetic Spectrum at the Intersection of the Natural and Un-Natural World



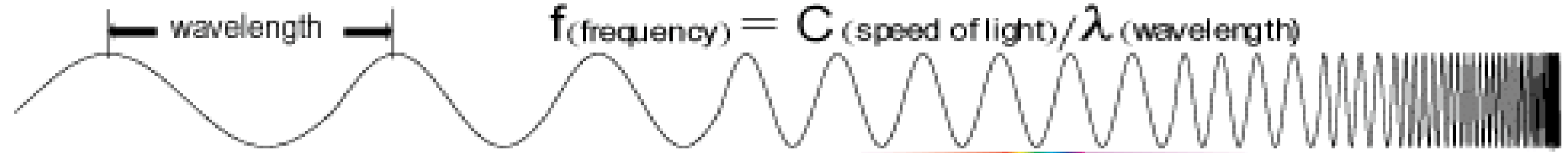
“Within the natural world there are boundaries. Technology is being forced on us that crosses the threshold of those natural boundaries”. – Maj. Corina Earl-Graef

FCC

NRC

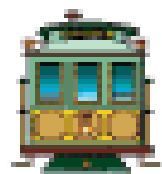
DC SELF 3 Hz ELF 3 kHz VLF 30 kHz LF/MF/HF/VHF/UHF 3 GHz SHF-EHF 300 GHz 430 - 750 THz 30 PHz 3 EHz 300 EHz

non-ionizing ionizing

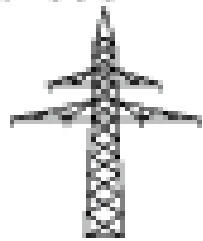


geomagnetic & sub ELF sources extremely low frequency sources very low frequency radio frequency spectrum microwaves infrared visible ultra violet x-rays gamma cosmic rays

EMF Sources



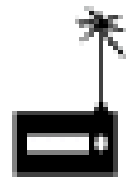
earth & subways



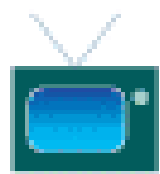
AC power



CRT monitors



mobile AM/FM



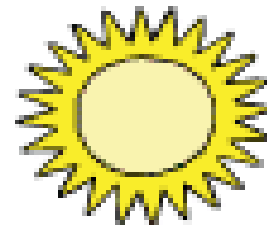
TV



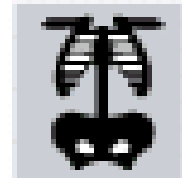
cell/ PCS



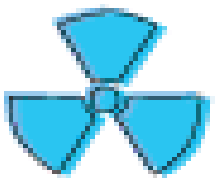
microwave & satellite



sunlight

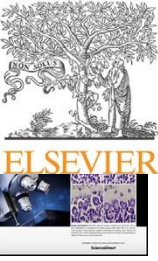


medical x-rays



radioactive sources

Gigahertz (GHz) 10-9 Terahertz (THz) 10-12 Petahertz (PHz) 10-15 Exahertz (EHz) 10-18 Zettahertz (ZHz) 10-21 Yottahertz (YHz) 10-24



Effects of electromagnetic fields exposure on the antioxidant defense system

Epub 2017 Aug 2. J. Micro. Untrastruc

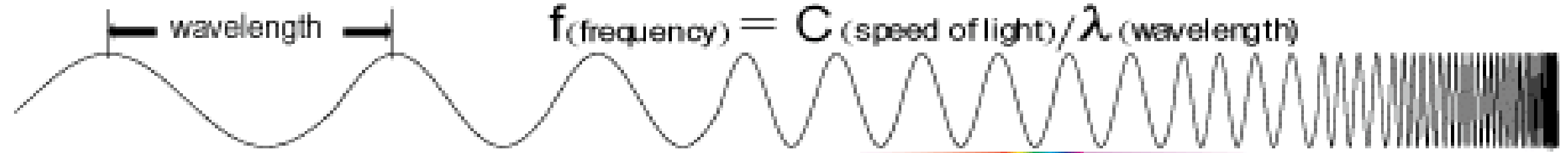
Elfide Gizem Kıvrak *, Kıymet Kübra Yurt, Arife Ahsen Kaplan, Isinsu Alkan, Gamze Altun

Department of Histology and Embryology, Faculty of Medicine, Ondokuz Mayıs University, Samsun, Turkey

- 1. The EMR/Oxygen interaction leads to reactive oxygen species (ROS) ie highly toxic free radicals**
- 2. These can damage cellular components such as proteins, lipids and DNA.**
- 3. Oxidative stress occurs if the antioxidant defense system is unable to prevent the harmful effects of free radicals. eg. glutathione/superoxide dismutase**
- 4. Exposure to EMF is known to increase free radical concentrations.**

DC SELF 3 Hz ELF 3 kHz VLF 30 kHz LF/MF/HF/VHF/UHF 3 GHz SHF-EHF 300 GHz 430 - 750 THz 30 PHz 3 EHz 300 EHz

non-ionizing **ionizing**



EMF Sources



Gigahertz (GHz) 10⁻⁹ Terahertz (THz) 10⁻¹² Petahertz (PHz) 10⁻¹⁵ Exahertz (EHz) 10⁻¹⁸ Zettahertz (ZHz) 10⁻²¹ Yottahertz (YHz) 10⁻²⁴

J. Of Exp Oncology 2013 Sep;35(3):219-25.

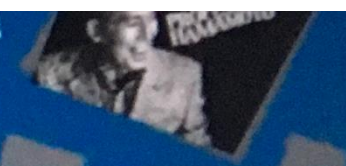
Overproduction of free radical species in embryonal cells exposed to low intensity radiofrequency radiation

[A Burlaka¹](#), [O Tsybulin](#), [E Sidorik](#), [S Lukin](#), [V Polishuk](#), [S Tsehmistrenko](#), [I Yakymen](#)

1. Long-term **exposure of humans to low intensity radiofrequency electromagnetic radiation (RF-EMR) leads to a statistically significant increase in tumor incidence.**

2. Exposure of **developing quail embryos 900 MHz during at least one hundred and fifty-eight hours (6.5 days) leads to a significant overproduction of (ROS) and oxidative damage of DNA in embryo cells.**

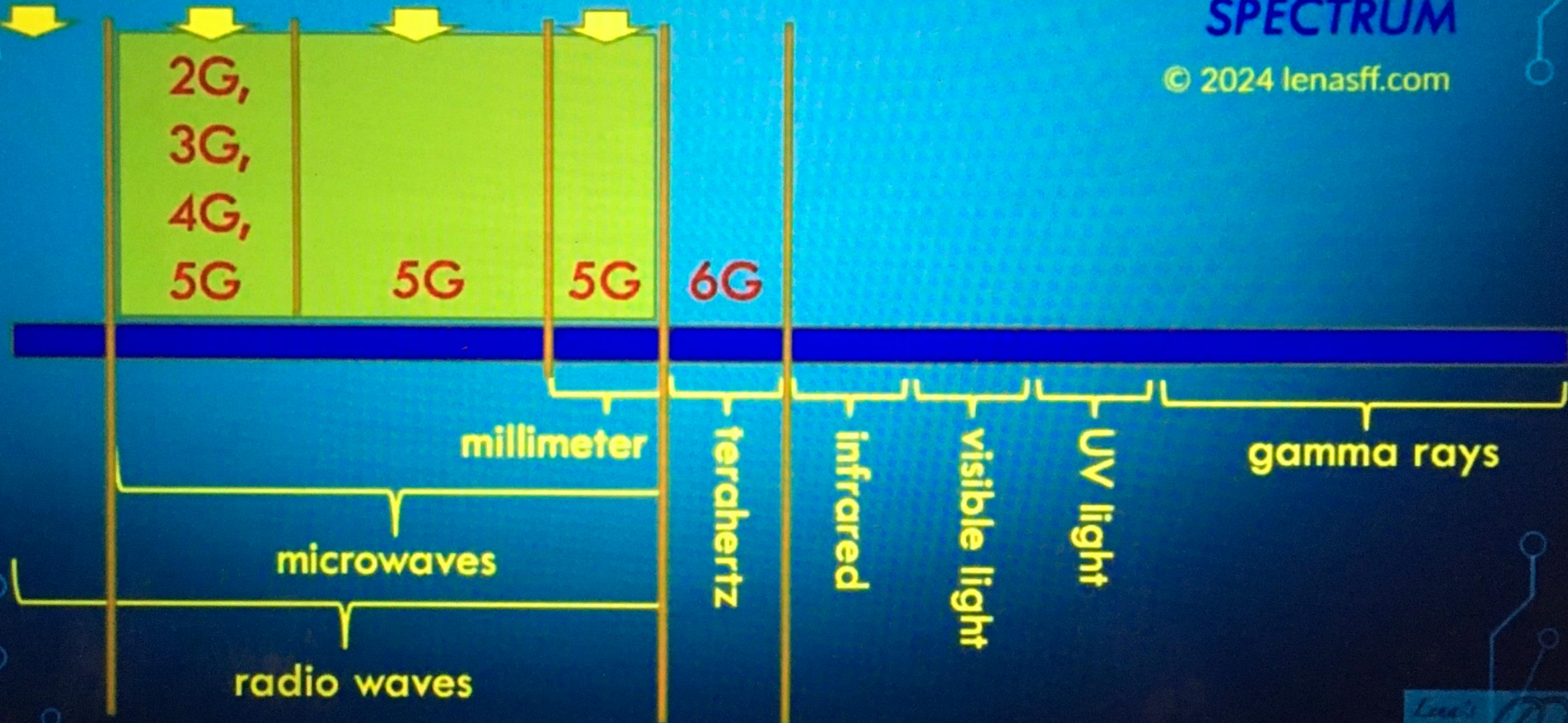
3. **These oxidative changes may lead to pathologies up to oncogenic (cancer) transformation of cells.**



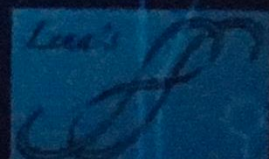
ELECTROMAGNETIC SPECTRUM

© 2024 lenasff.com

30KHz - 300 MHz 300MHz - 6GHz 6GHz - 30 Ghz 30GHz - 300GHz



Microwave Spectrum: 300,000,000 million cps to 300,000,000,000 billion cps



Who was responsible to ensure the safety???



United States Court of Appeals
FOR THE DISTRICT OF COLUMBIA CIRCUIT

No. 20-1025

September Term, 2020
FILED ON: AUGUST 13, 2021

ENVIRONMENTAL HEALTH TRUST, ET AL.,
PETITIONERS

v.

FEDERAL COMMUNICATIONS COMMISSION AND UNITED STATES OF AMERICA,
RESPONDENTS

Consolidated with 20-1138

On Petitions for Review of an Order
of the Federal Communications Commission

Before: HENDERSON, MILLETT and WILKINS, *Circuit Judges*

J U D G M E N T

These causes came on to be heard on the petitions for review of an order of the Federal Communications Commission and were argued by counsel. On consideration thereof, it is

ORDERED and **ADJUDGED** that the petitions for review be granted in part and the case be remanded to the Commission to provide a reasoned explanation for its determination that its guidelines adequately protect against harmful effects of exposure to radiofrequency radiation unrelated to cancer, in accordance with the opinion of the court filed herein this date.

Per Curiam

FOR THE COURT:
Mark J. Langer, Clerk

BY: /s/

Michael C. McGrail
Deputy Clerk

Date: August 13, 2021

Opinion for the court filed by Circuit Judge Wilkins.
Opinion dissenting in part filed by Circuit Judge Henderson.



On Petitions for Review of an Order
of the Federal Communications Commission
Before: HENDERSON, MILLETT and WILKINS, Circuit Judges

JUDGMENT

“ORDERED and ADJUDGED that the petitions for review be granted in part and the case be remanded to the Commission to provide a reasoned explanation for its determination that its guidelines adequately protect against harmful effects of exposure to radiofrequency radiation.

Per Curiam

BY:

FOR THE COURT:

Mark J. Langer, Clerk

isi

Michael C. McGrail

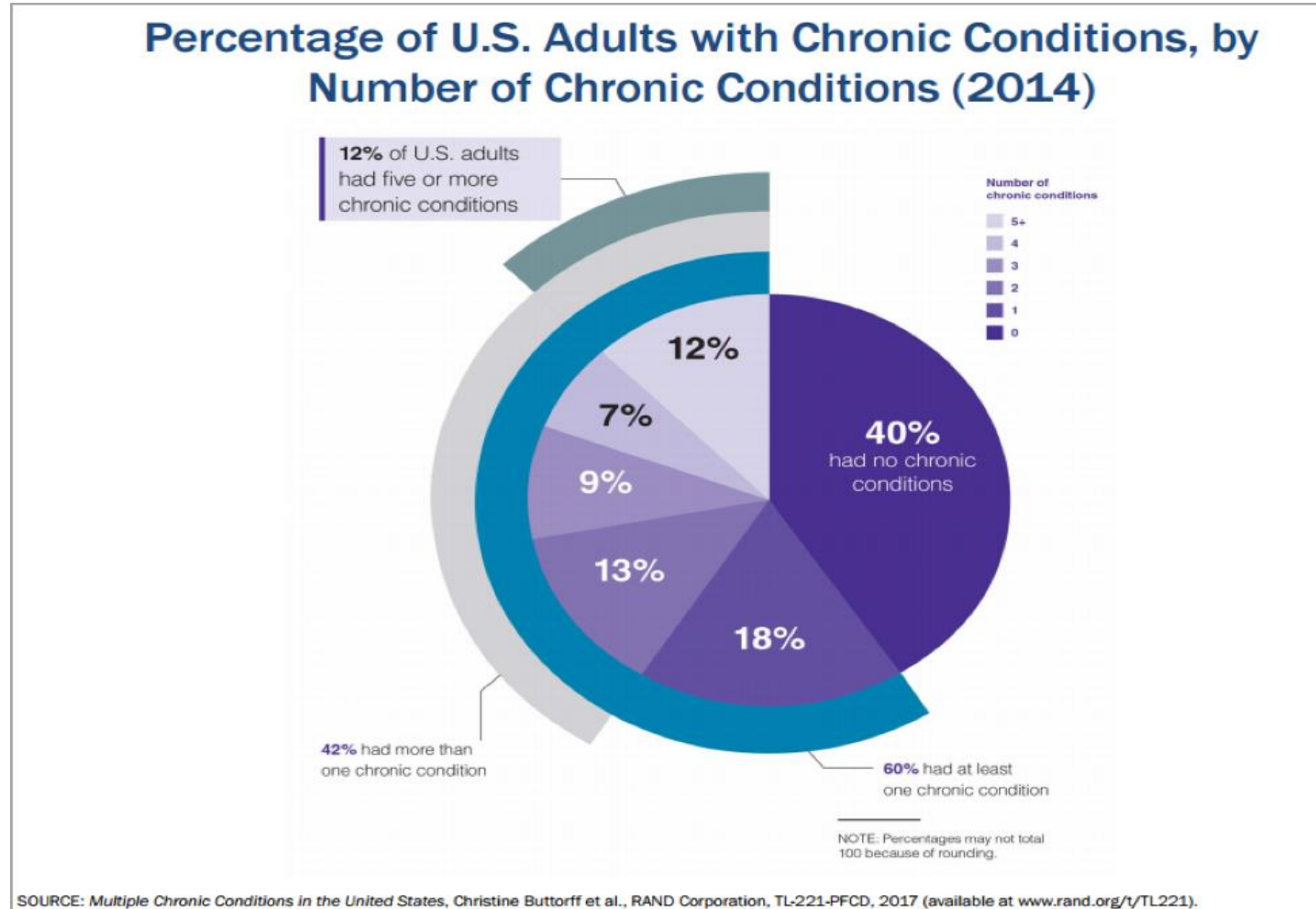
Deputy Clerk

Why the Judgement against the FCC?? The FCC only looked at thermal effects and data from the 1990's. Totally ignored ROS !!!!!

In the court case they looked at effects **other than cancer**. The plaintiff's attorneys (very smart) chose this approach because deterministic systems follow a clear cause-and-effect relationship, while stochastic systems involve probabilistic outcomes.



Whatever is happening US adults are getting sicker



But what about cancer in humans ???

Why are so many young people getting cancer? What the data say-PubMed

Cancer cases grow by 79% in young people - as 'alarming' study suggests key reasons-Sky News

As cancer cases rise among younger adults, some types of the disease have higher burden than others, study finds- CNN

What ever the cause cancer rates in YOUNG patients are exploding

The screenshot shows the JNM website interface. At the top left is the logo for the Society of Nuclear Medicine & Molecular Imaging (SNMMI) and the journal title 'JNM The Journal of Nuclear Medicine'. A search bar is located at the top right. Below the search bar is a navigation menu with options: Home, Content, Subscriptions, Authors, Info, About, and More. Social media icons for a microphone, Facebook, LinkedIn, X, and RSS are also present. The main content area features the article title 'Latest Advances in Imaging Oxidative Stress in Cancer' by Hannah E. Greenwood and Timothy H. Witney, with the journal information: 'Journal of Nuclear Medicine November 2021, 62 (11) 1506-1510; DOI: https://doi.org/10.2967/jnumed.120.256974'. Below the article title are tabs for 'Article', 'Figures & Data', 'Info & Metrics', and 'PDF'. An 'Abstract' link is visible at the bottom left. On the right side, there is a section titled 'In this issue' with a small JNM logo and the text 'Journal of Nuclear Medicine Vol. 62, Issue 11 November 1, 2021'.

Nov 2021 H. Greenwood and T. Whitney

1. Deleterious effects of oxidative stress result in damage to DNA, proteins, and membranes to include blood brain barrier (toxins/CNS)

2. Cancer cells upregulate protective antioxidant pathways, which are further amplified in drug-resistant tumors.

•Published: 06 September 2022 Nature Reviews Clinical Oncology
Is early-onset cancer an emerging global epidemic? Current evidence and future implications

8 November 2024

Yale experts see rise in younger, turbo cancer, *colorectal, breast and GI tract cancers seem to lead the way.*
CancerActive publication





IARC CLASSIFIES RADIOFREQUENCY ELECTROMAGNETIC FIELDS AS POSSIBLY CARCINOGENIC TO HUMANS May 2011

“One study of past cell phone use (up to the year 2004), showed a **40% increased risk for gliomas** (brain tumors) in the highest category of heavy users (**reported average: 30 minutes per day over a 10-year period**).

IARC Director Christopher Wild- "it is important that additional research be conducted into the long- term, heavy use of mobile phones. Pending the availability of such information, **it is important to take pragmatic measures to reduce exposure such as hands-free devices or texting.** "

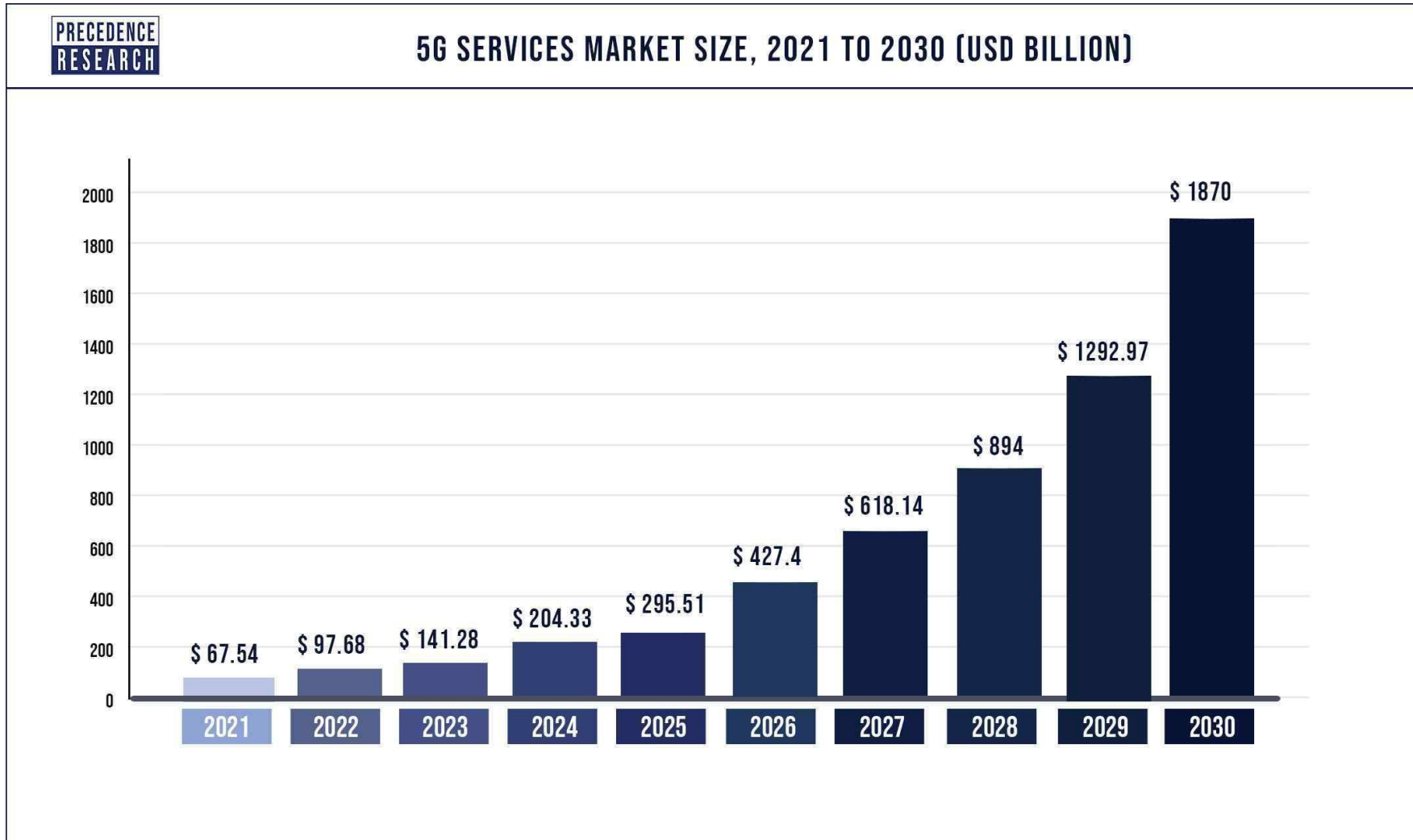
Can you spot the lie hidden in the truth in the above paragraph now???

IARC Director Christopher Wild- **"it is important that additional research be conducted"**



We have plenty! The problem is the FCC regulatory agency responsible won't look at the data even when remanded by the court. Could a trillion dollar industry have anything to do with it? Something bigger?

The global 5G services market size was estimated at US\$ 64.54 billion in 2021 and is expected to hit around US\$ 1.87 trillion by 2030, poised to grow at a CAGR of 44.63% during the forecast period 2022 to 2030.



We already know by the application of statistical new models.



Simply stated: Correlation does NOT equal causation however in NON double blind NON placebo controlled open observational studies, there is a point where the correlation is so strong **in the presence of a known mechanism of action and supporting translational research** that new statistical models “approaches a proof” with a **very high degree of certainty**”.

*In medical ethics **where there exists a potential of harm** one must also accept a lower threshold of “statistical proof” in the risk benefit analysis*

There are practical solutions
but we need freedom of choice
and freedom of voice!!!!



Post lecture question.

According to an article published in the Buffalo Bulletin, 25 July 24, the **American Cancer Society** stated that:

“Radio Frequency Radiation can’t damage DNA directly. It is only capable of heating up particles by causing them to vibrate even in large quantities” (of radiation)

True or false?

Post lecture question.

**Answer- True and False. While true the energy is not enough to cause ionization and direct damage to DNA
The damage occurs **indirectly** by the formation of ROS.**

The ACS also states that they take their guidance from trusted agencies like the FCC.

Are you awake you yet?



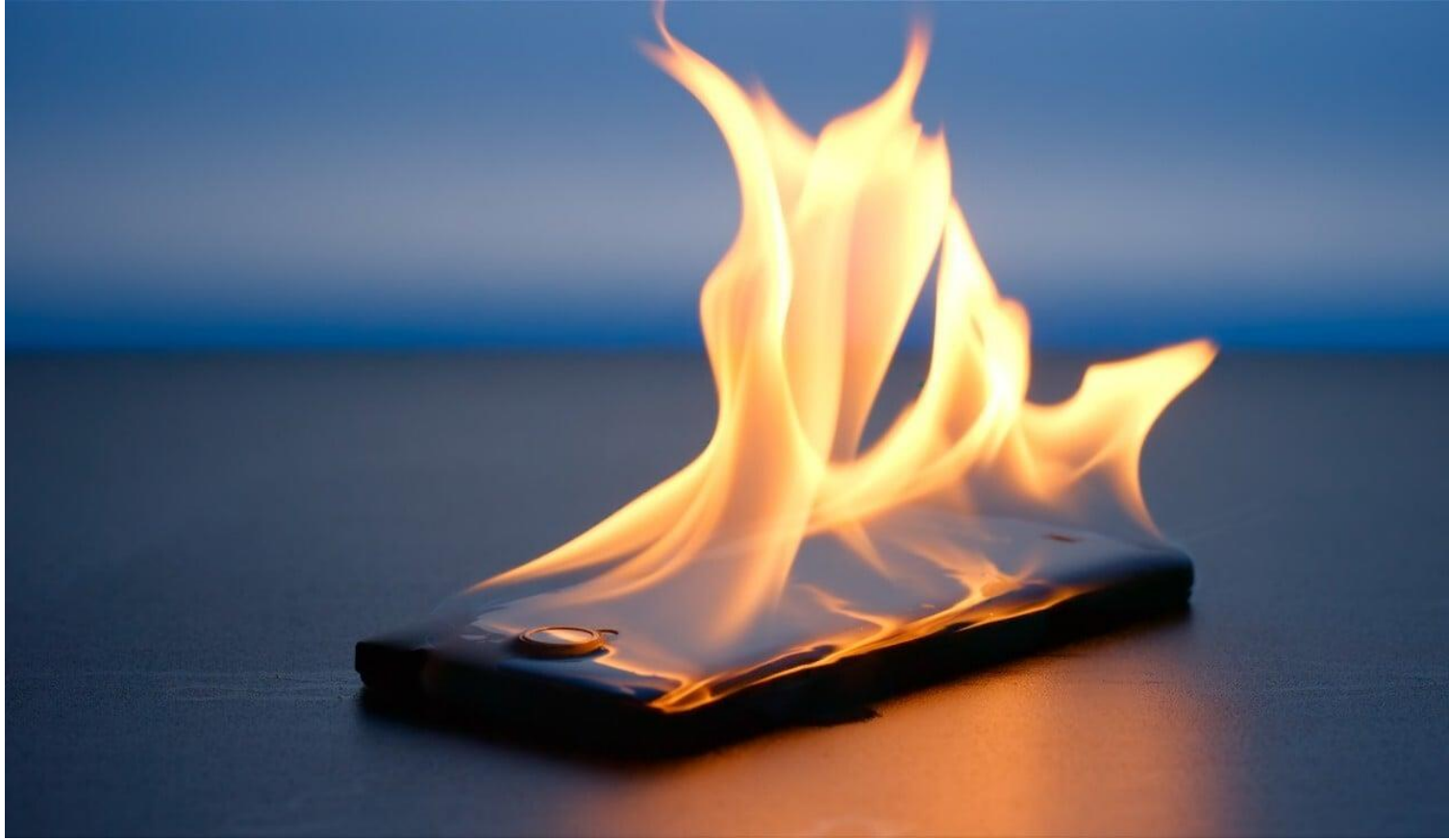
It is my **scientific opinion** the level of exposure to EMR in many, if not most homes in Buffalo Wyoming, is already well over the safe limit of the human body to absorb and the stochastic effects are cumulative especially for those who are most sensitive based on the current scientific evidence.

Review: What we know and is strongly supported by the scientific literature about Electro Magnetic Radiation (EMR):

- 1. EMR is harmful to living tissue and EMR device deployment is exponentially increasing esp. 5G**
- 2. The effects are cumulative over one's lifetime (the meters add to this lifetime exposure) and effects are both Stochastic and deterministic.**
- 3. The safe levels of exposure have NOT been established by the FCC.**
- 4. There is a well known and clearly defined mechanism for oncogenesis and this has been shown to occur in controlled laboratory studies and with a high degree of confidence in humans.**

If this is not bad enough, what else did the City of Buffalo not tell you about the hazards?





PC MAG

By Jason Cohen updated Sept 20, 2024

Why Phones Explode, and How to Prevent It From Happening to You

The average smartphone (or Smart meter) is unlikely to explode, but it happens.

These tips may help prevent your phone (or now your house) from going up in smoke.

malware overworking the CPU. Connected to the cloud !!!!

***It is my understanding that the city does not derive a “benefit” from your insurance so **they are liable** but consult an attorney if this happens. Especially if they do not get your signed informed consent !!!! The meters are their property.**

“It could be something outside your direct control. Batteries degrade over time, so if a device has been used for several years—like the iPhone 4 that caught fire”

What is the challenge we are facing in our community and why **we desperately need your help** ??? It is **NOT** about telling you to get rid of all your Smart devices. It is about restoring your free choice in the matter. **Risk v Benefit**



Notable Quotes

“The downside I see to it (approving an opt out) is it looks like we’re buying into this **baloney** and I just don’t **believe** in that. **It’s not a health hazard**”. –Mike Madden, Bulletin 15 Aug 2024

I’m concerned because the meter is where my grandchildren have their play area-Buffalo resident

“My thought was I’ll just file an action against each one of them (that refuses the meter). That’s the way I’d handle it” -Dennis Kirven, Bulletin 25 July 2024

“I don’t care !!! I don’t want to hear about it or have anything to with the issue” – Buffalo Resident

“I have no problem with the new meters”- Buffalo Resident

**“All they told me was that I was getting a new meter”-
Buffalo Resident**

“ I am concerned because the meter is just a few feet away from where I sleep- Buffalo Resident

“I heard something but I don’t know much about it”- Buffalo resident

“Forcing people to get one is flat out wrong”-Buffalo Resident

“They have not read my meter in years”-Buffalo Resident

“ I have no concern. I let my son play with as many electronic devices as he wants and for as long as he wants”. Buffalo City official



