Immune Impacts of Unnatural EMF

Ray Kearney

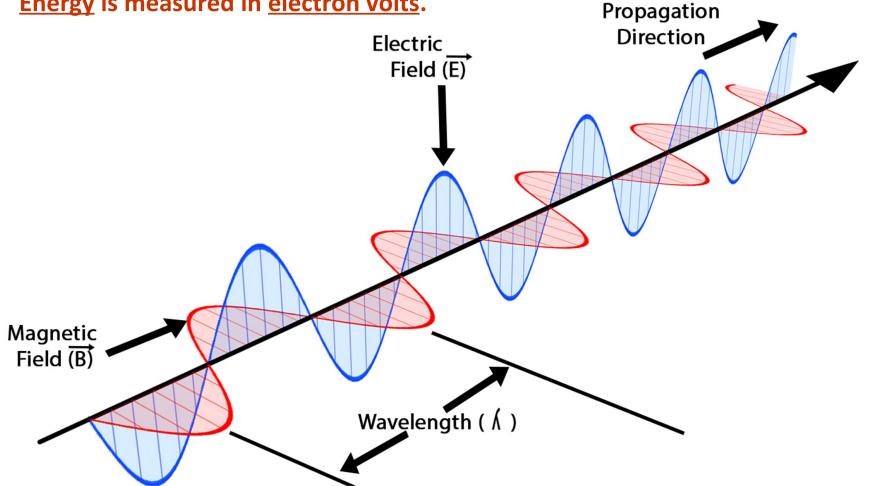
Email: ray.kearney@outlook.com

Electromagnetic Wave

<u>Frequency</u> is measured in <u>cycles per second</u>, or

Hertz. Wavelength is measured in metres.

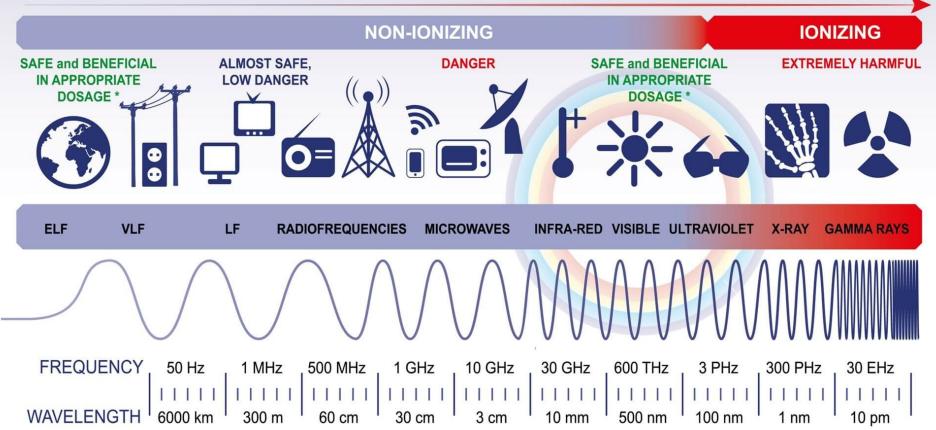
Energy is measured in electron volts.



https://en.wikipedia.org/wiki/Electromagnetic_radiation

Non-ionizing radiation does not remove electrons from atoms or molecules

ENERGY



5G Spectrum – What Frequencies Does 5G Use?



5G supposedly allows more devices to use data faster and more efficiently.

Carriers must use a mix of 5G frequencies to cater to different data Image Source: <u>T-Mobile</u> demands.

5G publicity: 100+ News Stories (Updated 17/8/2023)

https://www.saferemr.com/

ICNIRP - INTERNATIONAL COMMISSION ON NON-IONIZING RADIATION PROTECTION

5G limits are set for exposure to ensure energy (heat)

from a single source of Radio Frequency Radiation

(RFR), does not cause an increase of 2°C or 5°C (heating)

in or on the body, for short-term exposures

(6 or 30 minutes).

Increase in EMR pollution 2004 – 2022, with increase in 5G

Total address or place Q

HORWY

Stockholm

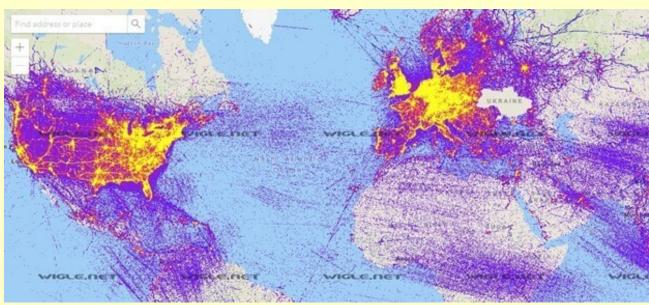
Moscow

Mo

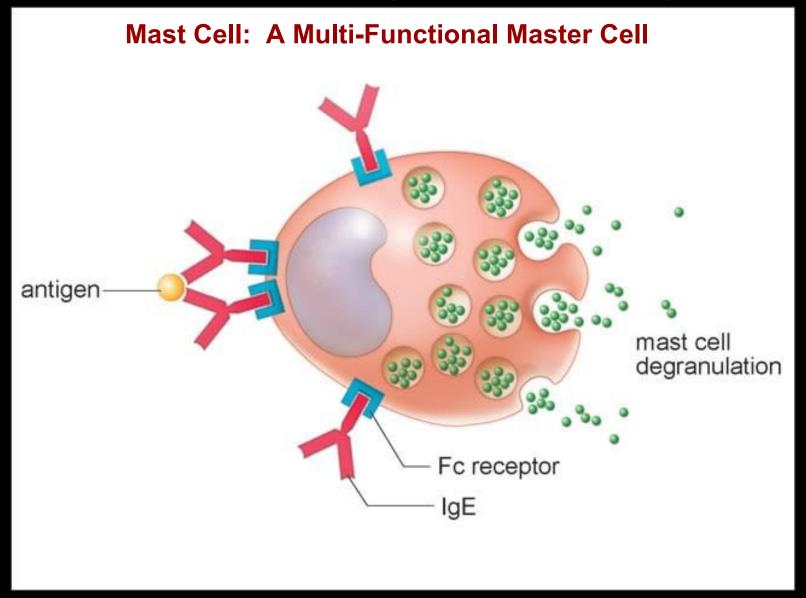
2004

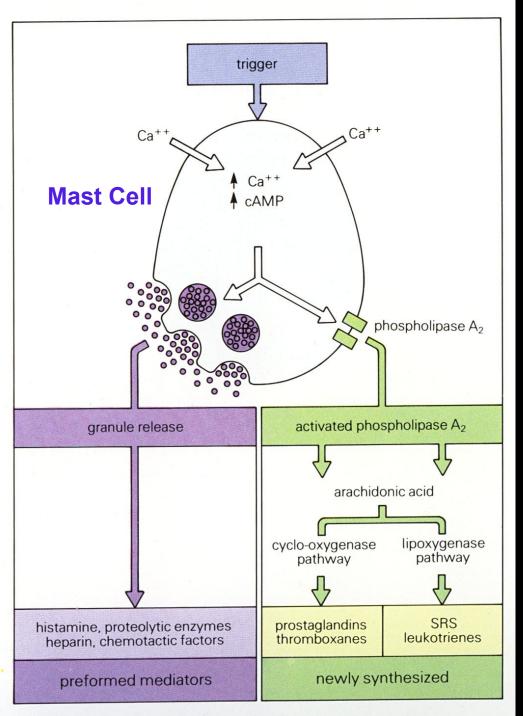
2022

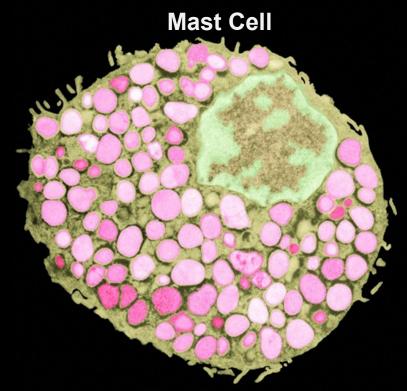
5G roll-out in USA 2019



Type I or Immediate Hypersensitivity Reaction







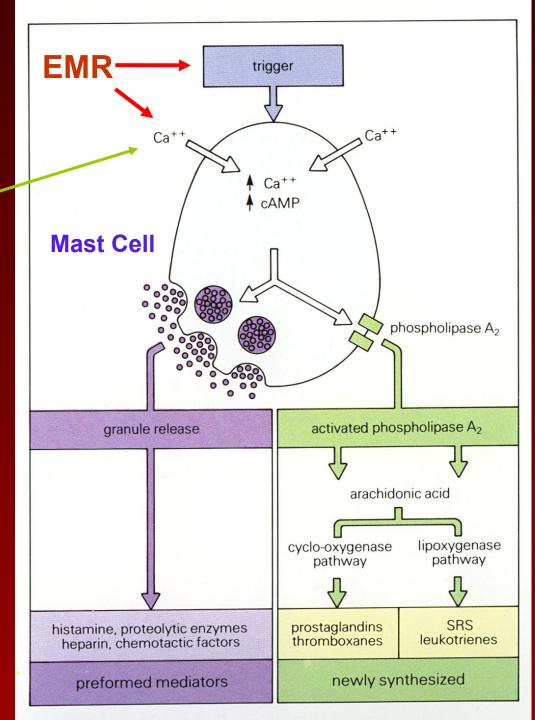
A Multi-Functional Master Cell

Wellcome Images

I. Roitt, J. Brostoff & D. Male Immunology Non-thermal EMR exposures act via voltage-gated calcium channel (VGCC) activation.

Mast Cell Activation Syndrome

M. L. Pall Rev Environ Health 2015; 30(2): 99–116



Trigger→ Mast Cells ← Trigger - IgE - Allergen

EMR

Immediate release

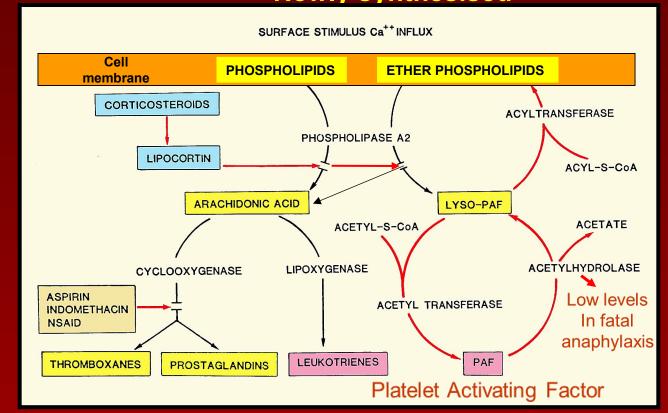
Late phase

Preformed mediators

e.g.,

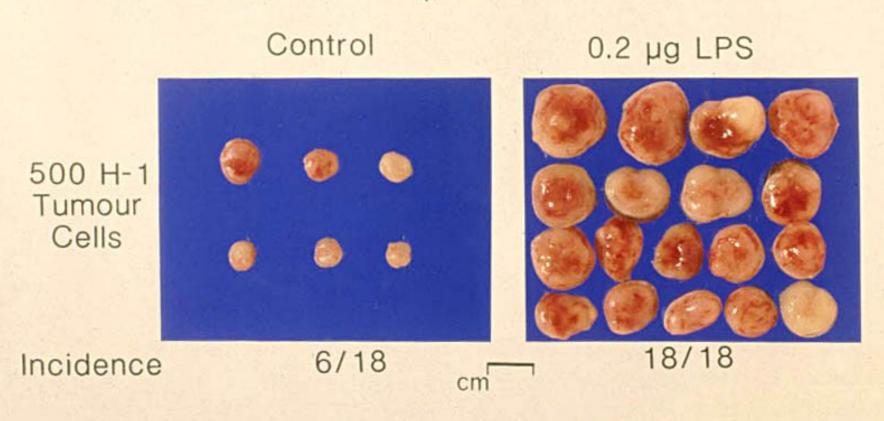
- Histamine
- Proteolytic enzymes
- Heparin
- Chemotactic factors

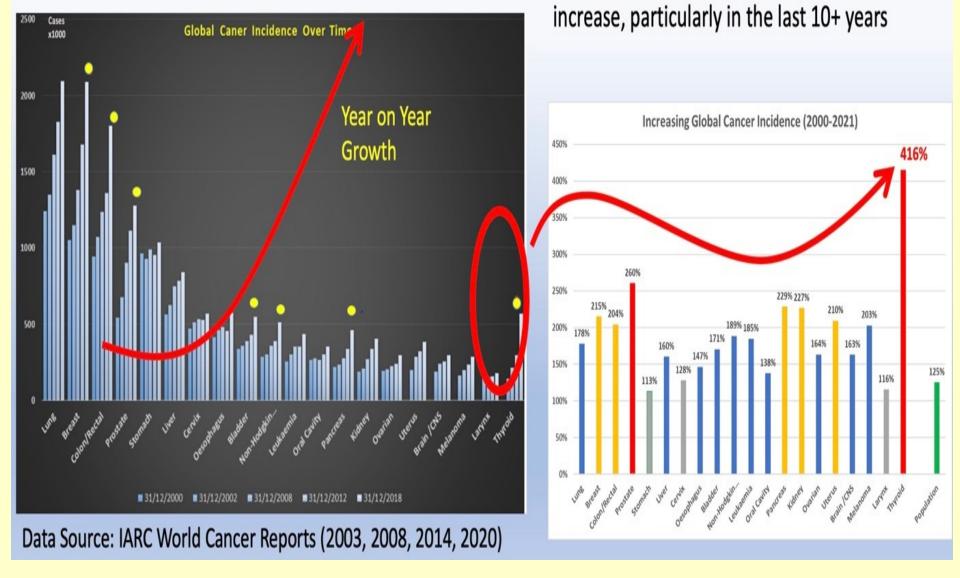
Newly synthesised



R. Kearney

Average Tumour Size (Day 18) CBA T/6 o Mice, Age: 20 Weeks





A number of cancers
 o have seen an exponential

The graphic above was created by <u>Steven Weller</u>, PhD student, in his presentation to the Griffith University Faculty of Medicine and Dentistry.

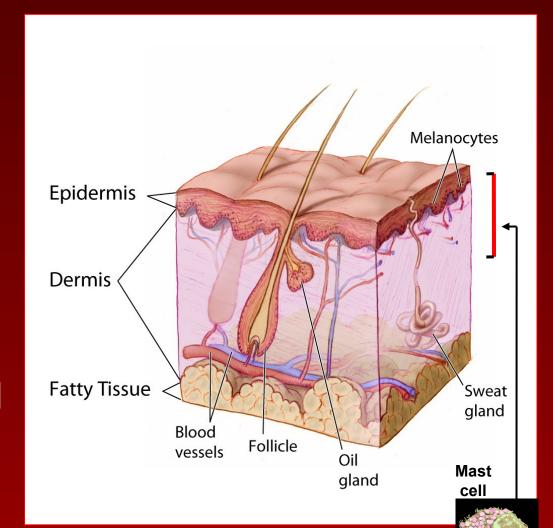
Symptoms of Electromagnetic Hypersensitivity Syndrome "EHS" (Mast Cell Activation Syndrome "MCAS")

Include:

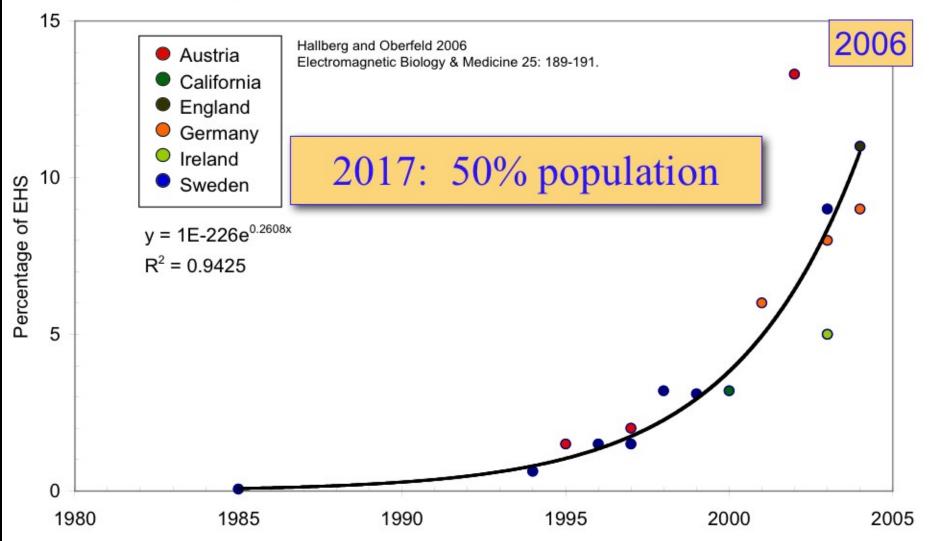
- severe headaches,
- fatigue, stress, sleep disturbances,
- skin symptoms (e.g., prickling, burning sensations and rashes),
- muscle aches,
- nausea,
- nose bleeds,
- dizziness and heart palpitations.
- rapid heartbeat (tachycardia) and irregular heartbeat (arrhythmia)

Electromagnetic Hypersensitivity Syndrome ("EHS")

- A profound increase in mast cells
- Empty zone between dermoepidermal junction and mid-to-upper dermis is infiltrated with a high density of mast cells



Estimated prevalence of EHS in various countries



https://pubmed.ncbi.nlm.nih.gov/27454111/

Conflicting conclusions

"There are no conclusive direct hazards to human tissue as a result of electromagnetic radiation."

http://www.who.int/mediacentre/factsheets/fs193/en/

ICNIRP advises

Versus

"Above is <u>completely and blatantly untrue!"</u>
(Bio-Initiative Report)

http://www.argotheme.com/organecyberpresse/IMG/pdf/BioInitiativeReport2012.pdf

Reflects a <u>dangerous corruption</u> of science by the *WHO et al.*

https://www.saferemr.com/

https://www.degruyter.com/document/doi/10.1515/reveh-2023-0046/html

5G mobile networks and health—a state-of-thescience review of the research into low-level RF fields above 6 GHz

•<u>Ken Karipidis</u>, (ARPANSA), <u>Rohan Mate</u>, <u>David Urban</u>, <u>Rick Tinker</u> & <u>Andrew Wood Journal of Exposure Science & Environmental Epidemiology</u> volume 31, pages585–605 (2021)

Extract: "This review showed <u>no confirmed evidence</u> that low-level RF fields above 6 GHz such as those used by the <u>5 G</u> network are hazardous to human health.....

Future epidemiological studies should continue to monitor long-term health effects in the population related to wireless telecommunications."

https://www.nature.com/articles/s41370-021-00297-6

ARPANSA: Aust. Radiation Protection and Nuclear Safety Agency

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Note: Victor Leach (ORSAA): https://www.orsaa.org/

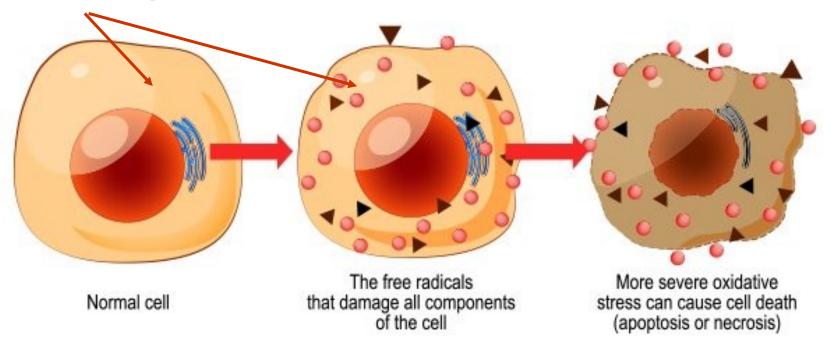
Video: https://www.youtube.com/watch?v=P6jrULLhnCo

"ARPANSA ignored the positive results in its OWN data bank."

ORSAA: Oceania Radiofrequency Scientific Advisory Association Inc.

Oxidative stress

EMR https://www.saferemr.com/ 282 of 311 Studies

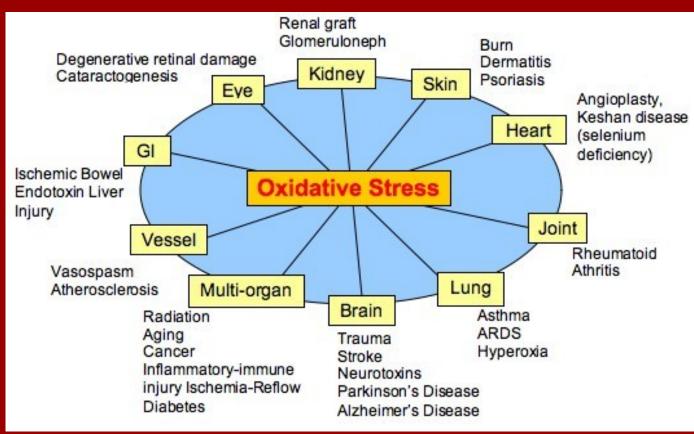


A <u>free radical</u> is an oxygen-containing molecule that consists of <u>unpaired electrons</u>, e.g., <u>superoxide</u> radicals, <u>hydroxyl</u> radicals, and <u>nitric oxide</u> radicals. These free radicals are <u>highly reactive</u> with the other molecules.

low-intensity
electromagnetic
frequency (EMF)

|
282/311 studies
(91%)
|
- EMFs induce →
oxidative stress
https://www.saferemr.com/

Exposure to weak
EMF can result in
decreased melatonin
production.



Anti-oxidant

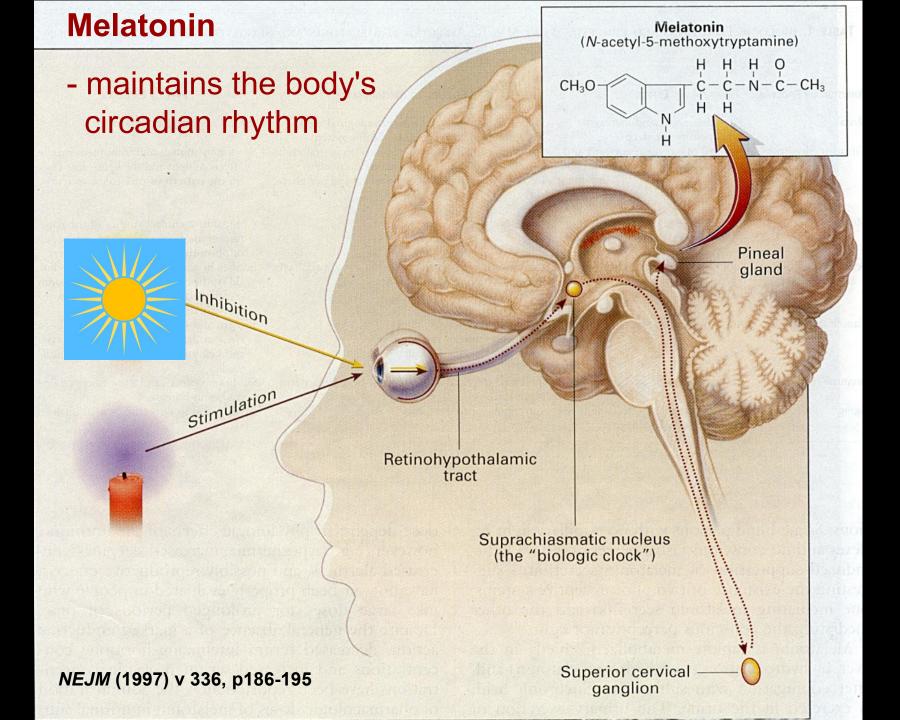
11/13 studies

http://www.smartvoter.org/2014/06/03/ca/state/vote/mottus_k/paper3.html

>100 studies

https://www.semanticscholar.org/paper/Pineal-melatonin-level-disruption-in-humans-due-to-Halgamuge/deb3239b41b67cbfdfcd5052f427ff2fea10c22a

Electromagnetic Biology and Medicine, Ahead of Print, July7, 2015 http://informahealthcare.com/doi/abs/10.3109/15368378.2015.1043557



MELATONIN

Biological properties e.g.,

- capacity to scavenge free radicals, especially the hydroxyl radical (e.g., ↓ neuron & heart damage)
- prevents DNA damage by free radicals
- protects against cancer initiation; anti-cancer
- binds calmodulin and blocks activation of oestrogen receptor-alpha
- down-regulates glucocorticoid receptors

Journal of Pineal Research (2012) Vol. 52 p. 1-11

MELATONIN

Activates:

- bone marrow cells
- natural killer (NK) cells
- antibody response e.g., anti-bacterial/viral (Th1) responses and <u>suppresses</u> allergic (Th2) IgE responses.
- antibody-dependent cell cytotoxicity
- T-cell proliferation (& increases size of thymus gland)
- monocytes, neutrophils and cytokine release (e.g., IL-1, IL-6 and TNF)

Risk for Melatonin Deficiency

 Most medications prescribed to lower blood pressure may reduce serum melatonin levels

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e.g., beta-blockers,
calcium channel blockers,
calcium antagonists
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- An estimated 40% of individuals who take beta-blockers have sleep disorders
- Tobacco smoking reduces melatonin levels by >50%
- Melatonin should be combined with <u>statins</u> to reduce the free-radical-mediated side effects of these cholesterol-lowering drugs.

The Dangers of Environmental Illnesses caused by Electromagnetic Fields

- Electro-Hypersensitivity (EHS) is a documented debilitating disease.
- There is an enormous body of evidence to support EMFs having health effects (> 2500 papers)

https://www.saferemr.com/

http://www.powerwatch.org.uk/science/studies.asp

http://www.powerwatch.org.uk/health/sensitivity.asp

http://www.cellphonetaskforce.org/?page_id=128

<u>Appeal</u> (4/8/23) by 68 experts to <u>false claims</u> of "no health impacts" - to <u>reduce</u> current 'safety standards':

https://cdn.shopify.com/s/files/1/0266/5411/3837/files/ENGL_APPEAL.pdf?v=1692855554&utm_s ource=newsletter&utm_medium=email&utm_campaign=scientists_weigh_in_on_italy_s_radiation_standard&utm_term=2023-08-26

Risk Assessment

- If a substance is known to be harmful, it should not be necessary to demonstrate 'scientifically' that it is actually causing harm before doing something about it.
- Health/telecom bureaucrats state they are "not sure yet" how big the problem is and "we have not identified the extent of the problem" or "we have yet to understand the underlying mechanism".
- Business as usual and widespread 'cover-up'
- Wilful blindness to the truth!

M. Greenberg (J. Occup. & Environ. Med. 2005; Vol 47: 137-144)

Medicine is replete with discarded beliefs







"The greatest threat to knowledge is not ignorance but the <u>illusion</u> of knowledge" – Stephen Hawking

"They who know not and know not that they know not are fools – shun them!" - Persian proverb

The law is....

Where there is a <u>foreseeable</u> and <u>preventable</u> risk of <u>harm to your neighbour</u>, the <u>owner</u> has a <u>duty of care</u> to <u>remove that risk.</u>

INTERNATIONAL COMMISSION ON NON-IONIZING RADIATION PROTECTION (ICNIRP)

https://www.icnirp.org/cms/upload/publications/ICNIRPrfgdl2020.pdf

"ICNIRP Guidelines are <u>unscientific</u> and have <u>serious limitations</u>, require <u>urgent</u> re-evaluation."

(Chairman 2021-24: Prof Rodney Croft – psychologist – Wollongong Uni.) https://scholars.uow.edu.au/rodney-croft

(Members should <u>declare</u> links to industry & <u>conflicts of public interest</u>.)

ICNIRP is a "captured agency" answerable to nobody.

https://www.degruyter.com/document/doi/10.1515/reveh-2022-0106/html

ICNIRP *future* 5G setting:

Intensity <400,000,000 μWatts/m²

The 'APPEAL' recommends:

Intensity <100 µWatts/m²

Dissolve ICNIRP & Rescind Guidelines

"You are a child of the universe, no less than the trees and the stars; you have a right to live..."

Desiderata - 1927

