Electrosmog the Silent Killer?

Is man-made electromagnetic radiation harmful? While most people realize that ionizing radiation (radioactivity, x-rays etc.) can be

very dangerous, not many are aware of the hazards of man-made non-ionizing radiation (from electrical wiring, mobile phones, household appliances etc.). It is said that there is not enough evidence of harm, but nothing could be further from the truth. This infographic was made to inform the public about possible hazards, as well as ways to protect themselves. **SPECTRUM OF MAN-MADE NON-IONIZING RADIATION**

APPLIANCES

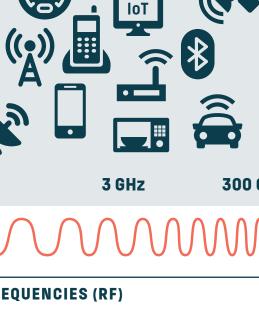


ELECTRICITY &

BROADCAST

RADIO & TV





300 KHz

RADIOFREQUENCIES (RF)



the introduction of 5G, IoT, electric cars, internet from space etc. 3. HEALTH HAZARDS

Many thousands of independent studies have clearly shown

harmful effects affecting all body systems at low levels for both ELF and RF radiation, well below allowed levels. World Health Organization (WHO) classifies non-ionizing radiation as a 'Possible **Human Carcinogen' (Class 2B)**.



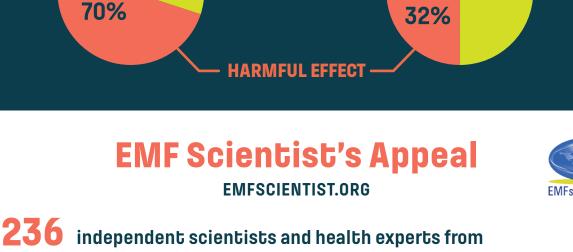
68%

infertility diabetes brain damage

2000

As it was with tobacco, here we also find the problem of industry bias... **NON-INDUSTRY STUDIES INDUSTRY STUDIES** NO EFFECT

30%



countries around the world who published more than

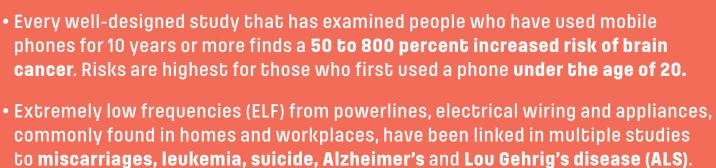
peer-reviewed studies on biological effects and the hazards

of non-ionizing radiation have issued an appeal to United Nations,



• More than 130 studies show that male fertility can be damaged by non-ionizing radiation at very low intensities, similar to those resulting from wearing a

The incidence of various cancers, including some cancers of the head, neck and

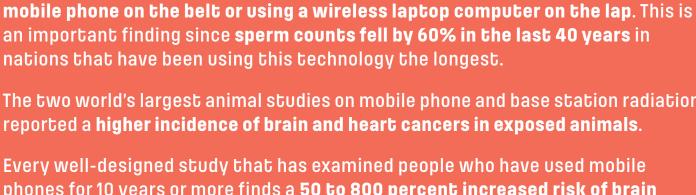


WHAT RESEARCH SHOWS

Every well-designed study that has examined people who have used mobile

brain, has been increasing in many countries.





TESTICULAR CANCER

SLOVENIA

1990

CHILD (5 YRS)

2015

1960

2016

ADULT

INCIDENCE OF VARIOUS CANCERS Incidence shown below is age-standardized, which means that the population getting older is not causing it.

THYROID CANCER

SLOVENIA, BOTH SEXES

1990

2-10 times more

amount of microwave radiation that

children's brains, eyes and bone marrow

1960

1960 1990 2014 1970 1995 2016 1960 1990 2014 **BRAIN CANCER PITUITARY CANCER TESTICULAR CANCER**

SWEDEN, WOMEN

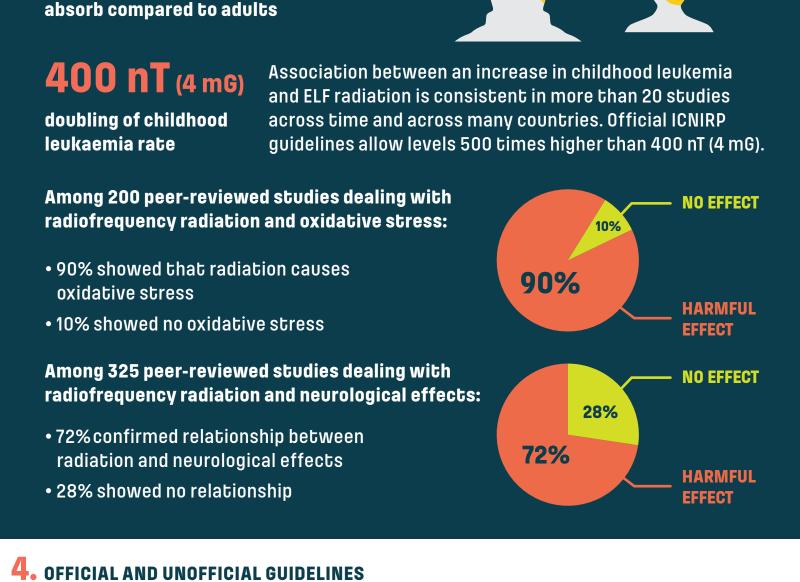
1995

1970

2014

X2

THYROID CANCER



The International Commission on Non-Ionizing Radiation Protection (ICNIRP) set a limit of 58 V/m for microwave radiation from base stations at 1800 MHz, but other

0.05

0.03

0.006

0.00003

0.00000006

schools it can only be turned on when needed. Mobile phones are banned in schools with children up to 14 years old (including playgrounds). The French

Wi-Fi was banned in kindergarten and restricted in elementary school. In

Health Ministry recommends reducing exposure, especially to children.

Cyprus has removed Wi-Fi from kindergartens and elementary schools and supports a strong educational initiative to educate children and families

Banned sales and advertising of mobile phones for children. City of Ghent

The Vienna Medical Association guidelines state that mobile phones should be used as little as possible and that children under 16 should not use these phones at all. Salzburg Region Public Health Department advises against the

use of Wi-Fi connection and digital phones in schools or kindergartens.

The Federal Office for Radiation Protection recommends using a landline phone instead of a mobile phone and cautions against schools connecting

banned Wi-Fi internet from pre-schools and day care facilities.

National Library along with other libraries in Paris, and a number of

2016 the Mayor of Haifa ordered removal of Wi-Fi from all schools.

universities have removed all Wi-Fi networks.

about mobile phones and wireless radiation.

countries, cities or organizations have set much lower limits:

FRANCE Wireless (Wi-Fi) connection was banned in kindergartens in 2015, while in

Natural background level, 1800 MHz

Average 100 m from a base station

ICNIRP guidelines

Russia, China, Italy

(for sleeping areas)

Baubiologie guidelines

Salzburg 1998 (sum GSM)

Powerwatch UK guidelines

Bioinitiative 2012 guidelines

Mobile phones work down to

ISRAEL

CYPRUS

BELGIUM

AUSTRIA

GERMANY

wirelessly to the internet.

EUROPEAN PARLIAMENT A call to European governments to "take all reasonable measures" to reduce exposure to electromagnetic fields, "particularly the exposure to children and young people who seem to be most at risk from head tumours."

The European Environment Agency compared the risks of non-ionizing

and tobacco, urgently recommending to implement a precautionary

radiation (EMF) to other environmental hazards such as asbestos, benzene,

The SAR (specific absorption rate) is not a good measure of mobile

calculations masks peak radiation exposures to human tissue.

phone safety. The test dummy size represents only 3% of users, the liquid inside is not representative of the human body and averaging

5. IN NEED OF NEW STANDARDS

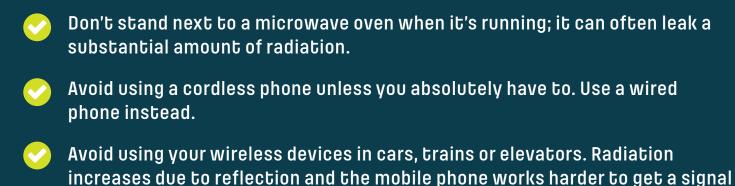
approach regarding EMF.

Current standards (ICNIRP, SAR, most national regulations...) are inadequate to protect human health and therefore need to be re-evaluated. For mobile phones and other wireless devices, they are based on the long outdated theory that the only harmful effect of radiation is tissue heating. = AN OUTDATED AND INADEQUATE STANDARD

In 2017 France released the results of mobile phone radiation measurements on

up to 90% of the phones exceeded radiation limits, some over 3 times the

hundreds of mobile phones. When the phones were tested in body contact positions,



through metal.

7. QUOTES

- Institute for Health and the Environment, School of Public Health, University of Albany, SUNY, co-Editor of the BioInitiative Report "Our grandchildren and children are being used as lab rats." Devra Davis, PhD, MPH, president of Environmental Health Trust, served as the President Clinton appointee to the Chemical Safety and Hazard Investigation Board "Bioeffects are clearly established and occur at very low levels of exposure to
 - electromagnetic fields and radiofrequency radiation. Bioeffects can occur in the first few minutes at levels associated with cell and cordless phone use. Bioeffects

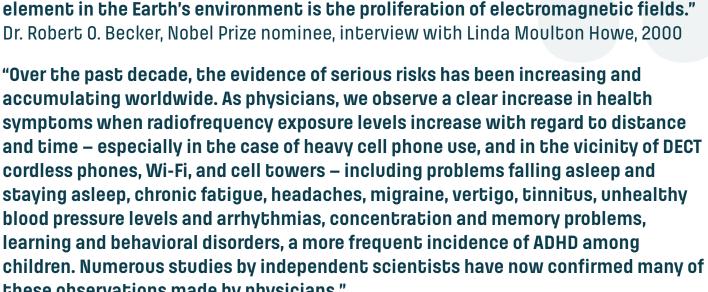
they spend with the phone up to their ear. 6. RECOMMENDATIONS FOR SAFER USE It's good to reduce your exposure where you can, and have places (particularly where you sleep) where you are minimally exposed. Avoid holding any wireless device against your body when in use. Reduce your mobile phone use and turn it off (or use the airplane mode

European limits and over 9 times the equivalent US limits!

DID YOU KNOW? Even the mobile phone manufacturers admit that microwave radiation is not safe - in fine

print, they warn users to keep the phone at a distance

from the body and to minimize the amount of time



"I have no doubt in my mind that, at the present time, the greatest polluting

- their resistance to disease."
- Andrew Goldsworthy, PhD, professor emeritus of biology at Imperial College, London

possible, remembering that 'distance is your friend.' Children should never use mobile phones. Make sure you only use and store your mobile phone in areas where reception is good. When the phone cannot easily get a signal out, it significantly increases the power output! Turn off your Wi-Fi connection. Hardwire as many devices as possible to avoid microwave radiation. This includes mice, keyboards and printers. Disable the wireless setting on all "smart" devices. Use your laptop (or tablet) on a table rather than your lap. If you have a smart meter, take steps to have it removed and replaced with an old analog meter. If your area is planning on installing them, be proactive in preventing its installation. Don't stand next to a microwave oven when it's running; it can often leak a Avoid using a cordless phone unless you absolutely have to. Use a wired

setting) more often. Use an air-tube headset or the speakerphone as much as

- these observations made by physicians." International Doctors' Appeal 2012, supported by more than 1000 physicians "Based on the existing science many public health experts believe it is possible we will face an epidemic of cancers in the future resulting from uncontrolled use of cell phones and increased population exposure to Wi-Fi and other wireless devices." David Carpenter, MD, professor of Environmental Health Sciences, director of the
- can also occur from just minutes of exposure to mobile phone masts (cell towers), WI-FI, and wireless utility 'smart' meters that produce whole-body exposure. Chronic base station level exposures can result in illness." The BioInitiative Report 2012, written by 29 scientists from 10 countries "Increasing evidence shows that electromagnetic signals from cellular antennas, mobile phones, DECT cordless phones and Wi-Fi interfere with birds' and bees'
 - → slora.si
- navigational systems and their circadian (daily) rhythms, which in turn reduces
 - → bioinitiative.org → diagnose-funk.org → stralskyddsstiftelsen.se → emfresearch.com
 - → bund.net

 - www.ninamvseeno.org
- INFOGRAPHICS by
- **SOURCES & MORE INFORMATION** → ehtrust.org → powerwatch.org.uk → emfscientist.org

- Common problems are headaches, behavioral problems, sleep disturbances and concentration difficulties. Connection has been shown also to serious disorders such as: various types of cancer Alzheimer's disease DID YOU KNOW? Just two minutes of mobile Parkinson's disease phone use, or sitting near a Wi-Fi router, cordless multiple sclerosis phone or mobile base station, is sufficient to disrupt the blood-brain barrier that protects depression/suicide the brain from toxins. That is why RF radiation is used with chemotherapy for brain cancer.
- weak natural time-varying electromagnetic fields. In the last 100 years, man-made fields at much higher intensities and with a very different spectral distribution have completely altered this natural electromagnetic background. $000.000,000,000_{-fold}$ increase of radiotrequency radiation levels in the la 1900 Levels will continue to increase with
- **NATURAL VS. MAN-MADE ELECTROMAGNETIC RADIATION** Life on Earth depends on fairly static geomagnetic fields and

- **MICROWAVES**
- **300 GHz**

INFOGRAPHICS by

- 2018