

# People Should be Warned of the Adverse Health Effects of 5G Mobile Phone Microwave Radiation Technology

Response to Irish Independent Article by Adrian Weckler

By [David Sullivan](#)

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[Electromagnetic Sense Island](#) 9 September 2019

Region: [Europe](#)

Theme: [Environment](#), [Science and Medicine](#)

Read the Irish Independent article [here](#).

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Dear Adrian,

*I read with dismay your article in Saturdays Independent on the safety of 5G. I think you do a huge disservice to Ireland Inc but in particular to Irish Children and Pregnant Mothers. These people should be warned on the adverse effects of Pulsed Polarised Modulated Microwave Radiation on their health and wellbeing.*

The Irish Government has consistently failed to meet its obligations from the Parliamentary Assembly of the Council of Europe with Resolution 1815 in (2011), the Phone manufacturers are totally disingenuous, in that they bury the Warnings six deep in their T+C and an Oireachtas Bill No 24 of 2011, The Mobile Phone Radiation Warning Act 2011 which fell because of the government change was never followed up.

As result of this huge vacuum in reliable health and safety information, nobody in authority is telling our children and pregnant mothers about the dangers of their exposure to this ubiquitous sea of Pulsed Polarised Modulated Microwave Radiation.

It is respected technical journalists like you that need to reinforce and amplify these responsible warnings.

When you say the following in today's article I would think that a huge number of Independent Scientists Worldwide will strongly disagree with your dated assertions.

*"According to Ireland's regulator, this type of radiation only has sufficient energy for "excitation" and can't "break bonds that hold molecules in cells together".*

This is just 100% Wrong / Incorrect / Scientifically Not Correct / it is also a Disingenuous Lie and shame on Comreg for repeating and perpetuating a misconception of classical physics.

There are two main issues that confound and amplify the widespread misunderstandings that we are facing today. The first is a misassumption of Classical Physics in a Biological

System, the famous “Non-Ionizing Radiation Story” and the second is the historical mistake of using a totally inappropriate “Thermal Effects Safety Guidelines” from ICNIRP to the assess safety of the mobile phone microwave radiation.

Physical science tells us that Non-Ionising Radiation (NIR) does not possess the energy to damage Chemical Covalent Bonds, so it could not damage DNA and is therefore perfectly safe!

This is part of the official disinformation that industry and regulators buy and sell.

The disinformation comes because Microwave Radiation energy is classified in the Electro-Magnetic Spectrum as a Non-Ionising Radiation (NIR) and by definition the energy of this radiation is not strong enough to ionise a molecule by breaking a covalent chemical bond.

The typical energy of a covalent bond is in the order of 1 electron-Volt ( $1 \text{ eV} = 1.6 \cdot 10^{-19}$  Joules). The force required to break a covalent bond is in the order of  $1 \text{ eV}/0.1 \text{ nm} \sim 1600 \text{ pN}$ . (pico Newtons)

The energy in the microwave radiation is well below this level. At 3 GHz it is  $1.8 \cdot 10^{-24}$  Joules.

See [this](#).

So, this is the science that lays out the impossibility of Microwave radiation being able to damage DNA because it is too weak in energy terms to rip the electrons off and break any of the bonds present in DNA. And this is the “rock-solid classical physics” that the whole disinformation story rests on.

So, most Engineers will spout out this story, almost as religious Dogma and poo-poo the whole idea of Microwaves causing any negative health effects.

The only problem with the story is the horrible fact that microwave radiation at the levels present in mobile phones does in fact damage DNA. Not expected, but sadly true. So, this is the reason why there is so much deliberate confusion, from an Engineering standpoint it is not going to happen, yet in Biology it happens!

This short reference summarises the science that attests to the reality that the biologists are correct. It is known as the 2004 EU Reflex Study and the following link gives a summary.

See [this](#).

If you read the last paragraph of the article you will see the skulduggery the industry resorted to try to discredit this work.

This is the study that showed 24 hours of mobile phone radiation did the same amount of DNA damage as 60 CT Scans in or 250 years of The Earth’s background radiation.

How many people would voluntarily submit to 60 CT scans in 24 hours?

Science is getting better as time goes by and there are thousands of studies that back up the fact that NIR effects our biology and can in fact damage DNA. One theory of how this

may happen is that NIR in living systems can create “Free Radicals” which in turn can damage DNA. But even if there is some debate as to the nature of the mechanisms that can cause the damage to occur, there is absolutely no debate that DNA damage does take place.

See [this](#) and [this](#).

But Adrian don't take my word for this, you have a simple choice, listen to compromised regulators in Comreg dishing out 30-year-old myths about Non-Ionising Radiation or just Google and see they don't make any sense.

Try to Google (“Microwave Radiation” “DNA Damage”) you may see that there are approx. 53,300 hits on Google. Now that's not bad for something that can't happen!

And guess what there is even a field of Science called Bio-electromagnetics dedicated to this type of research with many tens of thousands of peer reviewed articles from Scientists all over the world that all working on something COMREG says can't happen.

However even with science on the side of the Biologists, being right is not enough to upset the whole NIR house of cards story that is supported by a multi trillion-euro global business.

Thermal Based Standards Irish (cut and paste) ICNIRP guidelines are not a measure of the damage the radiation may be doing to our bodies they are simply a measure of the amount of heat absorbed by a body. The ICNIRP thermal-only exposure limit is not safe.

Microwave Radiation Affects our Biology, it has an effect which varies between people but it does have deleterious effects on all life forms.

There are many well documented Bio-effects on our health and well-being, related to mobile phone and wireless technology. Bioeffects are clearly established and occur even at very low levels of exposure to electromagnetic fields and radiofrequency radiation.

Just look at these two web sites which are up to date (2019) with the latest information on these Bioeffects.

See [this](#) and [this](#).

- Evidence for fertility and reproduction effects: Human sperm and DNA damaged
- Foetal and Neonatal effects of EMF
- EMF is a plausible biological mechanism for autism (ASD)
- The opening up of the Blood Brain Barrier
- Epidemiology studies consistently show elevations in risk of Brain Cancers
- Evidence for Genetic Effects.
- Evidence for Childhood Cancers (Leukaemia)
- Significant disruption of our Voltage Gated Calcium Channels (VGCC)
- Decreased Melatonin levels, Breast Cancer and Alzheimer's

If you want to learn more about the 8 Bioeffects caused by exposure to RF please read Prof Martin Pall's 91-page review article (or even just read the two-page summary) [here](#).

The work that Martin Pall has highlighted on VGCC's and the very simple lab experiments showing direct effect of RF on live cells in a flask with an electrode measuring the reactive

nitrogen species when exposed to RF are so clear, RF at the levels present in mobile phones rapidly releases oxidative species.

Every living entity is different and will react differently to external and internal EMF stimuli.

We know that RF has biological effects what we don't know well enough are the consequences for living creatures.

I have tried to convey to you the complexity of the effects of EMF's on living creatures, we are only beginning to see a little of what goes on at the molecular and cellular levels.

With respect your reporting on 5G is incomplete.

At present the five Irish operations have purchased spectrum only in the 600 MHz to 3.6 GHz frequencies. These are similar type of frequencies being used in LTE 4G. One of the big worries for people is that the use of higher frequencies which are planned for future 5G installations (already in the US) have had no safety testing according to the US Telecom's trade organisation CTIA.

Couple that with the evisceration of the Irish planning laws (S.I. No. 31 of 2018) which means that Telecom Operators can decide when and where the thousands of mini-cell antennae are placed not the local planners.

Your 5G hype tells us ....*Aside from speed, 5G is being touted as infrastructure that may be necessary for new types of emergency healthcare and, eventually, autonomous vehicles. This is partly due to its instantaneous connection capability, otherwise referred to as 'low latency'.*

What you don't tell us is that there is nothing wireless can do that fibre cannot do in terms of speed or low latency.

You also fail to mention that "Wireless broadband" is more profitable for the operators. So instead of supplying safe wired / fibre broadband to all our citizens, we hear from you that their profits are more important than citizens health.

When 5G is fully rolled out there will be hundreds of thousands of antennae in our homes, streets, factories, offices, schools and hospitals it will be impossible to escape this Untested 5G Weaponised Radiation.

The 5G hype is: It will deliver 1000 times the download speed (full length movie in 1 to 2 seconds), 1000 times the data transfer, thanks to using the Higher Energy 5G Frequency spectrum (Millimetre Waves).

Now take a moment and think about it ! Will the electricity usage be 1000 time higher ? Or even just 100 times higher or even just 10 times higher ? No-body in authority really knows at this moment.

5G promises 1000-time faster speeds because of the higher frequencies (higher energy). Unfortunately, this will come at a high cost in electrical energy usage and the corresponding Carbon Footprint.

See [this](#).

Questions need to be asked on who is driving this 5G madness, who stands to benefit and who stands to lose. The people of Ireland will definitely be the biggest losers, more EU fines, increasing Carbon Footprint meaning severe reductions in other vital areas that really need to use the carbon.

Paraphrasing what Susan Pockett says about New Zealand, can easily be extended into the Irish context. See [this](#).

Our DCCAE and Comreg are not presently credible sources of information. On the contrary, these government department appears to be firmly and unshakably committed to the ICNIRP thermal-only dogma, exactly because that dogma allows unbridled expansion of the wireless and telecommunications industries.

- It is time to stop believing ICNIRP spin. Tissue heating is not the only biological effect of radiofrequency radiation. The ICNIRP thermal-only exposure limit is not safe.
- Like tobacco smoke, low intensity radiofrequency radiation has multiple harmful effects on human health. Unlike second-hand smoke, second-hand radiation is fast becoming inescapable. The present situation is thus worse than the Big Tobacco story.
- Elected politicians should stop accepting biased reports from individuals with blatant conflicts of interest and start taking seriously the health and safety of their constituents; or at least of their own children and grandchildren.
- The unchecked expansion of Big Wireless permitted by ICNIRP's thermal-only guidelines is actively harmful to all biological inhabitants of planet Earth. Further expansion to 5G technology will inevitably involve yet more radiation exposure. The fact that this exposure will not breach the ludicrously high ICNIRP-based standard is no defence at all.

The people of Ireland deserve to hear the truth about 5G from our information sources such as the Press / TV / Web and not modulated hype and 30-year-old misinformation.

Thank you,

David Sullivan

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