

**From zygote to foetus there
is no hiding place from the
electrically induced phase
transition from 5G with its
accompanying support and
carrier waves**

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Abstract

Homoeostasis of the human organism can become compromised from interference as a result of transmitted modulated electromagnetic waves upon conducting biological structures within the human body; particularly, by oscillating electrons, from induced resonance and by changing sub-atomic spin states. The most vulnerable for a myriad of phenomenal scientific reasons, the most vulnerable aspects of the human organism are the zygote, embryo and foetus.

Water is directly or indirectly necessary for every chemical reaction or biological process in all cells, molecules, compounds and organs.

In 1746 the Dutch physicist, Pieter van Musschenbroek discovered that electric charge could be kept in water, similar to a battery. This became known as the Leyden Jar. In his book, James L. Oschman (Ref. 6) describes how all cell types produce electromagnetic fields due to their movement/rotation of charged particles. Throughout the body all cells can interact within frequencies and the whole body can be in harmony with itself and the Earth's natural fields.

This natural harmony of the body can suffer from interference via external sources (transmitters or transmitting devices).

In his 'Commentary' (Ref. 7), Professor Dennis L. Henshaw explains how the coherent energy of the whole group of such radio waves exceeds the individual quantum energy of the single photon from ionising radiation. He describes in detail the Radical Pair Mechanism by which low intensity magnetic fields, through the well-known Zeeman effect (1896), have the ability to alter the spin state of pairs of free radicals from (nano-second to micro-second) life-times, therefore making them more available to cause biological damage. Professor Henshaw concludes in his summary:

"The idea that cell phone radio waves do not have the quantum energy to damage DNA and therefore cannot cause ill-health is a fallacy. It is flawed at a number of levels, from the very physics upon which it is supposedly based, to chemistry and biology. Most of all, the idea is not borne out by the tens of thousands of peer-reviewed studies reporting biological effects from exposure to electric, magnetic and electromagnetic fields and electromagnetic radiation, including those associated with radio wave frequencies used by cell phones" (Ref. 7).

Similarly, Dr Andrew Tressider, over 30 years a GP, explains in detail how all life is electromagnetic and sensitive. He elucidates on how cells communicate with minuscule amounts of 'electricity', thence how it is possible for our failed Safety Standard Guidelines to cause the throng of maladies being encountered by today's population (Ref. 8).

At this juncture, I feel it would be prudent for the reader, if I clarify just some of the multitude of ways electromagnetic waves, modulations (pulses), and electric/magnetic fields can hazardously interact with both the neurological/physical processes within our bodies.

Whilst the generic term 'radio waves' is used, it should be noted that within this term microwaves occupy a band of roughly 300 MHz to 300 GHz. Also microwaves react at the atomic level with water (which has polarity). Think of a microwave oven, it is only water-based subject matter can be cooked, by the excitation of water and other small molecules through an oscillating magnetic field.

There is also the aerial effect. Babies are up to 78% water, which makes them good electrical conductors if they are equal to, or any mathematical multiple of the wave-length. This involves the physics principle of resonance.

With reflective conditions a standing oscillating wave(s) may be induced. Entrainment may occur via cyclotronic or circadian resonance frequencies of the longer waves than 5G I will focus on Wi-Fi which is to be used with 5G frequencies.

In 1974 research conducted at the Stanford Research Institute, CA (USA) showed that experimental exposure to high levels of microwave radiation (above US and Canadian guidelines) killed rats within seconds to a few minutes. Of the four frequencies tested, the two most lethal were those inside every Smart Meter 0.95 and 2.45 GHz (Ref. 9) ie Wi-Fi.

Whilst you, the reader, may not be exposed to a high level of Wi-Fi such as just described, it should be appreciated that a very long low dose of radiation can do just as much harm to your body as a short high dose. Think of sunbathing!

Seemingly oblivious to this danger, in 1999 approximately 500 companies sponsored by about 16 telecommunications companies, set up wireless networks for all local areas, hospitals, school, households etc (Ref. 9, page 256).

For understanding and clarity I have provided the reader with tabulated pages (Tables 1,2,3,4) showing frequencies, wave lengths, uses with comparative stages of growth from single cell, zygote, embryo to 38 week foetus. These are signal, not power, effects, and occur sub-thermal power densities.

It should not be overlooked that the Wi-Fi 2.45 GHz (Table 4) used in microwave ovens to react with water, can be the same Wi-Fi (albeit at a lower power) used in households for any wireless devices. This can penetrate the amniotic fluid surrounding a foetus within the amnion (the innermost membrane that encloses the embryo), of any pregnant female, at any stage of the pregnancy.

Unsurprisingly with the knowledge that water stores charge, similar to a battery, the reader will appreciate that the womb will become charged. As Andre Fauteux elucidates, the womb can have a twentyfold higher level of microwave concentrate, from Wi-Fi, inside the mother than outside. In his scientific journal, he describes research from Dr Klinghardt linking this excessive charge to autism; with other forms of microwave radiation to Alzheimer's and infertility (Ref. 10).

Should the reader wish to read this in greater depth, I have referenced Dr Klinghardt's 17 page interview (Ref. 11) where he also relates:

"In China, when you are pregnant, by law you have to wear protective shielding cloth over your womb where the baby is. Policemen stop pregnant women in the street....." (Ref. 11).

Furthering adverse effects toward the womb, a series of experiments on rats concluded:

"The study results may therefore be interpreted as meaning that prolonged and continuous exposure to 900 MHz EMF in the gestational period can compromise development of the human foetus spinal cord." (Ref. 12)

Compounding this Professor D Panagopoulos matched the physical similarity between Drosophila and human cell membranes ie calcium, potassium, sodium channels with similar organelles i.e. mitochondria, ribosomes, endoplasmic reticulum, nucleus containing the cells genomic DNA....he writes:

"Thus, it is reasonable to assume that a cellular effect caused by EMF's on Drosophila (e.g. DNA damage) can be expected to occur also in the human organism." (Ref. 13)

Rather worrying, Rezk et al (2008) states:

"....exposure of pregnant women to mobile phones significantly increases the neonatal heart-rate and significantly decreases the cardiac output." (Ref. 14)

Published in Electrosensitivity UK a study from Bektas H. et al finds:

"....results of this study indicate that mobile phone exposure during pregnancy could have an important potential to cause oxidative stress and DNA damage in cord blood and placenta. The results of this study also indicate that combined effects of Wi-Fi plus mobile phone exposure have a higher potential to cause synergistic harmful effects." (Ref. 15)

Last but not least, critical to the immune system of the growing baby, the thymus which, as part of the endocrine system producing hormones to assist in T-cell development, comes under attack from 2450 MHz (2.45 GHz) experimentally.

Published in Life Science (2015) the authors write:

“SIGNIFICANCE: Our results indicate that non-ionising sub-thermal radiation causes changes in the endothelial permeability and vascularisation of the thymus, and is a tissue-modulating agent for Hsp 90 and GR (glucocorticoid receptors) (Ref. 16).

Researchers in Europe have been able to demonstrate that biological cells produce radio-frequency in the GHz range (Ref. 17) (from Alasdair Philips personal communication 27-11-17) www.powerwatch.org.uk

The production of GHz waves by cells is a very important step into understanding the myriad of symptoms reported from exposure to Wi-Fi and 5G.

Here, we have GHz waves incident upon GHz waves which can lead to both constructive and destructive interference. With constructive the antinodes (double troughs and double crests are always together). For destructive nodes (troughs and crests are always together).

The amplitude is the sum of the amplitudes of each: taking +/- signs into consideration. Transverse waves must be unpolarised or polarised in the same plane.

Put simply, the energy for cellular, molecular communication and/or chemical reaction could be compromised. If the reader looks at Table 1 and notes that the GHz range is mostly applicable to the zygote, thence, first six weeks of a baby’s life, with the intricacies of constructing extremely fragile biological arrangements of amino acids: I have absolutely no difficulty in my personal belief that the communications industry, with its allies are responsible for the increase in birth defects from 1:10 (Ref. 18) to 1:4 (Ref. 19) with very few exceptions.

A supporting statement “Scientific Reports (Nature Publishing Group)” with De-Kun Li, MD, PhD principal investigator reported:

“a study of real-world exposure to non-ionising radiation from magnetic fields in pregnant women found a significantly higher rate of miscarriage providing new evidence regarding their potential health risks.”

“..... a nearly three times higher relative risk. The rate of miscarriage reported in the general population is between 10 and 15 percent, Dr Li said.” (Ref. 20)

The European Academy for Environmental Medicine (EUROPAEM) state:

“Those exposed to the highest levels of EMF radiation are 48% more likely to lose their baby than women exposed to the lowest amounts, according to a 2017 study by the Kaiser Permanente Division of Research in Oakland.”

In conclusion EUROPAEM recommends, the only treatment for EMF-related illnesses is to eliminate or reduce the radiation source. (Ref. 21)

The FACT that low level microwave irradiation (below thermal) is able to cause birth defects has not only been known for decades but concealed from the general public.

In 2013 an 11-year-old girl asked me to write a 'risk assessment' for her to show to her 'decision-makers'. She wanted to live and study in an electromagnetic-free zone for the purpose of giving birth to a healthy child as an adult. I was pleased to comply and wrote her risk assessment (Ref. 22). I wish to acquaint the reader with just four of my references from the 11-year-old girl's risk assessment.

When a hospital diathermy leaked 2.45 GHz, women were irradiated for 'a few minutes only above the ICNIRP guidelines.' (International Commission for Non-Ionising Radiation Protection). They suffered a 47.7% miscarriage rate prior to the 7th week of pregnancy (Ref. 23). I postulate that the accumulative level of radiation from laptops, cell phones and other transmitting devices upon a crowded train, bus, aircraft etc. a lengthy journey with free Wi-Fi, 5G, might even exceed ICNIRP guidelines. But even if not exceeding these thermal short-term guidelines, there are biological effects from sub-thermal mechanisms. NB ICNIRP Guidelines advise regarding short-term exposures (less than 6 minutes, or occasionally 30 minutes) and only consider thermal effects (of raising tissue temperature averaged over the body), ignoring all the biological effects that occur at sub-thermal levels. ICNIRP have failed to alert that their guidelines provide neither long-term safety nor protection from harm. Governments that adopt ICNIRP Guidelines are unfortunately in error should they make the erroneous assumption that short-term 'safety guidelines' provide any measure of protection against long-term harms.

In excess of more than 2000 references, the US Naval Medical Research Institute in their study 'Bibliography of Reported Biological Phenomena (Effects) and Clinical Manifestations Attributed to Microwaves and Radio-Frequency Radiation' highlight '... Altered Menstrual Activity/Altered Foetal Development...' (Ref. 24)

A document was produced in conjunction with the World Health Organisation and ICNIRP. This 'International Symposium' entitled 'Biological Effects and Health Hazards of Microwave Radiation' (Warsaw 1973) emphasises in its 350 pages: Biological effects, health and excess mortality from artificial irradiation of radio-frequency microwaves. Its Section 28 deals with problems concerning reproductive function. This document was classed top-secret and its content withheld by WHO and ICNIRP. (Ref. 25)

Eldon Byrd, a scientist for the Naval Surface Weapon Centre of the US Navy, in one of his lectures on the effects of low-level right microwaves, is quoted as stating:

"... we can alter the behaviour of cells, tissue... cause up to six times higher foetus mortality and birth defects..." (Ref. 26)

However, the reader has no need to make his/herself conspicuous by searching for, hitherto, top-secret documents. There are now research articles listing 'Lists' of peer-reviewed, published papers. Professor Emeritus Martin L Pall, Washington State University, in his 8 page review, highlights 18 such research articles covering fertility. (Ref. 27)

Epigenetically, the early human zygote has:

“... two pronuclei which contain the parent genomes and are reprogrammed separately and also have different epigenetic changes at this early zygote stage.” (Ref. 28)

Cindy Sage and Ernesto Burgio expand on epigenetics stating:

“Several new lines of scientific evidence are synthesised to document how EMF and RFR present in wireless technologies can trigger epigenetic changes that can negatively affect childhood development, including mobile phones and Wi-Fi emissions at levels to which the foetus and young children may be exposed by use of wireless devices.” (Ref. 29)

In part, their conclusion states:

“Epigenetic mechanisms alone can change foetal development in profound ways, disrupting health by causing changes in gene activation and expression without change in gene sequence.” (Ref. 29)

Biological Effects of Millimetre Radio Waves (5-8mm) was published in 1977. The text reports:

“... Morphological, functional and biochemical studies conducted in humans and animals revealed that millimetre waves cause changes in the body manifested in structural alterations in the skin and internal organs, qualitative and quantitative changes in blood and bone marrow... conditioned reflex activity... tissue respiration... activity of enzymes... and nucleic metabolism.” (Ref. 30)

The author(s) explains that the unfavourable effects depended upon the duration of the radiation and individual characteristics of the organism.

The experiments were carried out for 15 minutes daily for 60 days: ie a total of 15 hours.

Continuing the author(s) write:

“The conducted experimental investigations were compared with observations of the state of health of 97 persons working with generators of the millimetre range on the basis of systematic conducting of biological analyses. The obtained data confirmed...change of metabolic processes...protein and carbohydrate metabolism...disturbances of...immuno-biological reactivity and of the blood system were established.” (Ref. 30)

An exemplary précis of this Soviet research was published in a letter to the Nordic Prime Ministers by Professors Rainer Nyberg and Lennart Hardell of Finland and Sweden. They expound on trauma to skin, liver, heart, brain, adrenal glands and blood: with special reference to – foetuses, children, stem cells, human sperm, honeybees. I have fully referenced this ‘open letter’ for the reader to locate on the internet should he/she wish. (Ref. 31)

Conclusion

I have shown here that the development of babies, worldwide, from the very first seconds after fertilisation to full term is compromised. As the baby is trying to expand the intricacies

of its thousands of biological structures, it is fighting a war on many fronts simultaneously and sometimes continuously to maintain its homeostasis. The child has no hiding place.

The solution is deceptively simple, take the microwaves out of the air and use cable.

If the reader is a scientist, he/she will have realised by now that the adenine, guanine, cytosine & thymine base pairs are common to all living species. Hence, if there is a risk to a developing baby, this same risk extends to all living species.

With the hundreds of thousands of 5G satellites planned and expansion of 5G plus Wi-Fi terrestrial transmitters we are destroying the two things that this planet cannot survive, as we know it, without.

1. The huge canopies of forests, designed to capture radiation will absorb microwaves and weaken subjecting the trees to sickness.
2. The population density of new-borns will not be sufficient to prevent extinction of many species.

To simplify, as humans, without our babies and trees we will not be able to exist.

Table 1

GHz	Wave Length λ	From Time of Fertilisation Comparative Age (approx.)	Some Transmitters	
300	1.0mm	0 to 3 weeks	5G Please see Table 3 for countries	
180	1.7mm			
160	1.9mm	3 weeks		
130	2.3mm	5 weeks		
100	3.0mm			
72	4.2mm			
60	5.0mm			
38	7.9mm			
28	10.7mm	6 weeks		5G
27.5	10.9mm			
26.5	11.3mm			
24	12.5mm			
5.8	5.2cm	10 weeks	Wi-Fi Baby Monitor, Bluetooth, Brit Gas, Zig Bee Smart Meter, Oven Wi-Fi Some DECT cordless phones, Baby Monitor, Mobile Phone GSM. Mobile Phones	
5	6.0cm			
3 (4G)	10.0cm	12 weeks 8.7cm		
2.45	12.2cm	24 weeks 36cm		
2.1 (3G)	14.3cm			
1.8 (3G, 4G, 2G)	16.7cm			
1.0	30.0cm			
0.92	32.6cm			
0.9 (4G, 2G)	33.3cm	38 weeks 52cm		
0.86	34.9cm			
0.8 (4G)	37.5cm			
0.7	42.9cm			
0.6	50.0cm			
0.43	69.7cm			
0.41	73.7cm			

Table 2 - Gs

5G	Millimetre waves (please see chart) with a grey area below 1.0mm and above 10mm
4G	800, 900, 1800, 2500-2700 MHz
3G	2100 MHz, 1900 MHz
2G	900 and 1800 MHz
TETRA (Airwave)	400 MHz

Ref. 5**Table 3****The Main Frequency Bands for 5G Standards Taken up Globally**

Frequency Band	Frequency Range	Countries/ Regions	Comments
Low Band	<1 GHz (UHF) usually 600/700 MHz	EU USA India	Current favourite as longer range, so less costly infrastructure and more familiar technology.
Mid Band	3-5 GHz (above UHF)	EU Korea Rep China, India with USA at 2GHz China and Japan in 2020	More spectrum available, with compromise on range and performance.
High Band	20-100 GHz	EU USA Korea Rep in 2020 China, Japan, India	Short Range (10-150m) high speed, low latency.

Ref. 4

Table 4

Hz	λ	Use
433 Mhz) 868 Mhz)	69.0cm 34.5cm	Microphone, Monitor, RFID, Remote Control, Smart Meter, Street Light Controls
2.45 GHz	12.2cm	Baby Monitor, Bluetooth, Brit Gas, Zig Bee Smart Meter, Oven, Wi-Fi
5.8 GHz	5.2cm	Wi-Fi
412 MHz	72.8 cm	BT/Arqiva nPower Southern Electric Smart Meter
925 MHz	32.7cm	GSM Mobile Phone [ISM only region 2 Americas]
1.8 GHz	16.7cm	Some DECT Cordless Phones, Baby Monitors, Mobile Phone

Ref. 3

After Fertilisation Age	Stages of Development	Approx Size	
24-30 hours After fertilisation	Two-celled embryo genetic information from fusion of sperm and egg. Each cell has combined set of genes.	0.1mm (Ref. 1) x 2 cells	
3 days Morula	Embryo is 12-16 cells each with a combined set of replicated genetic information.	12-16 cells (Ref.1)	Exponential growth through mitosis
4 days Blastocyst	Embryo leaves fallopian tube and begins its entry into the uterus. It forms a fluid filled sac with a bunch of cells at one end.	17-31 cells	
1-2 Weeks Implantation	Blastocyst cells hatch out of the fluid-filled sac and embed into the wall of the uterus, negotiating with the mother's immune system.	32+ cells	
3 Weeks	Cells form three layers: <u>Outer</u> will make <u>skin</u> and <u>nervous system</u> <u>Middle</u> layer for <u>heart</u> and <u>circulatory system</u> <u>Inner</u> layer will make the <u>lungs</u> .	2mm 0.2cm (Ref. 2)	
4 Weeks	Developing embryo continues to fold layers of cells and forms grooves as the <u>nervous system</u> takes shape.	0.4cm (Ref.2)	
5 Weeks	The tiny <u>heart</u> can be detected beating. The <u>neural tube</u> closes. Facial features such as <u>eyes</u> start to develop. <u>Limb</u> buds appear.	0.8cm (Ref. 2)	
6 Weeks	Tiny webbed <u>fingers</u> , <u>toes</u> start to become visible. The <u>lenses of the eyes</u> and the <u>lungs</u> start to form, develop.	1.3cm (Ref.2)	
7 Weeks	<u>Fingers</u> start to form. The <u>ear</u> shapes start to form on the side of the head.	1.8cm (Ref. 2)	
8 Weeks	<u>Eyelids</u> have developed, the <u>lip</u> and <u>palate</u> fuse. <u>Elbows</u> and <u>knee</u> joints have developed and become functional.	3.0cm (Ref.2)	
9 Weeks	<u>Arms</u> and <u>legs</u> grow longer. <u>Fingernails</u> form and <u>fingerprints</u> develop from folds.	5.0cm (Ref. 2)	
10 Weeks	Fertilisation (as day 1) this week corresponds to the end of the first trimester of pregnancy. The <u>foetus</u> is now developing a <u>genitals</u> and the <u>liver</u> starts to make <u>red blood cells</u> .	6.0cm (Ref.2)	
12 Weeks	Central nervous system is busy generating <u>connections between neurons</u>). Baby becomes more active during second trimester. Sex of the baby is visible.	8.7cm (Ref. 2)	
24 Weeks	Baby practices <u>breathing</u> movements and is responsive to <u>touch</u> and <u>sounds</u> from outside and will <u>move</u> in response to them.	36cm (Ref. 2)	

After Fertilisation Age	Stages of Development	Approx Size	
33 Weeks	The <u>heart</u> and <u>blood vessels</u> are complete. <u>Lungs</u> are producing <u>surfactant</u> to help <u>alveoli</u> in the lungs to inflate after birth, taking in <u>air</u> .	From 36cm to 50cm (Ref. 2)	
38 Weeks	Baby is <u>Full Term</u> . Bones have hardened except the skull which remains flexible. The amniotic fluid that fills the lungs will drain away on the baby's first breath of air.	52cm (Ref. 2)	

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