



ts, doctors and researchers, radiation has the power to change our bodies on the changes, as supported in several studies, create a perfect environment for cancer (HTTPS://WWW.RADIATIONHEALTHRISKS.COM/)

Other studies link cell phone and cell tower radiation to memory loss, headaches, changes in vision and mood, sleep disorders and leukemia. The rollout of 5G and the infrastructure to support it will only increase our risk of suffering major health issues down the road.

5G: WHAT DO THE STUDIES SAY?

As companies prepare to make 5G a reality, may doctors and scientists believe the technology will be a "massive public health experiment."



According to Dr. Joel Moskowitz, a public health professor at the University of California, the increase in mini-cell towers across towns and cities is only part of the concern. Dr. Moskowitz says the lower frequency millimeter waves used in 5G could cause major skin, eye, and nervous system problems.

"The deployment of 5G, or fifth generation cellular technology, constitutes a massive experiment on the health of all species... Because MMWs are weaker than microwaves, they are predominantly absorbed by the skin, meaning their distribution is quite focused there. Since skin contains capillaries and nerve endings, MMW bio-effects may be transmitted through molecular mechanisms by the skin or through the nervous system," said Dr. Moskowitz.

Dr. Moskowitz also believes that MMV can make some pathogens resistant to antibiotics.

Dr. Moskowitz is not alone in his concern about 5G. Dr. Yael Stein from Jerusalem's Hebrew University recently wrote a letter to the Federal Communications Commission outlining his major concerns about 5G, MMV and how it could impact human skin.



Dr. Stein argues the human skin has the ability to absorb more than 90% of microwave radiation and will cause major problems from head to toe- especially for the vulnerable such as kids, elderly and pregnant women.



MMVs are also believed to cause physical pain. A recent article in Eluxe Magazine takes a deeper look at the issue. According to the article, MMVs could cause pain receptors to flare up in the human body, and cause great damage to our eyes, cell growth and compromise our immune system.



In fact, the U.S. Government currently uses MMV energy as a non-lethal weapon. This weapon is direct and more intense than the MMVs from a 5G network, however, it's similar and concerning. According to the U.S Department of Defense, the active denial system creates a focused MMV beam that is capable of penetrating the skin, which can create a burning or a stinging sensation.



Some experts even argue 5G will have a devastating impact on our environment as well. A 2010 linked aspen leaf damage to MMV exposure. Some researchers also found MMV's can cause cell damage in wheat plants, impact wildlife and affect our atmosphere.



Only time will tell how the 5G network will impact our health and the environment. We know existing cell towers are dangerous and with plans to build thousands, if not millions more- it could become very interesting. It's clear though, MMVs are not safe for the general public- especially considering we will be exposed everywhere we go, even at home.

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Attachment #6

Mobile towers - Sometimes installed on the tops of buildings. Mobile towers are especially dangerous because they emit microwaves at a frequency of 1900 MHz. Recent studies have shown that the intense radioactivity from mobile phone towers adversely impacts every biological organism within one square kilometer.

Cellphone tower microwaves have a significantly higher frequency than even radio waves. The higher the frequency, the more powerful the wave—and the more powerful effect on biological organisms (recall that a mobile tower emit microwaves at 1900 MHz).

1. Electromagnetic radiations: If you go for expert advice, they would tell you that living within 50m of a mobile tower is like being stuck in a microwave oven for the entire day. The electromagnetic radiations are cancerous elements that are straightforward lethal for health. Take a look at all those cell phone towers on the terrace of residential buildings and you can imagine how close a call people are taking with these perilous elements. The WHO's International Agency for Research on Cancer (IARC) reported that mobile tower radiations are carcinogenic to humans and can cause brain cancer. It has the same effects as being surrounded by DDT, chloroform, lead and petrol exhaust.

2. Unauthorized constructions: Out of all the mobile phone towers in metropolitan cities, a shocking 45% of them are illegal. They did not follow the norms that are set for the purpose and ignorantly put the lives of people at risk of cancer and other disastrous ailments. The buildings on which the tower is to be set must be authorized by the concerned government body but since most of them are illegal, hence unauthorized too.

3. Other issues: While cancer is the biggest threat to people living in the vicinity of a mobile phone tower, there are other health issues too. People in the area experience sleep disorders, fatigue, headache, memory loss, depression, hearing problems, joint pains, skin diseases, and even cardiovascular problems. Mobile phones emit radiation too but they are smaller in intensity while mobile towers generate higher intensity of radiation 24 hours. We can only imagine the kind of long term toll this can take on the health of people.

4. Birds on the go: The most notable effect of mobile tower radiation has been seen on birds. The numbers of local birds like sparrows have started to dwindle from the residential areas where mobile towers have been installed. The mobile towers are known to emit microwaves that are found to damage bird eggs and embryos as they cause thinning of the skulls of chicks as well as eggshells. Microwaves also interfere with the navigation sensors of the birds which they use to find their way back to nest. Imagine a mother bird on the spree for food trying to return to the kin but never being able to find the way back. It is dismal indeed.

5. On children and unborn: Children have thinner skulls and are hence known to be more affected by radiation from mobile phone towers. The same applies for pregnant woman carrying an underdeveloped child. The penetration of radiation is easier on them and the effect could be really disastrous if not kept under check. Children these days are known to have less concentration power - one of the effects of having cellular towers in residential areas, near schools and hospitals.

Related Questions

How harmful is living/staying under some mobile phone towers?

Which is unhealthier: living with a cell phone tower, or living with a WiFi router?

Is it dangerous for me to live near a cell phone tower and if so, is there any way I can make the company remove it?

What are the hazards of installing a mobile tower on the roof of my building?

Are mobile phone towers a health hazard?

Why are wasps attracted to cell phone towers?

Who owns most of the cell phone towers?

How big is a cell phone tower base?

What is the next generation of cell phones?

How do I track mobile phone?

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Attachment #7

the safety of cell towers, especially when it comes to cell site workers. The lawmakers issued a challenge to the FCC on September 17, 2015,

LOOKING FOR SAFE PRODUCTS?



Excessive exposure to RF radiation leads to well-documented potential harms, especially to workers who spend time near the antenna and in the line of the antenna's beam. At sufficient power levels and exposure durations, RF radiation has the ability to heat biological tissue. Thermal effects can include eye damage, sterility, and cognitive impairments.

We urge the FCC and the Occupational Safety and Health Administration (OSHA) to work together to enforce exposure limits and ensure wireless carriers are taking the required precautions to protect the safety of all persons who may be exposed to dangerous levels of RF radiation near wireless towers.

If the FCC agrees that cell tower workers are at risk, and two members of Congress are concerned enough to issue a reprimand, what does this say about the overall safety of cell sites?

STUDIES THAT DEMONSTRATE A HEALTH RISK

* The World Health Organization officially classifies electromagnetic radiation a possible 2B carcinogen. (The same category as lead, DDT, and styrene.)

The following studies suggest short-term and long-term health risks within 300-400 meters of a cell tower. (Less than three-tenths of a mile)

• Santini Study

This is a compelling survey of 270 men and 260 women showing changes in symptoms in relation to cell tower proximity. Note the decrease in reported headaches the further from the cell site.

Table 1. Percentages of complaints reported compared to responses of a level of 0 by persons living in the vicinity of base stations on a function of their distance away from a base station.

Symptoms	Distances from base stations in meters (m)																	
	≤ 30 m			30 to 50 m			50 to 100 m			100 to 150 m			150 to 200 m			≥ 200 m		
	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	
Fatigue	76*	72*	63.5*	50.9*	30.6	26.6*	64.2	41.1	66.6*	43.7	40.7	37.2						
Irritability	32.8	23.2*	41.7*	25.7*	47.3*	44.1*	25.8	4.1	25	9	18	3.3						
Headaches	21*	47.8*	40*	26.1*	48.6*	36.7*	60.7*	31.2*	19.3	0	15.6	1.8						
Nausea	14.5*	6.9	8.4	3	5.7	3.8	2.4	4.6	0	2.3	2.1	1.1						
Loss of Appetite	20.4*	8.3	8	3.5	5	5	6.9	0	4.2	0	3.3	3.3						
Sleep Disturbance	41.3*	57.1*	41.4*	27.2*	26.9*	28.2*	45.9*	20*	23.3	25.5	13.2	24.3						
Depression	16.9	26.3*	21.6	19.7*	11.6	14*	16.3	3.1	13.6	2.5	10.3	3.7						
Feeling of Discomfort	28*	25.2*	20.2*	18.6	30.6*	12.6	12.7*	0	0.7	5.1	2.4	8.1						
Difficulty in concentration	20.3	28.8*	27.5	10.6	24.3	26.4*	25	12.3	43.3	5.5	26.7	7.1						
Memory Loss	27.8	28.4*	29.1	20.6*	27.1*	29*	25	15.6	17.2	11.1	17.9	5.8						
Skin Problems	18.1*	17.1*	6.6	10.8	11.1*	11.1	13.9*	7.5	8.7	2	1.3	4.6						
Vision Disturbances	14.5	24.3*	23	13.5	22	7.1	2.3	4.9	15	2.8	13.6	4.1						
Hearing Disturbances	33.3*	17.4	17.7*	12	8.3	13.5	7.7	7.7	11.0	9.3	5.6	8.7						
Dizziness	10	12.5*	17.3*	7.5*	9.6	9.6*	12.2	2.7	7.7	5.3	6.2	0						
Movement Difficulties	5.6	7.7*	8.2	1.7	3	3	6	0	2	0	2.0	1						
Vision-ocular Problems	10.1*	12*	15.3*	0.6	12.3*	7.4	8.7	0	8.5	6.3	1	2						

* Significant difference (p < 0.05) in comparison to reference subjects found at > 300 m or not exposed. For the responses 2 = "often" and 3 = "very often".

• Kempton West Study (2007)

Researchers measured blood levels of serotonin and melatonin in 25 participants before and after the activation of a new cell site. There were unfavorable changes in almost all participants.

• Naila Study (2004)

Researchers discovered a threefold increase in cancers after five years exposure to microwave radiation from a nearby mobile phone mast transmitter compared to those patients living further away.

• France Questionnaire (2003)

Attachment #8

reached this conclusion," said Russ Stromberg, senior manager of development at T-Mobile.

But other studies seem to tell a different story, with findings such as:

- A study by Dr. Bruce Hocking in Australia found that children living near three TV and FM broadcast towers (similar to cell towers) in Sydney had more than twice the rate of leukemia than children living more than seven miles away.

- Says Dr. Neil Cherry, a biophysicist at Lincoln University in New Zealand:

- "Public health surveys of people living in the vicinity of cell site base stations should be being carried out now, and continue progressively over the next two decades. This is because prompt effects such as miscarriage, cardiac disruption, sleep disturbance and chronic fatigue could well be early indicators of the adverse health effects. Symptoms of reduced immune system competence, cardiac problems, especially of the arrhythmic type, and cancers, especially brain tumor and leukemia, are probable."



The government and cell phone companies maintain cell towers (and phones) are safe.

- Biomedical engineer Mariana Alves-Pereira says exposure to cell phone towers can lead to vibroacoustic disease. "From what I understand, some of the complaints are similar in what is seen in vibroacoustic disease patients, which are people who develop a disease caused by low frequency noise exposure," she said. Symptoms can include mood swings, indigestion, ulcers and joint pain.

- Dr. Gerard Hyland, a physicist who was nominated twice for the Nobel Prize in medicine, says, "Existing safety guidelines for cell phone towers are completely inadequate ... Quite justifiably, the public remains skeptical of attempts by governments and industry to reassure them that all is well, particularly given the unethical way in which they often operate symbiotically so as to promote their own vested interests."

- According to the Mount Shasta Bioregional Ecology Center, "Studies have shown that even at low levels of this radiation, there is evidence of damage to cell tissue and DNA, and it has been linked to brain tumors, cancer, suppressed immune function, depression, miscarriage, Alzheimer's disease, and numerous other serious illnesses."

- According to Dr. W. Löscher of the Institute of Pharmacology, Toxicology and Pharmacy of the Veterinary School of Hannover in Germany, dairy cows that were kept in close proximity to a TV and cell phone tower for two years had a reduction in milk production along with increased health problems and behavioral abnormalities. In an experiment, one cow with abnormal behavior was taken away from the antenna and the behavior subsided within five days. When the cow was brought back near the antenna, the symptoms returned.

Incentives for Cell Phone Towers

Why would a church, school or other private property allow a cell phone antenna to be placed on the grounds? Cell phone companies pay "rent" for their placement that can range anywhere from \$800 to \$2,000 a month. This can mean all the difference for an under-funded school district or church.

Still, many people are wary that the incentives do not come close to matching the potential risk involved. This includes the International Association of Fire Fighters who, in 2004, came out against the use of firehouses for cell antennas "until a study with the highest scientific merit" can prove they are safe.

These sentiments are echoed by residents of St. Louis where T-Mobile plans to put a cell site on an 89-year-old church. "That revenue is in exchange for our potential well-being,

Attachment # 9



Aaliya Yaqub started this petition to Town of Atherton and Verizon Wireless and 1 other

Dear Verizon Wireless and Town of Atherton,

We urge you to stop allowing placement of Cell Towers and Antennas in Residential areas. This telecommunications equipment does not belong in our backyard nor does it belong in our schools where children are trying to get an education.

We are concerned about:

* - Radiofrequency radiation emitted from these antennas 24 hours a day every day. We can turn off our cell phones, but we cannot turn off the signal from these antennas which are affecting us while we sleep.

The health risks associated with living near cell phone tower/antennas are something we cannot risk. The adverse health effects documented at levels below FCC guidelines, include altered white blood cells in schoolchildren; childhood leukemia; impaired motor function, reaction time and memory; headaches; dizziness; fatigue; weakness; and insomnia. These results are based on epidemiological studies of people living near cell-phone antennas in Spain, the Netherlands, Germany, Austria and Israel.

The European Parliament, representing all the member nations of the European Union, "concerned about the continuing uncertainties about possible health risks concerning magnetic radiation," adopted a report on April 2, by a vote of 559 to 22 providing that "the placement of antennas, mobile phone masts and high-voltage power lines be negotiated between industry actors, public authorities and residents' associations in order to minimize health risks and legal-action cases. This will also ensure that EMF-transmitting devices are kept clear of schools, crèches, retirement homes and health-care institutions."

Some compelling and scary research:

* Study which verifies the existence of a spatial correlation between base station (BS) clusters and cases of deaths by neoplasia in the Belo Horizonte municipality, Minas Gerais state, Brazil, from 1996 to 2006 and to measure the human exposure levels to EMF where there is a major concentration of cellular telephone transmitter antennas.

<http://www.ncbi.nlm.nih.gov/pubmed/21741680>

Increased incidence of cancer near a cell phone transmitter station:

http://www.powerwatch.org.uk/news/20050207_israel.pdf

How does long term exposure to base stations and mobile phones affect human hormone profiles? "In conclusion, the present study revealed that high radio frequency radiation effects on pituitary adrenal axis represented in the reduction of ACTH, cortisol, thyroid hormones, prolactin in young females, and testosterone levels."

<http://www.sciencedirect.com/science/article/pii/S0009912011027330>

More evidence that RF fields impact thyroid hormone:

<http://www.ncbi.nlm.nih.gov/pubmed/20807179>

- Decreased memory, attention, and slower reaction time in school children ⁽²¹⁾
- Retarded learning in rats indicating a deficit in spatial "working memory" ⁽²²⁾
- Increased blood pressure in healthy men ⁽²³⁾
- Damage to eye cells when combined with commonly used glaucoma medications ⁽²⁴⁾

Many national and international organizations have recognized the need to define the true risk of low intensity, non-thermal RF/MW radiation exposure, calling for intensive scientific investigation to answer the open questions. These include:

- The World Health Organization, noting reports of "cancer, reduced fertility, memory loss, and adverse changes in the behavior and development of children." ⁽²⁵⁾
- The U. S. Food and Drug Administration (FDA) ⁽²⁶⁾
- The International Agency for Research on Cancer (IARC) ⁽²⁷⁾
- The Swedish Work Environmental Fund ⁽²⁸⁾
- The National Cancer Institute (NCI) ⁽²⁹⁾
- The European Commission (EC) ⁽³⁰⁾
- New Zealand's Ministry of Health ⁽³¹⁾
- National Health and Medical Research Council of Australia ⁽³²⁾
- Commonwealth Scientific Industrial Research Organization of Australia (CSIRO) ⁽³³⁾
- The Royal Society of Canada expert group report prepared for Health Canada ⁽³⁴⁾
- European Union's REFLEX Project (Risk Evaluation of Potential Environmental Hazards from Low Frequency Electromagnetic Field Exposure Using Sensitive *in vitro* Methods) ⁽³⁵⁾
- The Independent Group on Electromagnetic Fields of the Swedish Radiation Protection Board (SSI) ⁽³⁶⁾
- The United Kingdom's National Radiological Protection Board (NRPB) ⁽³⁷⁾
- The EMF-Team Finland's Helsinki Appeal 2005 ⁽³⁸⁾

Non-thermal effects are recognized by experts on RF/MW radiation and health to be potential health hazards. Safe levels of RF/MW exposure for these low intensity, non-thermal effects have not yet been established.

The FDA has explicitly rejected claims that cellular phones are "safe." ⁽³⁹⁾

The Environmental Protection Agency (EPA) has stated repeatedly that the current (ANSI/IEEE) RF/MW safety standards protect only against thermal effects. ⁽⁴⁰⁾

Many scientists and physicians question the safety of exposure to RF/MW radiation. The CSIRO study, for example, notes that there are no clear cutoff levels at which low intensity RF/MW exposure has no effect, and that the results of ongoing studies will take years to analyze. ⁽⁴¹⁾

Internationally, researchers and physicians have issued statements that biological effects from low-intensity RF/MW radiation exposure are scientifically established:

- The 1998 Vienna-EMF Resolution ⁽⁴²⁾
- The 2000 Salzburg Resolution on Mobile Telecommunication Base Stations ⁽⁴³⁾
- The 2002 Catania Resolution ⁽⁴⁴⁾
- The 2002 Freiburger Appeal ⁽⁴⁵⁾
- The 2004 Report of the European Union's REFLEX Project (Risk Evaluation of Potential Environmental Hazards from Low Frequency Electromagnetic Field Exposure Using Sensitive *in vitro* Methods) ⁽⁴⁶⁾
- The 2004 Second Annual Report from Sweden's Radiation Protection Board (SSI) Independent Expert Group on Electromagnetic Fields Recent Research on Mobile Telephony and Health Risks ⁽⁴⁷⁾
- Mobile Phones and Health 2004: Report by the Board of NRPB (The UK's National Radiological Protection Board) ⁽⁴⁸⁾

The county of Palm Beach, Florida, the City of Los Angeles, California, and the country of New Zealand have all prohibited cell phone base stations and antennas near schools due to safety concerns. The British Columbia Confederation of Parent Advisory Councils [BCCPAC] passed a resolution in 2003 banning cellular antennae from schools and school grounds. This organization is comparable to the Parent Teachers Association (PTA) in the United States. The resolution was directed to B.C. Ministry of Education, B.C. Ministry of Children and Family Development, B.C. School Trustees Association, and B.C. Association of Municipalities.

US Government Information

purpose, Industry Canada adopted the limits outlined in Health Canada's Safety-Code 6, which is a guideline document for limiting RF exposure. A downloadable version of "RSS-102 - Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields", as well as additional information can be found at [http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwapj/rss102.pdf;\\$FILE/rss102.pdf](http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwapj/rss102.pdf;$FILE/rss102.pdf) ([http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwapj/rss102.pdf;\\$FILE/rss102.pdf](http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwapj/rss102.pdf;$FILE/rss102.pdf)).

Safety Code 6 specifies the requirements for the use of radiation emitting devices. This Code replaces the previous Safety Code 6 - EHD-TR-160. A downloadable version of "Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz TO 300 GHz - Safety Code 6", as well as further detailed information can be found at <http://www.hc-sc.gc.ca/hecs-sesc/ccrpb/publication/99ehd237/toc.htm> (<http://www.hc-sc.gc.ca/hecs-sesc/ccrpb/publication/99ehd237/toc.htm>).

US and Canadian Legal Issues

Although some local and state governments have enacted rules and regulations about human exposure to RF/MW radiation in the past, the Telecommunications Act of 1996 requires the United States Federal Government to control human exposure to RF/MW radiation. In particular, Section 704 of the Act states that, "No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions." Further information on federal authority and FCC policy is available in a fact sheet from the FCC's Wireless Telecommunications Bureau at www.fcc.gov/wtb (<http://www.fcc.gov/wtb>).

In a recent opinion filed by Senior Circuit Judge Stephen F. Williams, No. 03-1336 *EMR Network v. Federal Communications Commission and United States of America*, the Court upheld the FCC's decision not to initiate an inquiry on the need to revise its regulations to address non-thermal effects of radiofrequency (RF) radiation from the facilities and products subject to FCC regulation as EMR Network had requested in its September 2001 Petition for Inquiry.

At the request of the EMR Network, the EMR Policy Institute provided legal and research support for this appeal. On January 13, 2005, a Petition for Rehearing *en banc* by the full panel of judges at the DC Circuit Court of Appeals was filed. Briefs, background documents and the DC Circuit decision are found at http://www.emrpolicy.org/litigation/case_law/index.htm (http://www.emrpolicy.org/litigation/case_law/index.htm).

The Toronto Medical Officer of Health for the Toronto Board of Health recommended to Health Canada that public exposure limits for RF/MW radiation be made 100 times stricter; however the recommendation was not allowed, since, as in the US, only the Canadian federal government can regulate RF/MW radiation exposure level.

World Health Organization Efforts

In 1996, the World Health Organization (WHO) established the International EMF Project to review the scientific literature and work towards resolution of health concerns over the use of RF/MW technology. WHO maintains a Web site that provides additional information on this project and about RF/MW biological effects and research. For further information go to <http://www.who.int/peh-emf/en/> (<http://www.who.int/peh-emf/en/>).

Conclusion

For decades, the International Association of Fire Fighters has been directly involved in protecting and promoting the health and safety of our membership. However, we simply don't know at this time what the possible health consequences of long-term exposure to low-intensity RF/MW radiation of the type used by the cell phone base stations and antennas will be. No one knows—the data just aren't there. The chairman of the International Commission on Non-Ionizing Radiation Protection (ICNIRP), one of the leading international organizations which formulated the current RF/MW radiation exposure guidelines, has stated that the guidelines include "no consideration regarding prudent avoidance" for health effects for which evidence is less than conclusive⁽⁴⁹⁾.

Again, fire department facilities, where fire fighters and emergency response personnel live and work are not the proper place for a technology which could endanger their health and safety.

The only reasonable and responsible course is to conduct a study of the highest scientific merit and integrity on the RF/MW radiation health effects to our membership and, in the interim, oppose the use of fire stations as base stations for towers and/or antennas for the conduction of cell phone transmissions until it is proven that such sitings are not hazardous to the health of our members.

Footnotes

[back] 1. **Revised and Amended IAFF Resolution No. 15; August 2004**

Study of Firefighters Exposed to Radio Frequency (RF) Radiation from Cell Towers/Masts

WHEREAS, fire stations across the United States and Canada are being sought by wireless companies as base stations for the antennas and towers for the conduction of cell phone transmissions; and

WHEREAS, many firefighters who are living with cell towers on or adjacent to their stations are paying a substantial price in terms of physical and mental health. As first responders and protectors of the general public, it is crucial that firefighters are functioning at optimal cognitive and physical capacity at all times; and

WHEREAS, the brain is the first organ to be affected by RF radiation and symptoms manifest in a multitude of neurological conditions including migraine headaches, extreme fatigue, disorientation, slowed reaction time, vertigo, vital memory loss and attention deficit amidst life threatening emergencies; and

WHEREAS, most of the firefighters who are experiencing symptoms can attribute the onset to the first week(s) these towers/antennas were activated; and

WHEREAS, RF radiation is emitted by these cellular antennas and RF radiation can penetrate every living cell, including plants, animals and humans; and

WHEREAS, both the U. S. and Canadian governments established regulatory limits for RF radiation based on thermal (heat) measurements with no regard for the adverse health effects from non-thermal radiation which is proven to harm the human brain and immune system; and

WHEREAS, the U. S. Environmental Protection Agency stated in a July 16, 2002, letter, "Federal health and safety agencies have not yet developed policies concerning possible risk from long-term, non-thermal exposures. The FCC's exposure guideline is considered protective of effects arising from a thermal mechanism (RF radiation from cell towers is non-thermal) but not from all possible mechanisms. Therefore, the generalization by many that the guidelines protecting human beings from harm by any or all mechanisms is not justified"; and

WHEREAS, an Expert Panel Report requested by the Royal Society of Canada prepared for Health Canada (1999) stated that, "Exposure to RF fields at intensities far less than levels required to produce measurable heating can cause effects in cells and tissues. These biological effects include alterations in the activity of the enzyme ornithine decarboxylase, in calcium regulation, and in the permeability of the blood-brain barrier. Some of these biological effects brought about by non-thermal exposure levels of RF could potentially be associated with adverse health effects"; and

WHEREAS, based on concerns over growing scientific evidence of dangers from RF radiation, an international conference was convened in Salzburg, Austria, in the summer of 2000 where renowned scientists declared the upper-most RF radiation exposure limit from a tower-mast should be 1/10th of 1 microwatt (Note that 1/10th of 1 microwatt is 10,000 times lower than the uppermost limit allowed by the U. S. or Canada.); and it should be noted this limit was set because of study results showing brain wave changes at 1/10th of 1 microwatt; and

WHEREAS, in a recently cleared paper by Dr. Richard A. Albanese of the U. S. Air Force, a highly recognized physician in the area of the impact of radiation on the human body, Dr. Albanese states, "I would ask a good faith effort in achieving as low exposure rates as are possible within reasonable financial constraints. Also I would fund targeted studies using animal subjects and human groups living or working in high radiation settings or heavy cellular phone users, emphasizing disease causations. I urge acceptance of the ideal that there should be no unmonitored occupational or environmental exposures whose associated disease rates are unknown." (The opinions expressed herein are those of Dr. Albanese, and do not reflect the policies of the United States Air Force.); and

WHEREAS, recently a study, not affiliated with the wireless industry, was conducted of firefighters exposed to RF radiation from cell towers/antennas affixed to their stations.** The study revealed brain damage that can be differentiated from chemical causation (such as inhalation of toxic smoke) suggesting RF radiation as the cause of the brain damage found on SPECT scans; and

[back] 48. Released January 11, 2005, Mobile Phones and Health 2004: Report by the Board of NRPB Documents of the NRPB: Volume 15, No. 5. See: http://www.nrpb.org/publications/documents_of_nrpb/abstracts/absd15-5.htm (http://www.nrpb.org/publications/documents_of_nrpb/abstracts/absd15-5.htm)

From the Executive Summary:

The Board notes that a central recommendation in the Stewart Report was that a precautionary approach to the use of mobile phone technologies be adopted until much more detailed and scientifically robust information on any health effects becomes available.

The Board considers that it is important to understand the signal characteristics and field strengths arising from new telecommunications systems and related technologies, to assess the RF exposure of people, and to understand the potential biological effects on the human body.

[back] 49. The ICNIRP exposure guidelines are only designed to protect against "known adverse health impacts," according to Dr. Jürgen Bernhardt, ICNIRP's chairman. Bernhardt reviewed the updated limits, which cover the spectrum from 1 Hz to 300 GHz, in a presentation at the 20th Annual Meeting of the Bioelectromagnetics Society in St. Pete Beach, FL, on June 10. The limits protect against "short-term, immediate health effects" such as nerve stimulation, contact shocks and thermal insults, according to the guidelines, which appear in the April issue of *Health Physics* (74, pp.494-522, 1998). Despite "suggestive" evidence that power frequency magnetic fields can be carcinogenic, ICNIRP has concluded that this and other non-thermal health effects have not been "established." ICNIRP has long followed this approach to standard-setting. In his talk, Bernhardt noted that the guidelines include "no consideration regarding prudent avoidance" for health effects for which evidence is less than conclusive.

Microwave News, July/August 1998

Additional References and Studies

The following references reporting biological effects of radiofrequency radiation (RFR) at low intensities through January 2005 were compiled on 12/27/04 by Henry C. Lai PhD, Research Professor of Bioengineering, University of Washington, Seattle, WA

Balode *Sci Total Environ* 180(1):81-85, 1996 - blood cells from cows from a farm close and in front of a radar installation showed significantly higher level of severe genetic damage.

Boscol et al. *Sci Total Environ* 273(1-3):1-10, 2001 - RFR from radio transmission stations (0.005 mW/cm²) affects immune system in women.

Chiang et al. *J. Bioelectricity* 8:127-131, 1989 - people who lived and worked near radio antennae and radar installations showed deficits in psychological and short-term memory tests.

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The International Association of Fire Fighters recognizes IAFF Local 3368, Carpinteria-Summerland, California, who brought this issue to the attention of our membership through the Resolution 15, submitted through our biennial convention in August 2004. Additionally, the following local affiliates provided support for the passage of the resolution: Brookline, Massachusetts, San Diego, California, San Francisco, California and Vancouver, British Columbia. We also acknowledge the efforts of Dr. Henry C. Lai, University of Washington, Seattle, Washington; Dr. Magda Havas of Trent University, Peterborough, Ontario; Janet Newton, President of the EMR Policy Institute; and Susan Foster Ambrose for their technical support and continued passion to protect the health and safety of fire fighters and emergency medical personnel. Finally, we thank Dr. Leslie Plachta and the Safe Ossining Schools for their research efforts and their battle to stop siting cell towers on Ossining, New York schools.

RMD; 3/2005

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Center of Excellence (<http://www.iaffrecoverycenter.com/>)

FIREPAC (<https://my.iaff.org/Web/donate/members/memberDonate.aspx>)

How to Become a Fire Fighter

(<http://www.iaff.org/et/becomefirefighter/index.html>)

Fire Ops 101 (<http://client.prod.iaff.org/#page=fireops101>)
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IAFF-MDA (<https://firefighters.mda.org>)
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Fire Fighter Quarterly (<http://www.iaff.org/mag/>)
IAFF-TV (<https://www.youtube.com/user/IAFFTV>)
2018 Convention (<https://convention2018.iaff.org/>)

2016 Convention (<http://client.prod.iaff.org/#page=Conv2016>)
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(<https://www.youtube.com/user/IAFFTV>)



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Attachment #13

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Cell Phone Towers: How Far is Safe?
by Taraka Serrano

If you or people you know live within a quarter mile of a cell phone tower, this may be of concern. Two studies, one from Germany and the other from Israel, reveal that living in proximity of a cell phone tower or antenna could put your health at significant risk.

German study: 3 times increased cancer risk

Several doctors living in Southern Germany city of Naila conducted a study to assess the risk of mobile phone radiation. Their research examined whether population living close to two transmitter antennas installed in 1993 and 1997 in Naila had increased risk of cancer.

Data was gathered from nearly 1,000 patients who had been residing at the same address during the entire observation period of 10 years. The social differences are small, with no ethnic diversity. There is no heavy industry, and in the inner area there are neither high voltage cable nor electric trains. The average ages of the residents are similar in both the inner and outer areas.

What they found is quite telling: the proportion of newly developed cancer cases was three times higher among those who had lived during the past ten years at a distance of up to 400m (about 1300 feet) from the cellular transmitter site, compared to those living further away. They also revealed that the patients fell ill on average 8 years earlier.

Computer simulation and measurements used in the study both show that radiation in the inner area (within 400m) is 100 times higher compared to the outer area, mainly due to additional emissions coming from the secondary lobes of the transmitter.

Also: [Do You Live Close to a Cell Tower? These Tools Might Help You.](#)

Looking at only the first 5 years, there was no significant increased risk of getting cancer in the inner area. However, for the period 1999 to 2004, the odds ratio for getting cancer was 3.38 in the inner area compared to the outer area. Breast cancer topped the list, with an average age of 50.8 year compared with 69.9 years in the outer area, but cancers of the prostate, pancreas, bowel, skin melanoma, lung and blood cancer were all increased

Israel study: fourfold cancer risk

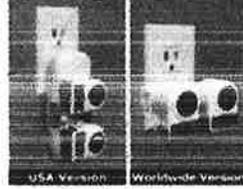
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Cell Phone EMF Protection



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Brazil

Attachment #14



New study links over 7,000 cancer deaths to cell phone tower radiation exposures

Saturday, June 22, 2013 by: Lloyd Burrell
Tags: cell phone towers, radiation, cancer



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(NaturalNews) Could exposure to radiation from cell phone towers really be responsible for over 7,000 cancer deaths? According to research findings from Brazil, the facts speak for themselves. The study established a direct link between cancer deaths in Belo Horizonte, Brazil's third largest city, with the cell phone network.

What does this direct link stem from?

Over 80 percent of those who succumbed to certain types of cancer resided approximately a third of a mile away from one of the hundreds of cell phone antennae that populate the city.

These cancers, primarily found in the prostate, breasts, lungs, kidneys, liver, are the ones associated with exposure to electromagnetic fields (EMFs).

This is a real concern for cell phone users and even non-cell phone users. Those who shun mobile phone technology still suffer the consequences of cell phone tower radiation.

Is the Brazilian study an isolated study?

Cell phone tower studies which examined the relationship between radiation exposure and cancer rates were conducted in the city of San Francisco in addition to cities in Austria, Germany, and Israel, dating as far back as the 1970s. All the studies shared similar findings: living within a certain proximity to a cell phone tower increased the risk of cancer anywhere from two to 121 times depending on what type of cancer was detected.

Adilza Condessa Dode, PhD, one of the engineering researchers as well as the coordinator of the Brazilian study, addresses those who are concerned about cell phone

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tower radiation and explains the Brazil study does not stand alone. Dode elaborates, "these levels (EMFs), are already high and dangerous to human health. The closer you live to an antenna, the greater the contact with the electromagnetic field."

The Brazilian study covers just one city in Brazil. Residents of the United States are vulnerable too as America is home to hundreds of thousands of these radiation emitting towers. In the U.S., with the proliferation of cell phones and the growing needs of cell phone users in recent years, there has been an explosion in cell towers.

Overwhelming evidence

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A growing number of organizations and many more studies support the conclusions of the Brazilian study. *The International Association for Research on Cancer (IARC)*, based upon findings from research conducted by an international think tank, came to the conclusion that radio frequency radiation, including the radiation spewing from cell towers, is a possible carcinogen.

The BioInitiative 2012 Report written by a group of leading independent international scientists has put out an unequivocal health warning against exposure to EMFs. This includes exposures from cell phone towers.

Why are cell phone towers particularly dangerous?

The threat comes from the constant nature of the activity of the towers; they emit pulsed radio frequency radiation. This radiation has been shown in thousands of studies to cause biological damage to the body and to be a precursor to disease.

What are some of the dangers (besides cancer), which result from this damage and are associated with EMFs and cell phone antennas?

- Genetic mutations
- Memory disruptions
- Hindered learning
- ADD
- Insomnia
- Brain disorders
- Hormonal imbalances
- Infertility
- Dementia
- Heart complications

These dangers clearly make it imperative to take action.

Cell towers are here to stay but their implantation needs effective regulation in terms of location and radiation levels. The 1996 *Telecommunications Act (TCA)*, does not qualify the public's right to protest cell tower locations based on health hazards. **Cell towers should be located away from residential areas and far away from schools and day care centers.**

Sources:

- <http://www.getmefacts.info/>
- <http://www.hellkom.co.za>
- <http://www.cell-out.org/>
- <http://whyhy.org>
- <http://cdn.bizcommunity.com>
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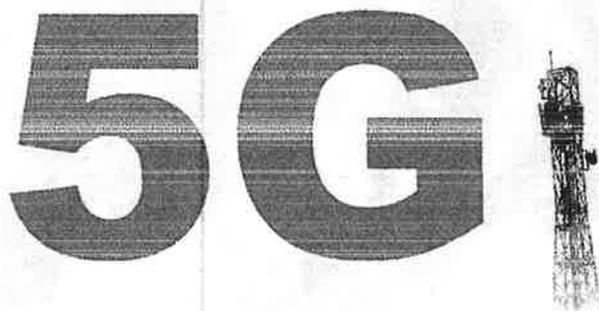
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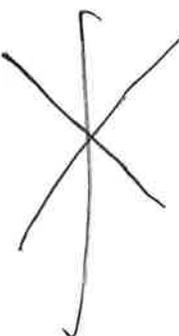
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By Catherine J. Frompovich



Cell phone towers dot the landscape every so many hundred or thousand feet in most places, especially along interstate highways and on higher or hill-top locations. Because there is such a demand for cell phone service—*more cell phones now than the total global population*—more and more technology means of providing service have to be implemented. However, cell towers cost around \$150,000 each to erect. Consequently, cell providers want less expensive ‘infrastructure’ to be able to provide faster and ‘better’ service, therefore, the introduction of “5G”, which no one knows what that “generation of service” will do to humans, wildlife and the environment.

One of the more resolute EMR/RF/cell phone radiation researchers is Lloyd Burrell of Royan Poitou Charentes, France, in the European Union.

Lloyd does an *exceptional job* of researching, providing a newsletter and also interviewing other researchers on his weekly Internet show, which can be accessed at *ElectricSense* and lloyd@electricsense.com.

Recently Lloyd produced an extremely informative document about “*Cell Tower Radiation & Cancer, The Facts*” wherein he listed 17 References and/or citations from scientific journals pointing out connections between cell towers and cancer. I’ve taken the liberty to reproduce those References below, as they point to apparent health hazards that are ‘overlooked’ in favor of implementing cell phone and tech services.

If the research below indicates problems, *especially cancer*, what can we expect from 5G? No one really knows!

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Biological Effects of Microwaves and Radio Frequency Radiation

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1972 US Naval Medical Research Institute study, listing the effects of Radio Frequency (Microwaves) upon the human body, and in animals. Full description



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