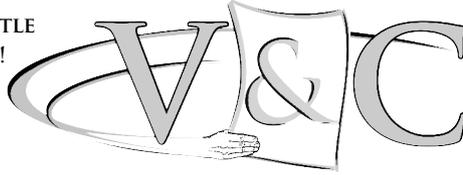


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~ No. 24/18: WARNING OF 5G ~

INTRO

5G is the new mobile communications generation to be launched in Switzerland and the EU countries by 2020. The new network will bring more data capacity to the consumer, allow autonomous driving of vehicles thanks to ultra-short response time and will process huge amounts of data in the industry. According to the mobile communications lobby, humanity is on its way out of the "technological stone age", but at what health price? This V&C shows why 5G must be rejected and this development stopped.

The Editorial Office (ch.)

5G radiation - uncontrolled experiment?

hw. The fifth generation (5G) of mobile communication technology will be 400,000 times more powerful than the second generation (2G), which started the era of digital radio in 1992. 5G will transmit in the microwave range, which are electromagnetic waves in the frequency range between 1 to 300 GHz. The existing 2G, 3G and 4G networks transmit in the range from 790 megahertz (MHz) to a maximum of 2.6 gigahertz (GHz). 5G is also supposed to use so-called millimeter waves up to 200 GHz. Such high frequency microwaves are so short that they can be absorbed through the skin. A study by physics professor Yuri Feldman of the Hebrew University of Jerusalem concludes that sweat glands attract the 5G radiation like antennas and are "cooked" by them. He demands that potential health threats be clarified prior to the introduction of the 5G standard. If not, humanity will be exposed to a "gigantic uncontrolled experiment"! [1]

"If these devices and antennas with 5G technology fill the public space, they will affect everyone, including the more susceptible members of the public: babies, pregnant women, the elderly, the sick and electro hypersensitive individuals. Potentially, if G5 Wi-Fi is spread in the public domain we may expect more of the health effects currently seen with RF/microwave frequencies including many more cases of hypersensitivity (EHS), as well as many new complaints of physical pain and a yet unknown variety of neurologic disturbances." [2]

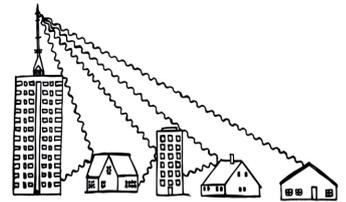
Dr. Yael Stein from the Hadassah Medical Center in Jerusalem

Massively higher radiation exposure due to 5G

hw/dd. The Swiss association Gigahertz.ch has been campaigning for years to protect citizens from the harmful effects of electromagnetic radiation. The president of Gigahertz, Hans-Ulrich Jakob, followed up on the question: How high are the frequencies that 5G needs for the huge amounts of data to be transferred and what does it mean regarding radiation exposure to humanity and the environment? He examined a writing from the Swedish company Ericsson, which will supply the equipment for 5G base stations including antenna systems to Swisscom: Ericsson supplies 5G base stations for the frequency

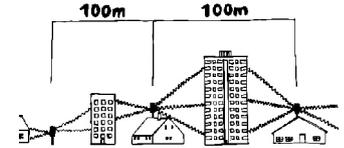
ranges 3.6 and 28 gigahertz. These are wavelengths of 8.3 cm respectively 1.15 cm at 28 GHz. The rule of thumb is: If the wavelength is shorter than the wall is thick, (almost) nothing passes through it anymore. The following drawings show how Ericsson and Swisscom want to outsmart this physical disadvantage:

In the previous propagation mode of mobile radiation in the 2G, 3G and 4G mode, care was taken not to directly radiate at buildings, but over them, in order to provide as large a zone as possible. Behind the buildings there is a radio shadow, causing a poorer connection quality. An antenna must therefore be placed as high as possible.



With 5G, everything will become different:

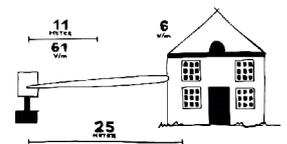
Because of the difficulty of penetrating walls with 3.6 respectively 28 GHz, 5G must be virtually radiated on every individual facade. This means that at least every 100 m, a mobile radio antenna must be installed, at as low a height as possible.



100 times more data at 100 times higher speed is promised. We were always puzzled how this would work. Now we know.

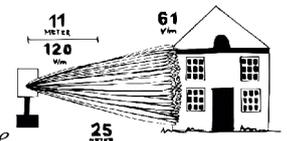
Today's radiation exposure at 4G:

1 radiation beam per transmission direction. After 25 m, the electric field strength is 6 V/m. In the safety zone around the antenna up to 11 m, the electric field strength is 61 V/m.



Expected radiation exposure at 5G:

Instead of one beam 64 beams, 8 each side by side and 8 each on top of each other. The electric field strength in the safety zone increases to 120 V/m up to a distance of 11 m. After 25 m, the electric field strength is still 61 V/m.



The ICNIRP, which calls itself the International Radiation Protection Commission, which in fact is not a public authority, but a mere private association, has made its limit recommendations 5G-capable. These were increased without further ado from 137 V/m to 200 V/m for workplaces and from 61 V/m to 90 V/m for the general population. [3]

Sources: [1] www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen | <https://de.wikipedia.org/wiki/Mikrowellen> [2] www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen | <https://ehtrust.org/letter-fcc-dr-yael-stein-md-opposition-5g-spectrum-frontiers/> [3] www.gigahertz.ch/drin-gende-warnung-vor-5g | www.zukunftsmministerium.bayern.de/imperia/md/content/stmas/stmas_internet/arbeitschutz/elektromagn-felder.pdf

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