

Open Letter to the Chancellor

We doctors and psychotherapists oriented towards environmental medicine see a connection between radio interference, immunodeficiency and global epidemic.

We call for drastically reducing the burden of high-frequency exposure that is spreading worldwide!

Dear Chancellor,

The inhabitants of the globe are currently experiencing an extensive wave of diseases due to the **SARS Corona Virus 2**. Elderly people (with often deficient vital substances) and those with previous illnesses or with a weakened immune system (e.g. due to the vitamin D deficiency, which is particularly prevalent in winter and spring) are particularly at risk. The losses in human life and the consequences for the economy and employees due to the politically prescribed massive contact restrictions cannot be estimated, nor can the psychosocial consequences.

We, the undersigned doctors and psychotherapists, consider two other factors to be significant in addition to the above. In addition to the degree of **infectivity of the virus**, the **susceptibility of the "host" plays** a role, that is, specifically how well **the immune system** works and whether specific virus antibodies are missing or have already been formed. In prevention and therapy, the most important thing is to prevent a weakening of the immune system and, in addition, to strengthen the immune system therapeutically. Immune system damage occurs, for example, from widespread toxins, malnutrition, some medications, air pollution and certain lifestyle factors (alcohol, nicotine).

In addition, there have been new harmful environmental influences for the past two decades, the effects of which we have seen more and more frequently in our medical and psychotherapeutic work. It is about the **constant exposure to mobile communications** (cell phones and smartphones and the associated base stations) and similar technologies with pulsed radio frequency (WLAN with the frequencies 2.4 and higher than 5 GHz, DECT cordless phones, baby phones, tablets, Bluetooth, "Intelligent" measuring systems - so-called "smart meters", radar, etc.).

There is already a wealth of research results on the radio-operated devices mentioned and the previous mobile radio standards 2G (GSM), 3G (UMTS), 4G (LTE), which for the most part turned out to be unsettling. According to the opinion of many industry-independent experts, pulsed high-frequency technology is now considered to be one of the causes of numerous health problems (e.g. sleep disorders, headaches, behavioral disorders, depression and exhaustion), due to increased production of free radicals ("oxidative stress") (inter alia: **Yakymenko 2016**)

Furthermore, scientific research is available on changes in the heart rhythm, changes in gene expression, changes in metabolism, the development of stem cells, the development of cancer, cardiovascular diseases, cognitive impairments, DNA damage, effects on general wellbeing increased number of free radicals, learning and memory deficits, impaired sperm function and quality (see the list of scientific studies in: **International Scientist Appeal 2015, Appeal: Stop 5G: Firstenberg 2018**).

Influences of high-frequency signals on the immune system were also determined (infection cluster near base stations, **Waldmann-Selsam 2005**) (**Grigoriev 2012, Szmigielski 2013, Moskowitz 2020**). In addition to undisturbed melatonin production (**Reiter, Robinson 1995**), vitamin D3 is crucial for the functioning of the immune system. The docking point for vitamin D3 (vitamin D receptor, VDR) is inhibited by mobile radio so that it cannot develop its immunoregulatory effect (**Kaplan 2006, Marshall 2017**) .

Man is a bioelectromagnetic being, the living cells have electrical potentials (in the millivolt range) on the cell membranes. Their function can be disturbed by low-frequency electrical fields and radio. A weakening of the cell membrane potential demonstrably leads to different clinical symptoms.

The Radiation Protection Commission (German: SSK) had already determined in 1991 that radio radiation below the limit values increases the calcium transport through the cell membrane (**SSK 1991**). Independent scientists are currently discussing the existence of voltage-dependent calcium channels, which, irritated by weak electromagnetic fields, can cause negative effects in the cell (**Pall 2018**). In a study by the Agricultural University of Wuhan, China, Bai and colleagues report that coronaviruses in the pig's intestinal epithelium increased the influx of calcium and thus promoted virus replication; The infection can be inhibited by special drugs, the calcium channel blockers (**Bai 2020**).

A summary of the current scientific knowledge can be found in Diagnose Funk (NGO) (**Diagnose: Funk 15.04.2020**).

5G is already under construction in major German cities and in individual rural regions. A letter from Transport Minister Scheuer and Environment Minister Schulze from the beginning of April clearly shows what is required of the politically responsible persons in cities, municipalities and rural districts: "You have to help find the location for the new mobile radio systems and ultimately support the planned transmitters on site" (**Südkurier 2020**). Three different frequency ranges are used here: around 700 megahertz (used for large events), around 3.6 gigahertz (smart cities), around 26 gigahertz (indoor supply, supply networks). (**German Federal Government 2017**). This increases the antenna density and thus the radiation exposure of the population many times over. We consider the introduction of 5G and the disregard for the precautionary principle, to be highly risky, as no risk assessment has been carried out, disregarding the precautionary principle, and the few existing studies show highly questionable results. The persistently repeated reference by the industry and the authorities to the supposedly "safe limit values", which were laid down in the 26th BImSchV, is misleading. The ICNIRP eV (International Commission on Non-Ionizing Radiation Protection), on whose recommendation to politicians the limit values are based, is **biased** because of its **proximity to industry** (**ICNIRP and EPRS 2020, Starkey 2016** on SCENIHR 2015). The limit values relate only to short-term warming by mobile radio and do not offer protection to the population.

In our view, the current situation with the dangerous SARS coronavirus 2 requires decisive action.

We doctors again appeal to all those responsible in government and healthcare:

1. Stop 5G!

2. Reduce the ubiquitous forced radiation of the population!

3. Educate the population comprehensively about the harmful effects of mobile radio and the other high-frequency technologies mentioned here!

4. Stop the dominant influence of the ICNIRP and the mobile radio lobby on the radiation protection commission, federal office for radiation protection and government! Instead of promoting state-of-the-art cell phone expansion and the cell phone industry, as before, it is now a top priority to support the health of the population, their ability to work and care by all means.

For the health of all of us!

Aschermann, Christine, Dr. med., Nervenärztin, Psychotherapeutin

Bergmann, Wolf, Dr. med., Facharzt für Allgemeinmedizin, Homöopathie

Dohmen, Barbara, Fachärztin für Allgemeinmedizin/Umweltmedizin

Foerster, Hans Christoph, Dr. med., Arzt für Allgemeinmedizin

Hecht, Karl, Prof. em. Prof Dr. med. habil., Experimentelle und klinische pathologische Physiologie, Neurophysiologie

Kammerer, Michaela, Fachärztin für Allgemeinmedizin

Kern, Markus, Dr. med., Facharzt für Psychosomatische Medizin

Krout, Monika, Dr. med., Fachärztin für Allgemeinmedizin, Elektrobiologin

Mutter, Joachim, Dr. med., Facharzt für Umweltmedizin und Hygiene

Röttgers, Gabriele, Dr. med., Ärztin für Allgemeinmedizin

Waldmann-Selsam, Cornelia, Dr. med., praktische Ärztin

Literature (Selection):

Bai, D. et al.: Porcine deltacoronavirus (PDCoV) modulates calcium influx to favour viral replication. *Virology* 2020: 539,38-48. <https://www.ncbi.nlm.nih.gov/pubmed/31670218>

Deutsche Bundesregierung 2017: 5G-Strategie: https://www.bmvi.de/SharedDocs/DE/Publikationen/DG/098-dobrindt-5g-strategie.pdf?__blob=publicationFile

Diagnose: Funk <https://www.diagnose-funk.org/publikationen/artikel/detail&newsid=1550>

EPRS/Wissenschaftlicher Dienst des Europäischen Parlaments: Auswirkungen der drahtlosen 5G Kommunikation auf die menschliche Gesundheit, Febr. 2020

Firstenberg, A. 2018: Internationaler+Appell+Stopp+von+5G+auf+der+Erde+und+im+Weltraum.pdf <https://static1.squarespace.com/static/5b8dbc1b7c9327d89d9428a4/t/5dbf70b16164d93f9b728ce3/1572827316637>

Grigoriev, Igor, Evidence for Effects on the Immune System Supplement 2012, Immune System and EMF RF, in Bioinitiative Report 2012, Section 8

ICNIRP: <https://www.icnirp.org/en/about-icnirp/structure-membership/index.html>frühere Mitglieder z.B. 2004-2008 <https://www.icnirp.org/cms/upload/doc/statutes.pdf>

Marshall, Trevor G., Trudy Rumann Heil, Electrosmog and autoimmune disease, in *Immunol. Res.* 2017; 65(1):129-135 <https://www.ncbi.nlm.nih.gov/pubmed/27412293>

Pall, Martin, 2018: 5G als ernste globale Herausforderung in: <https://kompetenzinitiative.com/broschueren/>

Moskowitz, Joel M., Übersicht mehr als 80 Studien: 5G Wireless Technology: Is 5G Harmful to Our Health? <https://www.saferemr.com/>

Reiter, Russell J., Jo Robinson: Melatonin – your body`s natural wonder drug, New York 1995, Bantam Books

SSK 1991: Schutz vor elektromagnetischer Strahlung, in: Bundesanzeiger Nr. 43, 03.03.1992

Starkey, Sarah, 2016: Inaccurate official assessment of radiofrequency safety by the Advisory Group on Non-ionising Radiation, in Rev Environ Health 2016; 31(4): 493-503, de Gruyter

Südkurier Nr. 80, 04.04.2020, Kunigkeit, Kommunen sollen`s richten, Werbung um Akzeptanz von Mobilfunkmasten

Szmigielski S.: Reaction of the immune system to low-level RF/MW exposures, Sci Total Environ. 2013 Jun 1;454-455:393-400 <https://www.ncbi.nlm.nih.gov/pubmed/23562692>

Waldmann-Selsam, C.: Dokumentierte Gesundheitsschäden über den Einfluss hochfrequenter elektromagnetischer Felder, 1.Auflage 2005
<https://www.diagnose-funk.org/publikationen/artikel/detail&newsid=784> und Fachgespräch im Bundesamt für Strahlenschutz 02.08.2006
http://www.emf-forschungsprogramm.de/veranstaltungen/protokoll_fallbeispiele_111206.html

Wikipedia: https://en.wikipedia.org/wiki/Calcitriol_receptor

Wissenschaftler-Appell 2015 <https://emfscientist.org/index.php/emf-scientist-appeal>

Yakymenko, Igor, Oxidative mechanisms of biological activity of low-intensity radiofrequency radiation in: Electromagnetic Biology and Medicine, Volume 35, 2016 - Issue 2 und Stellungnahmen <https://www.diagnose-funk.org/publikationen/artikel/detail&newsid=1001>

Zothansiana, M. Z., Miriam Lalramdinpuui, Ganesh Chandra Jagetia. Impact of radiofrequency radiation on DNA damage and antioxidants in peripheral blood lymphocytes of humans residing in the vicinity of mobile phone base stations, in Electromagnetic Biology and Medicine Volume 36, 2017 - Issue 3
<https://doi.org/10.1080/h15368378.2017.1350584>

Revised version: 19.04.2020 Contact: Christine Aschermann

Translated into English by Hans Karow and Marcus Schlüschen, Canada. Sincerest thanks to them!