

## FACTSHEET – Real-life 5G case studies (Hardell, Nilsson)

### Published REAL-LIFE 5G Case Studies

Published case-studies demonstrate the real-life effect of 5G on human health.

All studies are by oncologist and researcher **Lennart Hardell** from the Research Foundation for Environment & Cancer and **Mona Nilsson** from the Radiation Protection Foundation.

#### **CASE-STUDY #1**

**## Case Report:** The Microwave Syndrome after Installation of 5G Emphasizes the Need for Protection from Radiofrequency Radiation, (Hardell, Nilsson, Published 10-Jan-2023)

Annals of Clinical and Medical Case Reports [https://www.gavinpublishers.com/assets/articles\\_pdf/Case-Report-The-Microwave-Syndrome-after--Installation-of-5G-Emphasizes-the-Need-for--Protection-from-Radiofrequency-Radiation.pdf](https://www.gavinpublishers.com/assets/articles_pdf/Case-Report-The-Microwave-Syndrome-after--Installation-of-5G-Emphasizes-the-Need-for--Protection-from-Radiofrequency-Radiation.pdf)

*"In this case, report two previously healthy persons, a man aged 63 years and a woman aged 62 years, developed symptoms of the microwave syndrome after installation of a 5G base station for wireless communication on the roof above their apartment."*

*The first ever study of the health effects of 5G radiation on humans shows that 5G causes typical symptoms of microwave syndrome as well as a massive increase in microwave radiation. The case study also confirms once again that radiation well below levels allowed by the authorities causes ill health.*

#### **CASE-STUDY #2**

**## Development of Microwave Syndrome in 2 Men after Installation of 5G on Roof above office** (Nilsson and Hardell, Published 04-Feb-2023)

Annals of Clinical Case Reports <https://www.anncaserep.com/abstract.php?aid=9589>  
<https://www.anncaserep.com/open-access/development-of-the-microwave-syndrome-in-two-men-shortly-after-9589.pdf>

*The clinical picture in both men was clearly related to the exposure, although the exposures were well below the guidelines recommended by ICNIRP that are claimed to protect against all health effects. We conclude that the guidelines for RFR exposure based only on tissue heating by ICNIRP are inadequate to protect human health and that 5G appears to provoke symptoms of microwave syndrome in previously healthy people.*

*"In this case study we describe two men, case 1 and case 2, working in three office rooms close to base stations. After the deployment of 5G, both men developed symptoms typical for the microwave syndrome, e.g., headache, tinnitus, dizziness, balance disorder, concentration and attention deficiency, and fatigue."*

Also covered in this article

**## Two studies show that 5G caused the microwave syndrome in healthy persons**

<https://www.stralskyddsstiftelsen.se/two-studies-show-that-5g-caused-the-microwave-syndrome-in-healthy-persons/?fbclid=IwAR2Gfg7A15P19tdjNdZ9CI22oND-wn7OJFNdQ6eMHoLD5WI75cH6Hx77m5c>

'A new case study shows that installing a 5G base station on the roof above an office caused symptoms of microwave syndrome in two previously healthy men. The study is in line with a previous case study that also showed that 5G rapidly caused microwave syndrome in previously healthy people. These appear to be the first two studies in the world on the health effects of exposure to real 5G.'

#### **CASE-STUDY #3**

**## Case Report - 52-Year Healthy Woman Developed Severe Microwave Syndrome** (Hardell, Nilsson Published 10-Apr-2023) <https://www.acmcasereport.com/pdf/ACMCR-v10-1926.pdf>

*"In this case report we present a woman aged 52 years who developed health problems consistent with the microwave syndrome after installation of a 5G base station facing her apartment at 60 meters' distance. These symptoms consisted of e.g., headache, dizziness, concentration difficulties, fatigue, arrhythmia, skin burning and nose bleeding corresponding to the microwave syndrome"*

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### CASE-STUDY #4

#### ## Case Report - 5G Radiofrequency Radiation Caused the Microwave Syndrome in a Family Living Close to the Base Stations (Nilsson, Hardell, Published 30-June-2023)

<http://www.fortunejournals.com/articles/5g-radiofrequency-radiation-caused-the-microwave-syndrome-in-a-family-living-close-to-the-base-stations.html>

<https://www.fortunejournals.com/articles/5g-radiofrequency-radiation-caused-the-microwave-syndrome-in-a-family-living-close-to-the-base-stations.pdf>

*The study was published in the Journal of Cancer Sciences and Clinical Therapies.*

*“In this article we present a new case study of a family including three persons, a woman 55 years, a 20-year-old man and a 19-year-old woman. The fourth family member, the father, did not participate. All live in an apartment with two 5G/4G base stations directed towards their apartment, one at a distance of around 50 meters and the second at a distance of around 70 meters. The base stations are placed on the roof of two adjacent 6-floor buildings. The apartment of the family is located at a slightly lower height, on the fourth floor, in another building across the street”*

Base stations for 3G/4G had been active in the same locations and were upgraded July-2021 and May-2022. The family members had several symptoms typical of microwave syndrome, the most severe being in the young woman, who had already had some health issues prior to the 5G-upgrade, but experienced worsened health symptoms after the deployment. Symptoms included sleeping problems, headache, concentration and memory problems, skin disorders, irregular heartbeat, light sensitivity, anxiety and panic attacks. Reported in <https://ehtrust.org/case-study-published-5g-health-effects-to-family-living-close-to-5g-cell-antennas/>

### CASE-STUDY #5

#### ## Case Report - A 49-Year-Old Man Developed Severe Microwave Syndrome after Activation of 5G Base Station 20 Meters from his Apartment

Mona Nilsson, Lennart Hardell, Journal of Community Medicine & Public Health, Published 13-Nov-2023

[https://radiationprotection.se/wp-content/uploads/2023/11/microwave-syndrome\\_man49years\\_Nilsson\\_Hardell\\_nov2023.pdf](https://radiationprotection.se/wp-content/uploads/2023/11/microwave-syndrome_man49years_Nilsson_Hardell_nov2023.pdf)

*“The deployment of the fifth generation, 5G, for wireless communication has been rolled out in Sweden since 2019/2020. This has caused increased high-pulsed Radiofrequency (RF) radiation. In four case reports we have described persons that developed the microwave syndrome soon after installation of 5G base stations close to their residence or office. In this new case report a 49-year old previously healthy man is described. A 5G base station was installed 20 meters from his apartment. He rather immediately developed a variety of symptoms that are part of the microwave syndrome. Most severe were headache, dysesthesia (abnormal sensation), loss of immediate memory, high and irregular pulse, chest squeeze, burning and lancinating skin. Very high RF radiation was measured in his apartment, however much lower than the limits recommended by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). After moving to another apartment with low RF radiation the symptoms disappeared or decreased within a short time period but they reappear whenever he returns to his apartment close to the 5G antennas. This must be regarded as a provocation test on health and 5G radiation.”*

[https://radiationprotection.se/5g/fifth-case-study-shows-5g-rapidly-caused-harmful-health-effects/?fbclid=IwAR3mxznwewN4UVHScHXD4sEICl2fv7l95rU\\_FpO41X6c0Z-rBUW48db8YJO](https://radiationprotection.se/5g/fifth-case-study-shows-5g-rapidly-caused-harmful-health-effects/?fbclid=IwAR3mxznwewN4UVHScHXD4sEICl2fv7l95rU_FpO41X6c0Z-rBUW48db8YJO)

### CASE-STUDY #6

#### ## Case Report - Both Parents and their Three Children Developed Symptoms of the Microwave Syndrome while on Holiday near a 5G Tower

Mona Nilsson, Lennart Hardell, Annals of Clinical and Medical Case Reports, published 02-Dec-2023

<https://acmcase-report.org/wp-content/uploads/2023/12/ACMCR-v12-2046-1.pdf>

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*“Antennas emitting radiofrequency (RF) radiation for 5G wireless communication are being deployed since 2019/2020 in Sweden, although no studies are available on health impacts from the new 5G radiation. In five case reports published during 2023 we have described that persons living or working close to 5G base stations developed the microwave syndrome soon after installation of the base stations. In this new case report we describe a previously healthy family of a man, a woman and their three children that rapidly developed symptoms of the microwave syndrome after arriving at a summer cottage located at 125 meters distance from a mobile phone tower with 5G antennas. The most severe symptoms for the adults were sleeping problems, headache, tiredness, and irregular heartbeat. The children got sleeping problems, diarrhea, pain in the stomach, skin rashes, headache, and emotional symptoms. All the symptoms disappeared and health was restored when the family returned to their own house at another place with no 5G base stations. No measurements were available inside or outside the cottage during the time the family stayed near the mast. Later measurement showed that the radiation level varied from 9000 to 43400  $\mu\text{W}/\text{m}^2$  outside the cottage on the 5G base station side, compared with 2500  $\mu\text{W}/\text{m}^2$  at most within their regular home without a 5G base station nearby. However, during their stay it is likely that the radiation was higher due to more mobile phone users staying at this summer cottage area. This case report is in line with results from our previous case reports showing that 5G rather rapidly may cause ill health and that elimination or reduction of 5G exposure restores health back to normal.”*

### **SUMMARY (from Karen Churchill) CASE STUDIES published in 2023**

**Table 1.** Summary of health status, symptoms and distance from 5G antennas for the six studies published in 2023.

<b>Study</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<i>Published</i>	10 Jan.	4 Feb.	10 April	30 June	13 Nov.	2 Dec.
<i>Subjects, age (years)</i>	man 63, woman 62	man 57, man 42	woman 52	woman 55, man 20, woman 19	man 49	man 39, woman 39, children 8,6,4
<i>Health status</i>	previously healthy	previously healthy	previously healthy	previously healthy	previously healthy	previously healthy
<i>Hypersensitive</i>	no, no	no, no	no	no, no, possibly	no	no (all)
<i>Time to onset of symptoms</i>	'a couple of days'	'a couple of weeks'	(a) ~1 month (b) <14 days	~ 6 weeks (woman 55)	hour(s), <7 days	3 days
<i>Some severe symptoms</i>	fatigue, tinnitus, headaches, insomnia, dizziness, skin rashes, blood pressure disorder, nose bleeds	headaches, arthralgia, tinnitus, dizziness, concentration problems, fatigue, skin rashes, insomnia, anxiety	headaches, dizziness, concentration problems, memory loss, fatigue, anxiety, cough, nose bleeds, lung problem	insomnia, headaches, concentration problems, memory loss, skin rashes, irregular pulse, photophobia, anxiety	headaches, dysesthesia, memory loss, irregular pulse, high pulse, skin rashes, fatigue, insomnia	insomnia, headaches, fatigue, irregular pulse, dysesthesia, diarrhoea, irritability, breathless, skin rashes
<i>Distance from 5G antennas</i>	5 m	5 m – 20 m	60 m	50 m, 70 m	20 m	125 m