

# Case Report: Illness After 5G Antennas on Rooftop

By [Environmental Health Trust](#)

Theme: [Science and Medicine](#)

Global Research, January 12, 2023

[Environmental Health Trust](#) 11 January 2023

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*New paper: [Case Report: The Microwave Syndrome after Installation of 5G Emphasizes the Need for Protection from Radiofrequency Radiation](#) by Lennart Hardell, Mona Nilsson*

## Abstract

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. A base station for previous telecommunication generation technology (3G/4G) was present at the same spot since several years. Very high radiofrequency (RF) radiation with maximum (highest measured peak value) levels of 354 000, 1 690 000, and >2 500 000  $\mu\text{W}/\text{m}^2$  were measured at three occasions in the bedroom located only 5 meters below the new 5G base station, compared to maximum (peak) 9 000  $\mu\text{W}/\text{m}^2$  prior to the 5G deployment.

The rapidly emerging symptoms after the 5G deployment were typical for the microwave syndrome with e.g., neurological symptoms, tinnitus, fatigue, insomnia, emotional distress, skin disorders, and blood pressure variability. The symptoms were more pronounced in the woman. Due to the severity of symptoms, the couple left their dwelling and moved to a small office room with maximum (peak) RF radiation 3 500  $\mu\text{W}/\text{m}^2$ . Within a couple of days, most of their symptoms alleviated or disappeared completely. This medical history can be regarded as a classic provocation test.

The RF radiation levels in the apartment were well below the limit proposed to be "safe" below which no health effects would occur, recommended by the International Commission on Non-Ionizing Radiation (ICNIRP). These now presented symptoms of the microwave syndrome were caused by non-thermal effects from RF radiation and highlight that the ICNIRP guidelines used in most countries including Sweden do not protect human health. Guidelines based on all biological negative effects from RF radiation are urgently needed, as well as monitoring human health, not the least due to rapidly increasing levels of exposure.

## Conclusions

"5G is being rolled out without any studies showing that 5G is safe for humans and wildlife. To our knowledge, this is the first study of health outcomes in persons exposed to 5G RF radiation. Within a couple of days, a new 5G base station caused severe symptoms in two previously healthy persons that correspond to the microwave syndrome. The deployment of 5G also caused a dramatic increase in maximum (peak) microwave radiation exposure, from 9 000  $\mu\text{W}/\text{m}^2$  to  $>2\,500\,000\mu\text{W}/\text{m}^2$ . The symptoms quickly reversed when the couple moved to a dwelling with much lower exposure. This case is in line with scientific findings reported already 50 years ago on effects of exposure to microwave radiation and that most symptoms disappear when the exposure is discontinued. This study and previous studies show that the microwave syndrome appears at levels well below the current limits recommended by the ICNIRP."

[Read the report here.](#)

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