

## Small Cells, 5G, and Health Concerns

My testimony to the Montgomery County Council on 11/19/2019  
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My husband is a survivor of stage 3 non-Hodgkin's lymphoma. This makes us strong believers in the "precautionary principle": don't implement something until it's proven safe. Small cells concern us because they are the gateway to a level of frequencies not yet experienced — or tested.

A 2017 study measured biological blood responses in people who were exposed to cell tower radiation.<sup>1</sup> Two groups of people were matched for age, gender and lifestyle. They were healthy individuals who did not use wifi devices. A single cell tower was their only source of EMFs. The exposed group had more micronuclei and less glutathione. Micronuclei form as a result of chromosomal damage. They are considered an early biological indicator of cancer risk. Glutathione helps to protect cells from toxins and supports the immune system. The closer the people were to the cell tower, the greater the effects seen in their blood.

This study was performed in India, where the radio frequency limit is 1/10 that of international guidelines. The US still allows the full limit. The wireless industry does not want countries to establish lower limits because they themselves admit it would make it too hard to implement 5G.<sup>2</sup> If fact, limits might have to go higher.

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<sup>1</sup> "Study Finds Cell Tower Radiation is Linked To Type of Damage in Human Blood That Predicts Cancer."

<https://ehtrust.org/study-finds-cell-tower-radiation-linked-type-damage-human-blood-predicts-cancer/>

<sup>2</sup> "Impact of EMF limits on 5G network roll-out."

[https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20171205/Documents/S3\\_Christer\\_Tornevik.pdf](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20171205/Documents/S3_Christer_Tornevik.pdf)

In a statement to the UN, the Planetary Association for Clean Energy (PACE) revealed that allowable international “radiation limits will have to be increased by 30 to 40%” to accommodate 5G.<sup>3</sup>

Studies show vulnerable populations — pregnant women, infants, children, and senior citizens — can be more affected.

Studies also show there can be potent synergy between toxins, pathogens and microwaves.<sup>4</sup> This means people with known toxic exposures to lead, mercury, or aluminum — and people with pathogenic diseases such as Lyme — can be more affected.

In 2017, over 180 scientists and medical doctors from 36 countries recommended a moratorium on the roll-out of 5G until potential health effects have been “fully investigated by scientists independent from industry.” These studies need to reflect total and cumulative exposure. 5G will substantially increase radio frequency fields and these fields have “been proven harmful for humans and the environment.”<sup>5</sup>

In conclusion, more studies are necessary. Until then, you need to protect the citizens of Montgomery County by enacting zoning laws to halt the roll-out of small cells and 5G.

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<sup>3</sup> Official documents of the United Nations.

<https://documents-dds-ny.un.org/doc/UNDOC/GEN/G19/049/05/pdf/G1904905.pdf?OpenElement>

<sup>4</sup> “Wireless Radiation/Electromagnetic Fields Increases Toxic Body Burden.”

<https://ehtrust.org/key-issues/the-environment-and-health/wireless-radiation-electromagnetic-fields-increases-toxic-body-burden/>

<sup>5</sup> “Scientists warn of potential serious health effects of 5.”

<https://ehtrust.org/wp-content/uploads/Scientist-5G-appeal-2017.pdf>