

## 'SMART' PHONES DAMAGE RED BLOOD CELLS

Images from a talk "Beverly Rubik: Wireless Radiation, 5G, the Environment, and Our Health," <https://www.youtube.com/watch?v=BTFYQoBr7qs> – see at 38 min. in Beverly Rubik's background, videos, awards: <https://www.brubik.com>

**ALSO: A study of 'smart' meter radiation exposures corroborates these results:** "Live Blood Analysis - Observable Effects of RF/MW Radiation via Smart Meters," <https://www.youtube.com/watch?v=y4JDEspdx58>, 2:42 minutes.

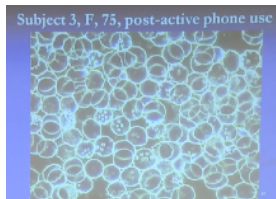
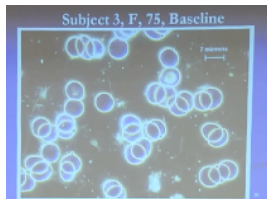
and **EMF Medical Conference, Pre-Conference Lecture 2** (<https://vimeo.com/showcase/10624511/video/862709610>): **regarding cardiac arrests** see "Live Blood" 18 min. in.

**'Smart' phone irradiation:** 1. no phone for 4 hours, 2. phone on, carried in backpack for 45 min., 3. active use of phone for calls and data for 45 min.

**Subject 3, female, 75**

Rouleaux clumping

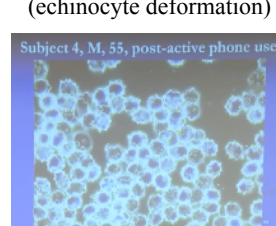
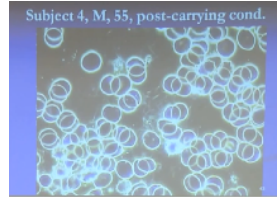
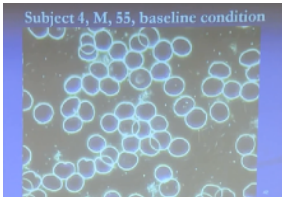
Degradation/BottleCap



**Subject 4, male, 55**

Distortions and clumping

100% bottle-cap spikes (echinocyte deformation)



"Short term human exposure to cell phone radiation as an ordinary use, can lead to undesirable changes in the blood. ... RBCs first aggregate, then upon further exposure, become misshapen and spiky."

**"DISCUSSION** • RBC aggregation: seen in ill persons, the elderly, and those consuming pro-inflammatory diets • RBCs aggregation: **decreases micro-circulation and increases blood viscosity** → increased cardiovascular risk • Spiky and other misshapen RBCs: aging RBCs, and diseases such as cirrhosis of the liver with associated anemia • Echinocytes (spiky RBCs) suggest changes in cell membrane permeability and loss of stability, and are **also known to impair oxygen release in the tissues** • How long do these changes last? Unclear."

**"The clotting cascade and the inflammatory cascade of blood intersect. When we see clotting we suspect inflammation. ... a logical assumption."**

**Systemic abnormal clotting, oxygen starvation in COVID-19**  
– made worse by wireless?

**Be wise: SHUT OFF bluetooth & WiFi USE airplane mode**

→ See text over

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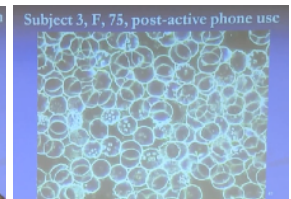
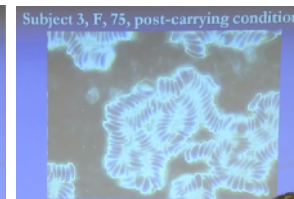
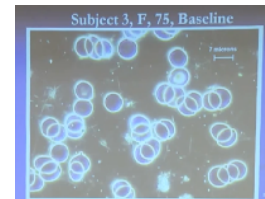
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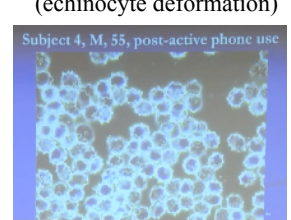
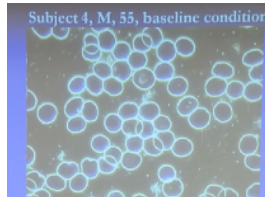
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## Here are two studies on COVID and wireless radiations:

**“COVID-19 Attributed Cases and Deaths are Statistically Higher in States and Counties with 5th Generation Millimeter Wave Wireless Telecommunications in the United States,”** Angela Tsiang and Magda Havas, Ph.D., published in [Medical Research Archives](https://esmed.org/MRA/mra/article/view/2371) 12 April 2021; <https://esmed.org/MRA/mra/article/view/2371> Click download.

**“Exposure to 5G mmW technology is statistically significantly associated with higher COVID-19 case and death rates in the U.S.A.,”** Beverly Rubik, Ph.D. and Robert R. Brown; [J Clin Transl Res](https://doi.org/10.1186/s13075-021-02621-1). 2021 Oct 26; 7(5): Includes all RF radiation from wireless communications, not just 5G. Extensively peer-reviewed (see the comments). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8580522/>.

## The study presented as an enlarged display to the Town Board:

I would like to show you some images of the biological effects of ‘smart’ phone and ‘smart’ utility meter radiation. I bring this to you because more and more wireless infrastructure is allowed to roll out in our communities, and there are very unhealthy aspects to this that we need to know about and consider.

I often take walks around town. I now find that some of the telephone poles have digital ‘smart’ meters meters on them. My radio-frequency detector picks up spikes of radiation from them every 15-to-20 *seconds*. The rollout of ‘smart’ meters to replace the safe and reliable analog meters on residences is under way in our county.

Here’s why I’m concerned: ‘Smart’ meters and phones damage the red blood cells in our body.

Here is the blood from two individuals – *you can see more in the Youtube by Beverly Rubik, R U B I K, on wireless radiation*: first after **NO** ‘smart’ phone radiation for 4 hours, then after having the phone in a backpack with it on, then after using it for 45 minutes.

At first the blood cells flow separately: a slight negative charge keeps them apart so they can pick up oxygen and scoot through capillaries one by one. But deprived of this charge and changed by cell phone exposure they clump together like rolls of coins called ‘rouleaux,’ and they become spiky all over, like sea urchins. *They cannot deliver oxygen*. The same happens in response to ‘smart’ meter radiation, as you see on the other sheet I gave you.

Many are the consequences of this; and I would even suggest that these blood changes play a role in the massive clotting seen in COVID. It is found that the body has *no normal capacity* to dissolve these clots – of course not, for this clumping effect of *wireless* radiation is utterly foreign to the body. Hospitals, too, are full of these radiations.

All wireless radiation has *biological* effects, and we really must wise up in the decisions we make individually and in our town governance. Wired connections are available – I use them at home; and fiber optic connectivity is more and more available to us. Please will you consider these matters. Thank you.

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