

SUMMARY OF MY TESTIMONY IN SUPPORT OF SENATE BILL 283

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Wifi transmits constantly.

The first thing that we need to understand about wifi in schools is that wifi routers transmit constantly, whenever they are turned on, whether or not other devices are using the network. They don't just speak when they are spoken to.

This means that unless these routers are turned off when not in direct use, our children and their teachers are being bathed in pulsed microwave transmissions the entire time that they are in the school building.

Prolonged exposure to Wifi and cellular technology has never been proven to be safe.

The FCC guidelines for these devices were established by engineers, and are only designed to protect against thermal harm. In other words, you can't fry an egg on your wifi router. But the FCC has never claimed that their guidelines for wireless transmission exposures address other potential biological effects ("non-thermal effects") of such exposures.

This means that our school children are in the middle of a vast biological experiment, to see what happens to them when we dramatically increase their exposure to these pulsed microwave transmissions by putting wifi routers in the classroom. They have not volunteered for this experiment. They have not given an informed consent to be in this experiment. But they are legally required to go to school.

This should be of concern, because the existing scientific research shows us that prolonged exposure to pulsed microwave radio transmissions can cause serious problems, including:

Acute symptomatic reactions: "Microwave sickness or Electrohypersensitivity Syndrome (EHS)" which can cause multiple symptoms, some of which are:

- fatigue
- irritability
- headache
- sleep disturbance
- depression
- poor concentration
- memory problems
- vertigo (dizziness)
- tinnitus (ringing of the ears)
- nausea
- appetite loss
- irregular heartbeat

Chronic increases in tissue inflammation due to oxidative stress and free radical production that has been shown to lead to:

- Neurologic degenerative changes
- Endocrine changes
- Decreases in fertility
- Increases in certain types of cancer

It really is time to start paying attention to the scientific research:

Nationally, we are seeing increasing rates of general anxiety in high school and college students, with more and more children being placed on anti-depressants. In my own practice, I have seen an increase in the number of school children and school teachers who are having adverse reactions to wifi in the public school system, some to the point that they cannot function in that environment.

Fertility rates in our country and in the developing world are continuing to drop, and this is now happening at a rate that surprises researchers, and that they cannot explain based on previous models of causation.

Brain tumors rates are now increasing in the United States and in Europe. Mixed brainstem glioma is now the leading cause of death in young children in the United States.

Evidence I am submitting to your Committee

001 Paul Dart MD C Vitae brief

002 Microwave RF Health Effects v4_01

003 DART_Biological and Health Effects of Microwave Radio Frequency Transmissions

004 5g-emf-hazards--dr-martin-l.-pall--eu-emf2018-6-11us3

005 M Pall 5G summary bibliography

006 Murray CJL et al 2018

007 Li et al 2017

008 Markov 2019

009 Wilke_Review_umg_2018_Eng_df

010 Hecht 2016

011 Markov 2015

012 Non-Thermal Effects and Mechanisms 2010

Documents 002 and 003 are presentations of the research review that I shared with the House and Senate Health Committees in 2013–2014. I think that document 002 is the most accessible introduction to the scientific research that I can give you. Document 003 is a more in-depth discussion.

Document 004 is an important recent meta-review of the science on microwave RF, which covers the extensive research that has occurred since I wrote my review in 2013.

Document 006 is a recent article from Lancet documenting the continued decline in human birth rates.

Document 007 is a very solid study published recently that shows a clear association between levels of typical daily electromagnetic field exposure and risk of miscarriage, with higher levels of exposure producing 2 to 3 times the risk of miscarriage.

Documents 008 through 012 are other recent meta-reviews of the biological effects of wireless communications, in case you want to delve more deeply into the subject.

If this legislation passes, these references (especially those listed in document 005) would be an excellent place for the Department of Education to start their review of the biological effects of microwave radiation.

Respectfully,

Paul Dart MD FCA