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Brief Comment	I am a veterinarian with a background in science (I wrote a dissertation in microbiology) and I am very concerned about the plans of the FCC to establish safe human exposure guidelines to ultrahigh frequencies above 100 Gigahertz. In the past the FCC has only focused on the thermal effects of all types of wireless radiation, when thousands of peer reviewed studies have shown biological effects to all types of wireless radiation. I myself am somewhat sensitive to electromagnetic fields/ radiation (EMF/ EMR) and experienced a huge improvement in my energy level, sharpness of my mind and alertness, when I replaced my WiFi with ethernet cables, replaced my cordless phones with corded ones and used dirty electricity filters to reduce the dirty electricity levels in my house and office. One of my clients cannot enter any other veterinarian's office, because of the high exposure to electromagnetic fields in these offices. She has to hand her dog to a staff member and wait outside the office for the return of her pet. And this was before COVID19! She can stay in my office together with her pet without any problem. There are many people highly sensitive to EMFs. I know several personally and some people have to move to West Virginia, to the area with almost non existing man-made EMFs to be able to live a somewhat normal life! These people may actually be the "lucky" ones, since their bodies warn them of the danger of EMFs, whereas most of the remaining population experiences only vague symptoms that they do not connect to the exposure to EMFs, like fatigue, tinnitus, depression, problems concentrating, headaches etc. There seems to be a lag period of		

headaches etc. There seems to be a lag period of decades for more serious diseases to develop, like mental diseases, infertility and cancer. The peer reviewed research shows biological effects in many species, animals, including humans, and plants. We cannot just concentrate on the thermal effects of EMFs and ignore the overwhelming evidence of harmful biological effects! I appeal to you to consider the scientific evidence of the very harmful biological effects of various frequencies of radiation. The biological effects of ultrahigh frequencies still need to be studied, but we cannot automatically assume that they just have thermal effects! Also: The FCC is considering to allow manufacturers to average the radiation output of consumer devices over time assuming that periodic, high level exposure to radiation is not harmful. To my knowledge there is no scientific base/studies for this hypothesis. There are documented cases of people with serious health effects, like severe headaches after the installation of smart meters in their home. Nowadays, notebooks and tablets are especially used by children. Their young, developing brains are even more sensitive to the effects of EMR than the ones of adults. I agree with the American Academy of Pediatrics that the regulations of the FCC should utilize testing protocols that reflect the fact that especially children use these devices. Regarding Wireless Power Transfer (WPT) Technologies I recommend that the safety of these devices needs to be tested and demonstrated not only in/for healthy adults, but also for children, elderly people with health issues, implanted cardiac pacemakers etc. And again, the biological effects need to be considered, not just the thermal ones.

