Comments to FCC on Notice of Inquiry, ET Docket No. 13-84
by Christine M. Hoch

Dear Federal Communications Commission Staff:

The United States radiation standards have not been reviewed in 16 years, and there is ample evidence to conclude that these standards should be significantly lowered and replaced by standards taking into consideration bioeffects.

According to the 2012 BioInitiative Report, which reviewed over 1800 scientific studies, ?Bioeffects are clearly established and occur at very low levels of exposure to electromagnetic fields and radiofrequency radiation. Bioeffects can occur in the first few minutes at levels associated with cell and cordless phone use. Bioeffects can also occur from just minutes of exposure to mobile phone masts (cell towers), WI-FI, and wireless utility smart meters that produce whole-body exposure. Chronic base station level exposures can result in illness. 1

Certain international laboratories have replicated studies demonstrating adverse effects on sperm quality, motility and pathology in men who use and in particular men who wear a cell phone, PDA or pager on their belt or in a pocket (Agarwal et al, 2008; Agarwal et al, 2009; Wdowiak et al, 2007; De Iuliis et al, 2009; Fejes et al, 2005; Aitken et al, 2005; Kumar, 2012).

Most recently, research from Japan on a mouse cell line, Mobile phone radiation induces mode-dependent DNA damage in a mouse spermatocyte-derived cell line: a protective role of melatonin stated, results conclude that 3G mobile phone radiations affect the brain function and cause several neurological disorders. 2

Another current study released in August 2013, Effect of 3G Cell Phone Exposure with Computer Controlled 2-D Stepper Motor on Non-thermal Activation of the hsp27/p38MAPK Stress Pathway in Rat Brain, concludes that ?3G mobile phone radiations affect the brain function and cause several neurological disorders. 3

Physicists argue that such a low amount of energy emitted from wireless products cannot affect living matter. If medical devices are permitted to emit pulsed radiofrequency radiation for medical therapy under monitored and short-term conditions, there must be bioeffects. Why can't the pulsed radio frequency radiation also negatively impact our cells as the research above indicates?

I have experienced health effects from exposure to pulsed radiofrequency radiation emitted from my cell phone and wireless laptop. In 2007, when I was working at home and using a cell phone for work purposes, I often had a headache, especially at the end of the day. When I worked, I also had neck pain, only in the front of my neck. I later realized that my neck was directly in front of my wireless laptop. During the days in which I didn't talk on the cell phone, I didn't experience headaches.

When I stayed away from my laptop, I didn't have frontal neck pain. Therefore, after reading further research, I came to the conclusion that my health effects, which could go away, were directly impacted by my use of wireless products.

I respectfully request that the FCC review all of the research associated with radiofrequency radiation and not discount the 1800 studies cited in BioInitiative Report. Since most teenagers and adults in the United States use cell phones at this point and are exposed to wireless radiation from Wi-Fi, cordless phones, and smart meters, it is imperative that the FCC establishes updated standards that truly protect the health of all Americans.

Sincerely,

Christine M. Hoch

Footnotes

1. http://www.bioinitiative.org/table-of-contents/

2. Int J Radiat Biol. 2013 Aug 19. [Epub ahead of print), Liu C, Gao P, Xu SC, Wang Y, Chen CH, He MD, Yu ZP, Zhang L, Zhou Z., http://www.ncbi.nlm.nih.gov/pubmed/23952262

3. Cell Biochem Biophys. 2013 Aug 15. [Epub ahead of print], Kesari KK, Meena R, Nirala J, Kumar J, Verma HN. http://www.ncbi.nlm.nih.gov/pubmed/23949848 School of Life Sciences, Jaipur National University, Jaipur, 302017, Rajasthan, India, kavindra_biotech@yahoo.co.in.

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