

Zachary R. Marks
California Brain Tumor Association
925-818-6888
cabta@me.com

February 5, 2013

Federal Communications Commission
ET Docket # 03-137
WR Docket # 12-357

I am writing to impress upon you the dire need to change the RF safety rules as they are inadequate to protect human health as the rules are based on physics rather than on biological studies. There are many excellent peer reviewed studies proving that non-ionizing radiation breaks the blood brain barrier and damages DNA causing cancer and other deleterious effects. This is occurring at non-thermal levels. Your current standards only take into account thermal heating and this must be changed.

Most children and teens are heavy users of cell phones and studies prove that their brains and tissues absorb more radiation than that of an adult. Please employ new practices in regard to RF standards as our youth will have a lifetime of exposure. Brain tumors are on the rise in the temporal and frontal lobes; the area to which the phone is held. One recent study showed brain tumors on the rise in 20-29 year olds with just 5 years of use.

We have seen an increase in gliomas the past few years which have been attributed "more likely than not" to cell phone use. With the ubiquitous use of cell phones and with children using them daily, keeping them in their pockets for hours and 87% of teens sleeping with them under their pillows (Pew Research) this is a potential health catastrophe. Your current standards are obsolete and need to be taken into account non-thermal effects of RF on the brain and body.

We are seeing more and more cases the past few years of deadly gliomas that have been attributed "more likely than not" to ipsilateral cell phone use. The "victims" range in age from 22- 61; several are already deceased. We strongly urge you to take on new standards to protect ALL American citizens NOW. Thank you.

Sincerely,

Zack Marks
cabta@me.com