

Senator Woodsome, Rep. Dion, and Members of the Energy,  
Utility and Technology committee,

My name is Kristen Cobb. I am the wife of Stuart Cobb. In 2010 when my husband was diagnosed with a brain tumor, his physician had asked my husband which side of the head he used his cell phone and he also wanted to know how often he would spend on it. These questions lead us to learn about former Rep. Boland's cell phone warning label bill and numerous others who had suffered the same fate who were actively seeking legislation in their home state.

When I first came to learn about the health risks associated with cell phone radiation, I reached out to our then Maine CDC director, Dora Mills. In correspondence with me she said the weight of the evidence was not there. That was almost 5 years ago, and the weight of the evidence is becoming even more clear and cannot be ignored any longer.

We have testified in favor of this bill in the past in 2011, 2013, 2014, and now today. I am one who absolutely hates public speaking and I would not have taken a day off from work, without pay, if I didn't think the cause for concern was real. Please vote ought to pass.

Kristen Cobb  
Portland, ME

## The Weight of the Evidence

American Academy of Pediatrics letter in support of Rep. Dennis Kucinich's Cell Phone Right to Know Act: [http://ehtrust.org/wp-content/uploads/2012/12/aap\\_support\\_letter\\_cell\\_phone\\_right\\_to\\_know\\_act.pdf](http://ehtrust.org/wp-content/uploads/2012/12/aap_support_letter_cell_phone_right_to_know_act.pdf)

Internal Journal of Oncology, Case-control study of the association between malignant brain tumours diagnosed between 2007 and 2009 and mobile and cordless phone use.  
<http://www.ncbi.nlm.nih.gov/pubmed/24064953>

Occupation and Environmental Medicine, Mobile phone use and brain tumours in the CERENAT case-control study  
<http://oem.bmj.com/content/early/2014/05/09/oemed-2013-101754>

Internal Agency For Research on Cancer Classifies Radiofrequency Electromagnetic Fields as a Possible Carcinogen to Humans, May 2011  
[http://www.iarc.fr/en/media-centre/pr/2011/pdfs/pr208\\_E.pdf](http://www.iarc.fr/en/media-centre/pr/2011/pdfs/pr208_E.pdf)

Incidence trends in the anatomic location of primary malignant brain tumors in the United States: 1992-2006  
<https://www.ncbi.nlm.nih.gov/pubmed/?term=Zada+G+Incidence+trends>

Multifocal Breast Cancer in Young Women with Prolonged Contact between Their Breasts and Their Cellular Phones  
<http://www.hindawi.com/journals/crim/2013/354682/>

Mobile Phone Radiation Causes Brain Tumors and Should be Classified as a Probable Human Carcinogen <http://www.spandidos-publications.com/ijo/46/5/1865>

Effects of Cell Phone Radiofrequency Signal Exposure on Brain Glucose Metabolism, Volkow, et al, 2011-Journal of the American Medical Association: ...metabolism in the region closest to the antenna (orbitofrontal cortex and temporal pole) was significantly higher for on than off conditions,  
<http://jama.jamanetwork.com/article.aspx?articleid=645813>

Surgical Neurology: Cell Phones and Brain Tumors: A Review Including the Long-Term Epidemiologic Data <http://www.brain-surgery.us/KhuranaSurgNeurol.pdf>

Higher Tumor Rates Through Exposure to Electromagnetic Fields: Jacobs Scientists Identify Effects Below Exposure Limits <http://jacobs-university.de/2015/03/higher-tumor-rates-through-exposure-electromagnetic-fields-jacobs-scientists-identify-effect>

CDC Retracts its Precautionary Health Warning about Cell Phone Radiation: The Centers for Disease Control and Prevention issued a precautionary health warning about cell phone radiation on June 9, 2014 and retracted the warning ten weeks later  
<http://www.prlog.org/12362077-cdc-retracts-its-precautionary-health-warning-about-cell-phone-radiation.html>

The Telegraph: Mobile Phones can Cause Brain Tumours, Court Rules, Oct. 2012 <http://www.telegraph.co.uk/news/health/9619514/Mobile-phones-can-cause-brain-tumours-court-rules..html>

United States: 29 Brain Tumor Lawsuits Move Toward Trial in Washington, DC, Sept. 2014 <http://mieuxprevenir.blogspot.ca/2014/09/united-states-29-brain-tumor-lawsuits.html>

Maryland City Votes Unanimously to Alert Citizens to the Health Risks of Cell Phone/Wireless Radiation and to Oppose Cell Towers on School Grounds, Nov. 2014 <http://www.releasewire.com/press-releases/maryland-city-votes-unanimously-to-alert-citizens-to-the-health-risks-of-cell-phonewireless-radiation-and-to-oppose-cell-towers-on-school-grounds-564985.htm>

Berkeley Votes On "Right To Know" Cell Phone Warning Ordinance, Oct. 2014 <http://www.rfsafe.com/oct-28th-berkeley-votes-right-know-cell-phone-warning-ordinance/>

Canada Considers Law to Place Warning Labels on Cell Phones, <http://www.gsma.com/publicpolicy/canada-considers-law-to-place-warning-labels-on-cell-phones>

## Significant Scientific Publications

**INTERPHONE STUDY:** The 13 country, telecom industry-funded Interphone Study was undertaken for 10 years at the cost of at least \$30 million. The results were to be published when the study was completed in 2005 but they were repeatedly delayed because of internal conflict and changes in leadership. While they could not agree on how to report the findings that long term use of cell phones correlated with a rise in malignant brain cancer, researchers from several participating nations including Sweden, France, Denmark, and Israel published their own results and warned their citizens of health risks. Finally, in May, 2011 the results were published.

Per Dr. Sanjay Gupta, Neurosurgeon and CNN medical correspondent:

***“The headline from [the Interphone] study was there was little or no evidence to show an association between cell phones and cancer. Though, if you went to the appendix of the study, which interestingly was available only online, you found something unsettling. The data showed people who used a cell phone 10 years or more doubled the risk of developing a glioma, a type of brain tumor.”***

**“Incidence Trends in the Anatomic Location of Primary Malignant Brain Tumors in the United States: 1992–2006”** (Zada et al, 2012) World Neurosurgery. Conclusion: “Data from 3 major cancer registries (LA County, CCR and SEER 12) demonstrated increased incidence of GBMs in the frontal lobe, temporal lobe and cerebellum, despite decreased incidences in other brain regions.” **These areas of the brain are closest to cell phone when held to head.**

**“Effects of Cell Phone Radiofrequency Signal on Brain Glucose Metabolism”** (Volkow, et al, 2011) - Journal of the American Medical Association: “...metabolism in the region closest to the antenna (orbitofrontal cortex and temporal pole) was significantly higher for on than off conditions.”

**“Cell phones and Brain tumors: A review including the long-term epidemiologic data”** (Khurana, et al, 2009) Surgical Neurology. Literature review indicates that using a cell phone for greater than 10 years approximately doubles the risk of being diagnosed with a brain tumor on the same side of the head as that preferred for cell phone use. Dr. Khurana says that because of their much broader use today cell phone use “has far broader public health ramifications than asbestos and smoking, and directly concerns all of us, particularly the younger generation, including very young children.”

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**“Exposure Limits: The Underestimation of Absorbed Cell Phone Radiation, Especially in Children”,** (Gandhi et al. 2011) - Electromagnetic Biology and Medicine. Conclusion: Cell phones used in shirt or pants pocket exceed FCC exposure guidelines and children absorb 2 times as much microwave radiation from cell phones as adults.

**“Mobile Phone Use and Risk of Tumors: A Meta-Analysis”,** (Myung et al, 2009) - Journal of Clinical Oncology. This meta study found that when combined results were analyzed there was overwhelming evidence of link between cell phone use and glioma (when the industry-funded studies were removed.)

**“Cellular Phone Use and Risk of Benign and Malignant Parotid Gland Tumors – A Nation-Wide Case Control Study”** (Sadetzki et al, 2007) - American Journal of Epidemiology. Found link between brain tumors and cell phones. They also reported heavy cell phone users were more likely to have tumors of the salivary gland compared to non-users.

**“Correlation between cellular phone use and epithelial parotid gland malignancies”** (Duan, Zhang 2011) International Journal of Oral and Maxillofacial Surgery - Chinese researchers found a greater than 7-fold increase in cancer of the parotid (salivary) gland related to cell phone use.

**“Cell Phone Use in Pregnancy may Cause Behavioral Disorders in Offspring”** (Yale University: Taylor et al, 2012) Scientific Reports - Exposure to radiation from cell phones during pregnancy was found to affect the brain development of offspring resulting in hyperactivity and other behavioral abnormalities.

**“On the association between glioma, wireless phones, heredity and ionising radiation”** (Carlberg,Hardell, 2012) Pathophysiology. This comprehensive review affirms a causative link between wireless phone use and brain tumors.

**“Effect of cell phone usage on semen analysis in men attending infertility clinic”** (Cleveland Clinic: Agarwal et al, 2008) Fertility and Sterility - Conclusion: “Use of cell phones decrease the semen quality in men by decreasing the sperm count, motility, viability, and normal morphology. The decrease in sperm parameters was dependent on the duration of daily exposure to cell phones and independent of the initial semen quality.”