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Dear PARDeS President David Prashker

We are writing to share information about an important children's environmental issue impacting schools: wireless radiation. Wireless radiation is radio frequency radiation, which encompasses the radiation from cell phones, cordless phones, WIFI routers and wireless enabled devices.

Current exposure standard for radio frequency radiation were established around 30 years ago. The United States has come under sharp criticism by the [GAO](#), the [American Academy of Pediatrics](#), the [US Department of the Interior](#), and research scientists around the world. The FCC is currently reviewing exposure standards and has received hundreds of submissions detailing public health concerns with the current regulations ([Proceeding 13-84](#), 2013).

Israel, on recommendation from the Israeli Health Ministry, has recommended teachers have wired computers and that students exposures to WIFI in classes are minimized. Other countries, such as Russia, India, France and Belgium recommend that children's exposures be minimized and that citizens take specific precautions with children, cell phones and wireless devices. The Israeli Ministry of Health recommendations are published in the [Environmental Health in Israel Report 2014](#) and the recently published [ISRAEL 2015 RF Safety Report](#).

There is a significant emerging body of evidence indicating that wireless radiation can have effects on the body with respect to cancer, genotoxicity, immune function, gene and protein expression, cell signaling, oxidative stress, cell death, blood-brain barrier and brain activity. Although the low level microwaves from Wi-Fi meet FCC regulations, this does not ensure they are safe.

"Children are not little adults and are disproportionately impacted by all environmental exposures, including cell phone radiation. Current FCC standards do not account for the unique vulnerability and use patterns specific to pregnant women and children." stated the American Academy of Pediatrics in a 2013 Submission to the FCC on Radio Frequency exposure standards.

Biological effects have been shown to occur at radiation levels below the FCC public exposure guideline level. Please consider this recently published scientific information.

- 2011: The World Health Organization's International Agency for the Research on Cancer (IARC) [classified](#) Radio Frequency Radiation as a Class 2 B Carcinogen, a possible human carcinogen and the IARC issued their [Monograph](#) in April 2013 detailing the basis of the classification.
- 2011: Environment and Human Health Inc. released "[Cell Phones: Technology, Exposures, Health Effects](#)" calling for reduced exposures and protective standards.
- Several studies are showing impacts on both male and female reproductive systems: Adams J., (2014), Avendaño C. et al. (2012), De Iulii et al., 2009 (2002), Fejes et al. (2005), Agawar et al. (2008), Wdowiak et al. (2007), Gul A et al. (2009), Atasoy H. et al., (2013), Naziroğlu M et al., (2013), Panagopoulos DJ, (2012) and Gutsch et al (2011).
- Several studies are showing changed brain activity and neurotoxic effects: Aldad et al., (2012), Cetin H, et al (2014), Júnior C. et al., (2014) Odaci, E., et al, (2008), Qiao S, et al, (2014), Bas, O. et al (2009), Naziroğlu M. and Gumral. (2009), Megha, K, et al., (2012), Bin L. et al, (2013), Jing J et al, (2012), Razavinasab M. et al, (2014), Volkow N, et al (2011) İkinci et al (2013).
- A [new study](#) by breast cancer surgeons found a link to unusual breast tumors in young women who keep cell phones in their bras and have no genetic markers for the disease.

Administrators, staff and students are not aware of the health and safety issues wireless devices present. For example, iPads and tablets have at least 4 antennas emitting digital pulsed radiation 900 times an hour. They have [fine print warnings](#) recommending that the cellular antennas be directed "away from the body and other objects." As another example, laptops are tested at 20 cm (about 8 inches) from the body and use on laps could result in exposures over the FCC limits. Such important information is buried in the fine print of manuals.

Children are more vulnerable to this radiation due to their rapidly developing bodies and brains. In light of accumulating research that such devices can have biological effects, we believe precautionary approaches are necessary. The US history with lead, cigarettes and asbestos demonstrates that regulations and "proof" could take decades. Waiting these decades could have serious health implications for our children's future.

Attached is a document detailing current precautionary actions by governments and authorities around the world. We are open to assisting your organization in any way we can in order to support more protective policy and practices in schools and to raise awareness with the families you serve.

Based on growing evidence of biological effects and policies devised by other nations, we recommend that educational policy makers raise community awareness on this issue so that schools, students and their families can take simple precautionary steps. It is important to teach children how to use technology safely and more responsibly to protect their health and wellbeing.

Solutions exist to reduce exposures to wireless and mitigate risk. Best Practices have been developed to reduce exposures in schools and homes. Schools have a unique opportunity to maintain low radiation environments through prudent technology choices and Low-EMF Best Practices, thus significantly reducing the overall exposures on children.

We also have attached a document detailing Best Practices for Schools developed by the Collaborative for High Performance Schools (CHPS Best Practices). Simple solutions exist that will mitigate risk in schools.

We would like to schedule a call at your convenience to discuss this important emerging health concern. We would like to present multimedia information to your leadership (or your annual meeting) on the latest scientific evidence on this issue and specific mitigation strategies that are being adopted around the world.

A 21st century classroom must bridge the digital divide so that students have equal access to technology. Low EMF Best Practices are the solution that allows for full technological access in the classroom while minimizing health risk.

Sincerely,

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