

The rapid proliferation of wireless devices in classrooms has caused medical and scientific professionals to voice increased concern about the potential health effects of near-constant exposure to radiofrequency (RF) radiation, particularly for children. This concern stems from multiple factors:

- All wireless devices emit RF radiation.
- Multiple devices increase the amount of radiation exposure.
- There has been no government testing of cumulative exposures in schools.
- Children are uniquely vulnerable to RF radiation because of their smaller size and rapidly developing physiology.



This is why hundreds of medical and public health professionals from around the world have joined together with parents and professional educators to demand that government agencies adopt more stringent standards to protect children from exposure to RF radiation

The **TechSafe School** program is based on the most recent scientific evidence demonstrating potential harm from exposure, and is designed to help parents, teachers and school administrators take simple steps to reduce unnecessary exposures for our children.

“Current FCC standards do not account for the unique vulnerability and use patterns specific to pregnant women and children. It is essential that any new standard for cell phones or other wireless devices be based on protecting the youngest and most vulnerable populations to ensure they are safeguarded throughout their lifetimes.”

- American Academy of Pediatrics

“The various agencies setting safety standards have failed to impose sufficient guidelines to protect the general public, particularly children who are more vulnerable to the effects of EMF.”

- International Scientist Appeal to the United Nations

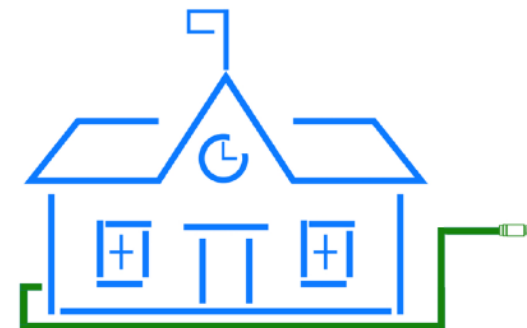
“Based on our review of the health risks and the inadequacy of current standards to protect children, while the science evolves, we urge schools to consider minimizing or eliminating radiofrequency radiation sources and taking steps to reduce classroom exposure. EWG’s guideline for children is 200 to 400 times lower than the current FCC whole-body exposure standard.”³

- Environmental Working Group

TechSafeSchools

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TechSafeSchools



Let's protect our kids.
Let's hardwire our schools.



It's silent and invisible, but scientists are discovering that constant exposure to the radiation emitted from wireless devices, even at levels previously thought safe, can have serious and lifelong consequences for our children.

Q. Can radiofrequency (RF) radiation from tablets, laptops, and wi-fi routers in school classrooms cause health problems?

A. Yes. Recent studies have demonstrated that exposure to RF radiation can trigger acute symptoms such as headaches, fatigue, dizziness, inability to concentrate, as well as increase the risk of chronic diseases including cancer, neurological disorders and DNA damage.

Children are at higher risk from exposure to RF radiation because of their immature and rapidly changing physiology and their vulnerable developing nervous systems. Children also have many more years to live and thus to develop health problems from longer lifetime exposures to RF radiation.

A ten-year study by the National Toxicology Program of the National Institutes of Health was designed to determine whether RF radiation could cause cancer. In 2018, an independent expert panel reviewing the study found "clear evidence" of increased cancer among the animals tested.¹

A concurrent study by the Ramazzini Institute in Italy (partially funded by the U.S. government) documented similar cancer risk from distant cell towers.²

These studies confirm what thousands of other independent, peer-reviewed studies have found over the past fifty years: chronic exposure to wireless radiation can cause biological harm. Children and pregnant women are particularly vulnerable to its effects.

Q. Our IT consultant had assured us that all of the school's equipment meets current FCC exposure guidelines. Should we still be concerned?

A. Yes. Current FCC human exposure guidelines were developed back in the 1980s based on very limited studies of monkeys and rats, and adopted by the FCC in 1996. The guidelines are based exclusively on thermal (heating of tissue) effects on a full-sized adult male. Non-thermal biological effects such as neurological impacts, cancer, DNA changes or acute physiological impacts were not considered.

In August of 2021, the U.S. Court of Appeals for the DC Circuit ordered the FCC to re-evaluate its safety guidelines based on current science that shows significant potential harm to children and the environment.



Q. Is it difficult to install hardwired systems?

A. No. Most schools already have Ethernet installed in or near classrooms. Amortized over time, wired systems are actually cheaper than wireless. They are also future-proof, whereas wireless systems may need expensive replacement or upgrades as technology evolves.

Q. If our school is already heavily invested in wireless technology, what can we do?

A. Discontinue purchases or upgrades of wireless technology. Cancel agreements for any cell towers or antennas on school property. Ask your IT personnel to move routers to over the door where children are not seated, reduce the transmit power of routers and wireless access points to the lowest possible setting while still maintaining functionality, and reduce the frequency of the beacon signal. Hardwire all fixed devices in classrooms, and provide hard-wired connections wherever possible.

¹ National Toxicology Technical Report on Cell Phones and Cancer. National Toxicology Program TR595:1-466. (2018).

² Brain and Heart Tumors in Sprague-Dawley Rats Exposed to Mobile Phone Base Station Environmental Emission. Falcioni, L, et al. Environmental Research 165:496-503. (2018).

³ Development of health-based exposure limits for radiofrequency radiation. Uche, U.I., Naidenko, O.V. Environ. Health 20, 84 (2021).

Grassroots Environmental Education is a science-based award-winning environmental health non-profit organization.



Read some of the latest independent science on RF radiation and human health at our website: TechSafeSchools.org